



Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 03:53 AM UTC

PDB ID : 5UOT / pdb_00005uot
EMDB ID : EMD-8577
Title : CryoEM structure of the helical assembly of full length MxB
Authors : Perilla, J.R.; Alvarez, F.J.D.; Zhang, P.; Schulten, K.
Deposited on : 2017-02-01
Resolution : 4.60 Å(reported)
Based on initial model : 4WHJ

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:

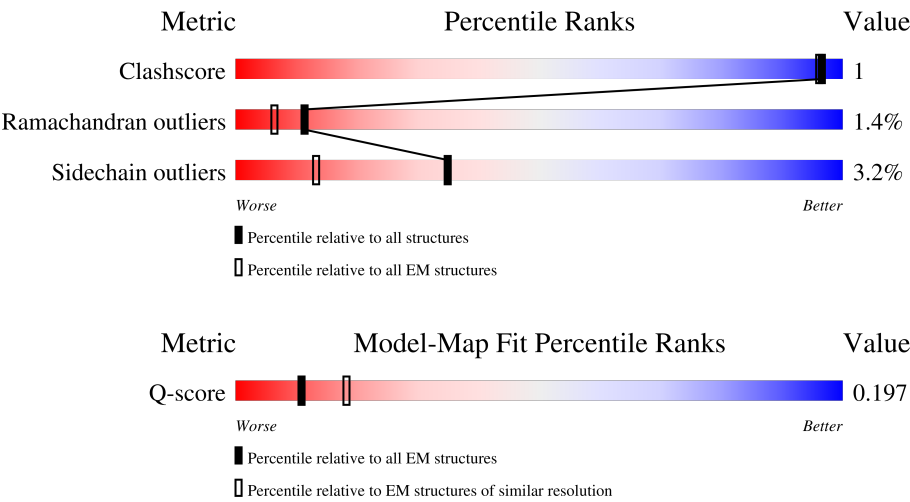
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance i

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	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
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 $\leq 5\%$. 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	0	619	
1	1	619	
1	2	619	
1	3	619	

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Mol	Chain	Length	Quality of chain		
1	4	619	96%	41%	49%
1	5	619	96%	38%	53%
1	6	619	96%	43%	49%
1	7	619	96%	43%	48%
1	8	619	96%	42%	49%
1	9	619	96%	44%	47%
1	A	619	96%	44%	46%
1	B	619	96%	42%	49%
1	C	619	96%	42%	48%
1	D	619	96%	43%	48%
1	E	619	96%	41%	49%
1	F	619	96%	40%	49%
1	G	619	96%	38%	53%
1	H	619	96%	40%	51%
1	I	619	96%	39%	54%
1	J	619	96%	41%	51%
1	K	619	96%	37%	53%
1	L	619	96%	43%	47%
1	M	619	96%	41%	50%
1	N	619	96%	41%	50%
1	O	619	96%	43%	49%
1	P	619	96%	39%	52%
1	Q	619	96%	42%	49%
1	R	619	96%	42%	50%
1	S	619	96%	42%	49%

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Mol	Chain	Length	Quality of chain		
1	T	619	96%	41%	50%
1	U	619	96%	38%	53%
1	V	619	96%	41%	50%
1	W	619	96%	44%	48%
1	X	619	96%	42%	50%
1	Y	619	96%	44%	48%
1	Z	619	96%	39%	52%
1	a	619	96%	42%	49%
1	b	619	96%	45%	45%
1	c	619	96%	45%	47%
1	d	619	96%	42%	47%
1	e	619	96%	39%	52%
1	f	619	96%	42%	49%
1	g	619	96%	40%	50%
1	h	619	96%	42%	48%
1	i	619	96%	42%	50%
1	j	619	96%	41%	50%
1	k	619	96%	43%	48%
1	l	619	96%	41%	50%
1	m	619	96%	43%	48%
1	n	619	96%	38%	53%
1	o	619	96%	42%	50%
1	p	619	96%	38%	53%
1	q	619	96%	42%	48%
1	r	619	96%	42%	49%

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Mol	Chain	Length	Quality of chain		
1	s	619			
1	t	619			
1	u	619			
1	v	619			
1	w	619			
1	x	619			
1	y	619			
1	z	619			

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 298034 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 Interferon-induced GTP-binding protein Mx2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	1	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	2	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	3	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	4	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	5	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	6	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	7	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	8	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	9	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	a	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	b	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	c	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	d	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	e	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	f	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	g	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	h	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	i	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	j	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	k	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	l	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	m	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	n	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	o	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	p	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	q	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	r	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	s	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	t	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	u	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	v	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	w	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	x	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	y	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	z	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	A	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	B	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	C	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	D	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	E	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	F	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	G	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	H	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	I	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	J	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	K	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	L	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	M	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	N	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	O	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	P	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	Q	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	R	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	S	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	T	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	U	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	V	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	W	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		

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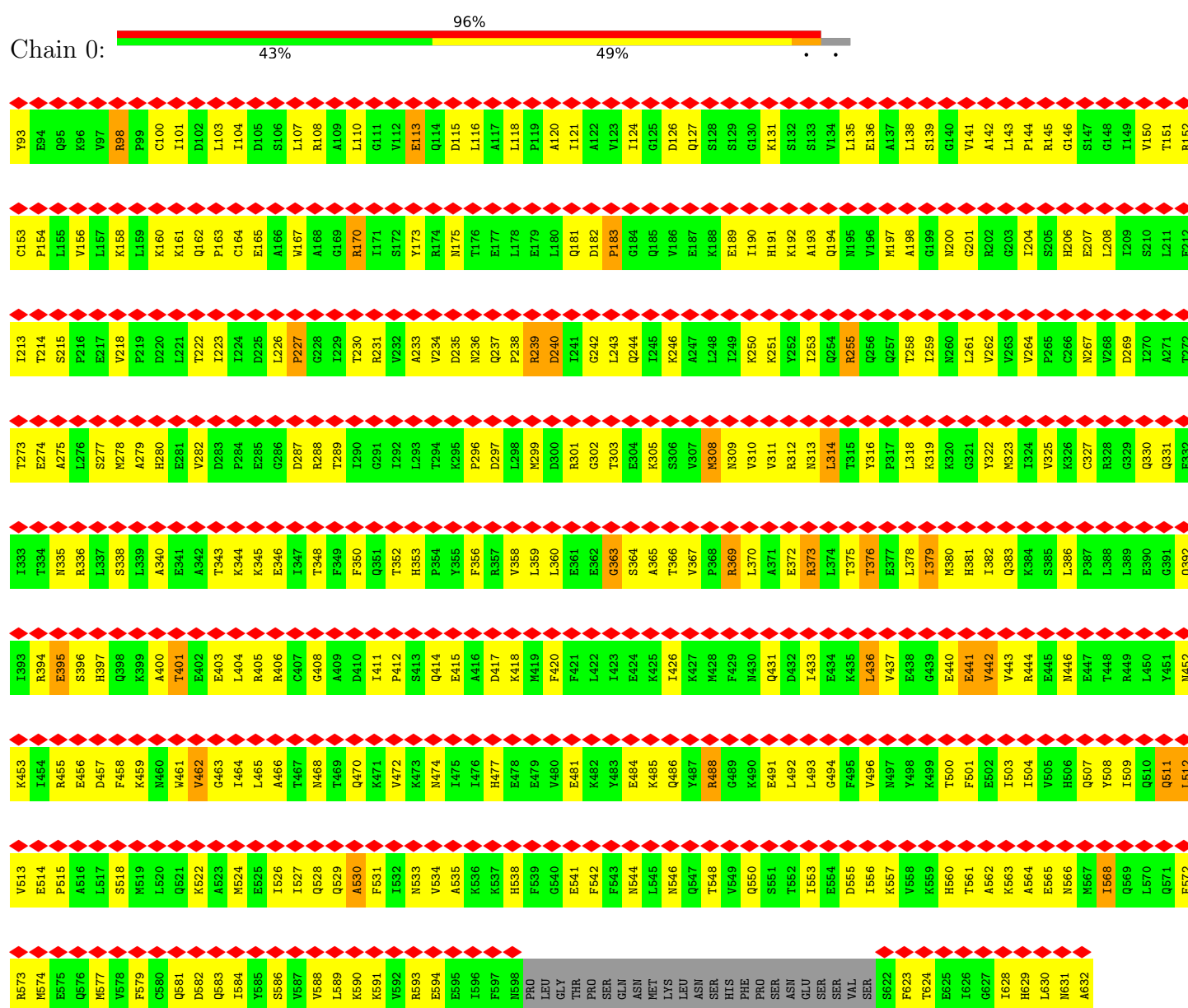
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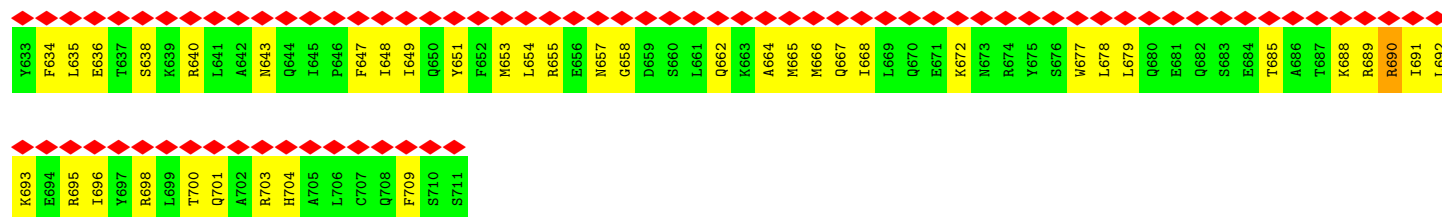
Mol	Chain	Residues	Atoms					AltConf	Trace
1	X	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	Y	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		
1	Z	596	Total	C	N	O	S	0	0
			4807	3046	841	896	24		

3 Residue-property plots

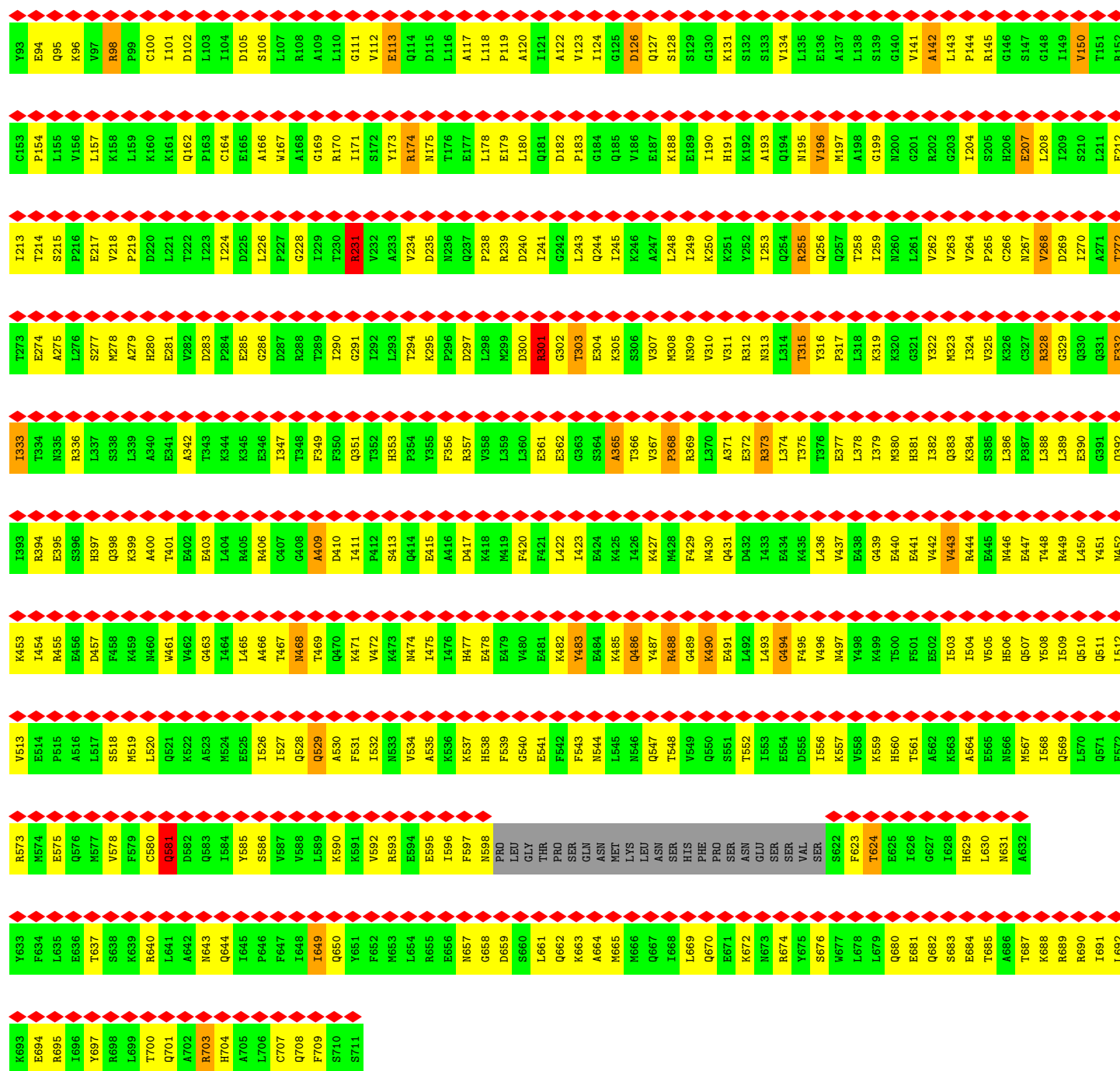
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Interferon-induced GTP-binding protein Mx2

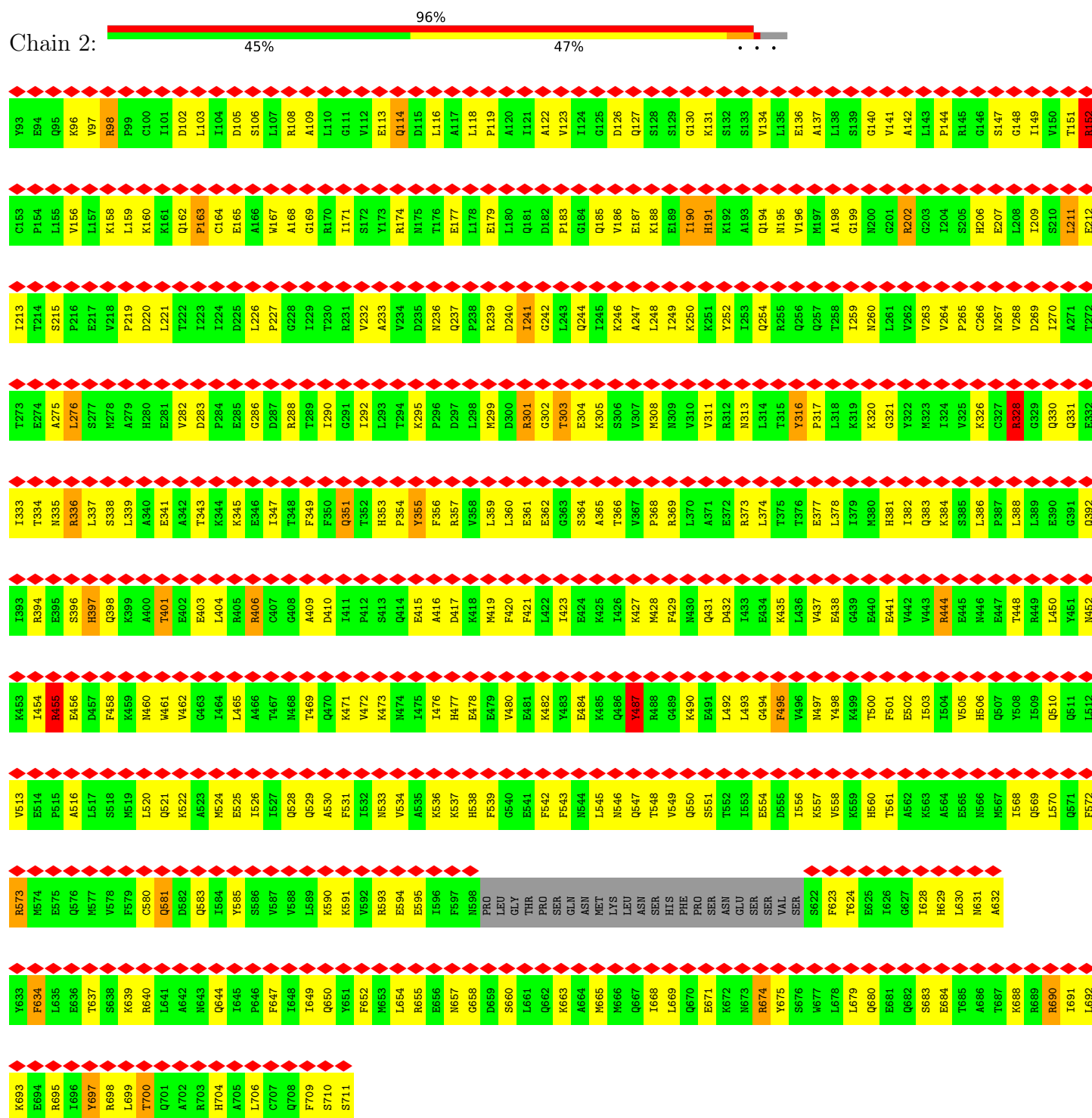




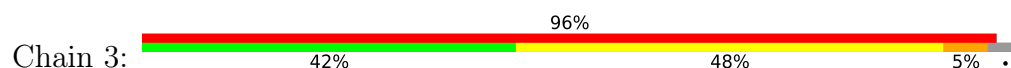
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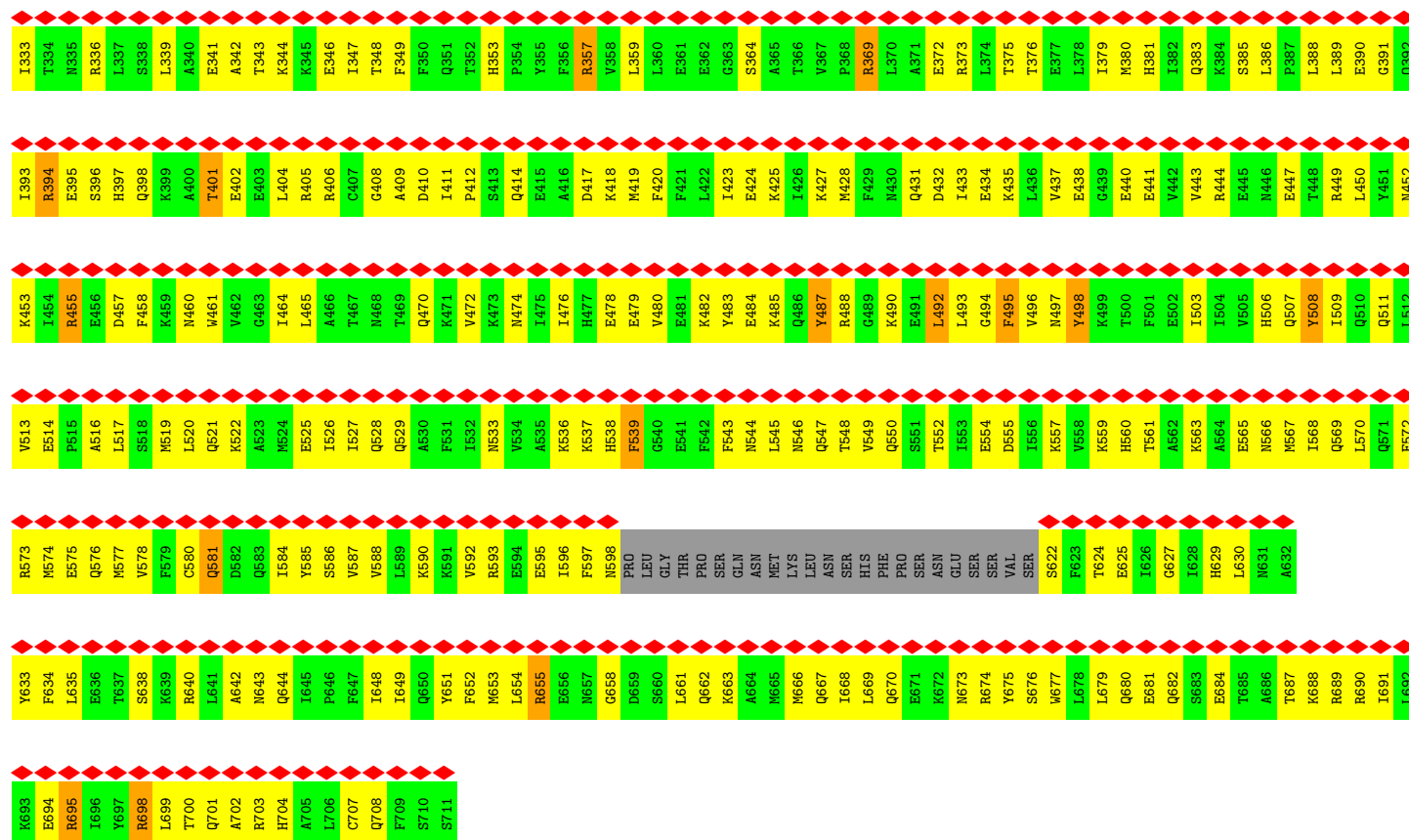


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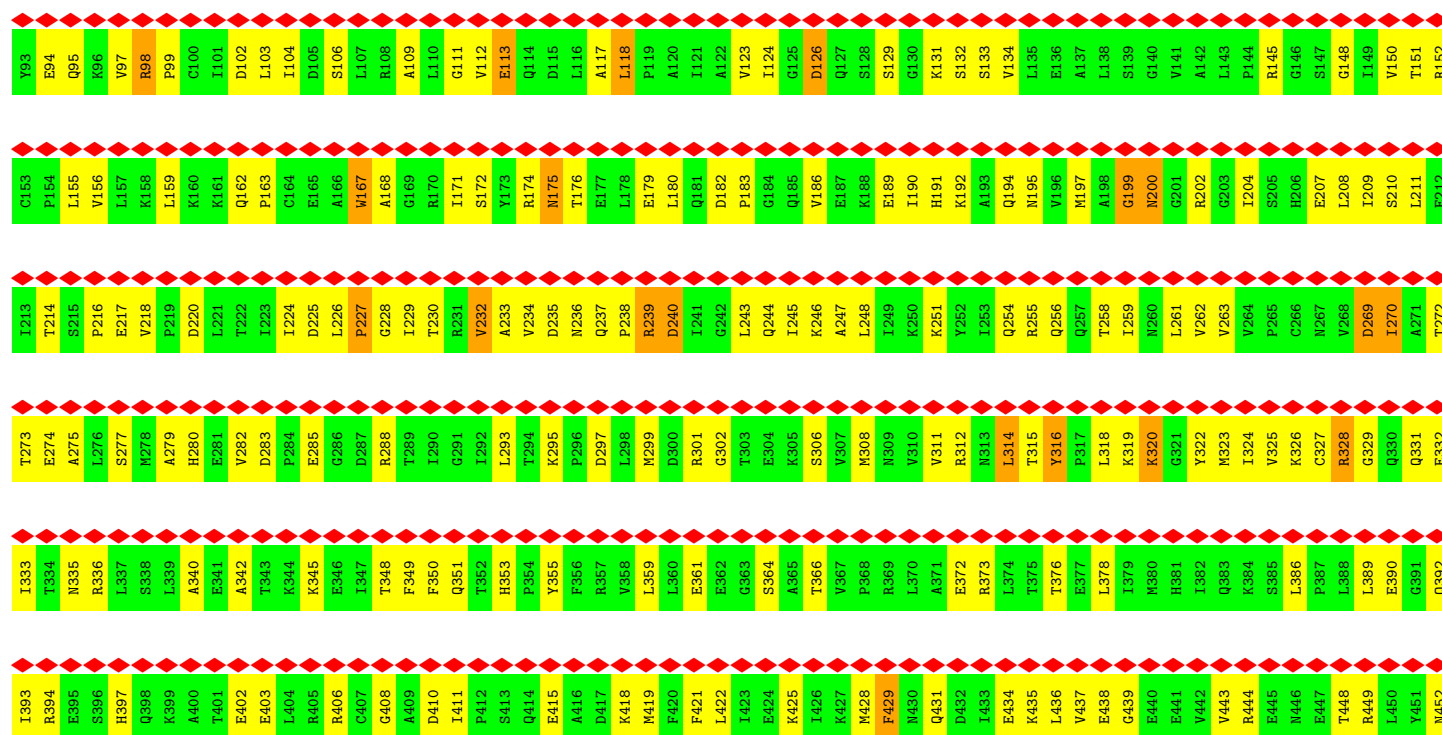


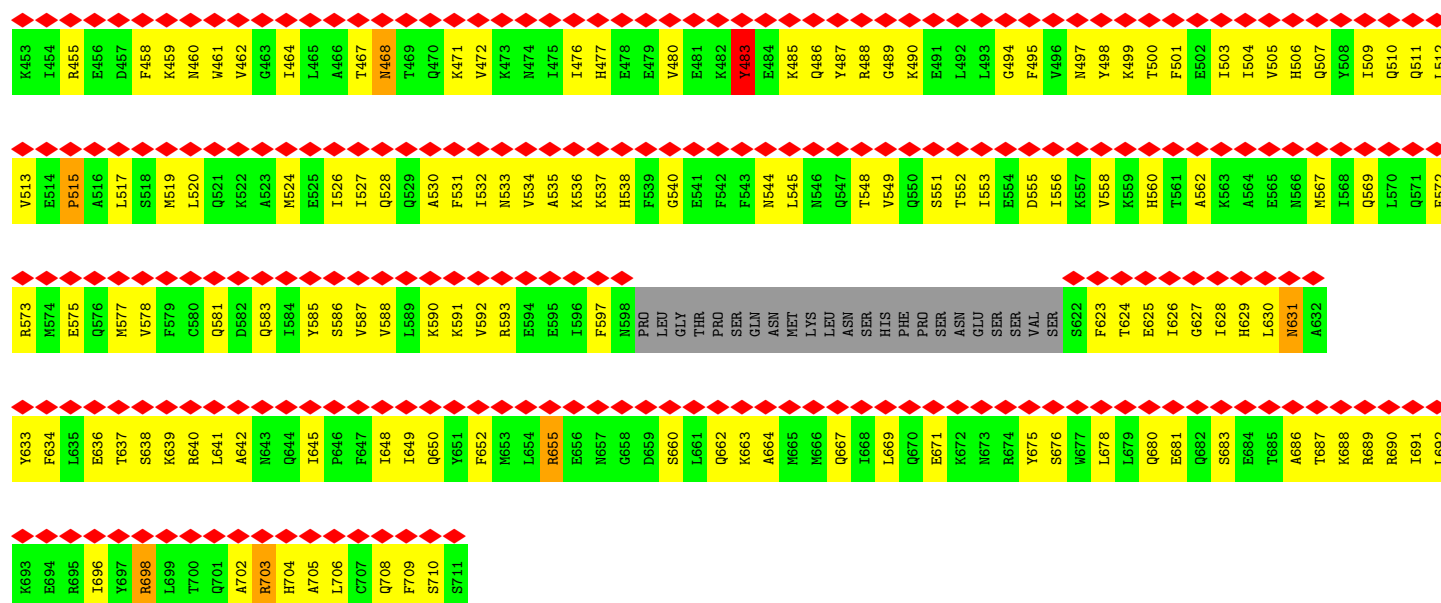
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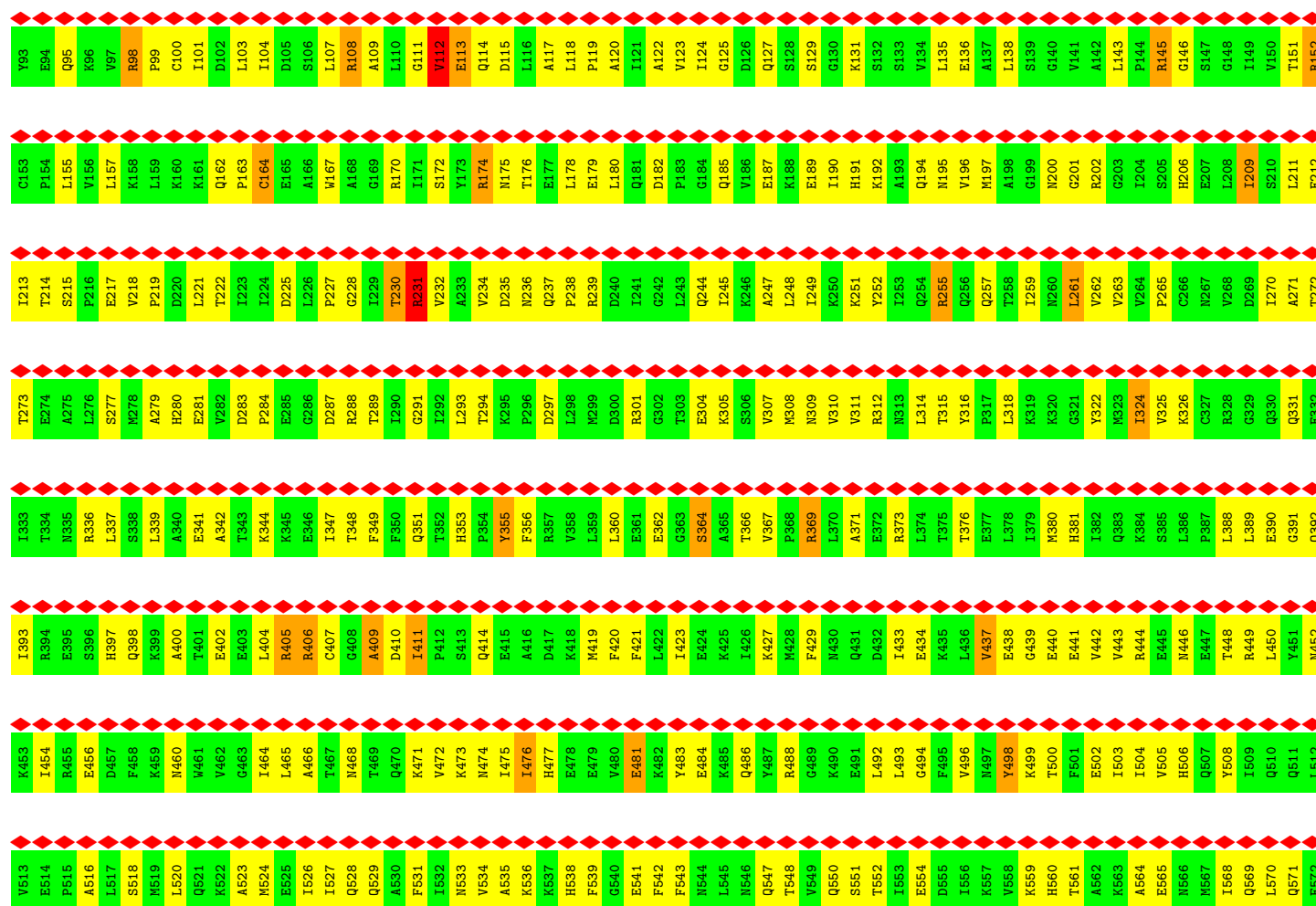


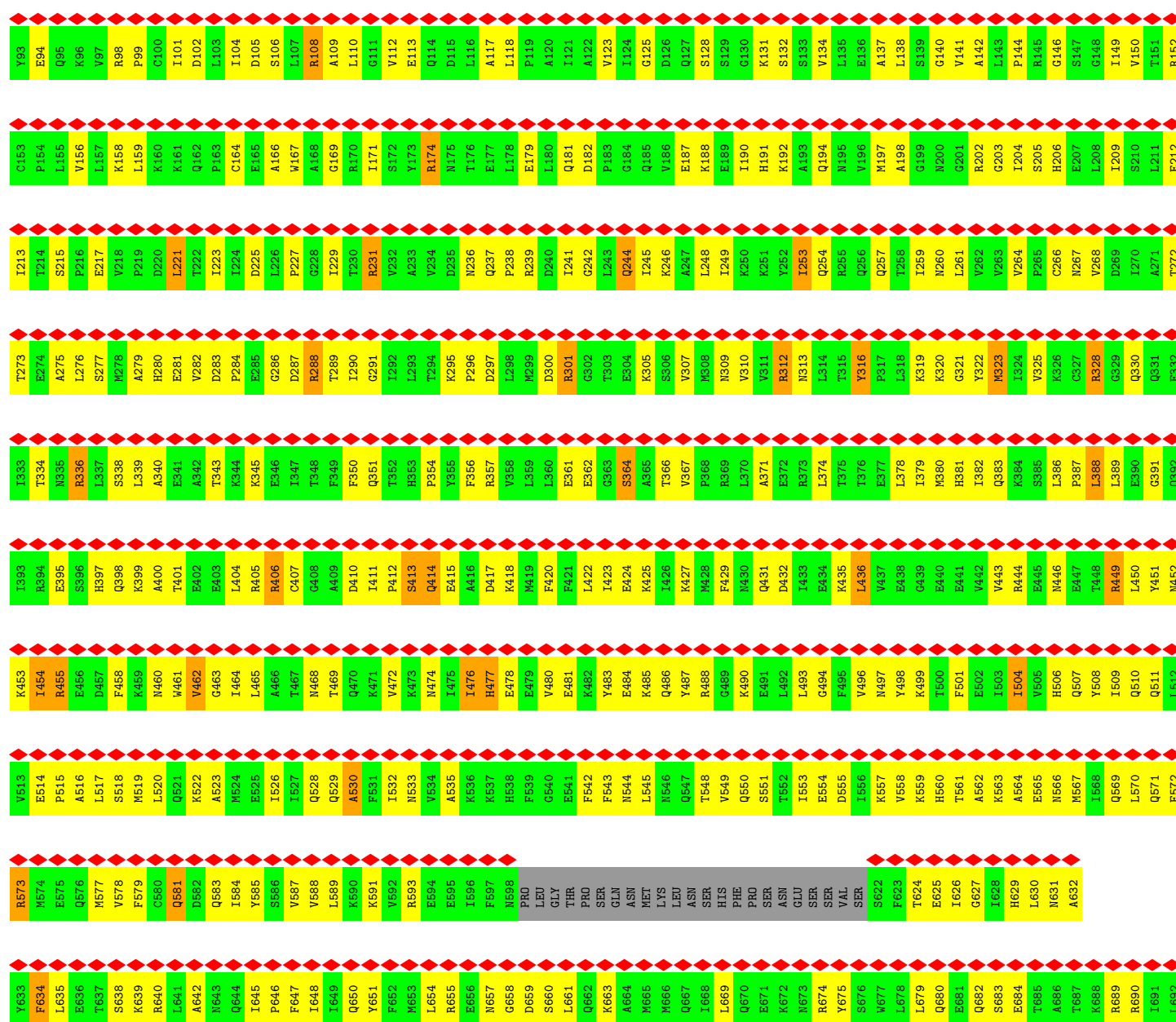
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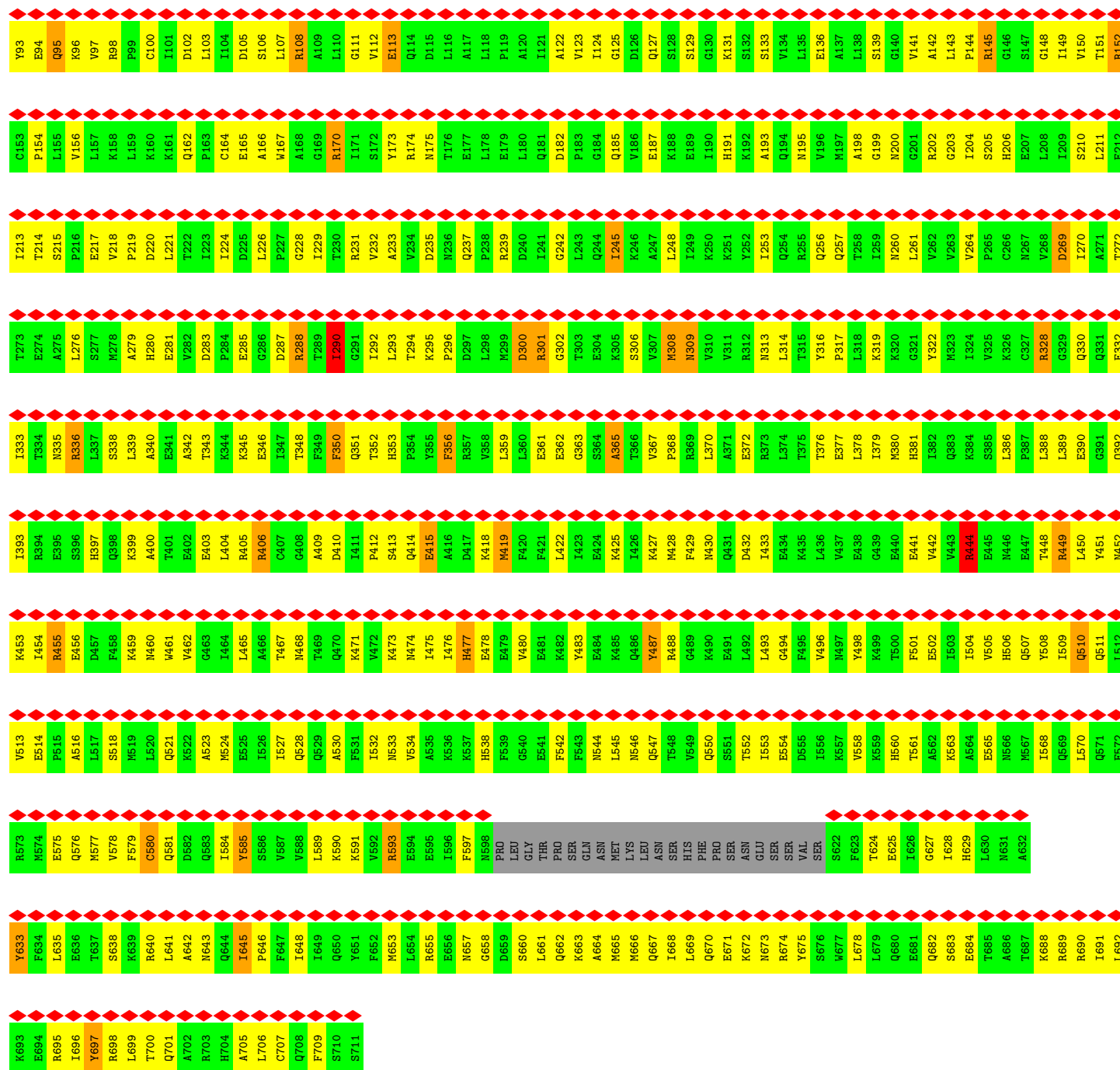
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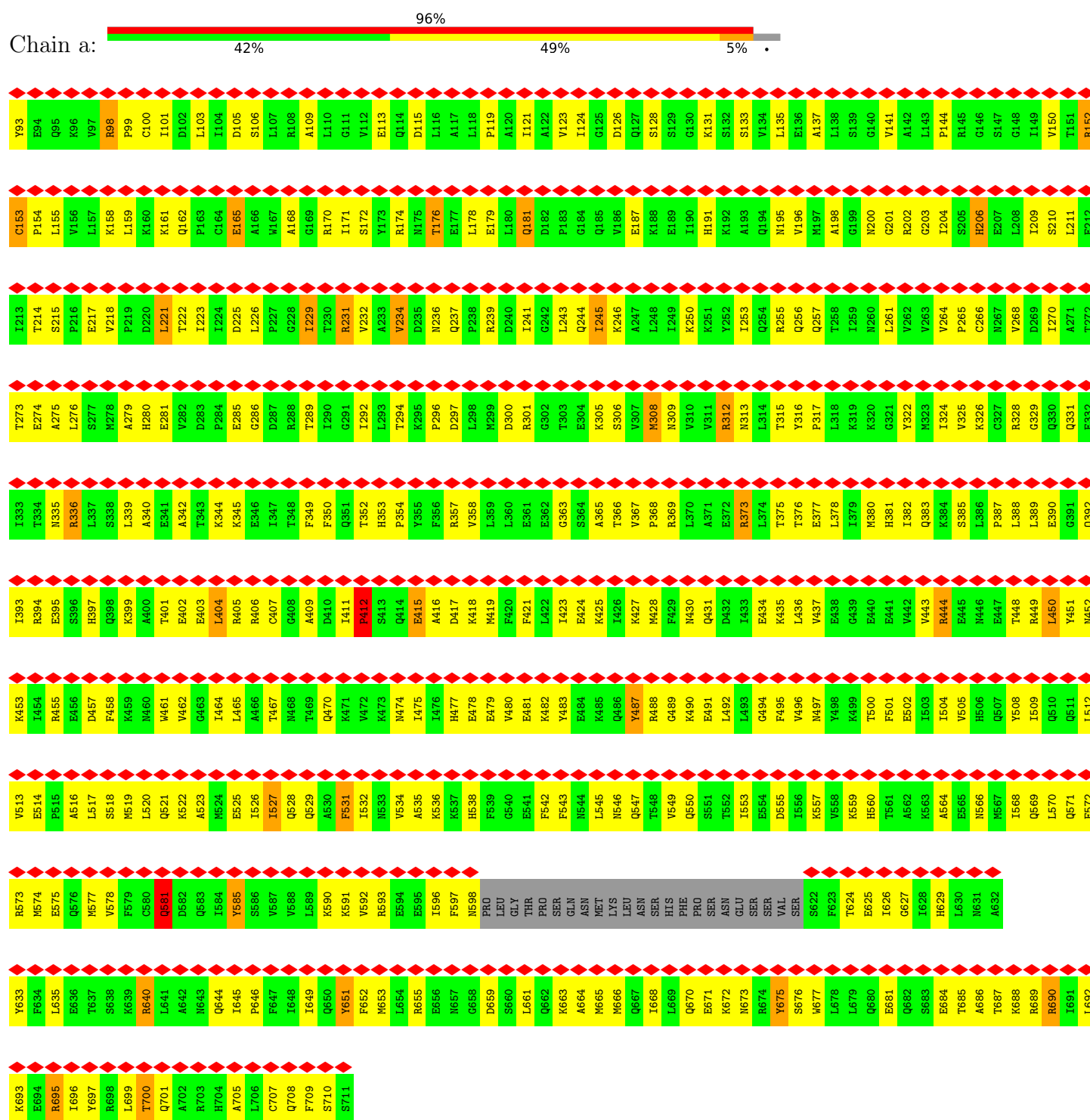




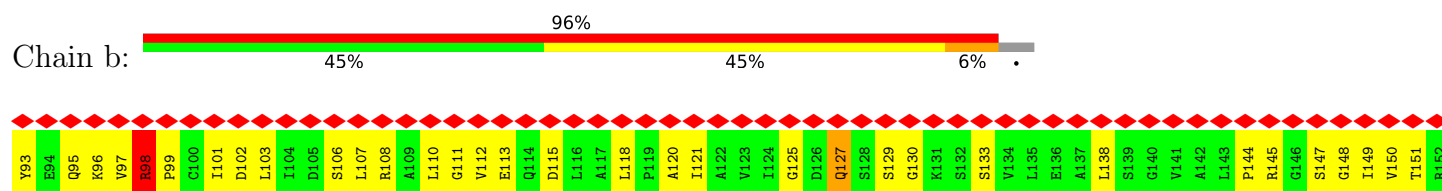
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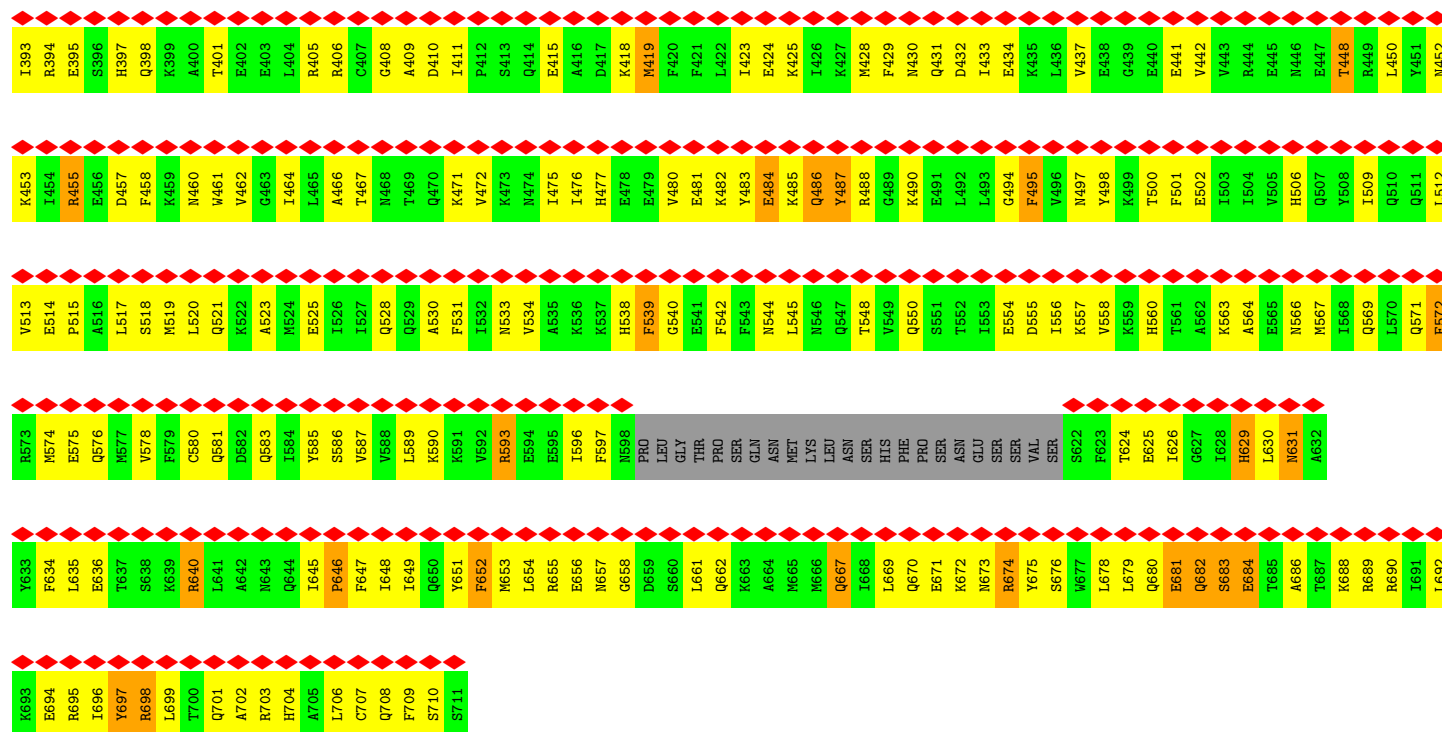
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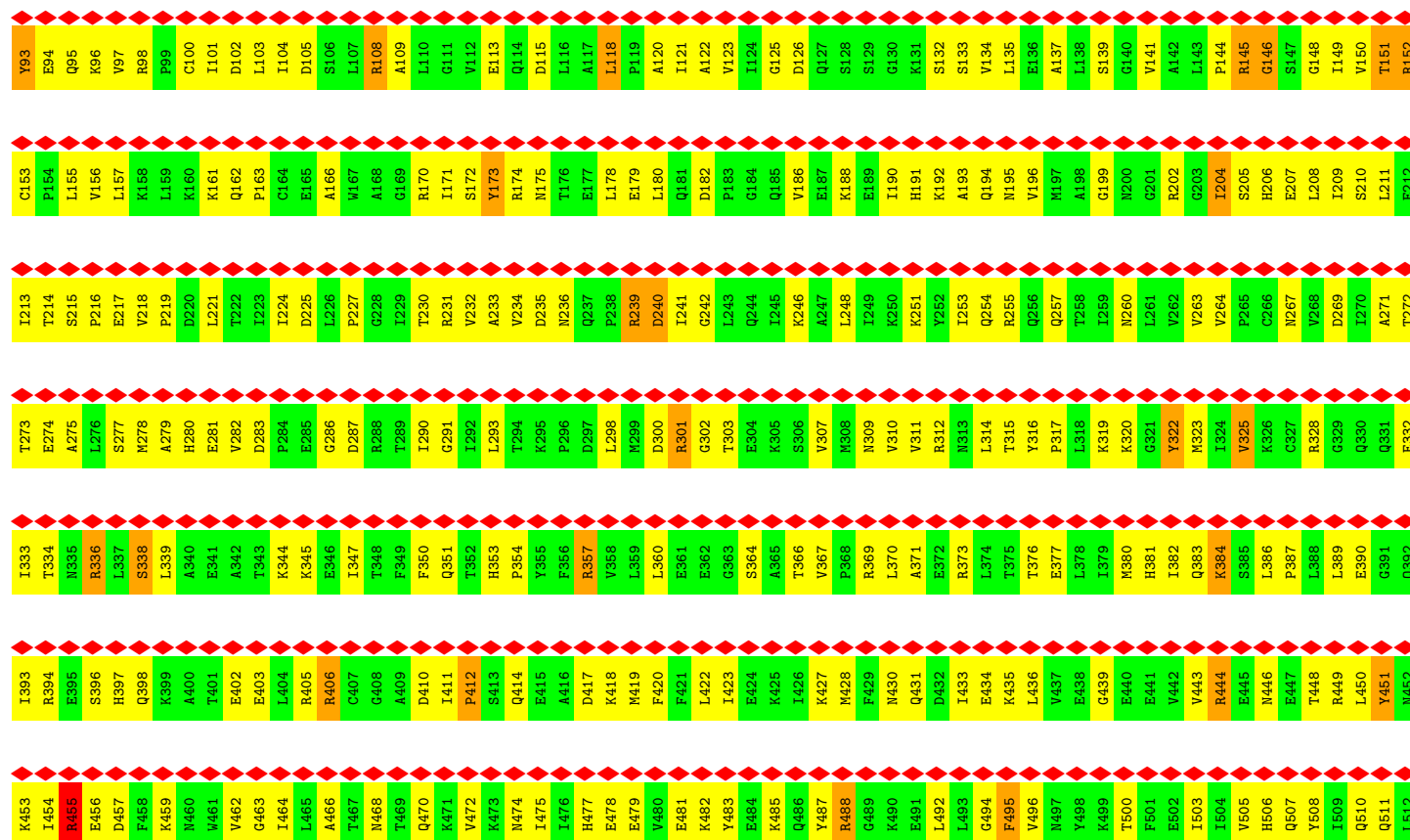
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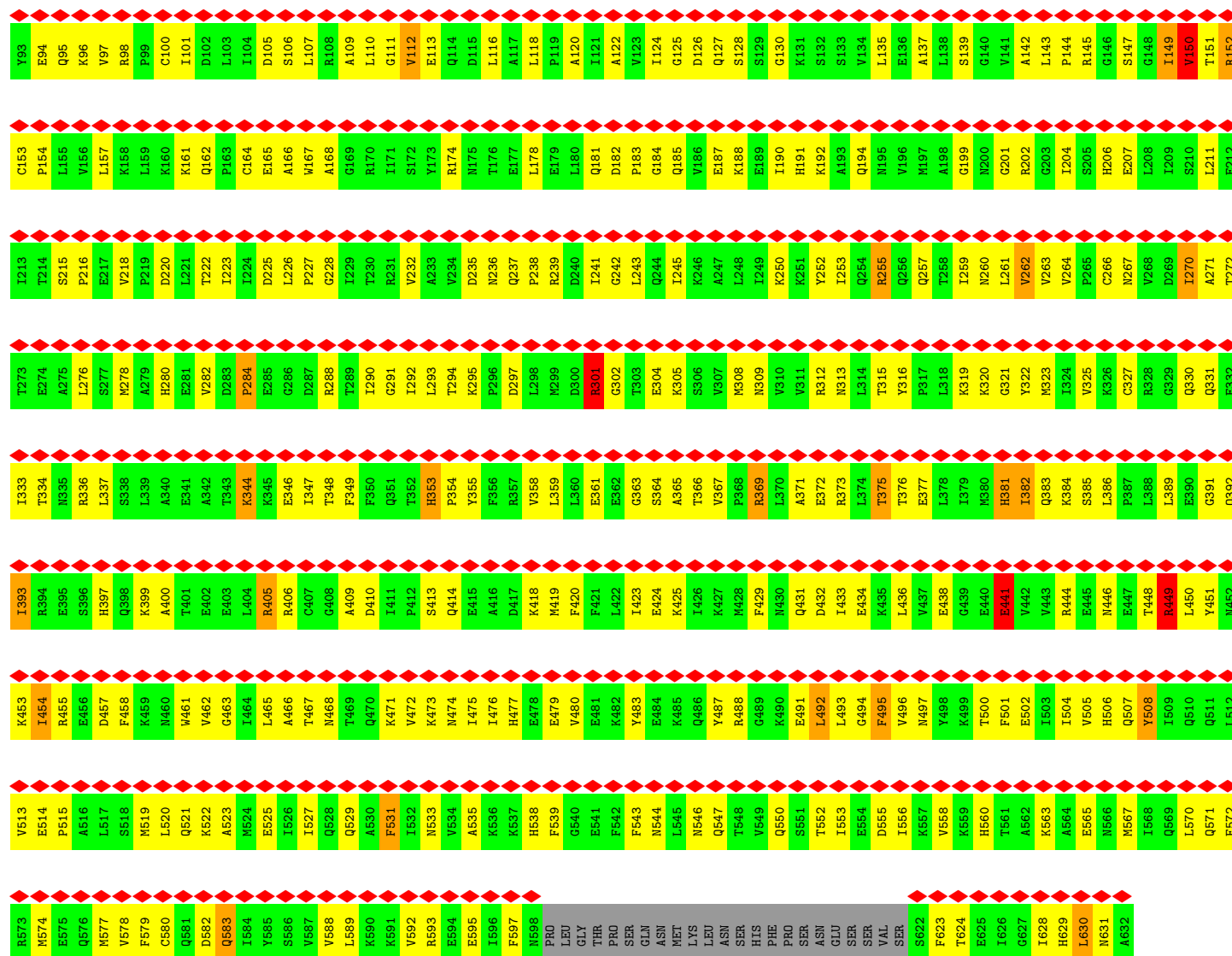


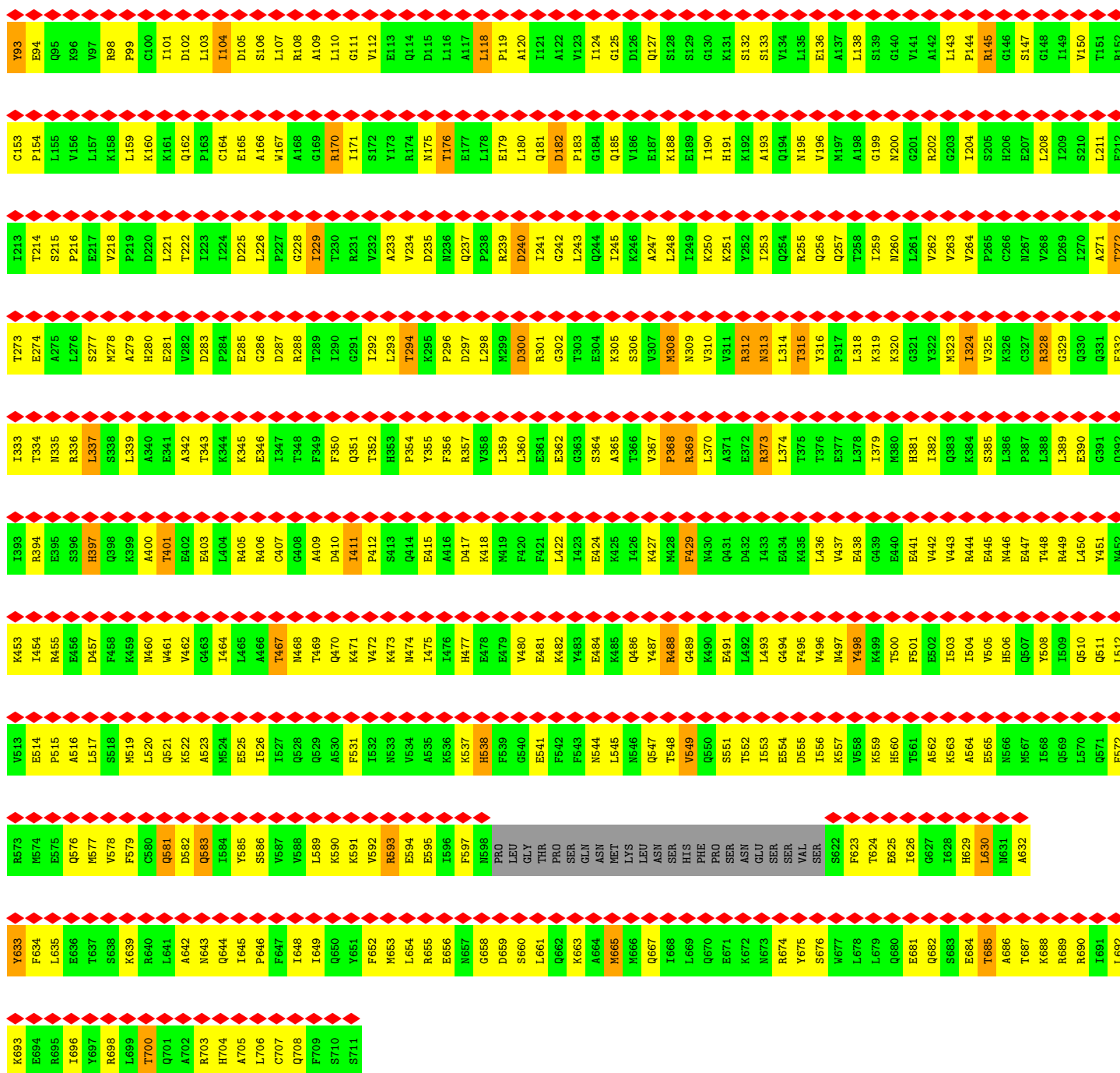
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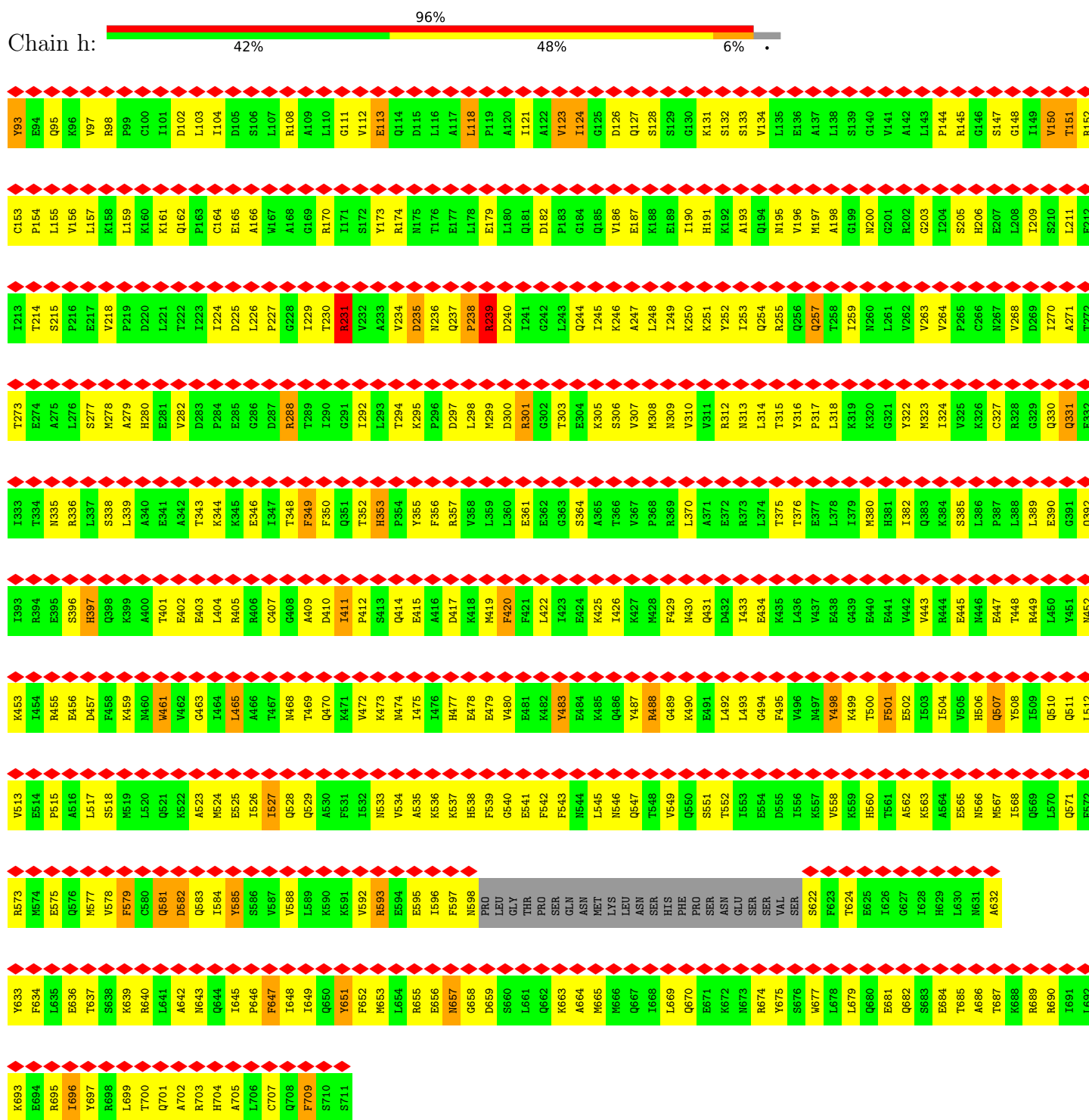


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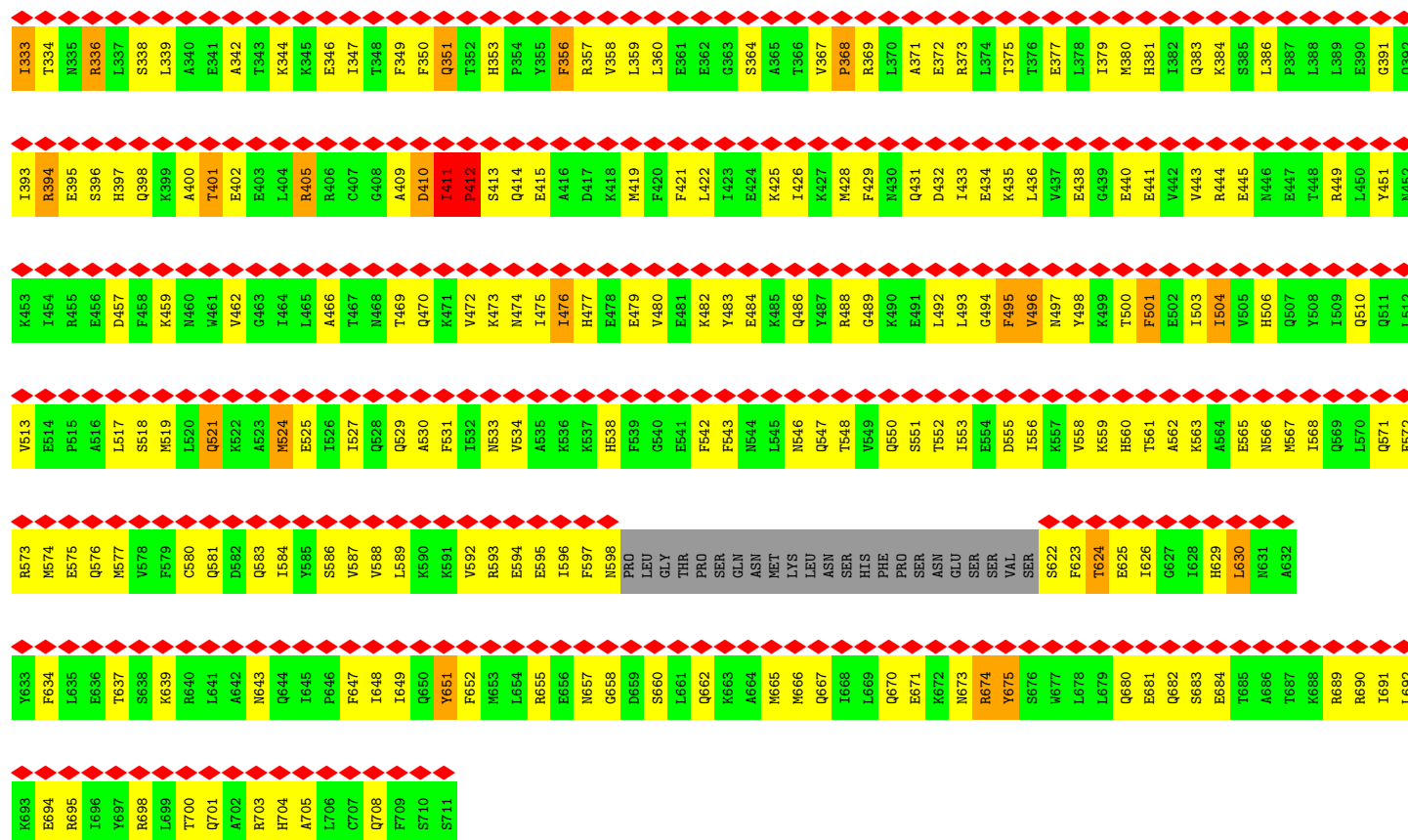


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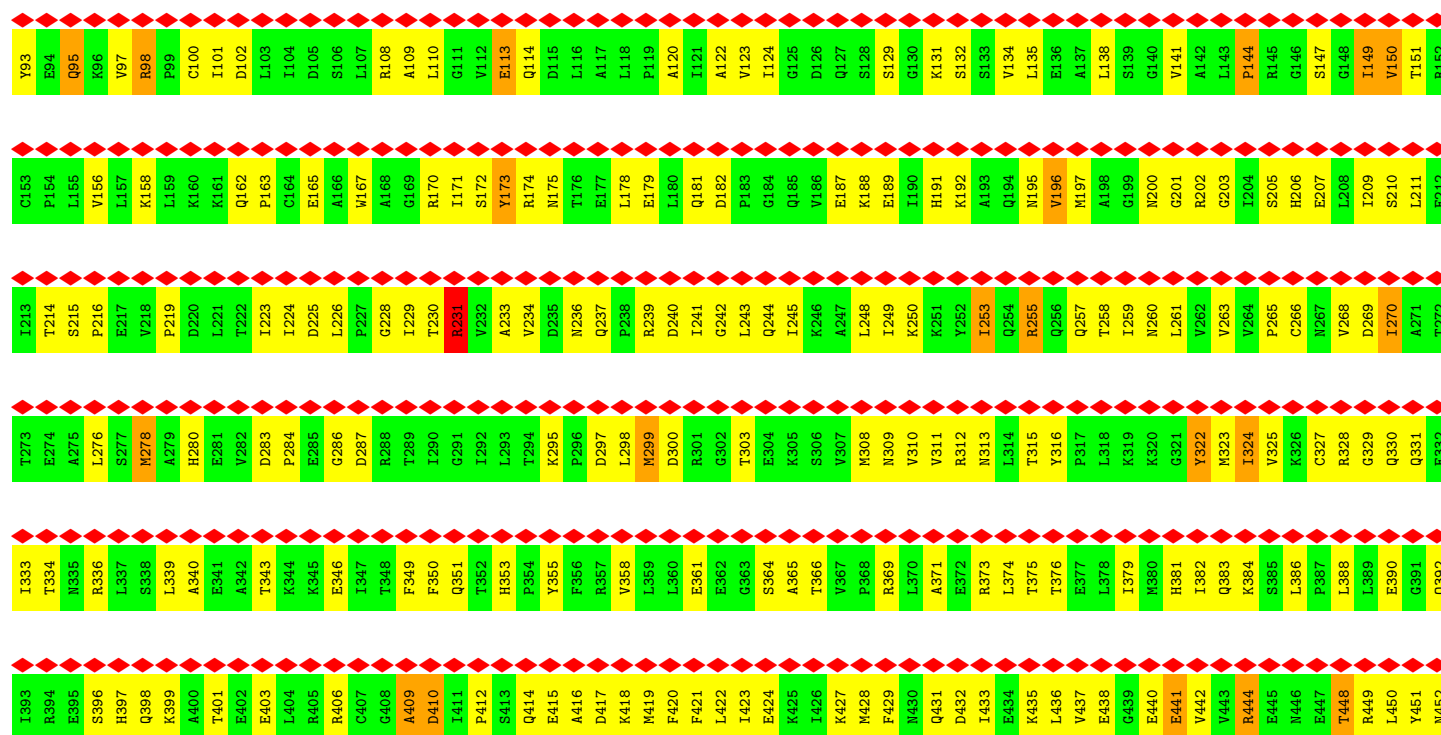


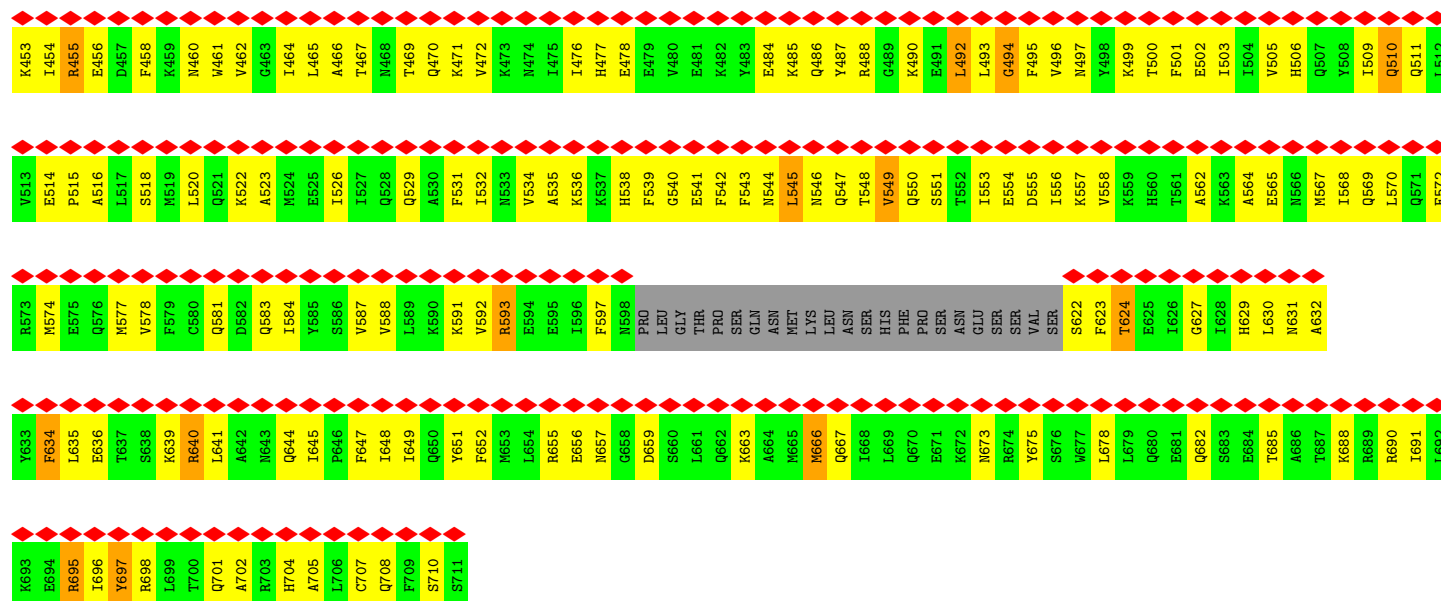
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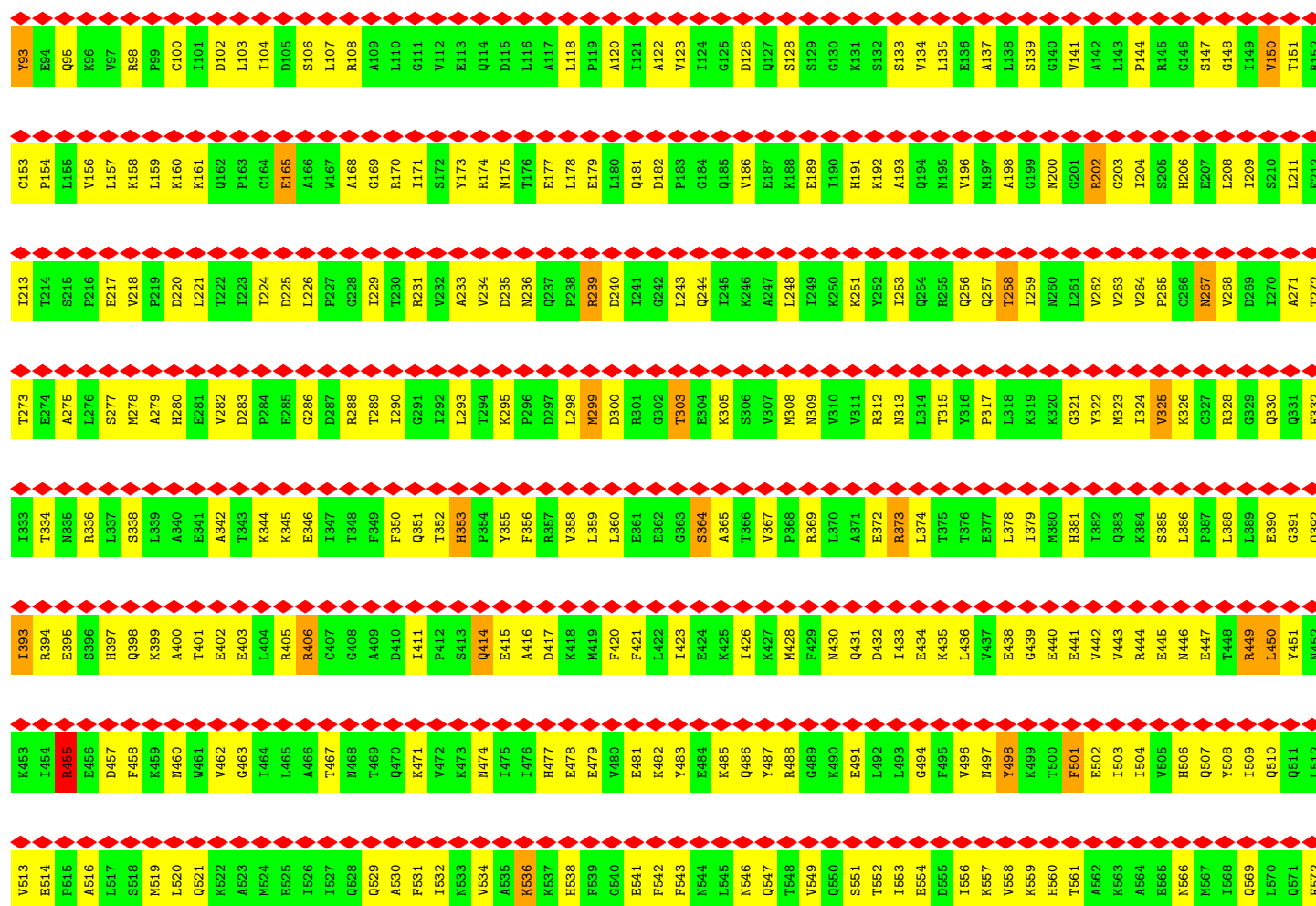


• Molecule 1: Interferon-induced GTP-binding protein Mx2



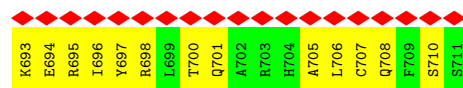


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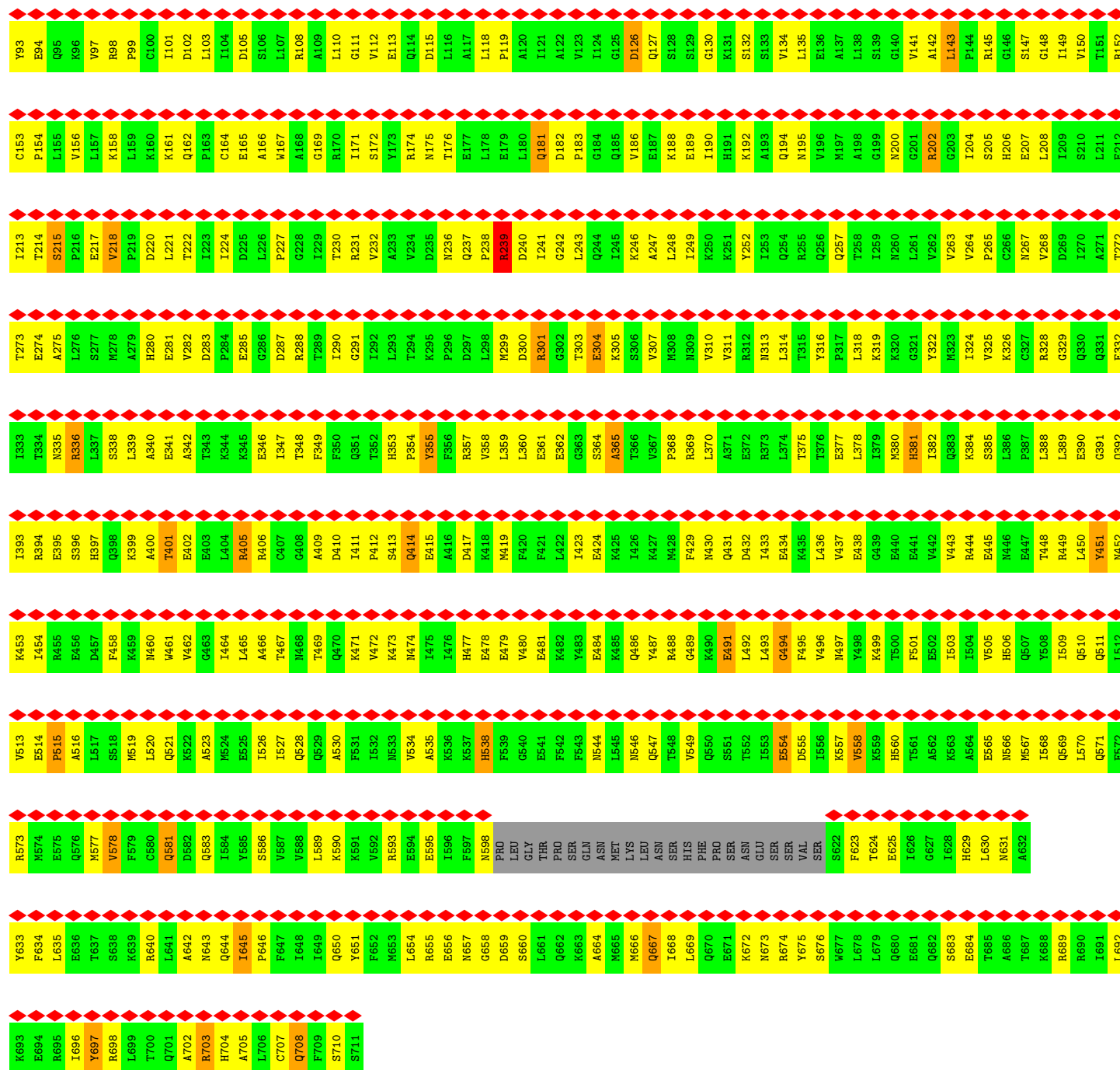
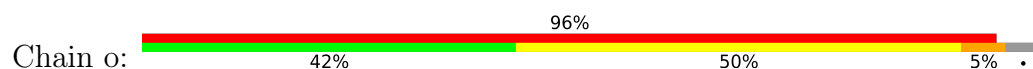




• Molecule 1: Interferon-induced GTP-binding protein Mx2

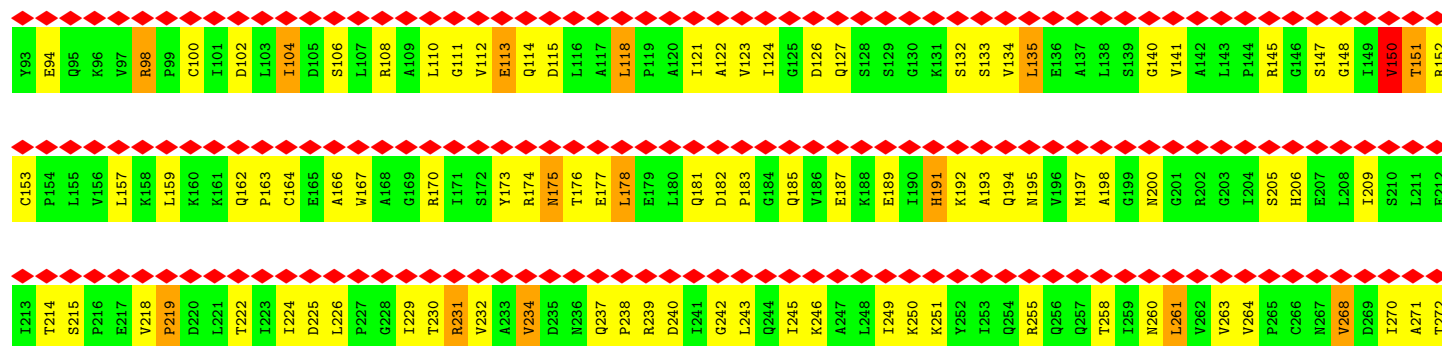


• Molecule 1: Interferon-induced GTP-binding protein Mx2



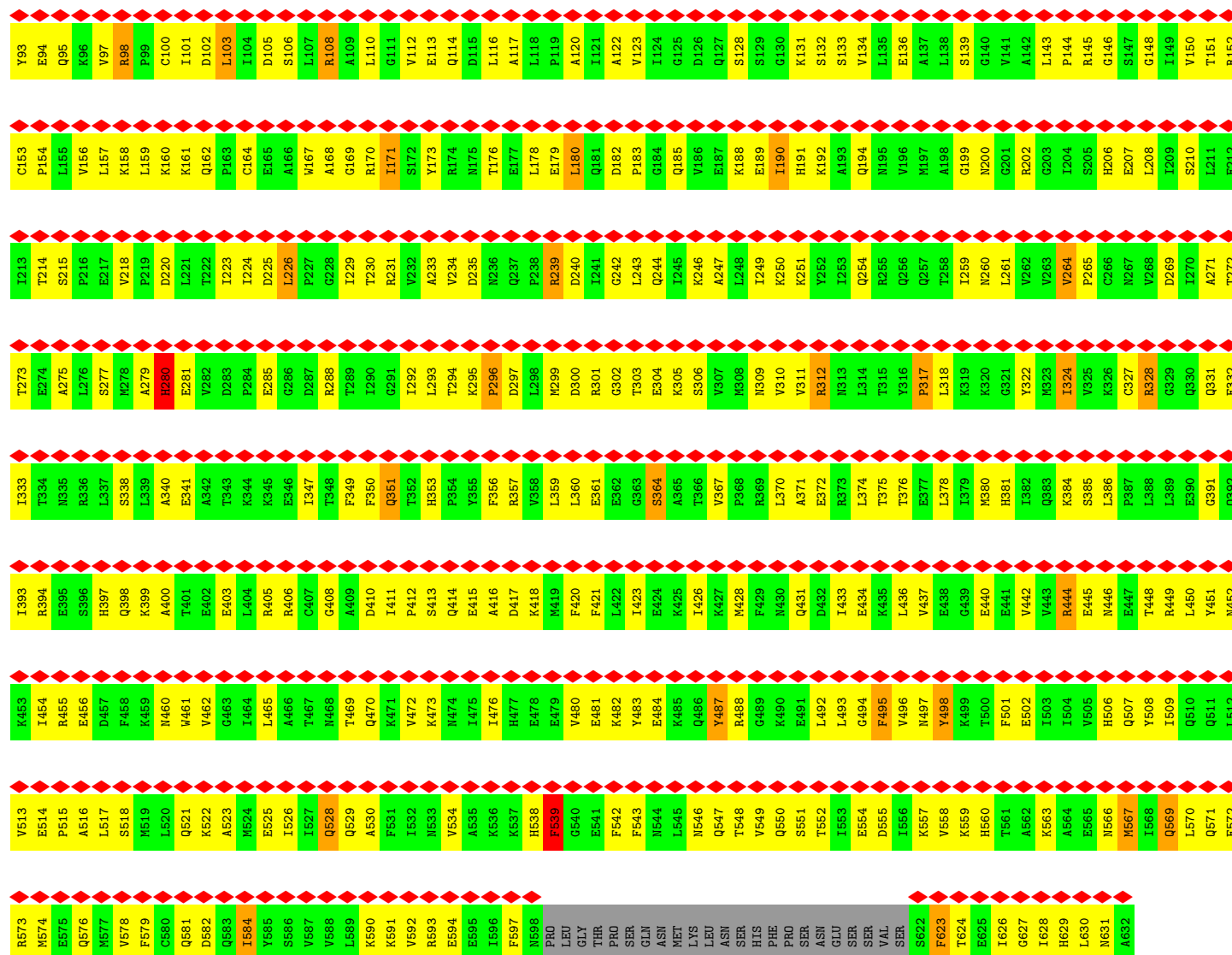
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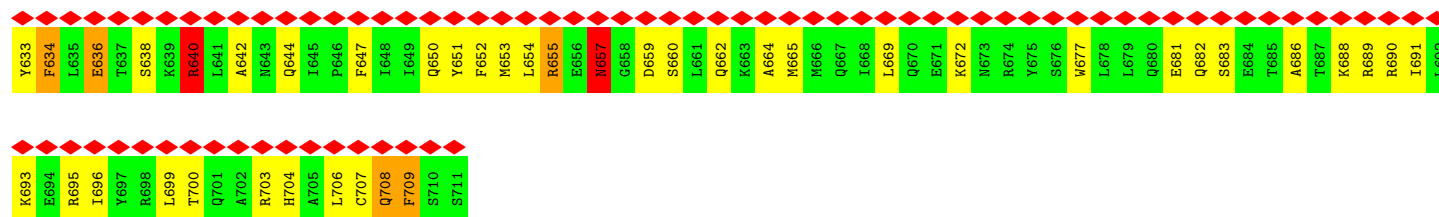




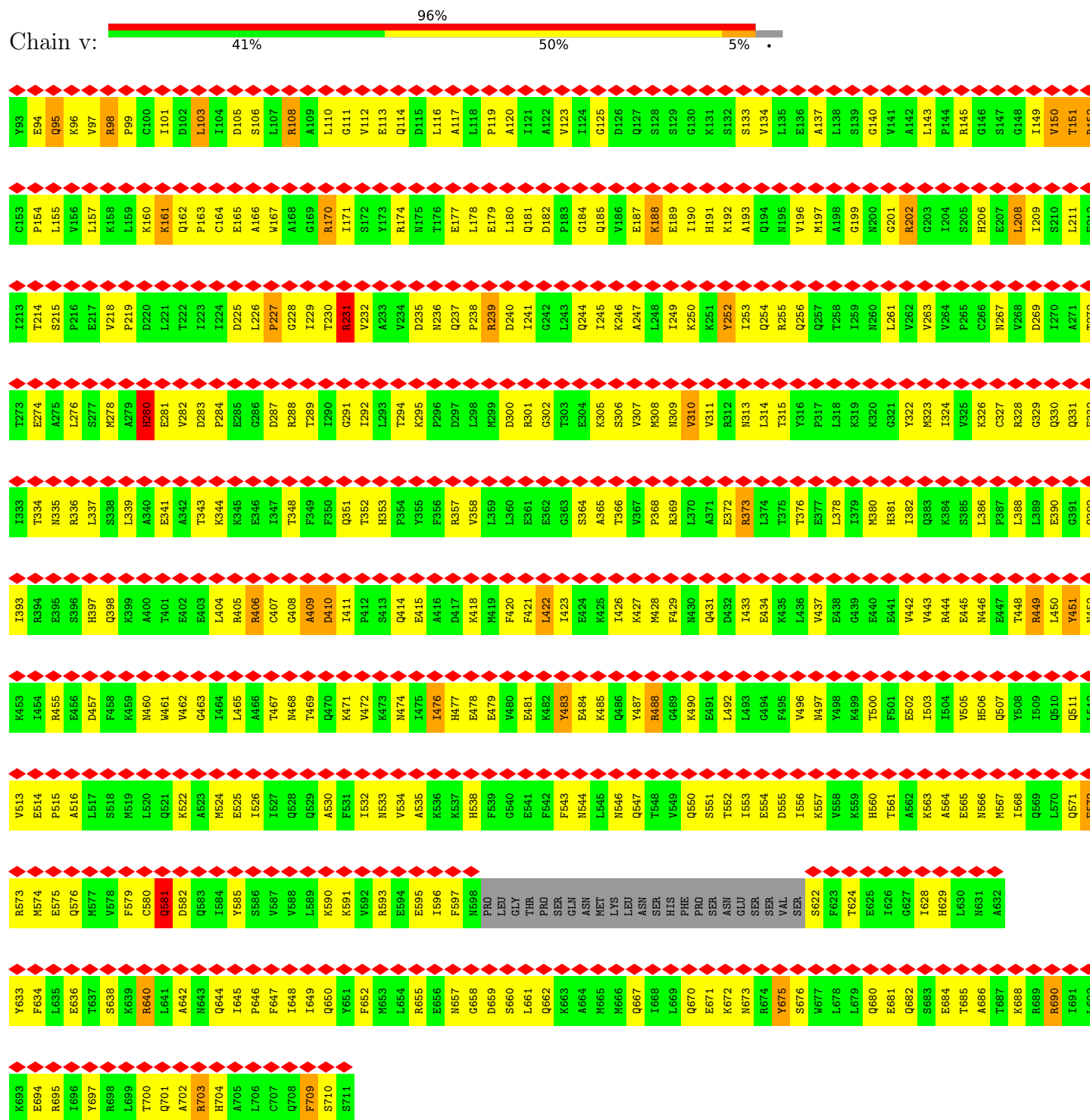


• Molecule 1: Interferon-induced GTP-binding protein Mx2

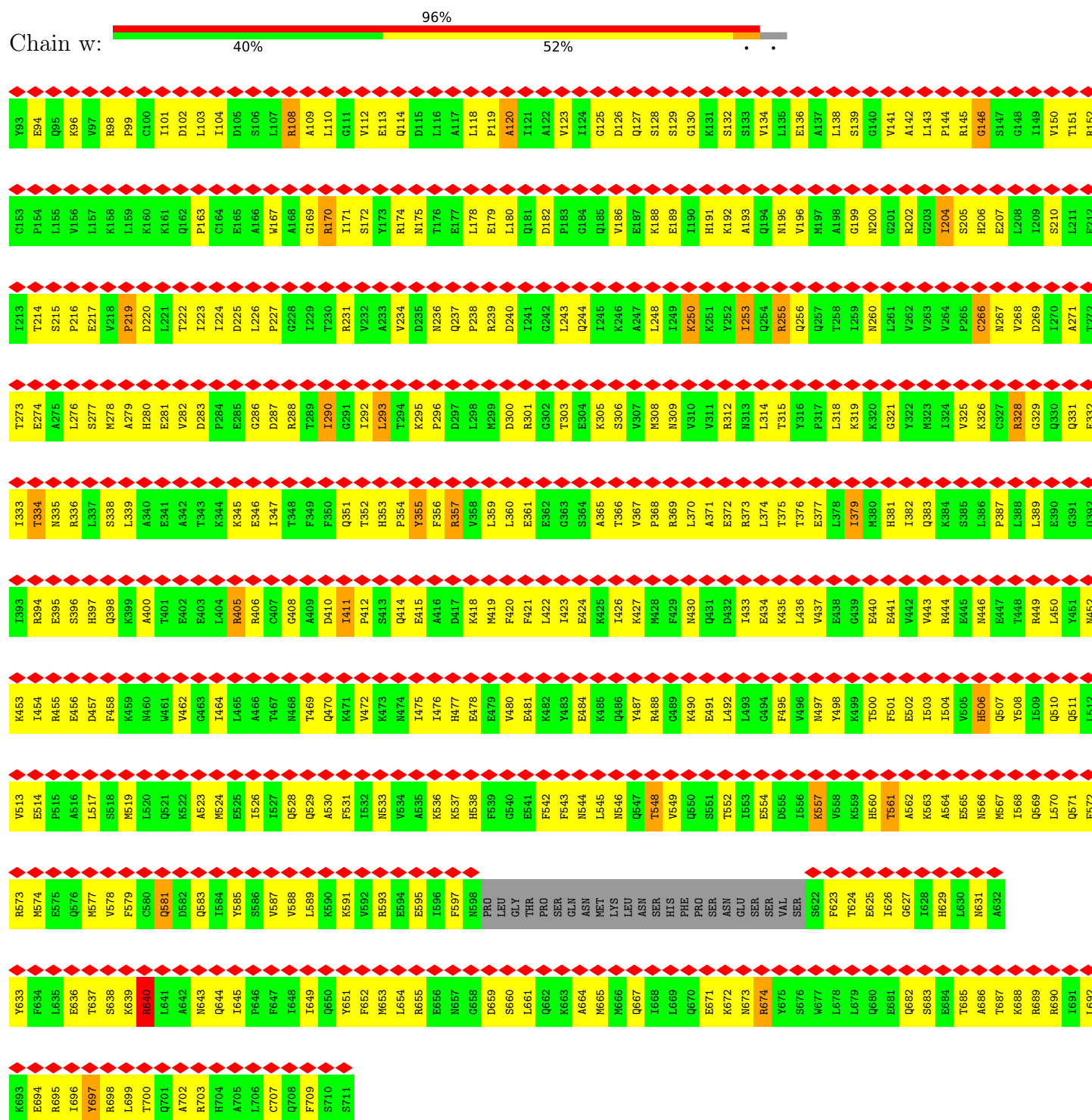




• Molecule 1: Interferon-induced GTP-binding protein Mx2

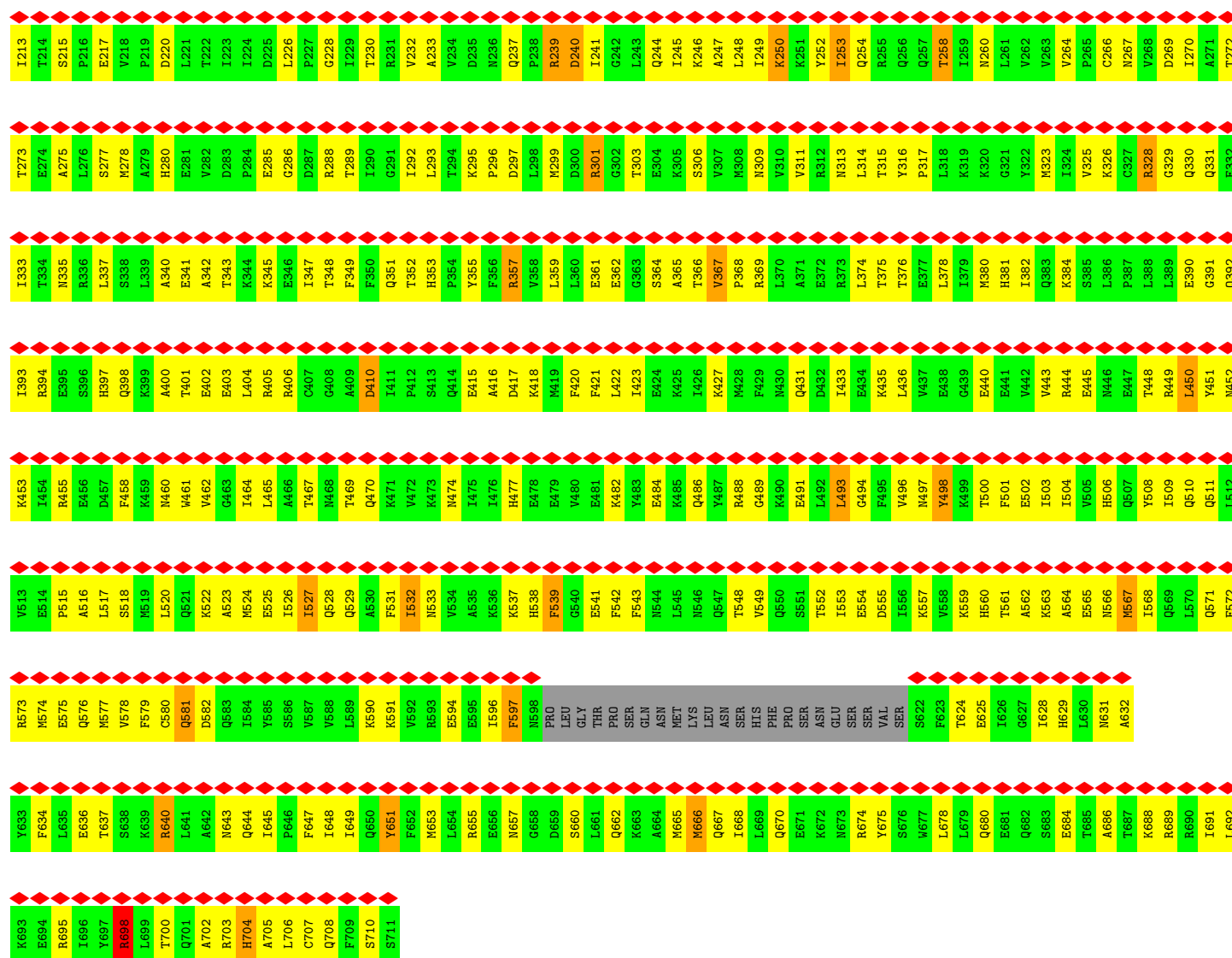


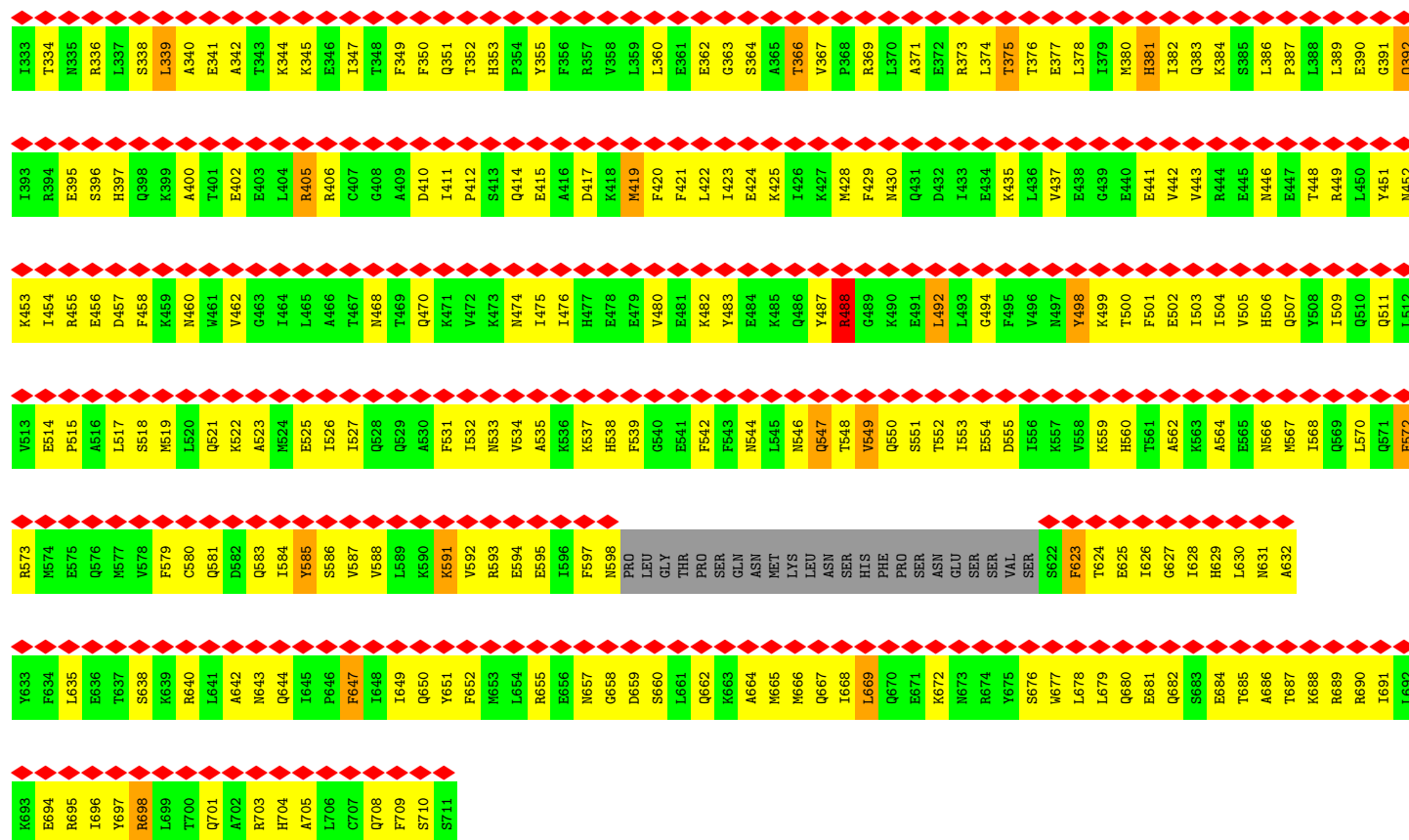
● Molecule 1: Interferon-induced GTP-binding protein Mx2



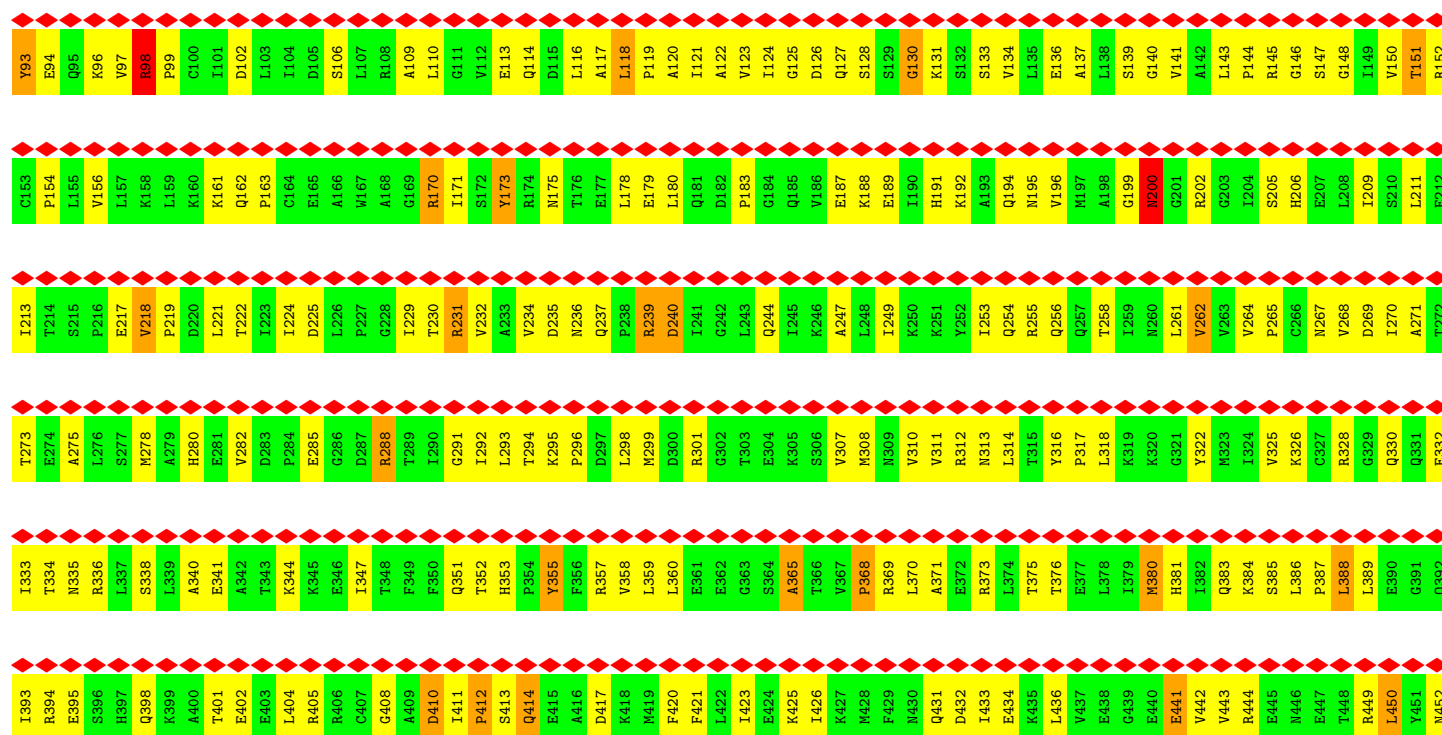
● Molecule 1: Interferon-induced GTP-binding protein Mx2

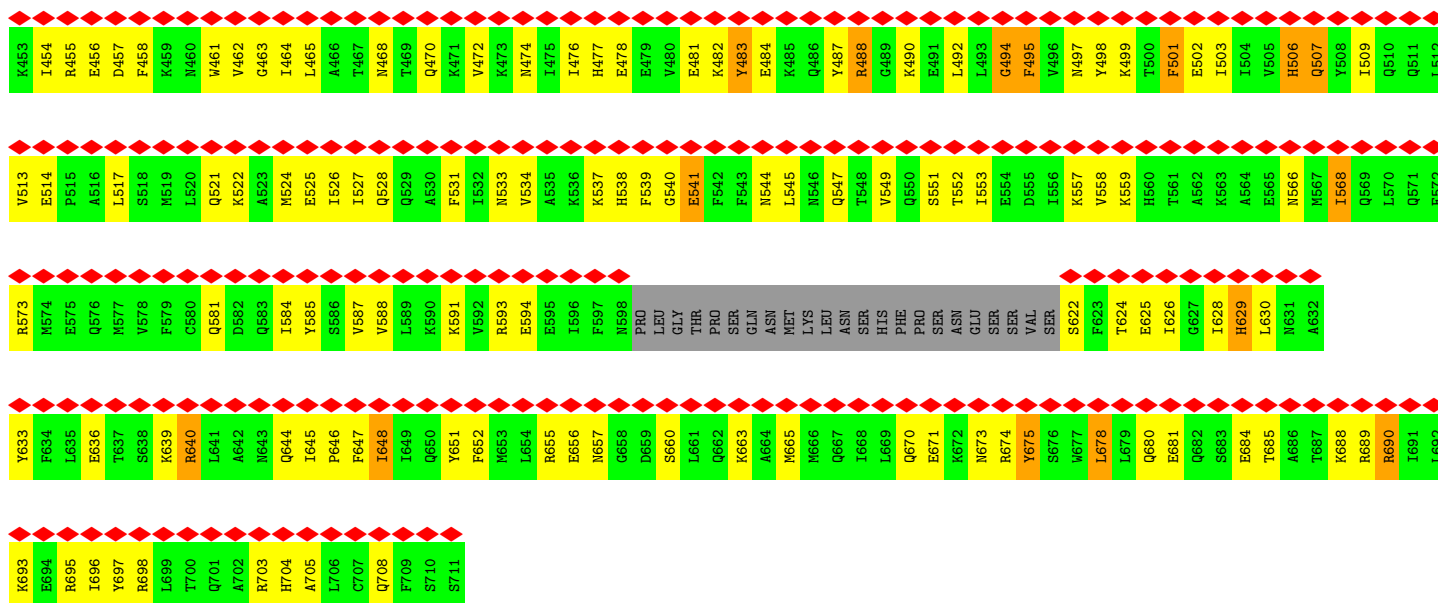


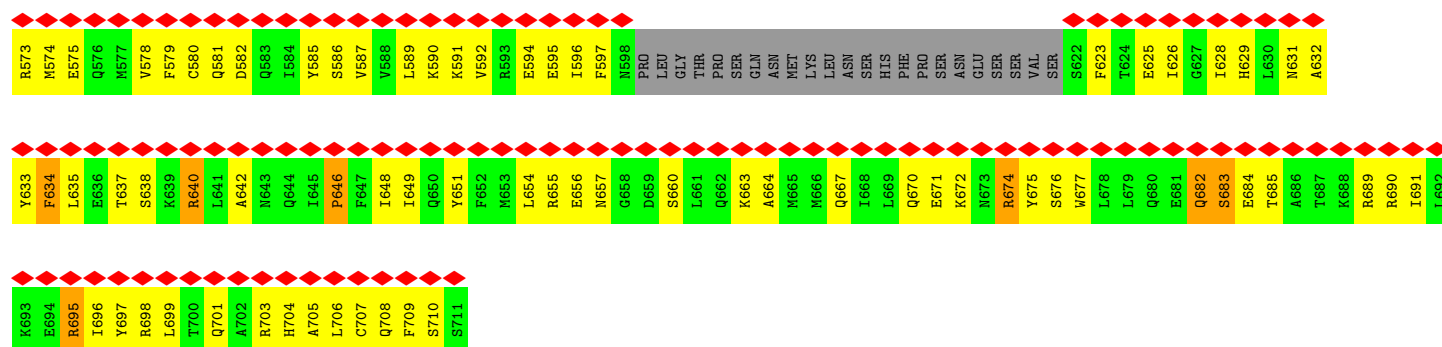




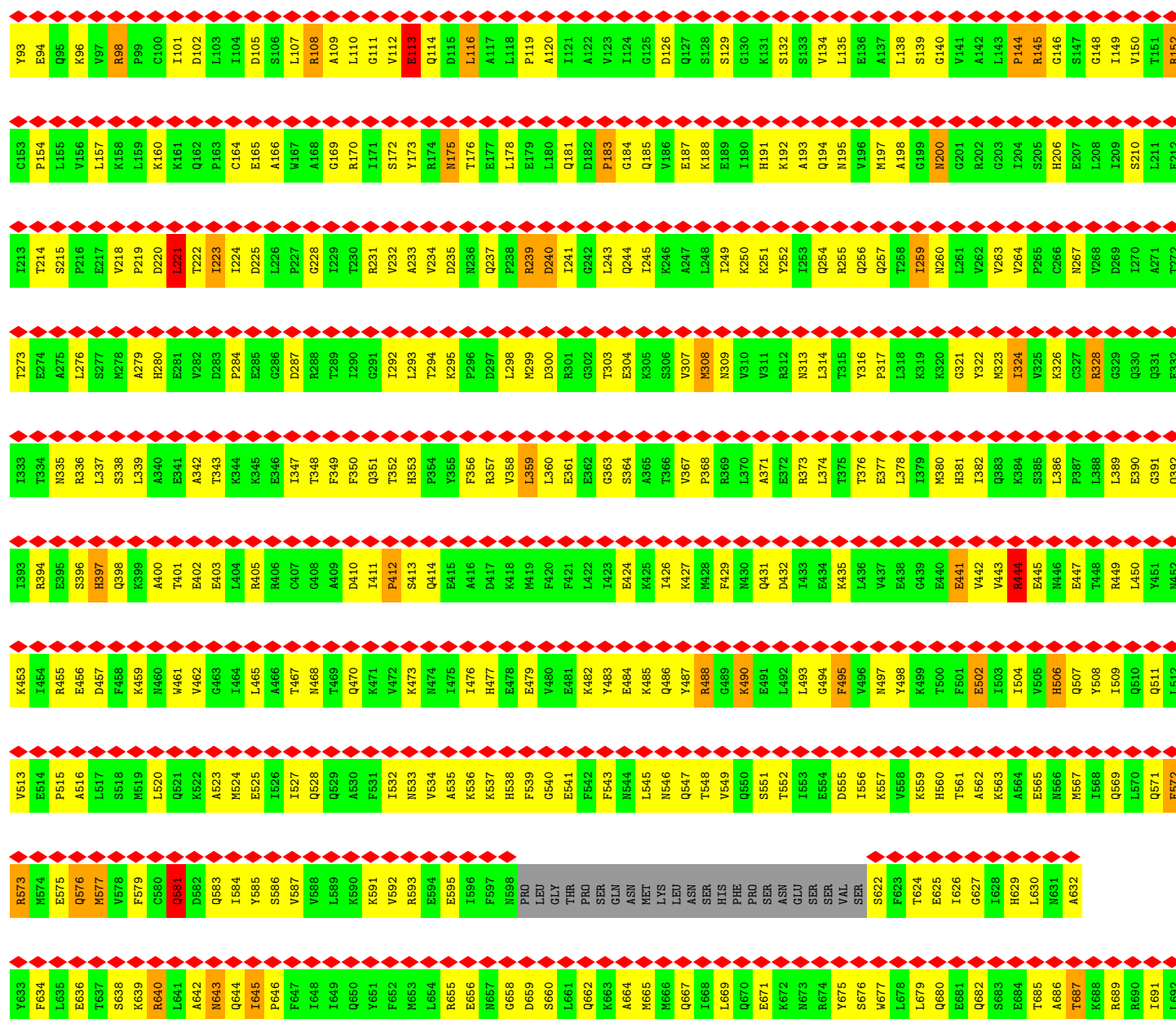
• Molecule 1: Interferon-induced GTP-binding protein Mx2

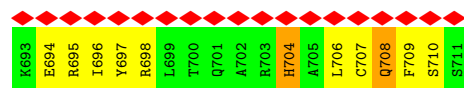




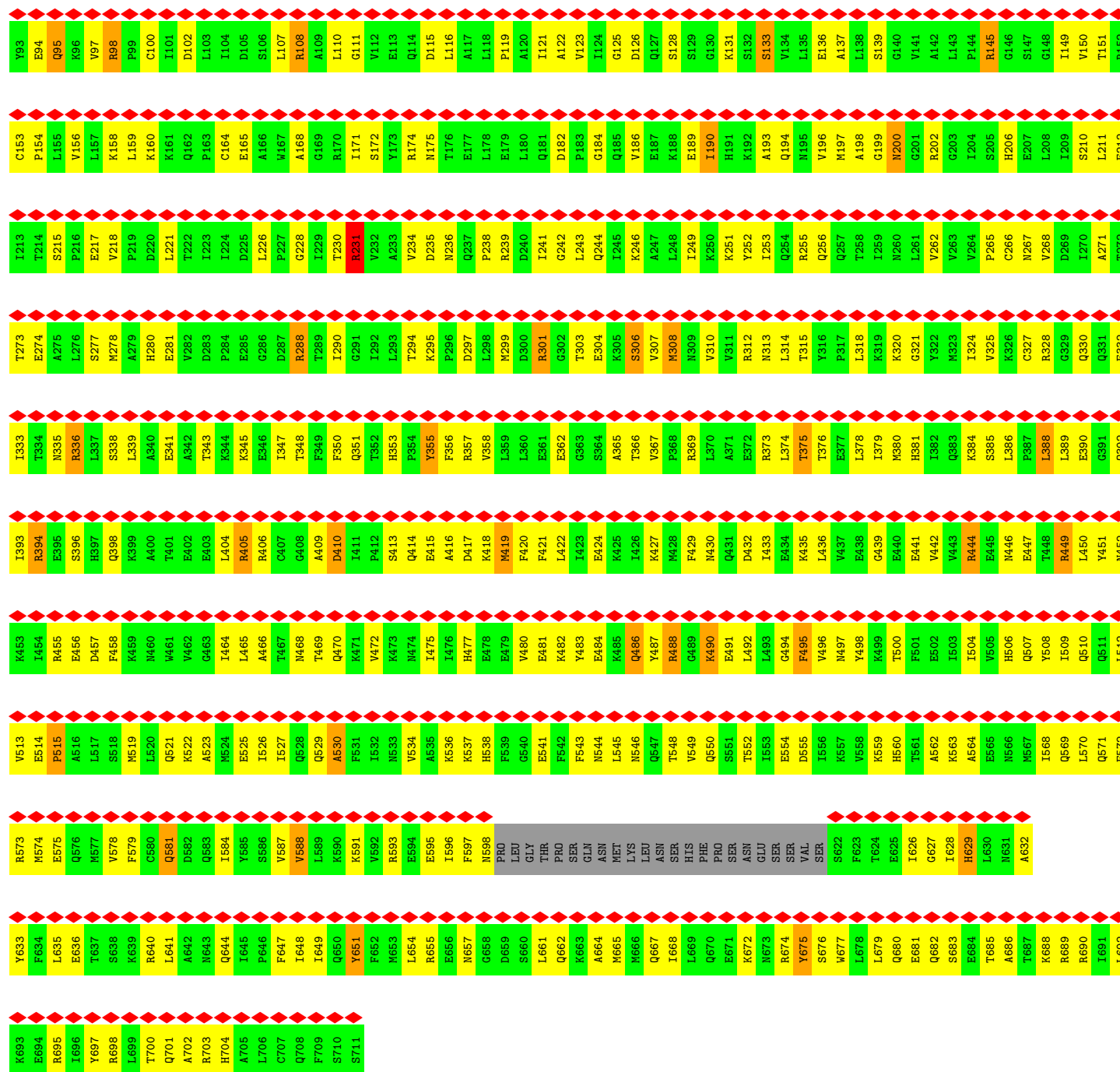


• Molecule 1: Interferon-induced GTP-binding protein Mx2

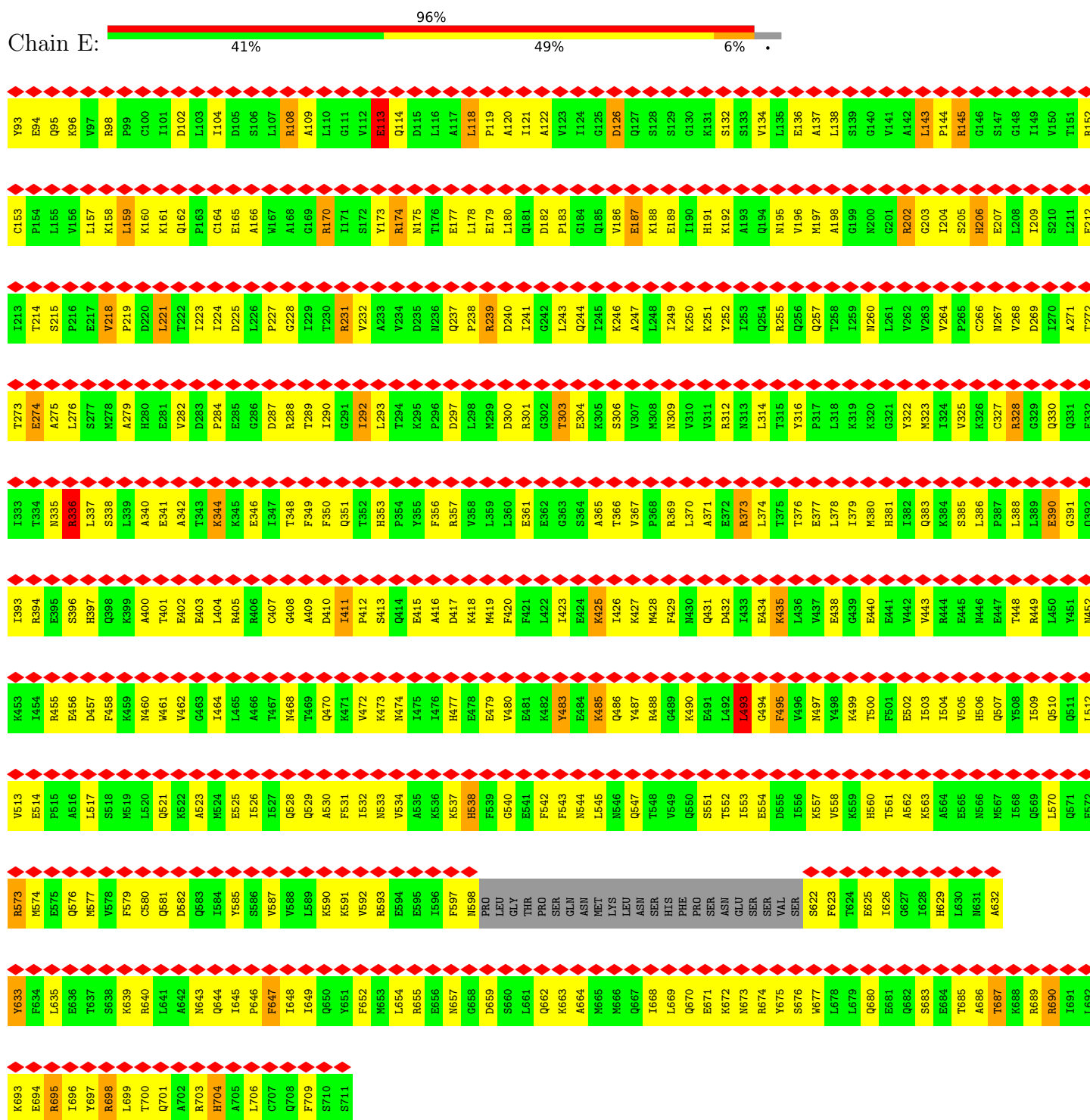




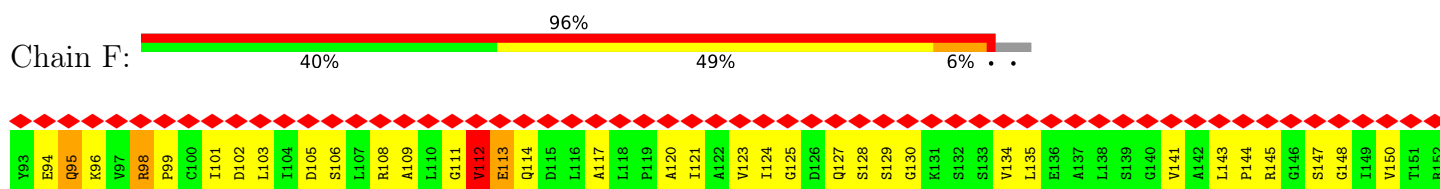
• Molecule 1: Interferon-induced GTP-binding protein Mx2



• Molecule 1: Interferon-induced GTP-binding protein Mx2



• Molecule 1: Interferon-induced GTP-binding protein Mx2



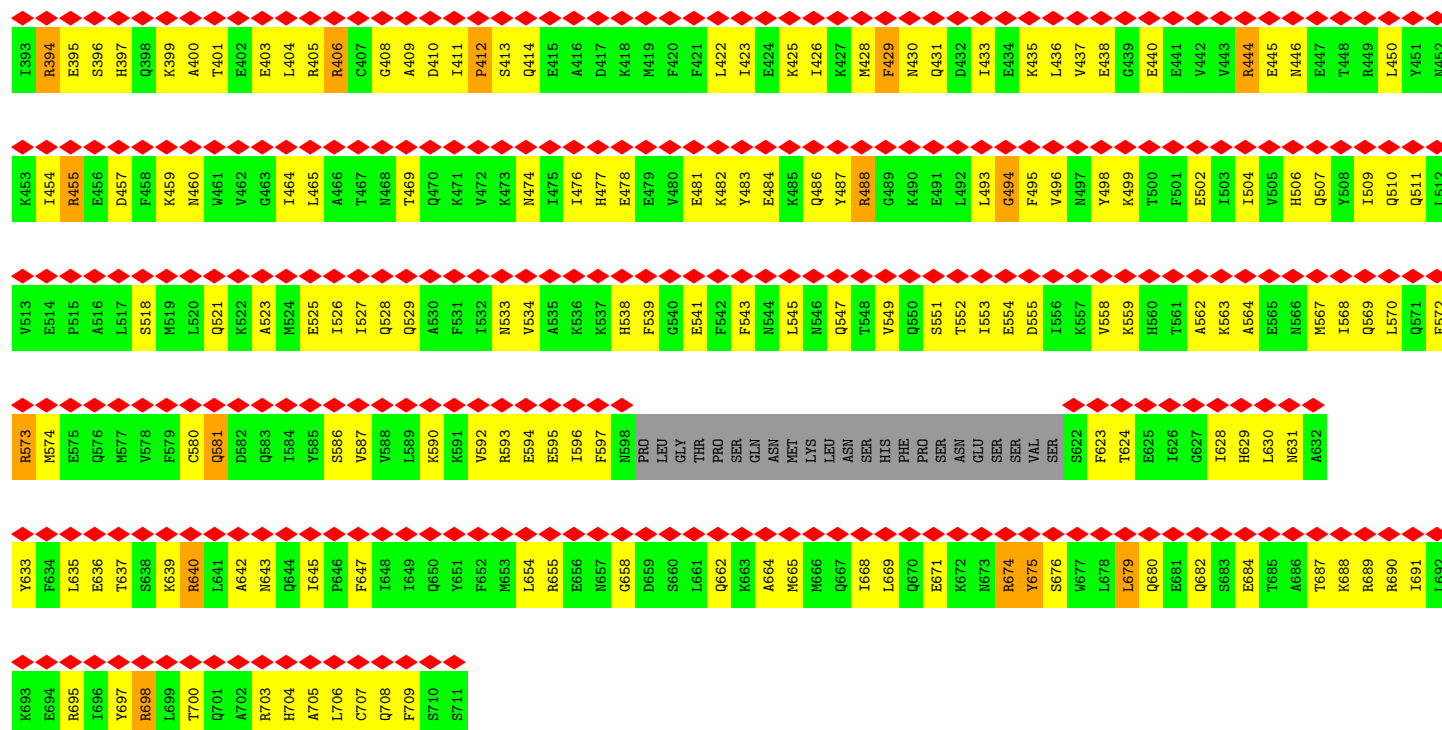


K693	E694	R695	I696	Y697	R698	L699	T700	Q701	A702	R703	H704	A705	L706	C707	Q708	F709	S710	S711																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												</

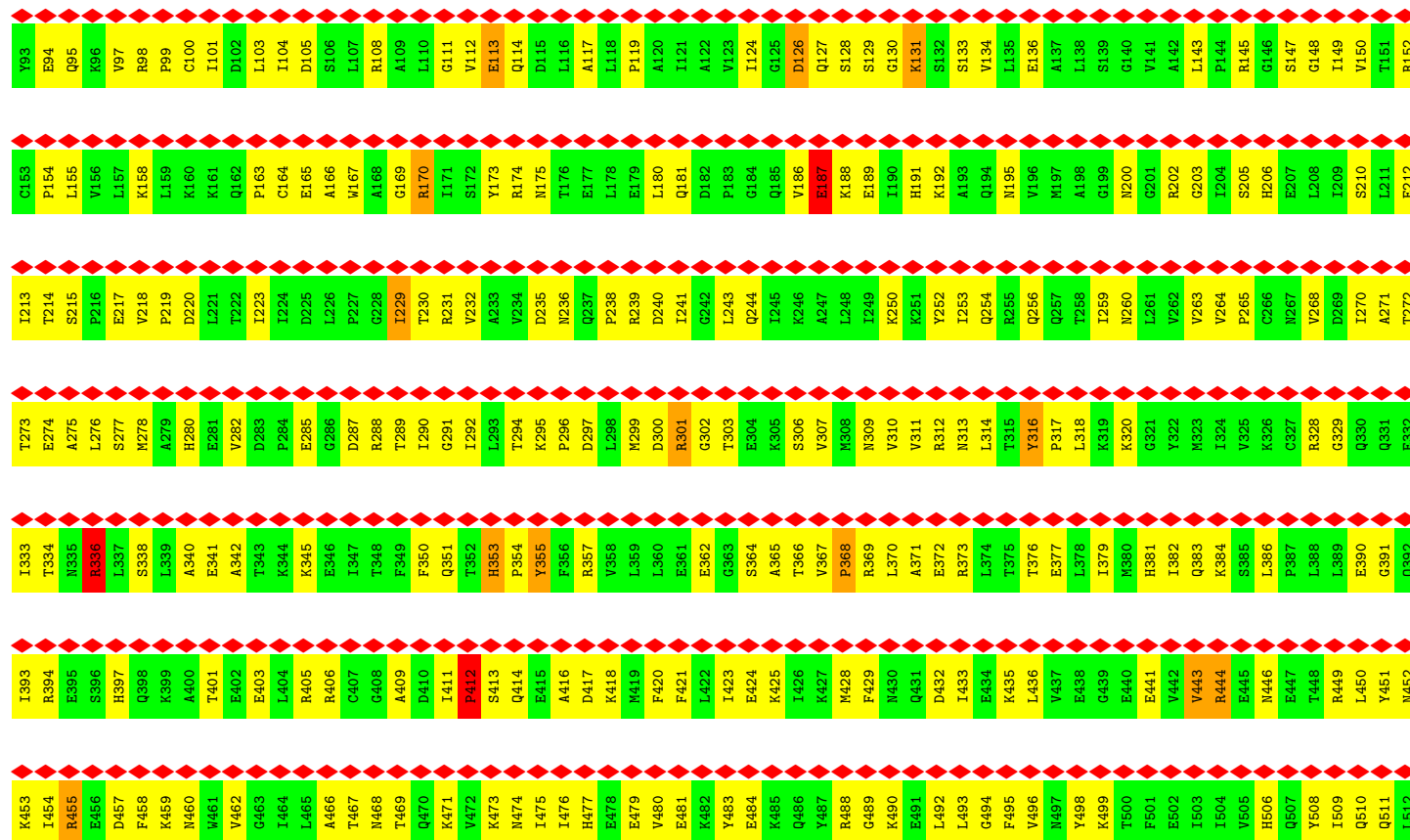
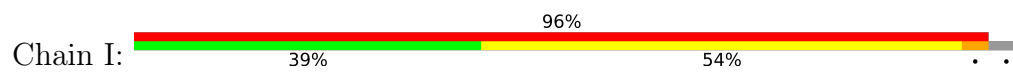
• Molecule 1: Interferon-induced GTP-binding protein Mx2



Y93	E94	Q95	K96	V97	R98	P99	C100	I101	D102	L103	I104	D105	S106	L107	R108	A109	L110	G111	V112	E113	Q114	D115	L116	A117	L118	P119	A120	I121	A122	V123	I124	G125	D126	V127	S128	I129	G130	K131	S132	S133	V134	L135	E136	A137	L138	S139	G140	V141	R142	L143	P144	R145	G146	S147	G148	I149	V150	T151	R152
C153	P154	L155	V156	L157	K158	L159	K160	K161	Q162	P163	C164	E165	A166	V167	A168	G169	R170	I171	S172	Y173	R174	N175	T176	E177	L178	E179	L180	Q181	D182	P183	G184	Q185	D186	E187	K188	I189	I190	H191	K192	A193	Q194	N195	V196	M197	A198	G199	N200	G201	R202	G203	I204	S205	C206	E207	L208	I209	D210	L211	E212
I213	T214	S215	P216	E217	V218	P219	D220	L221	T222	I223	I224	D225	L226	P227	G228	T229	L230	R231	V232	A233	V234	D235	N236	Q237	P238	R239	D240	I241	G242	L243	Q244	I245	K246	A247	L248	I249	K250	K251	Y252	T253	Q254	R255	Q256	Q257	L258	I259	N260	L261	V262	V263	V264	P265	K266	N267	V268	D269	S270	A271	T272
T273	E274	A275	L276	S277	M278	A279	H280	E281	V282	D283	P284	E285	G286	D287	R288	T289	I290	G291	I292	L293	T294	K295	P296	D297	L298	M299	D300	R301	G302	T303	E304	K305	S306	V307	M308	N309	V310	V311	R312	N313	L314	T315	Y316	P317	L318	K319	K320	G321	Y322	M323	I324	V325	K326	C327	R328	G329	Q330	Q331	E332
I333	T334	N335	R336	L337	S338	L339	A340	E341	A342	T343	K344	E345	E346	I347	T348	F349	F350	Q351	T352	H353	P354	Y355	F356	R357	R358	L359	L360	E361	G362	G363	S364	A365	S366	V367	P368	R369	L370	A371	E372	R373	L374	T375	T376	E377	L378	I379	M380	H381	L382	Q383	K384	S385	L386	P387	L388	L389	Q390	G391	Q392

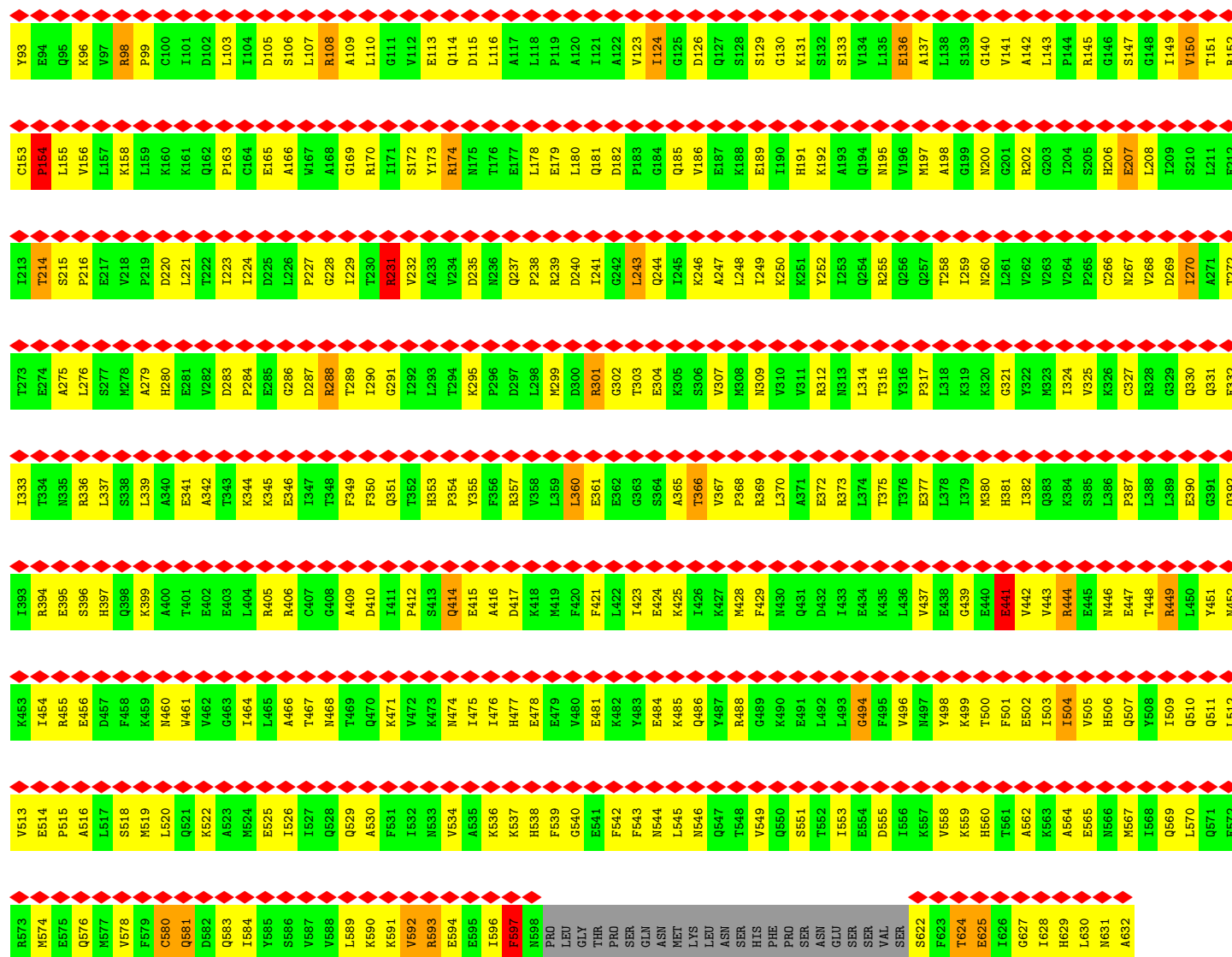
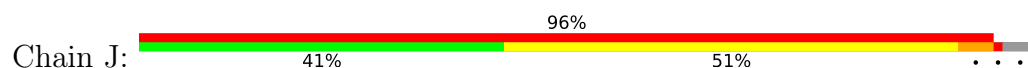


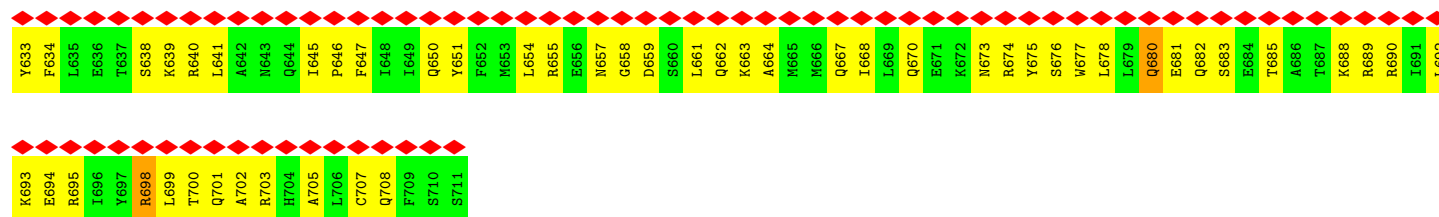
• Molecule 1: Interferon-induced GTP-binding protein Mx2



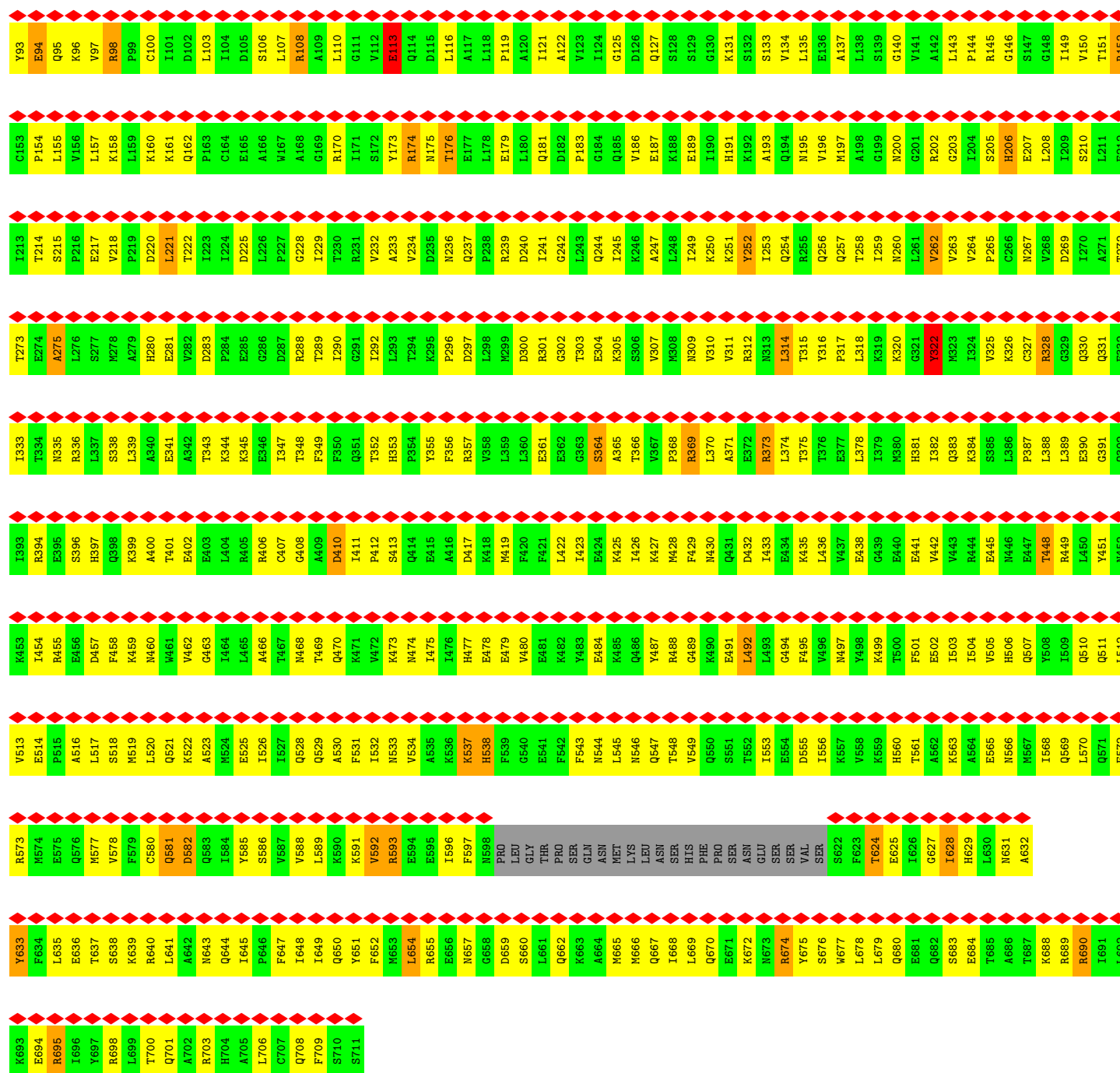


• Molecule 1: Interferon-induced GTP-binding protein Mx2

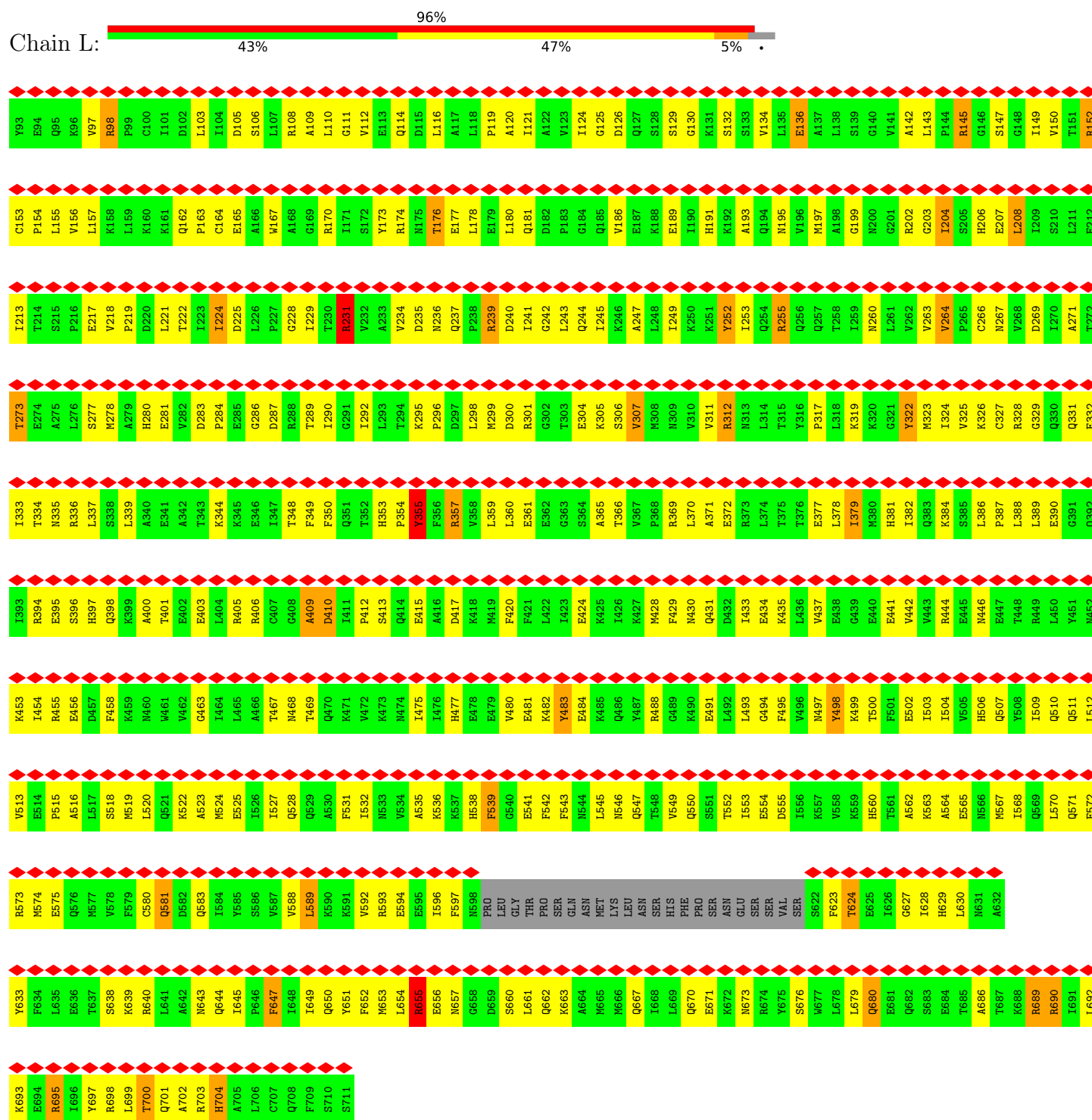




• Molecule 1: Interferon-induced GTP-binding protein Mx2



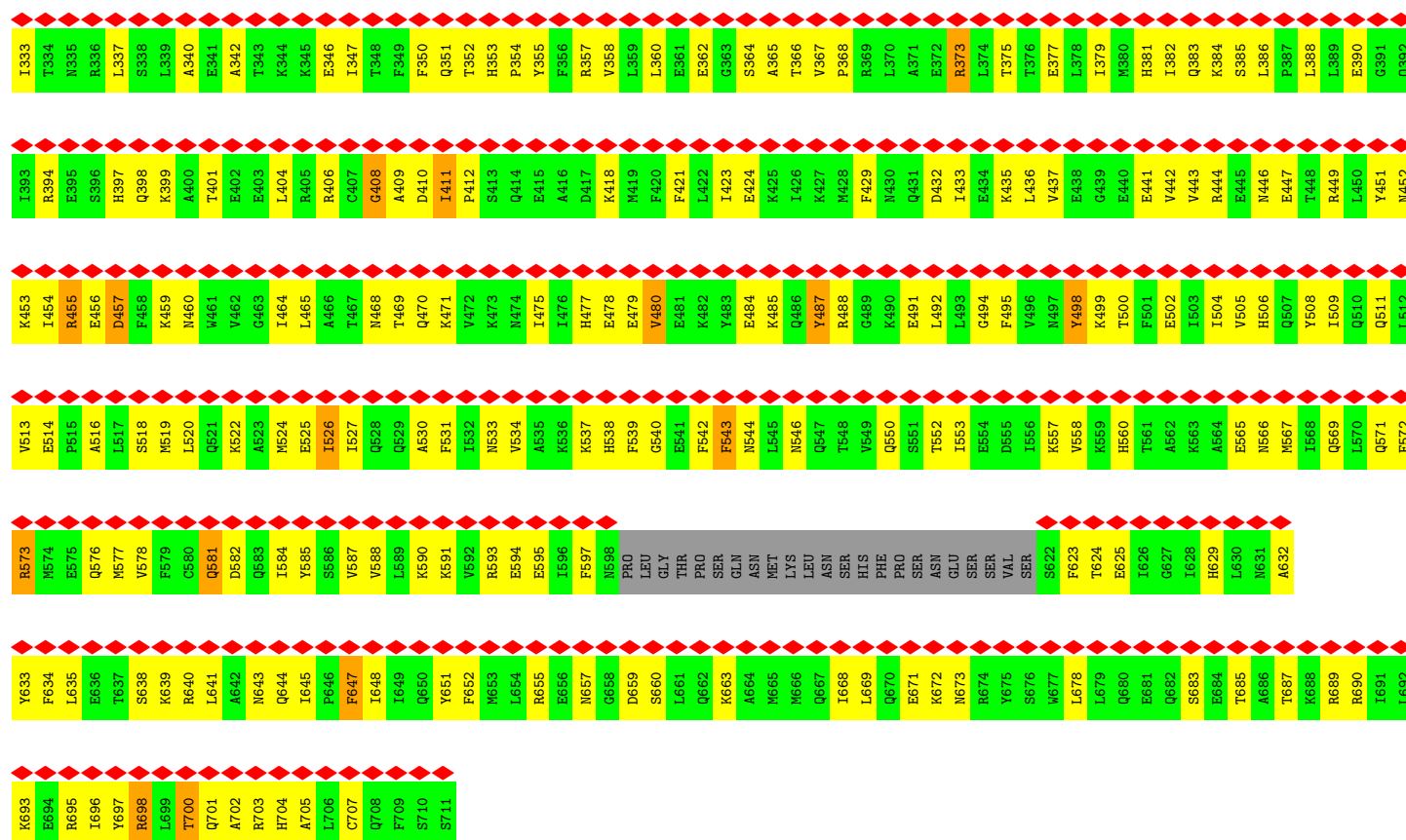
• Molecule 1: Interferon-induced GTP-binding protein Mx2



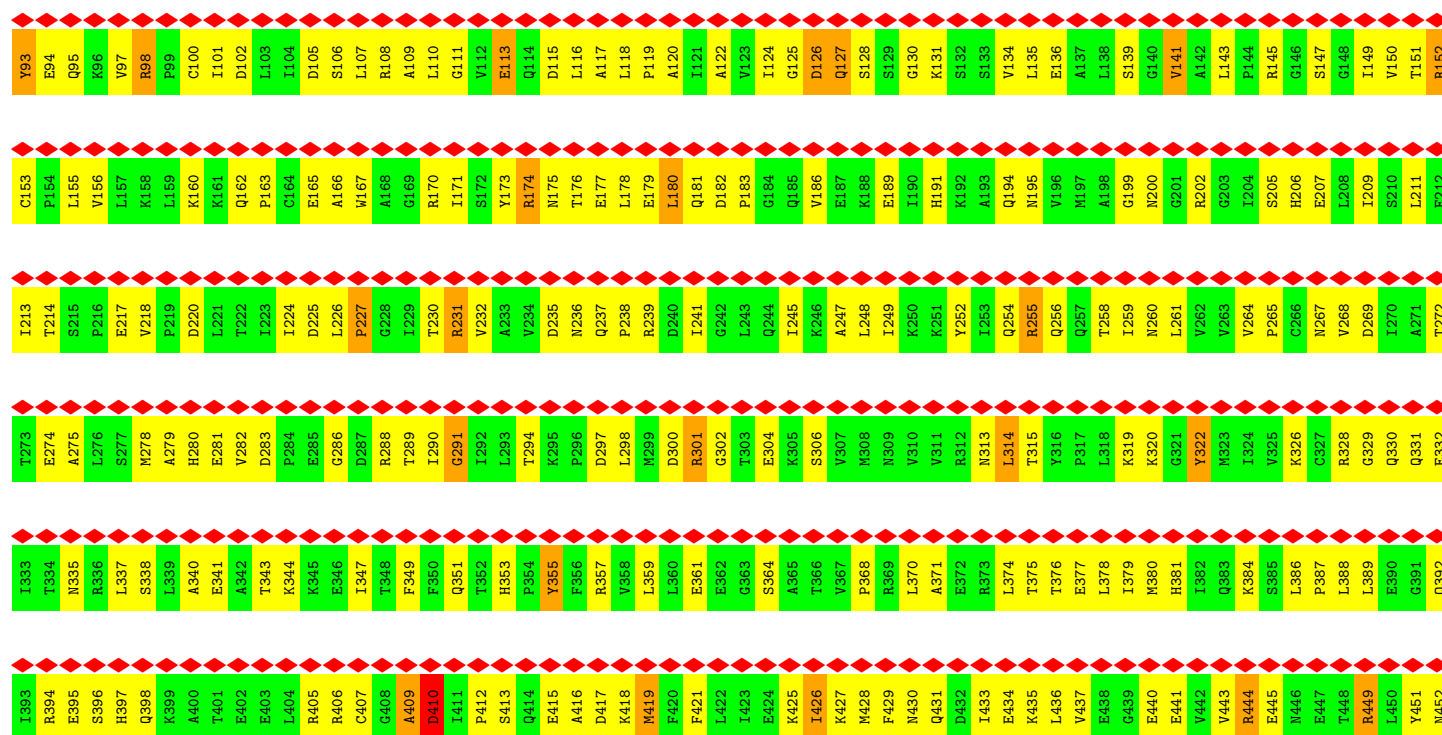
• Molecule 1: Interferon-induced GTP-binding protein Mx2

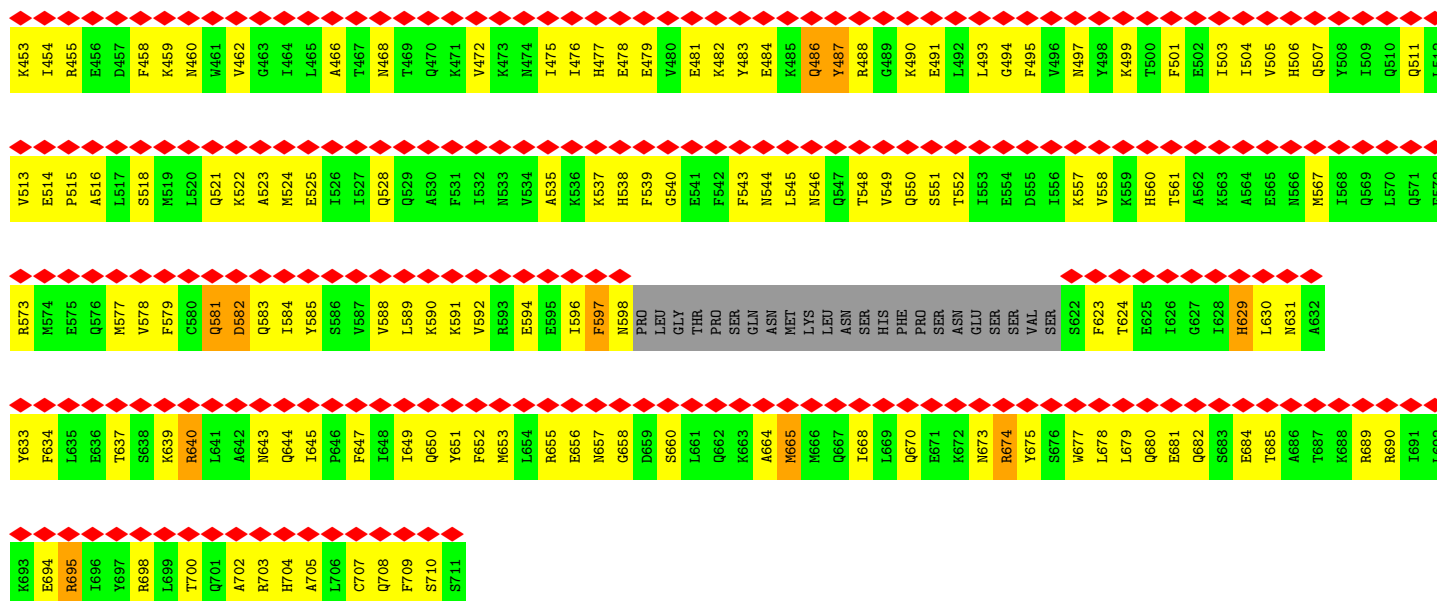


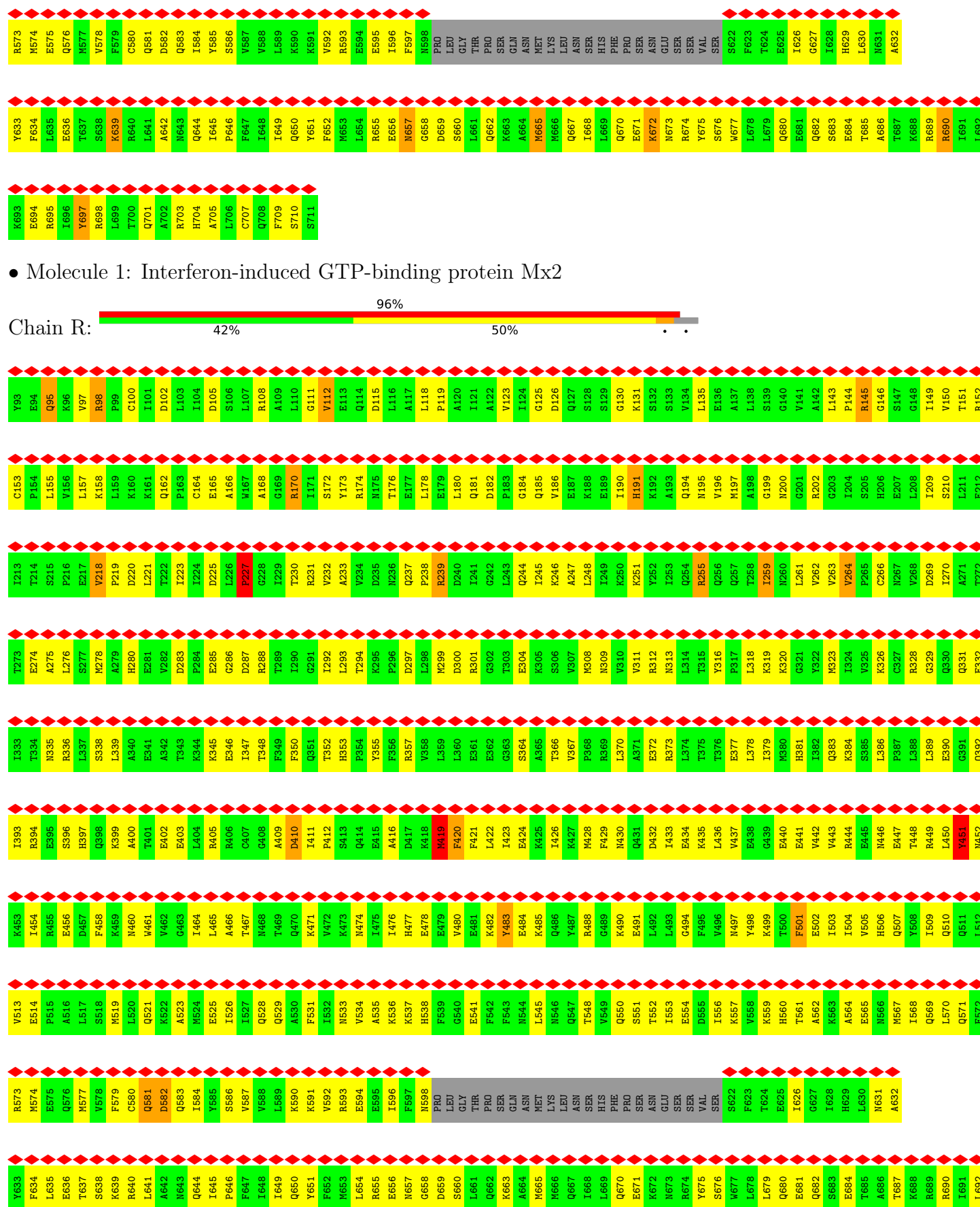




• Molecule 1: Interferon-induced GTP-binding protein Mx2

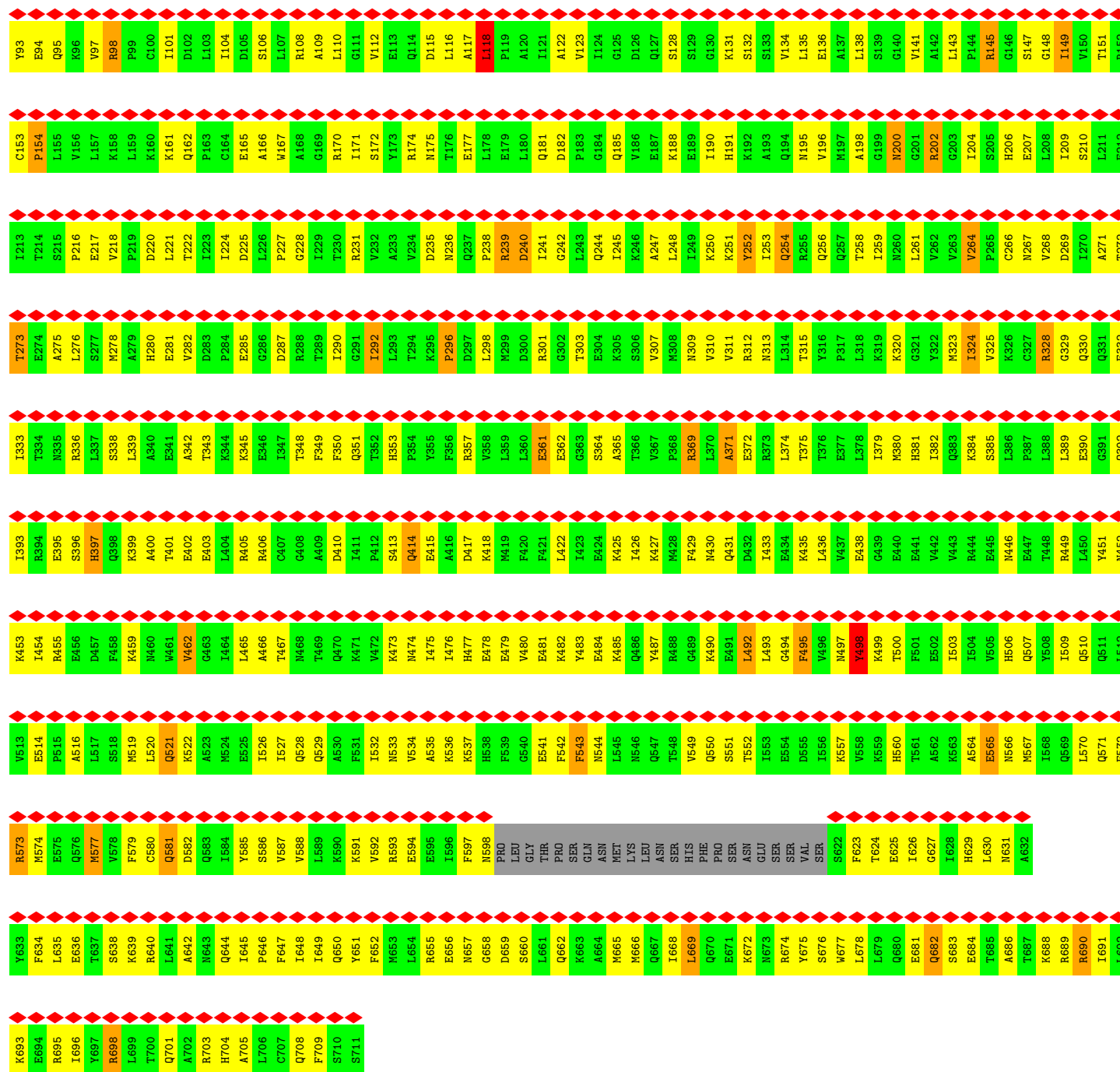




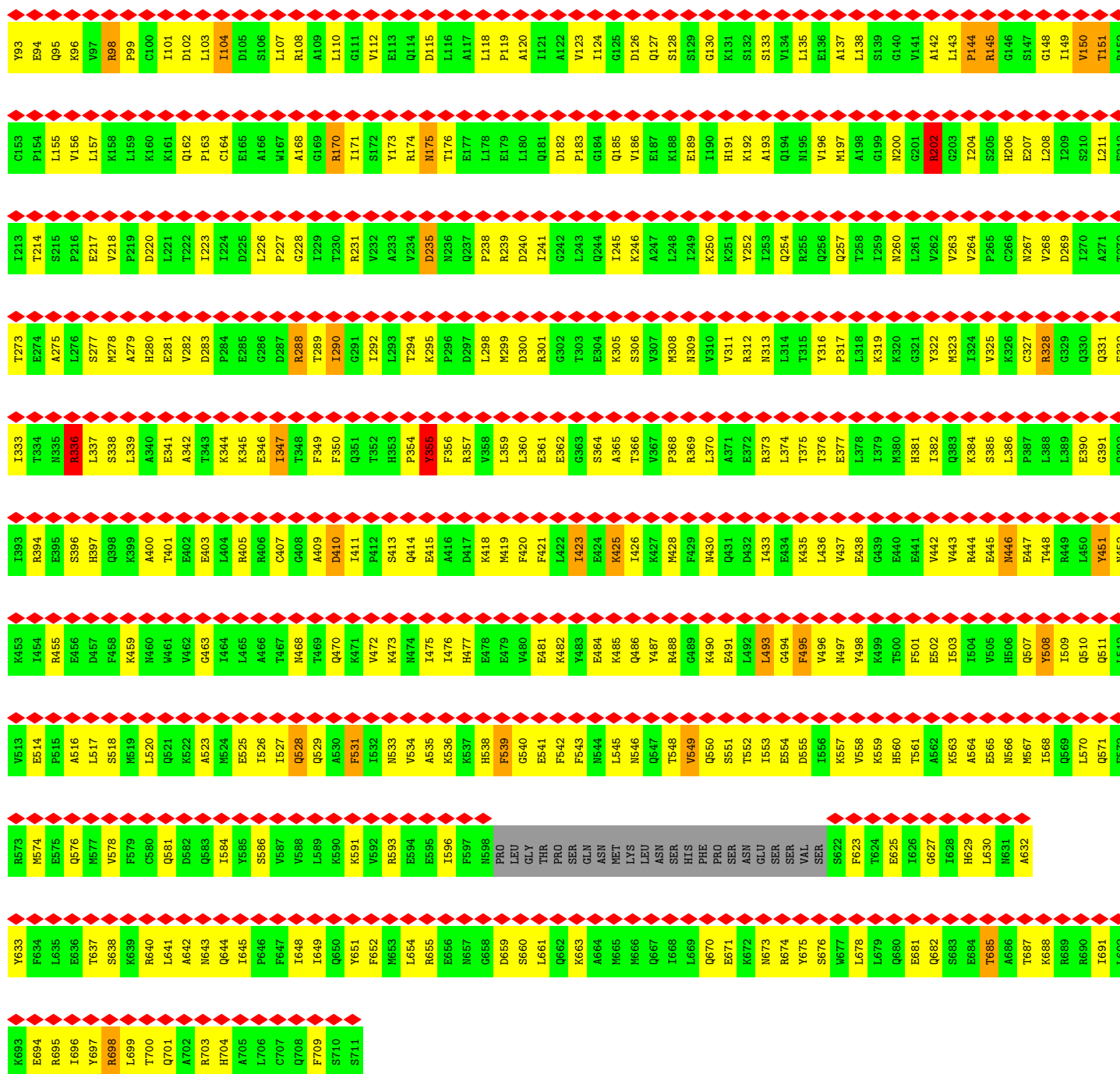
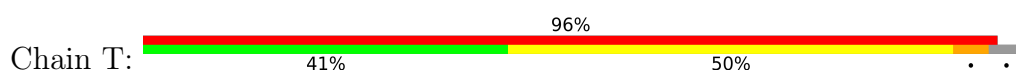




• Molecule 1: Interferon-induced GTP-binding protein Mx2



• Molecule 1: Interferon-induced GTP-binding protein Mx2

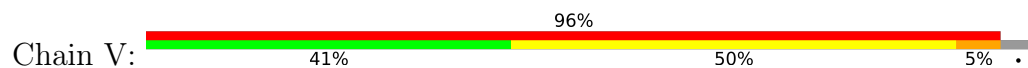


• Molecule 1: Interferon-induced GTP-binding protein Mx2

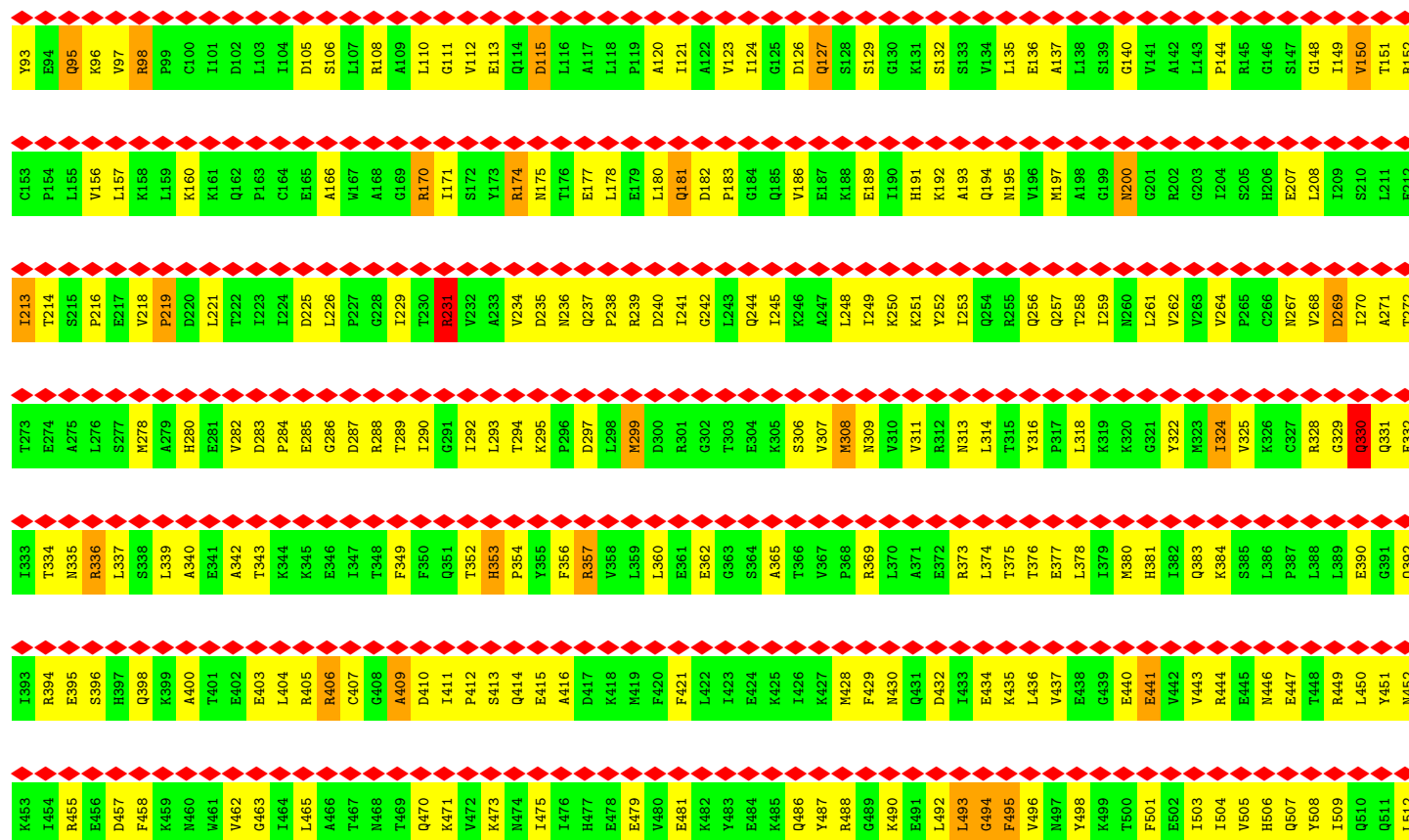
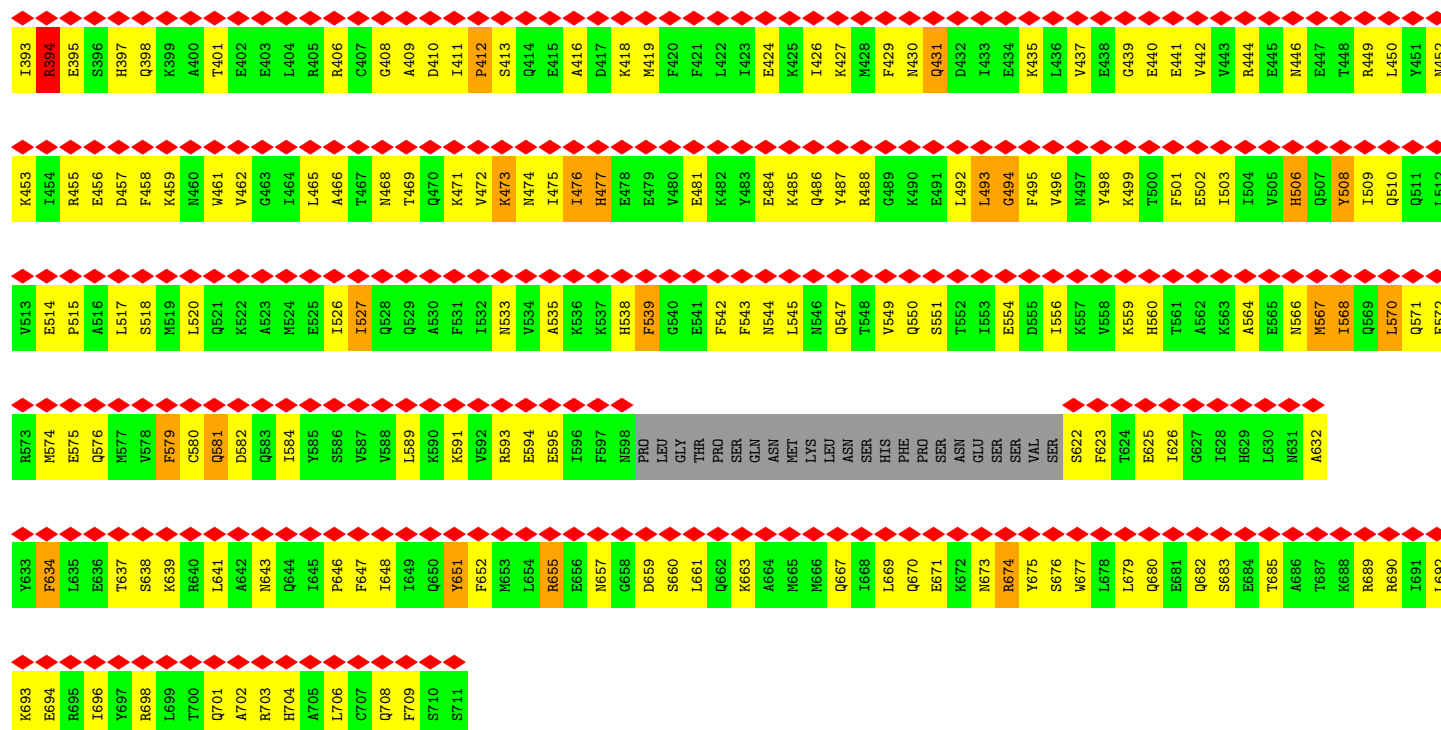


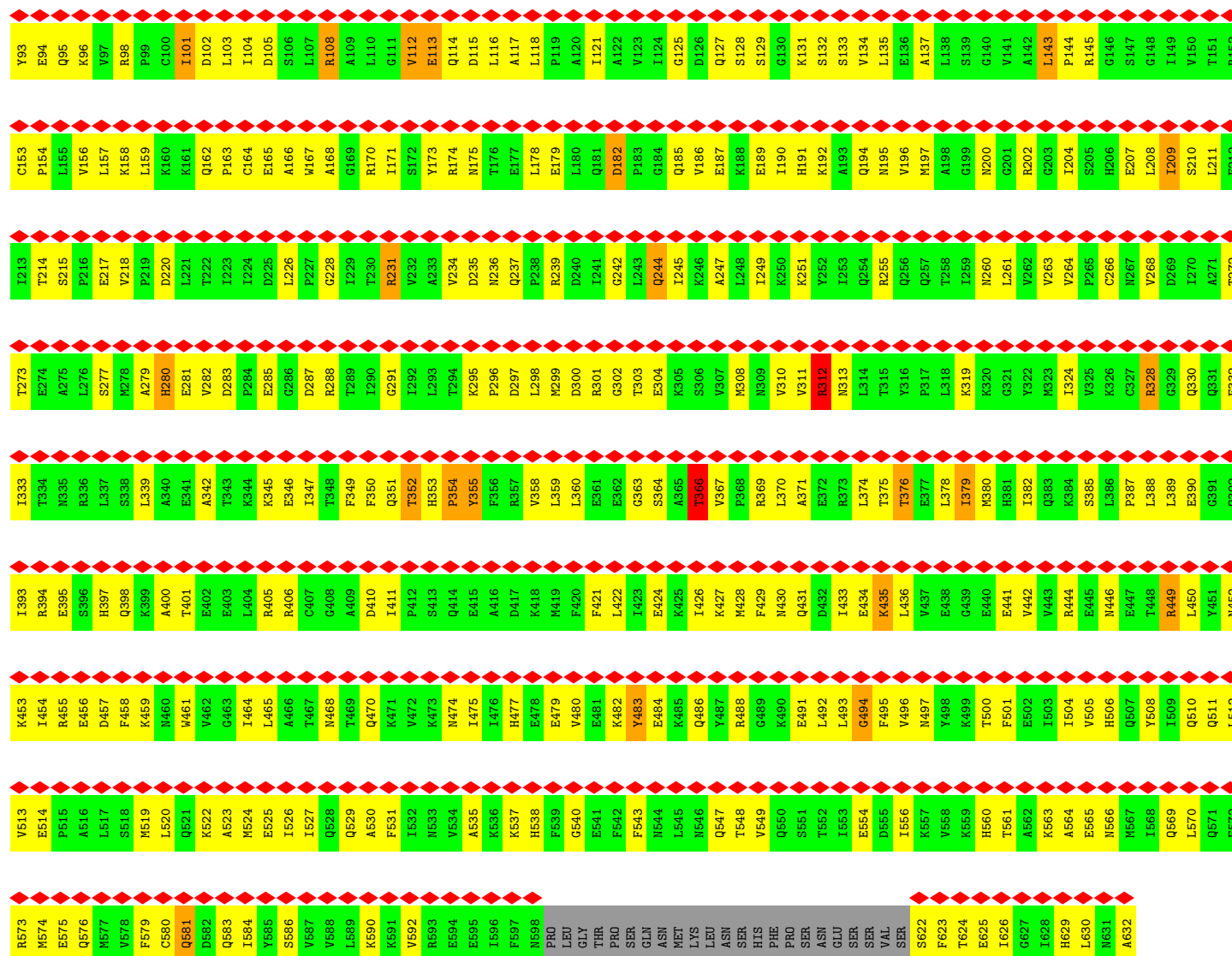
K693	E694	I696	R698	L699	T700	Q701	A702	R703	H704	A705	L706	C707	Q708	F709	S710	S711																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

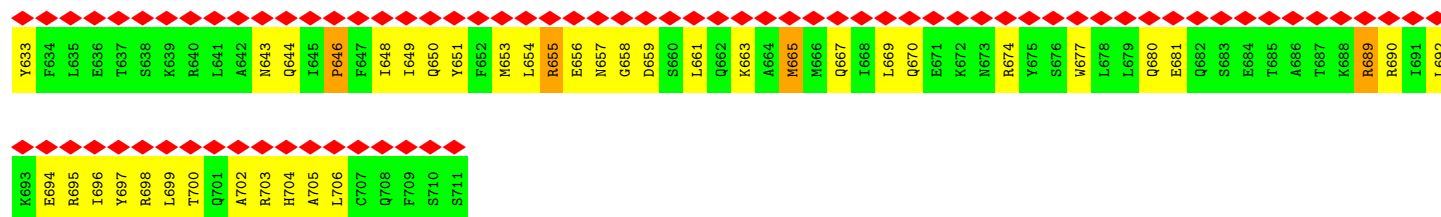
• Molecule 1: Interferon-induced GTP-binding protein Mx2



C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153	C153

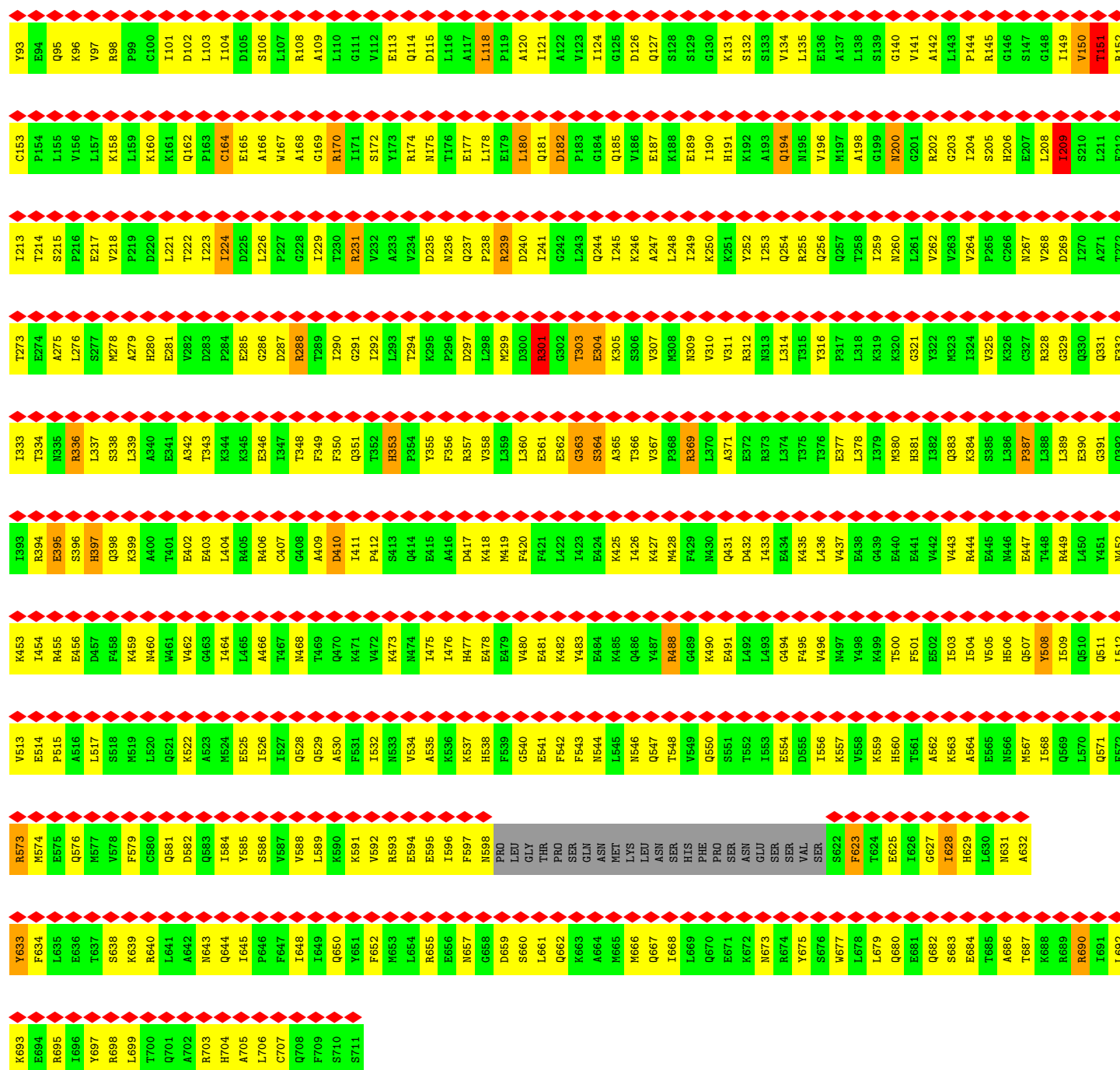






• Molecule 1: Interferon-induced GTP-binding protein Mx2

Chain Z: 39% 52% 96% 5% .



4 Experimental information

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=58.4°, rise=8.25 Å, axial sym=C1	Depositor
Number of segments used	44955	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{Å}^2$)	40	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3500	Depositor
Magnification	93000	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.199	Depositor
Minimum map value	-0.091	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.011	Depositor
Recommended contour level	4.5	Depositor
Map size (Å)	516.14996, 516.14996, 516.14996	wwPDB
Map dimensions	450, 450, 450	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.147, 1.147, 1.147	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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	0	2.18	148/4880 (3.0%)	2.54	370/6573 (5.6%)
1	1	2.18	136/4880 (2.8%)	2.58	423/6573 (6.4%)
1	2	2.24	155/4880 (3.2%)	2.53	350/6573 (5.3%)
1	3	2.17	142/4880 (2.9%)	2.59	377/6573 (5.7%)
1	4	2.18	133/4880 (2.7%)	2.61	413/6573 (6.3%)
1	5	2.19	157/4880 (3.2%)	2.57	402/6573 (6.1%)
1	6	2.20	145/4880 (3.0%)	2.52	354/6573 (5.4%)
1	7	2.20	155/4880 (3.2%)	2.54	371/6573 (5.6%)
1	8	2.19	133/4880 (2.7%)	2.56	385/6573 (5.9%)
1	9	2.21	153/4880 (3.1%)	2.51	358/6573 (5.4%)
1	A	2.14	120/4880 (2.5%)	2.58	372/6573 (5.7%)
1	B	2.16	133/4880 (2.7%)	2.59	409/6573 (6.2%)
1	C	2.19	157/4880 (3.2%)	2.57	367/6573 (5.6%)
1	D	2.21	150/4880 (3.1%)	2.52	365/6573 (5.6%)
1	E	2.21	172/4880 (3.5%)	2.56	399/6573 (6.1%)
1	F	2.13	135/4880 (2.8%)	2.62	391/6573 (5.9%)
1	G	2.20	158/4880 (3.2%)	2.60	392/6573 (6.0%)
1	H	2.17	147/4880 (3.0%)	2.58	411/6573 (6.3%)
1	I	2.18	153/4880 (3.1%)	2.56	382/6573 (5.8%)
1	J	2.23	163/4880 (3.3%)	2.58	403/6573 (6.1%)
1	K	2.23	161/4880 (3.3%)	2.57	416/6573 (6.3%)
1	L	2.22	170/4880 (3.5%)	2.55	372/6573 (5.7%)
1	M	2.22	158/4880 (3.2%)	2.55	389/6573 (5.9%)
1	N	2.18	152/4880 (3.1%)	2.60	395/6573 (6.0%)
1	O	2.24	169/4880 (3.5%)	2.55	371/6573 (5.6%)
1	P	2.23	162/4880 (3.3%)	2.57	388/6573 (5.9%)
1	Q	2.21	149/4880 (3.1%)	2.54	388/6573 (5.9%)
1	R	2.18	150/4880 (3.1%)	2.61	403/6573 (6.1%)
1	S	2.19	143/4880 (2.9%)	2.57	391/6573 (5.9%)
1	T	2.21	155/4880 (3.2%)	2.61	399/6573 (6.1%)
1	U	2.23	171/4880 (3.5%)	2.59	410/6573 (6.2%)
1	V	2.19	166/4880 (3.4%)	2.60	410/6573 (6.2%)
1	W	2.20	139/4880 (2.8%)	2.57	371/6573 (5.6%)
1	X	2.17	136/4880 (2.8%)	2.57	385/6573 (5.9%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	Y	2.20	135/4880 (2.8%)	2.53	367/6573 (5.6%)
1	Z	2.18	140/4880 (2.9%)	2.61	403/6573 (6.1%)
1	a	2.21	149/4880 (3.1%)	2.60	422/6573 (6.4%)
1	b	2.14	134/4880 (2.7%)	2.58	379/6573 (5.8%)
1	c	2.14	129/4880 (2.6%)	2.55	379/6573 (5.8%)
1	d	2.20	149/4880 (3.1%)	2.59	404/6573 (6.1%)
1	e	2.22	183/4880 (3.8%)	2.55	390/6573 (5.9%)
1	f	2.17	149/4880 (3.1%)	2.55	378/6573 (5.8%)
1	g	2.19	152/4880 (3.1%)	2.62	425/6573 (6.5%)
1	h	2.16	135/4880 (2.8%)	2.61	411/6573 (6.3%)
1	i	2.18	156/4880 (3.2%)	2.56	339/6573 (5.2%)
1	j	2.20	147/4880 (3.0%)	2.52	378/6573 (5.8%)
1	k	2.16	138/4880 (2.8%)	2.58	390/6573 (5.9%)
1	l	2.18	143/4880 (2.9%)	2.59	406/6573 (6.2%)
1	m	2.20	158/4880 (3.2%)	2.54	377/6573 (5.7%)
1	n	2.20	157/4880 (3.2%)	2.56	377/6573 (5.7%)
1	o	2.18	140/4880 (2.9%)	2.59	411/6573 (6.3%)
1	p	2.22	166/4880 (3.4%)	2.61	398/6573 (6.1%)
1	q	2.16	136/4880 (2.8%)	2.59	383/6573 (5.8%)
1	r	2.17	134/4880 (2.7%)	2.56	385/6573 (5.9%)
1	s	2.19	134/4880 (2.7%)	2.51	345/6573 (5.2%)
1	t	2.20	149/4880 (3.1%)	2.60	409/6573 (6.2%)
1	u	2.18	153/4880 (3.1%)	2.60	392/6573 (6.0%)
1	v	2.22	147/4880 (3.0%)	2.58	385/6573 (5.9%)
1	w	2.18	144/4880 (3.0%)	2.58	398/6573 (6.1%)
1	x	2.20	148/4880 (3.0%)	2.59	393/6573 (6.0%)
1	y	2.15	145/4880 (3.0%)	2.57	382/6573 (5.8%)
1	z	2.17	149/4880 (3.1%)	2.58	374/6573 (5.7%)
All	All	2.19	9225/302560 (3.0%)	2.57	24062/407526 (5.9%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	0	0	9
1	1	0	10
1	2	0	22
1	3	0	22
1	4	0	14
1	5	0	17

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	6	0	11
1	7	0	15
1	8	0	17
1	9	0	19
1	A	0	23
1	B	0	17
1	C	0	17
1	D	0	17
1	E	0	18
1	F	0	27
1	G	0	19
1	H	0	20
1	I	0	18
1	J	0	15
1	K	0	18
1	L	0	23
1	M	0	13
1	N	0	21
1	O	0	16
1	P	0	19
1	Q	0	19
1	R	0	13
1	S	0	16
1	T	0	16
1	U	0	17
1	V	0	20
1	W	0	17
1	X	0	20
1	Y	0	12
1	Z	0	19
1	a	0	14
1	b	0	19
1	c	0	16
1	d	0	21
1	e	0	18
1	f	0	18
1	g	0	14
1	h	0	17
1	i	0	15
1	j	0	27
1	k	0	16
1	l	0	18

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	m	0	17
1	n	0	16
1	o	0	14
1	p	0	17
1	q	0	20
1	r	0	17
1	s	0	20
1	t	0	17
1	u	0	16
1	v	0	21
1	w	0	12
1	x	0	25
1	y	0	18
1	z	0	22
All	All	0	1091

All (9225) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	v	295	LYS	CA-C	16.20	1.64	1.53
1	n	363	GLY	CA-C	15.48	1.61	1.51
1	A	645	ILE	CA-CB	-14.06	1.46	1.54
1	Y	295	LYS	CA-C	13.69	1.62	1.53
1	X	290	ILE	C-N	13.10	1.40	1.33
1	h	295	LYS	CA-C	12.96	1.62	1.53
1	n	587	VAL	CA-CB	-12.91	1.38	1.54
1	6	316	TYR	C-N	12.14	1.43	1.33
1	v	645	ILE	CA-C	12.10	1.63	1.52
1	W	295	LYS	CA-C	12.08	1.61	1.53
1	E	264	VAL	CA-CB	11.88	1.63	1.54
1	8	295	LYS	C-O	-11.66	1.18	1.23
1	2	232	VAL	CA-C	11.65	1.62	1.52
1	j	645	ILE	CA-CB	-11.54	1.46	1.53
1	K	264	VAL	CA-C	11.49	1.62	1.52
1	n	581	GLN	CA-C	-11.45	1.47	1.53
1	7	209	ILE	CA-C	-11.42	1.39	1.52
1	3	645	ILE	CA-CB	-11.28	1.48	1.54
1	k	397	HIS	ND1-CE1	11.28	1.43	1.32
1	P	629	HIS	ND1-CE1	11.24	1.43	1.32
1	Y	319	LYS	CA-C	11.21	1.68	1.52
1	2	295	LYS	CA-CB	11.17	1.60	1.52
1	S	170	ARG	CD-NE	11.11	1.61	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f	645	ILE	CA-C	11.09	1.64	1.52
1	V	579	PHE	CA-C	11.04	1.65	1.52
1	p	486	GLN	CA-C	11.03	1.60	1.52
1	M	531	PHE	CA-C	10.99	1.66	1.52
1	X	710	SER	CA-CB	10.96	1.66	1.53
1	O	98	ARG	CA-C	10.82	1.65	1.52
1	U	118	LEU	CA-CB	10.81	1.60	1.52
1	M	191	HIS	ND1-CE1	10.77	1.43	1.32
1	D	218	VAL	CA-C	10.70	1.62	1.52
1	2	498	TYR	N-CA	-10.68	1.33	1.46
1	F	264	VAL	C-N	10.59	1.46	1.33
1	4	629	HIS	ND1-CE1	10.55	1.43	1.32
1	d	353	HIS	ND1-CE1	10.53	1.43	1.32
1	k	211	LEU	CA-C	-10.53	1.40	1.52
1	4	295	LYS	CA-C	10.52	1.66	1.52
1	n	579	PHE	CA-C	10.49	1.66	1.52
1	G	295	LYS	CA-CB	10.47	1.60	1.52
1	L	671	GLU	CA-CB	10.47	1.66	1.53
1	t	397	HIS	ND1-CE1	10.46	1.43	1.32
1	5	162	GLN	CA-C	10.42	1.63	1.52
1	U	367	VAL	CA-CB	-10.40	1.46	1.54
1	H	704	HIS	ND1-CE1	10.32	1.42	1.32
1	O	645	ILE	CA-CB	-10.30	1.48	1.54
1	L	645	ILE	CA-CB	-10.13	1.47	1.53
1	t	343	THR	N-CA	-10.12	1.34	1.46
1	4	698	ARG	CA-C	10.12	1.65	1.52
1	i	363	GLY	CA-C	-10.11	1.41	1.52
1	B	250	LYS	CA-C	-10.08	1.39	1.52
1	w	366	THR	C-N	10.06	1.42	1.33
1	3	330	GLN	CA-C	10.05	1.66	1.52
1	o	400	ALA	CA-C	-10.05	1.39	1.52
1	L	386	LEU	CA-C	10.05	1.64	1.52
1	M	227	PRO	C-N	10.02	1.40	1.33
1	c	213	ILE	CA-C	9.99	1.65	1.52
1	S	560	HIS	ND1-CE1	9.94	1.42	1.32
1	A	477	HIS	ND1-CE1	9.89	1.42	1.32
1	2	549	VAL	CA-CB	-9.88	1.42	1.54
1	c	496	VAL	CA-C	9.88	1.64	1.52
1	Y	158	LYS	N-CA	-9.87	1.34	1.46
1	k	182	ASP	CA-C	9.86	1.64	1.52
1	W	170	ARG	CD-NE	9.85	1.60	1.46
1	I	684	GLU	CA-CB	9.84	1.68	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9	629	HIS	CG-CD2	9.84	1.46	1.35
1	s	232	VAL	N-CA	9.84	1.57	1.46
1	q	575	GLU	CA-C	9.84	1.66	1.52
1	9	313	ASN	CA-CB	9.83	1.64	1.53
1	M	538	HIS	ND1-CE1	9.80	1.42	1.32
1	Y	299	MET	CA-C	9.79	1.65	1.52
1	j	157	LEU	N-CA	-9.77	1.33	1.46
1	I	280	HIS	ND1-CE1	9.77	1.42	1.32
1	f	327	CYS	N-CA	9.76	1.57	1.45
1	o	560	HIS	ND1-CE1	9.76	1.42	1.32
1	c	249	ILE	CA-CB	-9.74	1.42	1.54
1	P	237	GLN	CA-C	9.74	1.63	1.52
1	x	312	ARG	CA-CB	9.73	1.68	1.53
1	b	704	HIS	ND1-CE1	9.73	1.42	1.32
1	H	295	LYS	CA-CB	9.70	1.59	1.52
1	F	150	VAL	CA-C	9.65	1.65	1.52
1	J	259	ILE	CA-C	-9.64	1.40	1.52
1	o	506	HIS	ND1-CE1	9.63	1.42	1.32
1	J	156	VAL	CA-C	-9.63	1.41	1.52
1	Z	229	ILE	CA-C	9.62	1.65	1.52
1	7	104	ILE	CA-CB	-9.61	1.42	1.54
1	Z	153	CYS	CA-CB	9.61	1.65	1.53
1	P	282	VAL	CA-C	9.60	1.65	1.53
1	5	179	GLU	CA-CB	9.60	1.65	1.53
1	f	282	VAL	C-N	9.59	1.42	1.33
1	9	253	ILE	CA-CB	-9.58	1.42	1.54
1	Z	412	PRO	CA-C	9.57	1.64	1.52
1	C	225	ASP	CA-C	9.56	1.64	1.52
1	N	448	THR	C-N	9.56	1.46	1.33
1	N	264	VAL	C-N	9.55	1.44	1.33
1	r	367	VAL	CA-CB	-9.52	1.41	1.54
1	O	269	ASP	CA-CB	9.50	1.69	1.53
1	g	214	THR	CA-C	-9.48	1.41	1.52
1	v	247	ALA	CA-C	9.46	1.65	1.52
1	p	534	VAL	CA-CB	-9.46	1.43	1.54
1	J	344	LYS	CA-C	9.45	1.65	1.52
1	E	560	HIS	ND1-CE1	9.44	1.42	1.32
1	g	654	LEU	CA-C	9.40	1.59	1.52
1	w	353	HIS	ND1-CE1	9.40	1.42	1.32
1	w	248	LEU	CA-C	-9.38	1.40	1.52
1	G	486	GLN	CA-C	9.38	1.58	1.52
1	l	564	ALA	N-CA	-9.38	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	704	HIS	ND1-CE1	9.38	1.42	1.32
1	l	210	SER	CA-C	-9.37	1.41	1.52
1	a	555	ASP	C-N	9.35	1.45	1.33
1	J	360	LEU	CA-C	-9.35	1.45	1.52
1	O	479	GLU	N-CA	-9.34	1.35	1.46
1	i	191	HIS	ND1-CE1	9.34	1.41	1.32
1	a	527	ILE	CA-CB	9.33	1.65	1.54
1	h	704	HIS	ND1-CE1	9.33	1.41	1.32
1	X	697	TYR	CA-CB	9.32	1.67	1.53
1	G	143	LEU	CA-C	9.30	1.62	1.53
1	m	386	LEU	CA-CB	9.30	1.62	1.54
1	r	423	ILE	CA-CB	-9.30	1.43	1.54
1	k	152	ARG	CD-NE	9.29	1.59	1.46
1	S	128	SER	CA-C	9.29	1.64	1.52
1	l	497	ASN	CA-CB	9.28	1.66	1.53
1	d	514	GLU	N-CA	-9.28	1.38	1.46
1	E	633	TYR	CA-C	9.26	1.64	1.52
1	m	182	ASP	CA-C	9.26	1.65	1.53
1	r	681	GLU	CA-C	9.24	1.64	1.52
1	r	696	ILE	CA-C	9.24	1.64	1.52
1	h	648	ILE	CA-C	-9.24	1.41	1.52
1	s	532	ILE	CA-CB	-9.23	1.43	1.54
1	H	143	LEU	CA-C	9.21	1.62	1.53
1	y	662	GLN	CA-C	-9.21	1.40	1.52
1	a	411	ILE	CA-C	9.20	1.62	1.52
1	j	381	HIS	ND1-CE1	9.20	1.41	1.32
1	t	474	ASN	CA-C	9.19	1.64	1.52
1	b	520	LEU	CA-C	9.19	1.64	1.52
1	H	165	GLU	CA-C	9.19	1.65	1.52
1	T	584	ILE	CA-C	9.18	1.64	1.52
1	G	560	HIS	ND1-CE1	9.17	1.41	1.32
1	z	295	LYS	CA-C	9.16	1.59	1.53
1	3	360	LEU	CA-C	-9.16	1.43	1.52
1	7	234	VAL	CA-C	9.16	1.64	1.53
1	m	278	MET	CA-C	9.15	1.65	1.52
1	U	564	ALA	CA-C	-9.14	1.41	1.52
1	w	654	LEU	CA-C	-9.13	1.46	1.52
1	Q	324	ILE	N-CA	-9.12	1.35	1.46
1	0	514	GLU	CA-C	9.12	1.63	1.52
1	S	645	ILE	CA-CB	9.11	1.60	1.53
1	W	669	LEU	C-N	9.11	1.45	1.33
1	l	324	ILE	CA-C	9.10	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	149	ILE	CA-CB	9.09	1.64	1.54
1	2	171	ILE	N-CA	9.09	1.56	1.46
1	5	144	PRO	CA-C	-9.09	1.40	1.52
1	v	292	ILE	CA-CB	9.08	1.65	1.54
1	d	386	LEU	CA-C	9.08	1.63	1.52
1	t	459	LYS	CA-CB	9.07	1.67	1.53
1	Y	450	LEU	CA-C	9.07	1.64	1.52
1	n	368	PRO	CA-CB	9.06	1.62	1.53
1	8	229	ILE	CA-C	9.05	1.64	1.52
1	3	482	LYS	C-N	9.05	1.46	1.33
1	K	257	GLN	CA-C	9.04	1.65	1.52
1	9	339	LEU	N-CA	-9.04	1.35	1.46
1	U	316	TYR	CA-C	-9.04	1.43	1.53
1	9	690	ARG	CD-NE	9.04	1.58	1.46
1	Z	532	ILE	CA-CB	9.04	1.65	1.54
1	r	473	LYS	N-CA	-9.03	1.35	1.46
1	B	386	LEU	CA-CB	9.03	1.62	1.54
1	E	174	ARG	CA-C	-9.02	1.41	1.53
1	V	535	ALA	N-CA	-9.02	1.35	1.46
1	P	397	HIS	CB-CG	-9.01	1.37	1.50
1	E	394	ARG	CZ-NH2	-9.01	1.21	1.33
1	Y	295	LYS	C-O	9.01	1.28	1.23
1	J	540	GLY	N-CA	9.01	1.57	1.45
1	Q	446	ASN	CA-C	9.01	1.63	1.52
1	y	704	HIS	ND1-CE1	9.00	1.41	1.32
1	l	358	VAL	N-CA	9.00	1.58	1.46
1	U	206	HIS	C-N	8.99	1.45	1.33
1	6	422	LEU	N-CA	-8.99	1.35	1.46
1	F	629	HIS	N-CA	8.97	1.57	1.46
1	a	124	ILE	C-N	8.96	1.42	1.33
1	i	533	ASN	CA-C	8.95	1.64	1.52
1	K	370	LEU	C-N	8.94	1.46	1.33
1	x	124	ILE	C-N	8.94	1.44	1.32
1	J	518	SER	CA-CB	8.94	1.67	1.53
1	5	663	LYS	CA-C	8.93	1.64	1.52
1	d	353	HIS	CD2-NE2	8.93	1.47	1.37
1	Z	182	ASP	CA-C	8.93	1.62	1.52
1	T	555	ASP	CA-CB	8.91	1.67	1.53
1	D	288	ARG	N-CA	-8.91	1.38	1.46
1	t	477	HIS	CB-CG	8.90	1.62	1.50
1	f	228	GLY	N-CA	8.89	1.56	1.45
1	z	551	SER	CA-CB	8.87	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	w	548	THR	C-N	8.86	1.45	1.33
1	W	206	HIS	ND1-CE1	8.86	1.41	1.32
1	u	305	LYS	CA-C	8.85	1.64	1.52
1	k	410	ASP	CA-C	8.85	1.64	1.52
1	8	515	PRO	CA-CB	8.85	1.66	1.53
1	O	701	GLN	C-N	8.85	1.45	1.33
1	r	163	PRO	CA-CB	8.85	1.59	1.53
1	T	654	LEU	CA-C	-8.85	1.46	1.52
1	b	172	SER	C-N	8.84	1.46	1.33
1	C	292	ILE	CA-C	8.84	1.62	1.52
1	o	340	ALA	N-CA	-8.84	1.35	1.46
1	i	318	LEU	CA-C	8.83	1.64	1.52
1	U	98	ARG	C-O	-8.82	1.16	1.24
1	N	420	PHE	CA-CB	8.81	1.67	1.53
1	B	553	ILE	CA-C	8.81	1.64	1.52
1	O	629	HIS	CA-C	8.79	1.64	1.52
1	9	245	ILE	CA-CB	8.79	1.64	1.54
1	u	411	ILE	CA-CB	-8.78	1.42	1.54
1	8	206	HIS	CD2-NE2	8.77	1.47	1.37
1	n	695	ARG	CD-NE	8.77	1.58	1.46
1	M	213	ILE	CA-CB	-8.77	1.43	1.54
1	6	103	LEU	CA-CB	8.76	1.67	1.53
1	X	241	ILE	CA-CB	-8.76	1.44	1.54
1	x	648	ILE	CA-C	-8.76	1.42	1.52
1	Q	633	TYR	CA-C	8.76	1.64	1.52
1	Y	264	VAL	CA-CB	8.75	1.60	1.54
1	6	150	VAL	CA-CB	-8.75	1.46	1.55
1	x	531	PHE	CA-C	-8.75	1.41	1.52
1	S	252	TYR	C-N	8.74	1.44	1.33
1	b	680	GLN	CA-C	-8.74	1.41	1.52
1	j	285	GLU	CA-C	8.73	1.64	1.52
1	s	147	SER	CA-CB	8.73	1.64	1.52
1	y	381	HIS	ND1-CE1	8.73	1.41	1.32
1	Y	333	ILE	CA-C	8.73	1.64	1.52
1	N	386	LEU	CA-C	8.73	1.63	1.52
1	O	260	ASN	CA-CB	8.73	1.65	1.53
1	J	275	ALA	C-N	8.73	1.45	1.33
1	2	419	MET	CA-CB	8.72	1.67	1.53
1	U	180	LEU	N-CA	8.71	1.56	1.46
1	j	538	HIS	ND1-CE1	8.71	1.41	1.32
1	2	437	VAL	CA-CB	-8.70	1.44	1.54
1	j	213	ILE	N-CA	8.69	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	685	THR	CA-C	8.68	1.64	1.52
1	J	475	ILE	CA-C	8.67	1.63	1.52
1	2	497	ASN	C-N	8.66	1.44	1.33
1	4	438	GLU	CA-CB	8.66	1.65	1.53
1	n	226	LEU	C-N	8.66	1.43	1.33
1	5	191	HIS	ND1-CE1	8.65	1.41	1.32
1	S	371	ALA	N-CA	-8.64	1.36	1.46
1	E	164	CYS	CA-C	8.63	1.64	1.52
1	t	442	VAL	CA-CB	-8.63	1.45	1.54
1	D	351	GLN	CA-C	8.63	1.64	1.52
1	f	225	ASP	CA-CB	8.63	1.64	1.53
1	R	525	GLU	C-N	8.63	1.44	1.33
1	T	494	GLY	CA-C	8.60	1.61	1.52
1	u	145	ARG	CD-NE	8.59	1.58	1.46
1	5	431	GLN	N-CA	-8.59	1.36	1.46
1	e	283	ASP	CA-CB	8.59	1.64	1.53
1	N	645	ILE	CA-CB	-8.59	1.49	1.54
1	b	523	ALA	N-CA	-8.58	1.35	1.46
1	q	516	ALA	CA-C	8.58	1.64	1.52
1	Q	237	GLN	C-N	8.58	1.41	1.33
1	o	303	THR	CA-C	8.57	1.64	1.52
1	s	310	VAL	N-CA	8.56	1.56	1.46
1	Q	578	VAL	CA-CB	8.55	1.65	1.54
1	T	133	SER	CA-C	8.55	1.64	1.52
1	J	361	GLU	CA-C	8.55	1.63	1.52
1	f	284	PRO	CA-C	-8.55	1.40	1.52
1	x	103	LEU	CA-C	8.53	1.64	1.52
1	V	381	HIS	CB-CG	8.53	1.62	1.50
1	9	628	ILE	CA-CB	-8.53	1.43	1.54
1	V	512	LEU	CA-C	8.53	1.64	1.52
1	M	182	ASP	CA-C	8.53	1.62	1.53
1	R	143	LEU	CA-C	-8.53	1.42	1.52
1	L	409	ALA	CA-C	8.52	1.64	1.52
1	g	316	TYR	CA-C	8.52	1.61	1.53
1	V	506	HIS	ND1-CE1	8.51	1.41	1.32
1	D	108	ARG	N-CA	-8.51	1.36	1.46
1	0	208	LEU	CA-CB	8.50	1.66	1.53
1	2	546	ASN	CA-C	8.50	1.63	1.52
1	2	444	ARG	CD-NE	8.50	1.58	1.46
1	m	224	ILE	CA-CB	8.50	1.64	1.53
1	x	588	VAL	CA-CB	-8.50	1.43	1.54
1	7	347	ILE	CA-CB	-8.49	1.44	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	367	VAL	CA-C	8.49	1.61	1.52
1	I	635	LEU	CA-CB	8.49	1.66	1.53
1	0	264	VAL	CA-CB	-8.48	1.46	1.54
1	C	148	GLY	N-CA	8.48	1.56	1.45
1	H	371	ALA	C-N	8.48	1.45	1.33
1	U	450	LEU	C-N	8.48	1.44	1.33
1	l	328	ARG	C-N	8.48	1.43	1.33
1	t	629	HIS	CG-ND1	8.48	1.47	1.38
1	b	594	GLU	C-N	8.48	1.46	1.33
1	n	534	VAL	CA-CB	8.48	1.65	1.54
1	0	279	ALA	C-N	8.47	1.45	1.33
1	T	415	GLU	CA-C	8.47	1.63	1.52
1	b	629	HIS	ND1-CE1	8.47	1.41	1.32
1	3	477	HIS	ND1-CE1	8.47	1.41	1.32
1	7	311	VAL	CA-CB	-8.47	1.44	1.54
1	h	206	HIS	ND1-CE1	8.47	1.41	1.32
1	K	317	PRO	N-CA	-8.47	1.40	1.47
1	B	228	GLY	CA-C	-8.45	1.44	1.52
1	Z	634	PHE	CA-CB	8.45	1.66	1.53
1	e	386	LEU	CA-C	8.45	1.62	1.52
1	K	448	THR	N-CA	8.45	1.56	1.45
1	o	186	VAL	CA-CB	-8.44	1.44	1.54
1	C	391	GLY	C-N	8.44	1.44	1.33
1	g	251	LYS	CA-C	8.43	1.63	1.52
1	u	480	VAL	CA-CB	-8.43	1.44	1.54
1	4	394	ARG	CD-NE	8.43	1.58	1.46
1	Q	554	GLU	N-CA	8.43	1.56	1.46
1	K	96	LYS	C-N	8.42	1.44	1.33
1	L	629	HIS	ND1-CE1	8.42	1.41	1.32
1	Y	444	ARG	CD-NE	8.42	1.58	1.46
1	a	178	LEU	N-CA	-8.41	1.36	1.46
1	S	551	SER	CA-C	8.41	1.64	1.52
1	2	295	LYS	CA-C	8.41	1.59	1.53
1	t	218	VAL	CA-CB	8.41	1.65	1.54
1	Z	366	THR	C-N	8.41	1.42	1.33
1	R	574	MET	N-CA	8.41	1.56	1.46
1	t	498	TYR	CA-CB	8.40	1.66	1.53
1	U	347	ILE	CA-C	-8.40	1.42	1.52
1	5	488	ARG	CA-CB	8.39	1.66	1.53
1	g	405	ARG	CA-C	8.39	1.64	1.52
1	R	477	HIS	ND1-CE1	8.39	1.41	1.32
1	1	96	LYS	CA-C	8.39	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l	327	CYS	CA-CB	8.39	1.65	1.53
1	E	206	HIS	CB-CG	8.38	1.61	1.50
1	U	300	ASP	CA-C	8.38	1.64	1.52
1	c	546	ASN	CA-C	8.38	1.63	1.52
1	U	182	ASP	CA-C	8.37	1.63	1.52
1	c	204	ILE	CA-C	8.37	1.62	1.52
1	G	434	GLU	C-N	8.37	1.45	1.34
1	o	377	GLU	C-N	8.37	1.45	1.33
1	D	504	ILE	CA-C	8.36	1.63	1.52
1	E	669	LEU	C-N	8.36	1.46	1.33
1	Y	347	ILE	CA-CB	8.36	1.64	1.54
1	u	426	ILE	CA-CB	8.36	1.65	1.54
1	S	630	LEU	CA-C	8.36	1.63	1.52
1	R	125	GLY	CA-C	-8.36	1.42	1.51
1	Y	488	ARG	CZ-NH1	-8.35	1.21	1.32
1	Q	271	ALA	CA-C	8.35	1.64	1.52
1	q	427	LYS	CA-CB	8.35	1.66	1.53
1	w	673	ASN	CA-C	8.34	1.64	1.52
1	T	525	GLU	C-N	8.34	1.44	1.33
1	4	481	GLU	N-CA	-8.33	1.36	1.46
1	z	525	GLU	C-N	8.33	1.44	1.33
1	K	637	THR	N-CA	8.33	1.56	1.46
1	b	506	HIS	ND1-CE1	8.31	1.40	1.32
1	O	144	PRO	CA-CB	8.31	1.65	1.53
1	G	258	THR	CA-CB	8.31	1.64	1.53
1	y	163	PRO	CA-C	-8.30	1.46	1.53
1	9	405	ARG	CA-C	-8.29	1.42	1.52
1	z	703	ARG	CA-C	8.29	1.63	1.52
1	W	410	ASP	CA-C	8.28	1.63	1.52
1	R	283	ASP	CA-C	8.28	1.63	1.52
1	9	228	GLY	C-N	8.28	1.43	1.33
1	u	229	ILE	N-CA	8.28	1.55	1.46
1	u	191	HIS	ND1-CE1	8.27	1.40	1.32
1	F	350	PHE	CA-C	8.27	1.63	1.52
1	0	115	ASP	CA-C	8.27	1.63	1.52
1	s	489	GLY	CA-C	-8.27	1.41	1.52
1	G	645	ILE	C-O	-8.27	1.17	1.24
1	y	213	ILE	C-N	8.26	1.44	1.33
1	8	339	LEU	CA-CB	8.25	1.67	1.53
1	e	366	THR	CA-CB	8.25	1.66	1.53
1	F	320	LYS	CA-CB	8.24	1.64	1.53
1	5	98	ARG	CA-C	8.24	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	y	393	ILE	CA-CB	-8.24	1.45	1.54
1	n	213	ILE	N-CA	8.24	1.55	1.46
1	o	304	GLU	CA-C	-8.24	1.42	1.52
1	6	411	ILE	CA-C	8.24	1.61	1.52
1	z	701	GLN	N-CA	-8.24	1.36	1.46
1	4	645	ILE	CA-CB	8.23	1.59	1.53
1	D	137	ALA	CA-C	-8.23	1.41	1.52
1	M	429	PHE	C-O	-8.23	1.14	1.24
1	w	196	VAL	CA-C	8.23	1.62	1.52
1	N	631	ASN	CA-C	8.23	1.63	1.52
1	e	423	ILE	CA-C	-8.22	1.42	1.52
1	L	477	HIS	CG-CD2	8.21	1.44	1.35
1	l	593	ARG	CA-CB	8.21	1.66	1.53
1	o	94	GLU	C-N	8.21	1.45	1.33
1	x	175	ASN	CA-CB	8.21	1.65	1.54
1	A	202	ARG	CD-NE	8.21	1.57	1.46
1	7	162	GLN	N-CA	-8.20	1.38	1.45
1	K	708	GLN	N-CA	-8.20	1.36	1.46
1	l	466	ALA	C-O	-8.20	1.14	1.24
1	z	363	GLY	CA-C	-8.19	1.46	1.51
1	V	373	ARG	CD-NE	8.19	1.57	1.46
1	w	661	LEU	CA-CB	8.19	1.66	1.53
1	Y	255	ARG	CA-C	8.19	1.63	1.52
1	d	277	SER	C-N	8.18	1.44	1.33
1	J	295	LYS	CA-C	8.17	1.58	1.53
1	K	525	GLU	CA-C	8.17	1.63	1.52
1	d	235	ASP	CA-CB	8.16	1.66	1.53
1	n	263	VAL	CA-C	8.16	1.63	1.52
1	P	538	HIS	ND1-CE1	8.16	1.40	1.32
1	Z	449	ARG	CA-C	8.16	1.62	1.52
1	Q	467	THR	C-O	-8.16	1.14	1.24
1	U	557	LYS	CA-CB	8.16	1.66	1.53
1	M	551	SER	C-O	-8.15	1.14	1.24
1	T	557	LYS	CA-CB	8.15	1.66	1.53
1	2	461	TRP	C-N	8.14	1.43	1.34
1	M	492	LEU	CA-C	8.14	1.63	1.52
1	Y	560	HIS	CE1-NE2	-8.14	1.24	1.32
1	g	221	LEU	CA-C	8.14	1.62	1.52
1	l	526	ILE	N-CA	-8.14	1.35	1.46
1	6	156	VAL	N-CA	-8.14	1.36	1.46
1	w	564	ALA	CA-C	8.14	1.63	1.52
1	Y	670	GLN	CA-C	8.13	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c	361	GLU	CA-C	8.13	1.64	1.52
1	C	157	LEU	CA-C	-8.12	1.43	1.52
1	O	367	VAL	CA-CB	8.12	1.64	1.54
1	n	220	ASP	CA-C	8.12	1.63	1.52
1	G	182	ASP	CA-C	8.12	1.62	1.53
1	d	481	GLU	CA-C	8.12	1.63	1.52
1	z	224	ILE	CA-C	8.12	1.62	1.52
1	o	445	GLU	CA-CB	8.11	1.67	1.53
1	Z	488	ARG	CA-C	8.11	1.63	1.52
1	U	315	THR	N-CA	8.11	1.56	1.46
1	M	228	GLY	CA-C	8.11	1.60	1.52
1	Y	354	PRO	CA-CB	8.11	1.65	1.53
1	l	477	HIS	CD2-NE2	8.10	1.46	1.37
1	y	668	ILE	N-CA	-8.10	1.37	1.46
1	g	167	TRP	CA-CB	8.09	1.68	1.53
1	p	640	ARG	N-CA	-8.09	1.36	1.46
1	S	557	LYS	N-CA	-8.09	1.36	1.46
1	a	336	ARG	C-N	8.08	1.44	1.33
1	c	150	VAL	N-CA	-8.08	1.37	1.46
1	J	476	ILE	CA-CB	8.08	1.64	1.54
1	b	409	ALA	N-CA	8.07	1.56	1.46
1	2	525	GLU	C-N	8.07	1.44	1.33
1	p	676	SER	CA-CB	8.07	1.66	1.53
1	W	249	ILE	CA-C	-8.07	1.43	1.52
1	r	200	ASN	CA-C	8.06	1.62	1.52
1	l	414	GLN	CA-CB	8.06	1.65	1.53
1	X	636	GLU	CA-CB	8.06	1.65	1.53
1	Z	167	TRP	NE1-CE2	-8.06	1.28	1.37
1	x	434	GLU	C-N	8.05	1.44	1.33
1	M	268	VAL	CA-C	8.05	1.62	1.52
1	U	263	VAL	C-N	8.05	1.42	1.33
1	0	405	ARG	CD-NE	8.05	1.57	1.46
1	z	187	GLU	C-N	8.05	1.43	1.33
1	1	389	LEU	C-N	8.05	1.43	1.33
1	2	487	TYR	CA-C	-8.05	1.41	1.52
1	V	242	GLY	N-CA	8.05	1.57	1.45
1	O	651	TYR	N-CA	8.05	1.56	1.46
1	P	330	GLN	C-N	8.04	1.45	1.33
1	Q	206	HIS	ND1-CE1	8.04	1.40	1.32
1	d	680	GLN	CA-C	8.04	1.64	1.52
1	u	547	GLN	CA-CB	8.04	1.65	1.53
1	s	629	HIS	ND1-CE1	8.04	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	T	485	LYS	CA-CB	8.04	1.66	1.53
1	v	191	HIS	N-CA	-8.03	1.36	1.46
1	L	560	HIS	CG-ND1	8.03	1.47	1.38
1	8	629	HIS	CA-C	8.03	1.63	1.52
1	I	589	LEU	C-N	8.03	1.44	1.33
1	P	675	TYR	CA-CB	8.02	1.67	1.53
1	2	167	TRP	NE1-CE2	8.02	1.46	1.37
1	X	531	PHE	CA-CB	8.02	1.65	1.53
1	f	182	ASP	CA-C	8.02	1.61	1.53
1	i	416	ALA	N-CA	-8.02	1.36	1.46
1	K	347	ILE	C-N	8.02	1.44	1.33
1	8	364	SER	N-CA	8.01	1.56	1.46
1	u	386	LEU	CA-C	8.01	1.60	1.52
1	N	179	GLU	CA-C	-8.01	1.42	1.52
1	Q	411	ILE	CA-CB	-8.01	1.43	1.54
1	1	386	LEU	CA-CB	8.00	1.61	1.54
1	9	527	ILE	CA-CB	-8.00	1.44	1.54
1	A	478	GLU	N-CA	-8.00	1.36	1.46
1	x	326	LYS	C-N	8.00	1.45	1.33
1	D	386	LEU	CA-CB	8.00	1.64	1.53
1	m	267	ASN	N-CA	-7.99	1.36	1.46
1	v	704	HIS	CB-CG	7.99	1.61	1.50
1	a	158	LYS	CA-CB	7.99	1.64	1.53
1	I	679	LEU	CA-CB	7.99	1.64	1.53
1	7	653	MET	CA-C	7.99	1.63	1.52
1	8	231	ARG	CA-CB	7.99	1.64	1.53
1	5	655	ARG	CD-NE	7.98	1.57	1.46
1	e	240	ASP	C-N	7.98	1.42	1.34
1	5	221	LEU	CA-CB	7.98	1.68	1.53
1	l	214	THR	CA-C	-7.98	1.43	1.52
1	4	399	LYS	N-CA	7.97	1.55	1.46
1	c	410	ASP	C-N	7.97	1.42	1.33
1	K	701	GLN	CA-C	-7.97	1.42	1.52
1	e	205	SER	CA-C	7.97	1.62	1.52
1	q	568	ILE	CA-C	-7.97	1.43	1.52
1	J	416	ALA	CA-C	7.97	1.63	1.52
1	C	295	LYS	CA-CB	-7.97	1.47	1.52
1	P	331	GLN	CA-CB	7.97	1.65	1.53
1	n	701	GLN	CA-CB	7.96	1.65	1.53
1	k	346	GLU	C-N	7.96	1.43	1.33
1	u	225	ASP	CA-C	7.95	1.63	1.52
1	Z	178	LEU	CA-C	-7.95	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	U	323	MET	CA-C	7.94	1.62	1.52
1	n	500	THR	CA-C	-7.94	1.42	1.52
1	3	459	LYS	C-N	7.94	1.44	1.33
1	M	269	ASP	CA-CB	7.94	1.64	1.53
1	K	520	LEU	CA-C	7.93	1.62	1.52
1	I	490	LYS	N-CA	7.93	1.55	1.46
1	U	247	ALA	CA-C	7.93	1.63	1.52
1	2	493	LEU	C-N	7.93	1.42	1.33
1	b	182	ASP	CA-CB	7.92	1.66	1.52
1	a	191	HIS	ND1-CE1	7.92	1.40	1.32
1	t	560	HIS	ND1-CE1	7.92	1.40	1.32
1	D	133	SER	C-O	-7.92	1.14	1.24
1	J	428	MET	CA-C	-7.91	1.42	1.52
1	Q	353	HIS	ND1-CE1	7.91	1.40	1.32
1	g	583	GLN	C-N	7.91	1.42	1.34
1	k	215	SER	CA-C	7.91	1.61	1.52
1	Q	98	ARG	CA-C	7.91	1.62	1.52
1	M	560	HIS	ND1-CE1	7.90	1.40	1.32
1	e	188	LYS	CA-CB	7.90	1.66	1.53
1	k	191	HIS	ND1-CE1	7.90	1.40	1.32
1	n	526	ILE	C-N	7.90	1.43	1.33
1	j	708	GLN	CA-CB	7.89	1.65	1.53
1	F	317	PRO	CA-C	7.89	1.61	1.53
1	w	222	THR	N-CA	7.89	1.56	1.46
1	P	552	THR	N-CA	7.89	1.55	1.46
1	t	376	THR	N-CA	7.89	1.55	1.46
1	K	410	ASP	C-N	7.89	1.42	1.33
1	o	346	GLU	N-CA	-7.88	1.36	1.46
1	N	301	ARG	CD-NE	7.88	1.57	1.46
1	V	204	ILE	CA-CB	-7.88	1.45	1.54
1	b	518	SER	CA-C	-7.87	1.42	1.52
1	i	110	LEU	N-CA	7.87	1.56	1.46
1	j	659	ASP	CA-CB	7.87	1.65	1.53
1	r	381	HIS	ND1-CE1	7.87	1.40	1.32
1	9	501	PHE	CA-C	7.87	1.62	1.52
1	7	259	ILE	CA-C	7.86	1.61	1.52
1	g	554	GLU	C-N	7.86	1.43	1.33
1	q	629	HIS	CD2-NE2	-7.86	1.29	1.37
1	z	288	ARG	C-O	-7.86	1.18	1.23
1	P	689	ARG	CD-NE	7.86	1.57	1.46
1	f	397	HIS	ND1-CE1	7.86	1.40	1.32
1	D	160	LYS	CA-C	7.86	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	U	262	VAL	CA-C	7.86	1.62	1.52
1	6	645	ILE	CA-CB	-7.85	1.44	1.54
1	L	360	LEU	C-N	7.85	1.43	1.33
1	a	237	GLN	C-N	-7.85	1.26	1.33
1	7	209	ILE	CA-CB	7.85	1.64	1.54
1	e	175	ASN	N-CA	-7.85	1.35	1.46
1	m	586	SER	CA-CB	7.85	1.65	1.53
1	x	102	ASP	CA-C	7.85	1.62	1.52
1	W	623	PHE	CA-C	7.84	1.63	1.52
1	q	206	HIS	ND1-CE1	7.84	1.40	1.32
1	S	196	VAL	C-N	7.84	1.44	1.33
1	K	636	GLU	C-O	-7.84	1.14	1.24
1	B	703	ARG	CA-C	7.83	1.62	1.52
1	P	668	ILE	CA-CB	-7.83	1.45	1.54
1	i	448	THR	N-CA	7.83	1.55	1.46
1	t	288	ARG	CA-C	-7.83	1.42	1.52
1	Q	378	LEU	CA-CB	7.83	1.65	1.53
1	T	682	GLN	CA-CB	7.83	1.65	1.53
1	0	703	ARG	CA-C	-7.83	1.42	1.52
1	V	238	PRO	CA-CB	7.83	1.64	1.53
1	Y	291	GLY	CA-C	-7.83	1.46	1.52
1	5	229	ILE	C-N	7.82	1.44	1.33
1	d	182	ASP	CA-CB	7.82	1.65	1.53
1	7	225	ASP	CA-CB	7.82	1.63	1.53
1	9	542	PHE	CA-CB	7.82	1.62	1.52
1	D	234	VAL	C-N	7.82	1.44	1.33
1	j	465	LEU	CA-C	7.82	1.62	1.52
1	4	543	PHE	CA-C	7.82	1.62	1.52
1	b	102	ASP	CA-CB	7.82	1.65	1.53
1	v	506	HIS	ND1-CE1	7.82	1.40	1.32
1	M	400	ALA	N-CA	-7.82	1.36	1.46
1	Z	203	GLY	CA-C	7.82	1.62	1.51
1	o	503	ILE	CA-C	7.81	1.62	1.52
1	O	546	ASN	N-CA	-7.81	1.36	1.46
1	e	122	ALA	CA-C	7.81	1.62	1.52
1	N	647	PHE	CA-CB	7.81	1.65	1.53
1	K	401	THR	N-CA	7.81	1.55	1.46
1	v	557	LYS	C-N	7.80	1.43	1.33
1	X	157	LEU	N-CA	-7.80	1.36	1.46
1	Q	592	VAL	CA-C	-7.80	1.42	1.52
1	A	122	ALA	CA-C	7.80	1.62	1.52
1	F	353	HIS	ND1-CE1	7.79	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3	437	VAL	CA-C	7.79	1.62	1.52
1	U	187	GLU	CA-CB	7.79	1.65	1.53
1	X	384	LYS	CA-CB	7.79	1.65	1.53
1	i	312	ARG	CD-NE	7.78	1.57	1.46
1	R	174	ARG	CD-NE	7.78	1.57	1.46
1	a	421	PHE	CA-C	7.78	1.62	1.52
1	h	104	ILE	CA-C	-7.78	1.43	1.52
1	m	691	ILE	CB-CG1	7.78	1.69	1.53
1	8	179	GLU	CA-CB	7.77	1.63	1.53
1	V	510	GLN	N-CA	7.77	1.55	1.46
1	c	204	ILE	CA-CB	-7.77	1.45	1.54
1	y	644	GLN	CA-C	-7.77	1.43	1.52
1	8	367	VAL	CA-C	7.77	1.61	1.52
1	R	364	SER	CA-CB	7.76	1.64	1.53
1	p	645	ILE	CA-CB	7.76	1.58	1.54
1	p	191	HIS	ND1-CE1	7.76	1.40	1.32
1	L	649	ILE	C-N	7.76	1.44	1.33
1	b	168	ALA	N-CA	-7.75	1.36	1.45
1	3	155	LEU	CA-CB	7.75	1.65	1.53
1	a	474	ASN	CA-C	7.75	1.63	1.52
1	H	291	GLY	C-N	7.75	1.43	1.33
1	3	527	ILE	CA-CB	7.74	1.64	1.54
1	V	552	THR	N-CA	7.74	1.55	1.46
1	3	140	GLY	CA-C	-7.74	1.41	1.51
1	S	110	LEU	CA-C	-7.74	1.43	1.52
1	V	229	ILE	CA-C	7.74	1.61	1.52
1	G	227	PRO	C-N	7.73	1.41	1.33
1	v	710	SER	CA-CB	7.73	1.66	1.53
1	C	632	ALA	CA-C	7.73	1.62	1.52
1	8	206	HIS	CG-CD2	-7.73	1.27	1.35
1	O	635	LEU	CA-CB	7.73	1.65	1.53
1	6	663	LYS	CA-C	7.73	1.62	1.52
1	0	244	GLN	C-N	7.72	1.43	1.33
1	O	121	ILE	CA-C	-7.72	1.42	1.52
1	W	194	GLN	CA-C	-7.72	1.43	1.52
1	c	152	ARG	CD-NE	7.72	1.57	1.46
1	Y	379	ILE	N-CA	-7.72	1.37	1.46
1	W	456	GLU	CA-C	7.71	1.62	1.52
1	T	382	ILE	C-N	7.71	1.44	1.33
1	v	206	HIS	CD2-NE2	7.71	1.46	1.37
1	G	196	VAL	N-CA	-7.71	1.37	1.46
1	V	643	ASN	CA-C	-7.71	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j	373	ARG	CD-NE	7.71	1.57	1.46
1	w	102	ASP	CA-C	7.70	1.62	1.52
1	Q	489	GLY	CA-C	-7.70	1.43	1.51
1	v	427	LYS	CA-C	7.70	1.62	1.52
1	a	366	THR	CA-CB	7.70	1.66	1.53
1	L	638	SER	N-CA	-7.70	1.37	1.46
1	a	256	GLN	N-CA	7.70	1.55	1.46
1	u	569	GLN	CA-C	7.70	1.62	1.52
1	P	550	GLN	CA-CB	7.69	1.65	1.53
1	B	503	ILE	CA-C	-7.69	1.42	1.52
1	s	561	THR	N-CA	7.69	1.55	1.46
1	p	157	LEU	CA-CB	7.69	1.64	1.53
1	A	488	ARG	C-O	-7.69	1.14	1.24
1	x	231	ARG	CD-NE	7.68	1.57	1.46
1	4	157	LEU	CA-C	-7.68	1.43	1.52
1	I	661	LEU	CA-CB	7.68	1.65	1.53
1	F	259	ILE	CA-C	7.68	1.62	1.52
1	J	692	LEU	CA-C	7.68	1.62	1.52
1	2	628	ILE	N-CA	7.68	1.55	1.46
1	v	120	ALA	C-N	7.68	1.41	1.33
1	E	563	LYS	CA-C	7.68	1.62	1.52
1	Q	367	VAL	CA-CB	-7.68	1.44	1.54
1	W	408	GLY	CA-C	7.68	1.62	1.51
1	5	319	LYS	N-CA	-7.68	1.35	1.46
1	7	420	PHE	C-N	7.68	1.44	1.33
1	H	316	TYR	C-O	-7.67	1.18	1.25
1	G	268	VAL	C-N	7.67	1.44	1.33
1	P	374	LEU	CA-C	7.67	1.62	1.52
1	P	630	LEU	CA-C	-7.67	1.43	1.52
1	m	364	SER	CA-CB	7.67	1.66	1.53
1	I	702	ALA	C-N	7.67	1.44	1.33
1	p	436	LEU	CA-CB	7.67	1.65	1.53
1	8	313	ASN	C-N	7.67	1.44	1.33
1	m	98	ARG	N-CA	7.67	1.53	1.46
1	P	298	LEU	N-CA	-7.67	1.37	1.46
1	1	280	HIS	ND1-CE1	7.66	1.40	1.32
1	H	218	VAL	CA-C	7.66	1.60	1.52
1	K	454	ILE	CA-C	7.66	1.62	1.52
1	p	170	ARG	CA-C	-7.66	1.43	1.52
1	b	160	LYS	C-N	7.66	1.44	1.33
1	H	382	ILE	C-N	7.66	1.44	1.33
1	y	297	ASP	C-N	7.66	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	295	LYS	CA-C	-7.66	1.48	1.53
1	P	484	GLU	N-CA	-7.66	1.35	1.46
1	o	135	LEU	N-CA	-7.66	1.37	1.46
1	u	299	MET	CA-C	7.66	1.63	1.52
1	F	105	ASP	CA-C	7.65	1.62	1.52
1	T	695	ARG	CA-CB	7.65	1.65	1.53
1	j	360	LEU	CA-C	7.65	1.60	1.53
1	K	469	THR	CA-C	7.65	1.63	1.52
1	4	280	HIS	CE1-NE2	7.65	1.40	1.32
1	w	382	ILE	CA-C	-7.65	1.43	1.52
1	B	447	GLU	CA-C	-7.65	1.43	1.52
1	L	667	GLN	C-N	7.65	1.43	1.34
1	p	680	GLN	CA-C	7.65	1.62	1.52
1	U	538	HIS	C-N	7.65	1.43	1.33
1	h	528	GLN	CA-CB	7.64	1.65	1.53
1	C	380	MET	CA-CB	7.64	1.65	1.53
1	u	481	GLU	N-CA	7.64	1.55	1.46
1	d	113	GLU	C-N	7.64	1.44	1.33
1	G	220	ASP	N-CA	-7.63	1.37	1.46
1	L	197	MET	N-CA	7.63	1.55	1.46
1	t	638	SER	CA-C	-7.63	1.42	1.52
1	4	444	ARG	CZ-NH2	-7.63	1.23	1.33
1	a	174	ARG	CA-CB	7.63	1.64	1.53
1	J	506	HIS	CD2-NE2	7.63	1.46	1.37
1	Q	694	GLU	CA-C	7.63	1.62	1.52
1	g	457	ASP	N-CA	-7.63	1.37	1.46
1	Q	540	GLY	N-CA	7.63	1.55	1.45
1	2	495	PHE	C-N	7.62	1.42	1.33
1	U	236	ASN	CA-CB	7.62	1.63	1.53
1	7	291	GLY	CA-C	7.62	1.57	1.52
1	8	397	HIS	ND1-CE1	7.62	1.40	1.32
1	h	478	GLU	C-N	7.62	1.44	1.33
1	r	437	VAL	N-CA	-7.62	1.37	1.46
1	t	360	LEU	C-N	7.62	1.43	1.33
1	G	564	ALA	N-CA	-7.62	1.36	1.46
1	R	280	HIS	ND1-CE1	7.62	1.40	1.32
1	e	565	GLU	CA-C	7.62	1.62	1.52
1	l	315	THR	CA-C	7.62	1.62	1.52
1	z	185	GLN	CA-C	7.62	1.63	1.52
1	g	595	GLU	C-N	7.62	1.44	1.33
1	R	554	GLU	CA-C	7.62	1.63	1.52
1	2	144	PRO	N-CA	7.61	1.56	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	u	154	PRO	CA-CB	7.61	1.63	1.53
1	H	97	VAL	CA-CB	-7.61	1.45	1.54
1	f	384	LYS	CA-C	-7.60	1.42	1.52
1	M	260	ASN	CA-CB	7.60	1.62	1.53
1	P	397	HIS	CA-CB	7.60	1.65	1.53
1	a	521	GLN	C-N	7.60	1.44	1.33
1	P	678	LEU	CA-CB	7.60	1.65	1.53
1	k	225	ASP	CA-C	-7.60	1.43	1.53
1	g	682	GLN	CA-CB	7.59	1.64	1.53
1	t	706	LEU	CA-CB	7.59	1.65	1.53
1	K	312	ARG	CD-NE	7.59	1.56	1.46
1	C	585	TYR	N-CA	7.59	1.55	1.46
1	Q	592	VAL	N-CA	-7.59	1.37	1.46
1	U	143	LEU	CA-C	7.59	1.60	1.53
1	E	464	ILE	CA-C	-7.59	1.43	1.52
1	Z	191	HIS	ND1-CE1	7.59	1.40	1.32
1	w	629	HIS	ND1-CE1	7.59	1.40	1.32
1	S	418	LYS	CA-C	7.59	1.62	1.52
1	E	214	THR	CA-C	-7.58	1.43	1.52
1	H	635	LEU	CA-C	7.58	1.62	1.52
1	K	110	LEU	CA-C	7.58	1.62	1.52
1	c	239	ARG	CD-NE	7.58	1.56	1.46
1	O	263	VAL	CA-C	7.58	1.61	1.52
1	g	464	ILE	C-N	7.57	1.43	1.33
1	g	506	HIS	ND1-CE1	7.57	1.40	1.32
1	2	513	VAL	N-CA	-7.57	1.36	1.46
1	H	493	LEU	CA-CB	7.57	1.65	1.53
1	l	492	LEU	CA-CB	7.57	1.64	1.53
1	2	242	GLY	CA-C	7.56	1.60	1.52
1	s	676	SER	C-N	7.56	1.44	1.33
1	0	154	PRO	CA-CB	7.56	1.63	1.53
1	1	193	ALA	N-CA	-7.56	1.37	1.46
1	P	524	MET	CA-C	-7.56	1.43	1.52
1	r	636	GLU	CA-CB	7.56	1.65	1.53
1	J	114	GLN	C-N	7.56	1.44	1.33
1	w	698	ARG	CA-CB	7.55	1.65	1.53
1	4	150	VAL	N-CA	-7.55	1.38	1.46
1	N	236	ASN	C-N	7.55	1.43	1.33
1	q	689	ARG	C-N	7.55	1.43	1.33
1	t	583	GLN	C-N	7.55	1.44	1.33
1	G	432	ASP	CA-CB	7.55	1.65	1.53
1	d	477	HIS	ND1-CE1	7.54	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	397	HIS	CB-CG	7.54	1.60	1.50
1	b	449	ARG	CD-NE	7.54	1.56	1.46
1	x	381	HIS	ND1-CE1	7.54	1.40	1.32
1	W	560	HIS	ND1-CE1	7.54	1.40	1.32
1	J	634	PHE	CA-CB	7.54	1.65	1.53
1	O	112	VAL	CA-C	7.54	1.61	1.52
1	P	118	LEU	CA-CB	7.54	1.65	1.53
1	3	340	ALA	CA-C	-7.54	1.43	1.52
1	2	652	PHE	CA-C	7.54	1.62	1.52
1	q	316	TYR	C-N	7.54	1.43	1.34
1	T	138	LEU	CA-CB	7.53	1.65	1.53
1	g	429	PHE	CA-C	7.53	1.62	1.52
1	j	664	ALA	N-CA	-7.53	1.37	1.46
1	Y	281	GLU	C-N	7.53	1.41	1.33
1	D	593	ARG	CD-NE	7.53	1.56	1.46
1	F	310	VAL	C-N	-7.53	1.24	1.33
1	h	335	ASN	CA-CB	7.52	1.65	1.53
1	a	206	HIS	CG-ND1	7.52	1.46	1.38
1	e	373	ARG	CD-NE	7.52	1.56	1.46
1	o	171	ILE	CA-C	7.52	1.62	1.52
1	z	182	ASP	CA-C	7.52	1.60	1.52
1	R	196	VAL	CA-CB	-7.52	1.45	1.54
1	7	353	HIS	CD2-NE2	7.52	1.46	1.37
1	X	269	ASP	C-N	7.52	1.43	1.33
1	I	292	ILE	C-N	7.51	1.44	1.33
1	K	208	LEU	C-N	7.51	1.42	1.33
1	l	410	ASP	C-N	7.51	1.43	1.33
1	0	181	GLN	CA-C	7.51	1.62	1.52
1	a	331	GLN	C-N	7.51	1.43	1.33
1	q	706	LEU	CA-CB	7.51	1.65	1.53
1	u	364	SER	C-N	7.50	1.42	1.33
1	7	629	HIS	CE1-NE2	7.50	1.40	1.32
1	L	213	ILE	N-CA	-7.50	1.37	1.46
1	S	290	ILE	CA-CB	-7.50	1.44	1.54
1	W	485	LYS	N-CA	7.50	1.55	1.46
1	8	320	LYS	CA-CB	7.50	1.63	1.53
1	V	696	ILE	CA-C	7.50	1.62	1.52
1	3	397	HIS	C-O	-7.50	1.15	1.24
1	g	112	VAL	C-O	-7.50	1.16	1.24
1	W	506	HIS	N-CA	7.49	1.55	1.46
1	Q	333	ILE	C-N	7.49	1.44	1.34
1	g	594	GLU	C-N	7.49	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i	645	ILE	C-N	7.49	1.44	1.34
1	p	472	VAL	CA-CB	-7.49	1.43	1.54
1	X	677	TRP	CA-CB	7.49	1.64	1.54
1	1	703	ARG	CD-NE	7.49	1.56	1.46
1	D	133	SER	C-N	7.49	1.42	1.33
1	f	295	LYS	CA-CB	7.48	1.57	1.52
1	P	419	MET	N-CA	7.48	1.54	1.46
1	Q	629	HIS	ND1-CE1	7.48	1.40	1.32
1	a	635	LEU	CA-CB	7.48	1.65	1.53
1	s	114	GLN	N-CA	7.48	1.55	1.46
1	s	353	HIS	CB-CG	7.48	1.60	1.50
1	s	132	SER	C-N	7.48	1.43	1.33
1	2	362	GLU	CA-CB	7.48	1.65	1.53
1	y	367	VAL	CA-C	7.48	1.60	1.52
1	6	259	ILE	CA-C	7.47	1.61	1.52
1	D	200	ASN	CA-C	7.47	1.62	1.52
1	W	690	ARG	CD-NE	7.47	1.56	1.46
1	f	164	CYS	CA-C	7.47	1.62	1.52
1	0	280	HIS	CD2-NE2	7.47	1.46	1.37
1	m	393	ILE	N-CA	-7.47	1.37	1.46
1	F	448	THR	C-N	7.46	1.43	1.33
1	n	366	THR	C-N	7.46	1.41	1.33
1	1	241	ILE	CA-C	-7.46	1.43	1.52
1	8	484	GLU	N-CA	-7.46	1.37	1.46
1	j	545	LEU	C-N	7.46	1.43	1.33
1	y	220	ASP	CA-CB	7.46	1.62	1.52
1	A	671	GLU	CA-CB	7.46	1.63	1.53
1	N	538	HIS	CG-CD2	7.46	1.44	1.35
1	f	690	ARG	CA-CB	7.46	1.65	1.53
1	7	690	ARG	CD-NE	7.46	1.56	1.46
1	f	450	LEU	CA-CB	7.45	1.65	1.53
1	M	392	GLN	N-CA	7.45	1.55	1.46
1	f	515	PRO	N-CD	7.45	1.58	1.47
1	A	652	PHE	N-CA	7.45	1.55	1.46
1	P	501	PHE	CA-C	7.45	1.62	1.52
1	z	678	LEU	C-N	7.45	1.43	1.33
1	i	378	LEU	C-N	7.44	1.43	1.33
1	U	211	LEU	CA-C	-7.44	1.43	1.52
1	4	338	SER	N-CA	7.44	1.55	1.45
1	x	238	PRO	N-CA	-7.44	1.37	1.47
1	I	562	ALA	CA-CB	7.44	1.65	1.53
1	2	397	HIS	CA-CB	7.44	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9	561	THR	CA-CB	7.44	1.65	1.53
1	K	378	LEU	N-CA	7.44	1.55	1.46
1	L	538	HIS	CD2-NE2	7.44	1.46	1.37
1	O	93	TYR	C-N	7.44	1.44	1.34
1	c	312	ARG	C-O	-7.43	1.15	1.24
1	I	212	GLU	C-N	7.43	1.43	1.33
1	I	291	GLY	CA-C	-7.43	1.45	1.51
1	7	284	PRO	CA-CB	7.43	1.64	1.53
1	W	319	LYS	C-N	7.43	1.43	1.33
1	h	534	VAL	CA-CB	7.43	1.63	1.54
1	l	353	HIS	ND1-CE1	7.42	1.40	1.32
1	H	243	LEU	CA-CB	7.42	1.64	1.53
1	y	244	GLN	CA-CB	7.42	1.65	1.53
1	z	680	GLN	CA-C	7.42	1.62	1.52
1	i	671	GLU	CA-CB	7.42	1.64	1.53
1	3	339	LEU	CA-C	-7.42	1.43	1.52
1	K	203	GLY	N-CA	7.42	1.56	1.45
1	g	179	GLU	CA-C	-7.42	1.43	1.52
1	t	660	SER	CA-CB	7.42	1.64	1.53
1	G	381	HIS	ND1-CE1	7.42	1.40	1.32
1	n	649	ILE	CA-C	7.42	1.61	1.52
1	p	464	ILE	C-N	7.42	1.44	1.33
1	D	253	ILE	CA-CB	-7.42	1.46	1.54
1	b	208	LEU	CA-CB	7.41	1.66	1.53
1	n	675	TYR	CA-CB	7.41	1.65	1.53
1	s	530	ALA	C-N	7.41	1.43	1.33
1	x	178	LEU	C-N	7.41	1.44	1.33
1	V	176	THR	N-CA	7.41	1.54	1.46
1	W	263	VAL	CA-C	7.41	1.62	1.52
1	9	316	TYR	CA-CB	7.41	1.64	1.52
1	f	366	THR	C-N	7.41	1.41	1.33
1	E	104	ILE	N-CA	7.41	1.55	1.46
1	H	506	HIS	ND1-CE1	7.41	1.40	1.32
1	5	391	GLY	CA-C	-7.41	1.43	1.51
1	D	230	THR	CA-C	-7.41	1.42	1.52
1	B	381	HIS	ND1-CE1	7.40	1.40	1.32
1	X	242	GLY	C-N	7.40	1.43	1.33
1	2	123	VAL	C-N	7.40	1.42	1.33
1	f	546	ASN	N-CA	-7.40	1.37	1.46
1	r	295	LYS	CA-CB	7.40	1.57	1.52
1	E	649	ILE	CA-C	7.40	1.61	1.52
1	T	411	ILE	CB-CG1	7.40	1.68	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h	312	ARG	CD-NE	7.40	1.56	1.46
1	K	494	GLY	C-N	7.39	1.43	1.33
1	4	543	PHE	C-N	7.39	1.43	1.33
1	e	287	ASP	CA-CB	7.39	1.64	1.53
1	D	704	HIS	ND1-CE1	7.39	1.40	1.32
1	G	486	GLN	CA-CB	7.39	1.62	1.54
1	H	223	ILE	CA-CB	-7.39	1.47	1.55
1	w	314	LEU	CA-CB	7.39	1.63	1.53
1	j	455	ARG	C-N	7.38	1.43	1.33
1	H	242	GLY	C-N	7.38	1.43	1.33
1	K	419	MET	C-N	7.38	1.43	1.33
1	X	236	ASN	CA-CB	7.38	1.63	1.53
1	l	689	ARG	CA-CB	7.38	1.65	1.53
1	C	658	GLY	CA-C	-7.38	1.41	1.51
1	T	104	ILE	C-N	7.38	1.43	1.33
1	v	179	GLU	CA-CB	7.38	1.63	1.53
1	C	398	GLN	CA-CB	7.38	1.64	1.53
1	o	593	ARG	CA-CB	7.37	1.64	1.53
1	Q	265	PRO	N-CD	-7.37	1.37	1.47
1	W	111	GLY	N-CA	-7.37	1.38	1.44
1	W	218	VAL	N-CA	7.37	1.55	1.46
1	b	265	PRO	CA-C	7.37	1.61	1.52
1	s	549	VAL	N-CA	-7.37	1.38	1.46
1	H	373	ARG	CD-NE	7.37	1.56	1.46
1	9	432	ASP	C-N	7.37	1.43	1.33
1	d	587	VAL	CA-C	7.37	1.62	1.52
1	z	386	LEU	CA-CB	7.37	1.62	1.53
1	7	691	ILE	C-O	-7.36	1.15	1.24
1	K	506	HIS	CD2-NE2	7.36	1.46	1.37
1	s	242	GLY	CA-C	-7.36	1.43	1.52
1	S	403	GLU	C-N	7.36	1.43	1.33
1	5	568	ILE	C-N	7.36	1.43	1.33
1	2	692	LEU	C-N	7.36	1.42	1.33
1	G	671	GLU	CA-CB	7.35	1.62	1.53
1	e	280	HIS	C-N	7.35	1.43	1.33
1	q	453	LYS	C-N	7.35	1.43	1.33
1	E	525	GLU	N-CA	-7.35	1.37	1.46
1	Q	645	ILE	C-O	-7.35	1.15	1.24
1	R	510	GLN	CA-C	7.35	1.62	1.52
1	h	225	ASP	CA-C	7.35	1.62	1.52
1	Y	512	LEU	N-CA	-7.35	1.36	1.46
1	f	533	ASN	CA-C	7.35	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	288	ARG	N-CA	7.35	1.53	1.46
1	I	215	SER	CA-CB	7.35	1.65	1.53
1	4	267	ASN	CA-CB	7.34	1.64	1.53
1	7	381	HIS	N-CA	7.34	1.55	1.46
1	p	220	ASP	CA-CB	7.34	1.62	1.52
1	s	549	VAL	CA-CB	-7.34	1.45	1.54
1	j	506	HIS	CB-CG	7.34	1.60	1.50
1	L	105	ASP	CA-C	-7.34	1.42	1.52
1	8	577	MET	C-N	7.34	1.42	1.33
1	S	191	HIS	ND1-CE1	7.34	1.39	1.32
1	J	295	LYS	C-O	-7.33	1.20	1.23
1	J	289	THR	CA-C	-7.33	1.43	1.52
1	V	399	LYS	CA-CB	7.33	1.64	1.53
1	m	655	ARG	N-CA	-7.33	1.37	1.46
1	8	206	HIS	ND1-CE1	7.33	1.39	1.32
1	f	97	VAL	CA-CB	7.33	1.62	1.54
1	r	193	ALA	N-CA	-7.33	1.37	1.46
1	l	707	CYS	CA-CB	7.33	1.64	1.53
1	y	477	HIS	CG-CD2	7.33	1.44	1.35
1	l	590	LYS	C-N	7.33	1.43	1.34
1	9	335	ASN	CA-CB	7.33	1.64	1.53
1	n	645	ILE	C-O	-7.32	1.15	1.24
1	E	118	LEU	CA-C	7.32	1.61	1.52
1	4	449	ARG	CA-CB	7.32	1.65	1.53
1	9	111	GLY	C-N	7.32	1.43	1.33
1	e	405	ARG	CZ-NH2	-7.32	1.24	1.33
1	E	134	VAL	CA-CB	7.32	1.63	1.54
1	p	386	LEU	CA-C	7.32	1.62	1.52
1	z	547	GLN	C-N	7.32	1.42	1.33
1	Z	231	ARG	CA-C	-7.32	1.43	1.52
1	n	429	PHE	C-N	7.31	1.43	1.33
1	Q	660	SER	N-CA	7.31	1.55	1.46
1	h	198	ALA	C-N	7.31	1.42	1.33
1	O	204	ILE	CA-CB	-7.31	1.46	1.54
1	4	475	ILE	CA-CB	-7.31	1.45	1.54
1	t	550	GLN	CA-C	-7.31	1.43	1.52
1	f	423	ILE	C-N	7.31	1.43	1.33
1	V	282	VAL	CA-C	7.31	1.62	1.53
1	7	440	GLU	C-N	7.31	1.43	1.33
1	m	203	GLY	C-N	7.31	1.42	1.33
1	L	516	ALA	N-CA	-7.31	1.37	1.46
1	T	555	ASP	C-N	7.31	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	U	535	ALA	CA-C	7.31	1.62	1.52
1	g	277	SER	CA-CB	7.31	1.64	1.53
1	1	294	THR	N-CA	-7.30	1.36	1.45
1	1	170	ARG	CA-C	-7.30	1.43	1.52
1	7	397	HIS	ND1-CE1	7.30	1.39	1.32
1	f	527	ILE	C-N	7.30	1.43	1.33
1	o	494	GLY	CA-C	7.30	1.62	1.51
1	u	517	LEU	C-N	7.30	1.43	1.33
1	P	265	PRO	CA-C	7.30	1.61	1.52
1	E	674	ARG	C-N	7.30	1.43	1.33
1	B	135	LEU	CA-C	7.30	1.62	1.52
1	V	462	VAL	C-N	7.30	1.43	1.33
1	9	640	ARG	CA-C	7.30	1.62	1.52
1	i	652	PHE	CA-C	-7.30	1.43	1.52
1	U	477	HIS	CA-CB	7.30	1.65	1.53
1	K	106	SER	CA-C	-7.29	1.43	1.52
1	l	313	ASN	CA-CB	7.29	1.64	1.53
1	D	519	MET	N-CA	-7.29	1.37	1.46
1	T	381	HIS	CA-CB	7.29	1.65	1.53
1	X	226	LEU	CA-CB	7.29	1.63	1.53
1	6	229	ILE	CA-CB	7.29	1.62	1.53
1	v	311	VAL	N-CA	-7.29	1.38	1.46
1	T	423	ILE	C-N	7.29	1.43	1.33
1	0	643	ASN	C-N	7.28	1.43	1.33
1	L	189	GLU	C-N	7.28	1.42	1.33
1	b	310	VAL	CA-C	-7.28	1.42	1.52
1	0	145	ARG	CD-NE	7.28	1.56	1.46
1	7	324	ILE	N-CA	7.28	1.55	1.46
1	d	411	ILE	C-N	7.28	1.43	1.33
1	n	268	VAL	C-N	7.28	1.43	1.33
1	C	662	GLN	CA-CB	7.28	1.64	1.53
1	H	570	LEU	C-N	7.28	1.43	1.33
1	7	237	GLN	C-N	7.28	1.42	1.33
1	b	307	VAL	N-CA	7.28	1.55	1.46
1	f	167	TRP	NE1-CE2	7.28	1.45	1.37
1	k	561	THR	C-N	7.28	1.43	1.33
1	R	579	PHE	C-N	7.28	1.42	1.33
1	5	545	LEU	C-N	7.27	1.43	1.33
1	X	446	ASN	CA-C	7.27	1.62	1.52
1	s	628	ILE	CA-CB	-7.27	1.45	1.54
1	o	568	ILE	C-N	7.27	1.43	1.33
1	p	103	LEU	N-CA	-7.27	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	671	GLU	CA-C	7.27	1.61	1.52
1	c	560	HIS	C-N	7.27	1.43	1.33
1	D	355	TYR	CA-CB	7.27	1.66	1.53
1	I	423	ILE	C-N	-7.27	1.24	1.33
1	D	578	VAL	C-N	7.26	1.44	1.33
1	I	366	THR	N-CA	7.26	1.55	1.46
1	3	336	ARG	CA-CB	7.26	1.64	1.53
1	6	545	LEU	CA-C	7.26	1.62	1.52
1	t	306	SER	CA-CB	7.26	1.64	1.53
1	Q	147	SER	CA-CB	7.26	1.62	1.52
1	T	558	VAL	N-CA	-7.26	1.37	1.46
1	C	527	ILE	CA-CB	-7.26	1.46	1.54
1	g	124	ILE	CA-CB	7.26	1.62	1.54
1	q	255	ARG	CD-NE	7.26	1.56	1.46
1	V	226	LEU	C-N	7.26	1.42	1.33
1	V	414	GLN	N-CA	-7.25	1.36	1.45
1	h	490	LYS	CA-C	-7.25	1.43	1.52
1	Z	380	MET	CA-C	7.25	1.62	1.52
1	9	450	LEU	CA-CB	7.25	1.64	1.53
1	o	134	VAL	CA-C	7.25	1.61	1.52
1	f	227	PRO	C-N	7.24	1.39	1.33
1	j	593	ARG	NE-CZ	-7.24	1.25	1.33
1	v	280	HIS	ND1-CE1	7.24	1.39	1.32
1	J	147	SER	C-N	7.24	1.42	1.33
1	N	280	HIS	ND1-CE1	7.24	1.39	1.32
1	W	674	ARG	CD-NE	7.24	1.56	1.46
1	3	345	LYS	CA-C	7.24	1.62	1.52
1	d	653	MET	C-N	7.24	1.42	1.33
1	s	549	VAL	CA-C	7.24	1.61	1.52
1	3	357	ARG	CA-C	7.24	1.62	1.52
1	U	577	MET	CA-CB	7.24	1.64	1.53
1	4	377	GLU	CA-CB	7.24	1.64	1.53
1	X	378	LEU	C-N	-7.24	1.24	1.33
1	f	674	ARG	N-CA	-7.24	1.36	1.46
1	q	583	GLN	CA-CB	7.24	1.66	1.53
1	s	477	HIS	ND1-CE1	7.24	1.39	1.32
1	V	341	GLU	CA-C	7.24	1.62	1.52
1	X	218	VAL	CA-C	7.24	1.60	1.52
1	1	311	VAL	CA-C	-7.23	1.44	1.52
1	1	674	ARG	CZ-NH2	-7.23	1.24	1.33
1	m	344	LYS	N-CA	-7.23	1.37	1.46
1	x	584	ILE	C-N	7.23	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	z	506	HIS	CG-CD2	7.23	1.43	1.35
1	L	326	LYS	CA-C	7.23	1.62	1.52
1	n	351	GLN	CA-C	7.23	1.62	1.52
1	f	346	GLU	CA-CB	7.23	1.64	1.53
1	f	477	HIS	ND1-CE1	7.23	1.39	1.32
1	A	665	MET	N-CA	-7.23	1.37	1.46
1	C	239	ARG	CD-NE	7.23	1.56	1.46
1	6	378	LEU	N-CA	-7.22	1.37	1.46
1	i	527	ILE	C-N	7.22	1.43	1.33
1	r	170	ARG	CA-CB	7.22	1.63	1.53
1	S	482	LYS	C-N	7.22	1.43	1.33
1	1	669	LEU	N-CA	-7.22	1.36	1.46
1	c	117	ALA	N-CA	-7.22	1.37	1.46
1	d	167	TRP	CA-CB	7.22	1.65	1.53
1	m	681	GLU	CA-C	-7.22	1.43	1.52
1	J	676	SER	CA-CB	7.22	1.64	1.53
1	M	220	ASP	N-CA	-7.22	1.37	1.46
1	U	181	GLN	CA-C	7.22	1.63	1.53
1	W	312	ARG	CD-NE	7.22	1.56	1.46
1	e	225	ASP	CA-CB	7.22	1.64	1.53
1	1	538	HIS	ND1-CE1	7.22	1.39	1.32
1	b	326	LYS	CA-C	-7.22	1.44	1.52
1	m	397	HIS	ND1-CE1	7.22	1.39	1.32
1	p	249	ILE	CA-C	7.22	1.61	1.52
1	d	390	GLU	CA-CB	7.21	1.64	1.53
1	n	297	ASP	CA-CB	7.21	1.65	1.53
1	Q	536	LYS	CA-CB	7.21	1.64	1.53
1	3	179	GLU	CA-C	-7.21	1.43	1.52
1	l	412	PRO	CA-CB	7.21	1.63	1.53
1	5	679	LEU	C-N	7.21	1.43	1.33
1	A	143	LEU	CA-CB	7.21	1.66	1.53
1	2	460	ASN	C-N	7.21	1.43	1.33
1	p	424	GLU	N-CA	-7.21	1.37	1.46
1	u	626	ILE	N-CA	-7.21	1.38	1.46
1	L	295	LYS	C-N	7.21	1.41	1.34
1	N	472	VAL	CA-C	-7.21	1.44	1.52
1	c	194	GLN	C-N	7.21	1.42	1.33
1	d	673	ASN	CA-CB	7.20	1.65	1.53
1	g	390	GLU	CA-CB	7.20	1.64	1.53
1	y	477	HIS	ND1-CE1	7.20	1.39	1.32
1	P	573	ARG	CD-NE	7.20	1.56	1.46
1	1	270	ILE	C-N	7.20	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j	663	LYS	CA-CB	7.20	1.64	1.53
1	H	477	HIS	ND1-CE1	7.20	1.39	1.32
1	O	640	ARG	CD-NE	7.20	1.56	1.46
1	H	191	HIS	ND1-CE1	7.20	1.39	1.32
1	3	704	HIS	ND1-CE1	7.20	1.39	1.32
1	6	636	GLU	CA-C	-7.20	1.43	1.52
1	a	645	ILE	CA-C	7.19	1.58	1.52
1	p	126	ASP	CA-C	7.19	1.62	1.53
1	H	312	ARG	N-CA	7.19	1.55	1.46
1	L	290	ILE	C-N	7.19	1.38	1.33
1	A	109	ALA	CA-C	7.19	1.59	1.53
1	8	493	LEU	CA-C	7.19	1.60	1.53
1	B	229	ILE	CA-C	7.19	1.60	1.52
1	x	703	ARG	CD-NE	7.18	1.56	1.46
1	L	177	GLU	CA-CB	7.18	1.62	1.53
1	2	147	SER	CA-CB	7.17	1.62	1.52
1	2	543	PHE	CA-CB	7.17	1.64	1.53
1	7	218	VAL	C-N	-7.17	1.24	1.33
1	d	357	ARG	CD-NE	7.17	1.56	1.46
1	k	625	GLU	C-N	7.17	1.40	1.33
1	q	380	MET	CA-CB	7.17	1.64	1.53
1	S	686	ALA	C-N	-7.17	1.24	1.33
1	4	98	ARG	N-CA	7.17	1.56	1.46
1	D	628	ILE	N-CA	-7.17	1.38	1.46
1	O	225	ASP	CA-C	-7.17	1.44	1.52
1	E	383	GLN	CA-C	7.17	1.62	1.52
1	p	129	SER	CA-CB	7.17	1.64	1.53
1	u	160	LYS	C-N	7.17	1.43	1.33
1	p	412	PRO	CA-C	-7.17	1.46	1.52
1	S	298	LEU	CA-CB	7.17	1.65	1.53
1	W	314	LEU	CA-C	-7.17	1.46	1.53
1	8	648	ILE	CA-C	7.16	1.61	1.52
1	s	98	ARG	CA-CB	-7.16	1.47	1.54
1	C	397	HIS	ND1-CE1	7.16	1.39	1.32
1	N	124	ILE	N-CA	-7.16	1.37	1.46
1	1	392	GLN	C-N	7.16	1.43	1.33
1	L	647	PHE	CA-CB	7.16	1.64	1.53
1	d	425	LYS	CA-C	7.16	1.61	1.52
1	r	121	ILE	CA-C	-7.16	1.43	1.52
1	t	487	TYR	CA-CB	7.16	1.66	1.53
1	b	487	TYR	CA-CB	7.15	1.64	1.54
1	v	393	ILE	N-CA	-7.15	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9	506	HIS	ND1-CE1	7.15	1.39	1.32
1	1	593	ARG	N-CA	-7.15	1.37	1.46
1	j	212	GLU	CA-C	7.15	1.61	1.52
1	l	219	PRO	N-CA	-7.15	1.38	1.47
1	T	644	GLN	CA-CB	7.15	1.64	1.53
1	o	369	ARG	CD-NE	7.15	1.56	1.46
1	r	264	VAL	C-N	7.15	1.43	1.33
1	6	680	GLN	CA-CB	7.14	1.62	1.53
1	m	586	SER	CA-C	7.14	1.61	1.52
1	F	240	ASP	C-N	7.14	1.42	1.33
1	x	565	GLU	CA-C	7.14	1.62	1.52
1	U	100	CYS	N-CA	7.14	1.55	1.46
1	y	415	GLU	C-N	7.14	1.42	1.33
1	q	260	ASN	C-N	7.14	1.43	1.33
1	A	270	ILE	CA-C	7.14	1.61	1.52
1	Y	458	PHE	CA-C	-7.14	1.43	1.52
1	e	149	ILE	CA-C	7.13	1.60	1.52
1	z	376	THR	C-N	7.13	1.43	1.33
1	p	293	LEU	CA-C	7.13	1.62	1.52
1	l	264	VAL	CA-C	7.13	1.59	1.52
1	r	102	ASP	N-CA	-7.13	1.37	1.46
1	l	372	GLU	C-N	7.13	1.43	1.33
1	e	522	LYS	CA-CB	7.13	1.64	1.53
1	f	508	TYR	CA-C	7.13	1.61	1.52
1	Y	103	LEU	CA-C	7.13	1.61	1.52
1	Y	477	HIS	CE1-NE2	7.13	1.39	1.32
1	j	96	LYS	CA-C	-7.13	1.43	1.52
1	P	340	ALA	C-N	7.13	1.42	1.33
1	P	406	ARG	CA-C	7.13	1.62	1.52
1	T	336	ARG	CA-CB	7.13	1.63	1.53
1	q	642	ALA	N-CA	-7.12	1.37	1.46
1	J	539	PHE	CA-C	7.12	1.62	1.53
1	V	644	GLN	CA-C	7.12	1.62	1.52
1	2	520	LEU	CA-C	-7.12	1.43	1.52
1	J	701	GLN	CA-CB	7.12	1.64	1.53
1	7	261	LEU	CA-CB	7.12	1.62	1.53
1	K	186	VAL	CA-CB	7.12	1.62	1.54
1	0	282	VAL	CA-CB	7.12	1.63	1.54
1	a	517	LEU	N-CA	-7.12	1.37	1.46
1	e	566	ASN	CA-CB	7.12	1.65	1.53
1	k	704	HIS	CG-ND1	7.12	1.46	1.38
1	5	443	VAL	CA-CB	7.12	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	x	311	VAL	CA-CB	-7.12	1.45	1.54
1	2	542	PHE	CA-CB	7.12	1.63	1.52
1	e	315	THR	CA-C	-7.12	1.43	1.52
1	r	653	MET	C-N	7.11	1.42	1.33
1	5	108	ARG	CD-NE	7.11	1.56	1.46
1	8	156	VAL	N-CA	-7.11	1.38	1.46
1	R	102	ASP	C-N	7.11	1.42	1.33
1	H	487	TYR	CA-CB	7.11	1.65	1.53
1	x	267	ASN	CA-C	7.11	1.62	1.52
1	M	374	LEU	CA-C	-7.11	1.43	1.52
1	i	669	LEU	CB-CG	7.11	1.67	1.53
1	x	672	LYS	N-CA	7.10	1.55	1.46
1	b	496	VAL	CA-C	7.10	1.62	1.52
1	z	507	GLN	CA-C	7.10	1.61	1.52
1	e	231	ARG	CA-CB	7.10	1.66	1.53
1	p	514	GLU	N-CA	7.10	1.53	1.46
1	t	482	LYS	CA-C	7.10	1.62	1.52
1	U	655	ARG	CD-NE	7.10	1.56	1.46
1	7	202	ARG	NE-CZ	-7.10	1.25	1.33
1	r	675	TYR	N-CA	-7.10	1.37	1.46
1	s	245	ILE	C-N	7.10	1.43	1.33
1	J	295	LYS	CA-CB	7.10	1.58	1.52
1	0	403	GLU	CA-CB	7.09	1.64	1.53
1	2	516	ALA	C-N	7.09	1.42	1.33
1	q	694	GLU	CA-CB	7.09	1.64	1.53
1	V	221	LEU	C-N	-7.09	1.24	1.33
1	r	560	HIS	CB-CG	-7.09	1.40	1.50
1	s	679	LEU	CA-CB	7.09	1.62	1.53
1	0	417	ASP	CA-CB	7.09	1.64	1.53
1	7	201	GLY	N-CA	7.09	1.52	1.44
1	p	503	ILE	CA-CB	7.09	1.63	1.54
1	v	214	THR	CB-OG1	-7.09	1.32	1.43
1	8	164	CYS	C-N	7.09	1.43	1.33
1	o	205	SER	C-N	7.08	1.42	1.33
1	h	215	SER	CA-CB	7.08	1.64	1.53
1	p	113	GLU	C-N	7.08	1.43	1.33
1	B	487	TYR	CA-C	7.08	1.62	1.52
1	S	655	ARG	CA-C	7.08	1.61	1.52
1	5	158	LYS	CA-C	7.08	1.62	1.53
1	g	298	LEU	N-CA	-7.08	1.37	1.46
1	5	488	ARG	NE-CZ	7.08	1.40	1.33
1	e	283	ASP	C-N	7.08	1.42	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	629	HIS	CD2-NE2	7.08	1.45	1.37
1	A	434	GLU	CA-C	7.08	1.62	1.52
1	Z	174	ARG	CA-CB	7.08	1.65	1.53
1	D	393	ILE	CA-CB	-7.08	1.45	1.54
1	G	462	VAL	C-N	7.08	1.42	1.33
1	Y	461	TRP	N-CA	-7.08	1.37	1.46
1	P	537	LYS	CA-CB	7.07	1.64	1.53
1	6	506	HIS	ND1-CE1	7.07	1.39	1.32
1	I	468	ASN	N-CA	7.07	1.55	1.46
1	y	185	GLN	CA-C	7.07	1.61	1.52
1	3	174	ARG	CD-NE	7.07	1.56	1.46
1	L	397	HIS	ND1-CE1	7.07	1.39	1.32
1	U	249	ILE	C-N	7.07	1.42	1.33
1	I	629	HIS	ND1-CE1	7.07	1.39	1.32
1	Q	380	MET	CA-CB	7.06	1.64	1.53
1	R	220	ASP	C-N	7.06	1.42	1.33
1	T	162	GLN	C-N	7.06	1.41	1.34
1	7	548	THR	CA-C	-7.06	1.43	1.52
1	h	147	SER	CA-CB	7.06	1.65	1.53
1	B	317	PRO	N-CA	-7.06	1.39	1.47
1	E	267	ASN	N-CA	-7.06	1.37	1.46
1	e	369	ARG	N-CA	-7.06	1.38	1.46
1	0	412	PRO	C-N	7.06	1.43	1.33
1	d	268	VAL	CA-CB	7.06	1.62	1.54
1	G	355	TYR	CA-C	-7.06	1.43	1.52
1	l	328	ARG	CD-NE	7.06	1.56	1.46
1	B	506	HIS	CA-C	-7.06	1.43	1.52
1	N	538	HIS	ND1-CE1	7.06	1.39	1.32
1	D	449	ARG	CD-NE	7.06	1.56	1.46
1	5	485	LYS	CA-C	7.05	1.61	1.52
1	c	527	ILE	N-CA	7.05	1.54	1.46
1	q	269	ASP	CA-CB	7.05	1.64	1.53
1	C	254	GLN	CA-CB	7.05	1.65	1.53
1	S	389	LEU	N-CA	-7.05	1.37	1.46
1	6	435	LYS	CA-C	-7.05	1.43	1.52
1	x	540	GLY	N-CA	7.05	1.55	1.45
1	C	486	GLN	C-N	7.05	1.43	1.33
1	K	191	HIS	ND1-CE1	7.05	1.39	1.32
1	f	204	ILE	N-CA	7.04	1.54	1.46
1	j	397	HIS	CG-ND1	7.04	1.46	1.38
1	k	342	ALA	C-N	7.04	1.43	1.33
1	D	328	ARG	CA-C	7.04	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	406	ARG	CD-NE	7.04	1.56	1.46
1	f	153	CYS	CA-C	-7.04	1.46	1.52
1	H	198	ALA	N-CA	-7.04	1.36	1.46
1	V	459	LYS	C-N	7.04	1.42	1.33
1	3	375	THR	CA-C	-7.04	1.43	1.52
1	h	493	LEU	C-N	7.04	1.43	1.33
1	z	193	ALA	N-CA	7.04	1.54	1.46
1	I	329	GLY	N-CA	7.04	1.54	1.45
1	M	477	HIS	C-N	7.04	1.43	1.33
1	x	280	HIS	ND1-CE1	7.04	1.39	1.32
1	T	629	HIS	ND1-CE1	7.04	1.39	1.32
1	Y	153	CYS	CA-C	7.04	1.59	1.52
1	d	182	ASP	CA-C	7.03	1.58	1.52
1	q	98	ARG	CA-CB	7.03	1.63	1.53
1	b	280	HIS	ND1-CE1	7.03	1.39	1.32
1	P	380	MET	C-N	7.03	1.42	1.33
1	W	667	GLN	C-N	7.03	1.42	1.33
1	Z	547	GLN	CA-C	-7.03	1.43	1.52
1	k	629	HIS	C-O	-7.03	1.15	1.24
1	2	432	ASP	CA-C	7.03	1.62	1.52
1	8	520	LEU	CA-C	-7.03	1.43	1.52
1	E	241	ILE	C-N	7.03	1.43	1.33
1	P	658	GLY	C-N	7.03	1.43	1.33
1	l	455	ARG	NE-CZ	-7.03	1.25	1.33
1	j	517	LEU	CA-C	7.03	1.61	1.52
1	u	406	ARG	CD-NE	7.03	1.56	1.46
1	x	686	ALA	CA-CB	7.03	1.64	1.53
1	K	560	HIS	ND1-CE1	7.03	1.39	1.32
1	4	669	LEU	C-N	7.02	1.42	1.33
1	b	345	LYS	C-N	7.02	1.43	1.33
1	G	392	GLN	C-N	-7.02	1.25	1.33
1	I	551	SER	C-O	-7.02	1.15	1.24
1	h	312	ARG	CA-CB	7.02	1.64	1.53
1	y	533	ASN	C-N	7.02	1.42	1.33
1	4	125	GLY	CA-C	-7.02	1.43	1.51
1	9	218	VAL	N-CA	7.02	1.54	1.47
1	c	707	CYS	CA-C	7.02	1.61	1.52
1	N	476	ILE	CA-C	7.02	1.61	1.52
1	j	191	HIS	ND1-CE1	7.02	1.39	1.32
1	e	161	LYS	C-N	7.01	1.42	1.33
1	R	392	GLN	CA-CB	7.01	1.64	1.53
1	2	690	ARG	NE-CZ	-7.01	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	196	VAL	CA-C	-7.01	1.43	1.52
1	x	351	GLN	CA-C	7.01	1.62	1.52
1	R	311	VAL	N-CA	-7.01	1.38	1.46
1	V	324	ILE	N-CA	7.01	1.54	1.46
1	6	336	ARG	CA-C	7.01	1.62	1.53
1	8	198	ALA	C-N	7.01	1.42	1.33
1	h	689	ARG	CD-NE	7.01	1.56	1.46
1	m	108	ARG	CA-C	7.01	1.62	1.52
1	u	144	PRO	CA-C	7.01	1.60	1.52
1	e	643	ASN	CA-C	7.01	1.61	1.52
1	g	243	LEU	CA-C	-7.01	1.43	1.52
1	r	571	GLN	CA-CB	7.01	1.64	1.53
1	B	322	TYR	CA-C	7.01	1.61	1.52
1	o	491	GLU	CA-CB	7.00	1.62	1.53
1	p	483	TYR	CA-C	-7.00	1.48	1.52
1	s	260	ASN	CA-C	7.00	1.61	1.52
1	J	551	SER	CA-C	7.00	1.61	1.52
1	0	213	ILE	N-CA	7.00	1.55	1.46
1	2	629	HIS	CE1-NE2	-7.00	1.25	1.32
1	4	640	ARG	CD-NE	7.00	1.56	1.46
1	7	676	SER	CA-CB	7.00	1.64	1.53
1	F	502	GLU	CA-C	7.00	1.61	1.52
1	M	412	PRO	N-CA	7.00	1.56	1.47
1	Z	522	LYS	N-CA	-7.00	1.37	1.46
1	X	663	LYS	CA-CB	7.00	1.64	1.53
1	3	386	LEU	N-CA	7.00	1.52	1.46
1	F	235	ASP	CA-CB	7.00	1.64	1.53
1	Z	331	GLN	C-N	7.00	1.43	1.33
1	c	449	ARG	CA-C	6.99	1.61	1.52
1	T	280	HIS	ND1-CE1	6.99	1.39	1.32
1	X	463	GLY	C-N	6.99	1.42	1.33
1	y	162	GLN	CA-C	6.99	1.60	1.52
1	T	574	MET	CA-CB	6.99	1.64	1.53
1	J	446	ASN	C-N	6.99	1.39	1.33
1	T	155	LEU	CA-C	6.99	1.60	1.52
1	5	425	LYS	CA-CB	6.99	1.64	1.53
1	e	536	LYS	N-CA	-6.99	1.38	1.46
1	g	537	LYS	CA-C	6.99	1.62	1.52
1	l	655	ARG	CD-NE	6.99	1.56	1.46
1	C	709	PHE	CA-CB	6.99	1.65	1.53
1	M	689	ARG	CA-C	6.99	1.61	1.52
1	Z	677	TRP	N-CA	-6.99	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5	390	GLU	CA-CB	6.99	1.64	1.53
1	h	364	SER	CA-C	-6.99	1.43	1.52
1	0	462	VAL	CA-CB	6.99	1.63	1.54
1	3	318	LEU	CA-C	6.99	1.62	1.52
1	l	339	LEU	CA-CB	6.99	1.64	1.53
1	l	415	GLU	CA-C	6.99	1.62	1.52
1	z	696	ILE	CA-C	6.99	1.61	1.52
1	U	263	VAL	N-CA	6.99	1.54	1.46
1	k	574	MET	N-CA	-6.98	1.38	1.46
1	z	383	GLN	C-O	-6.98	1.16	1.24
1	E	434	GLU	CA-C	-6.98	1.43	1.52
1	J	584	ILE	C-N	6.98	1.42	1.33
1	P	248	LEU	N-CA	-6.98	1.38	1.46
1	V	442	VAL	CA-C	6.98	1.60	1.52
1	9	645	ILE	CA-CB	-6.98	1.49	1.53
1	L	253	ILE	C-O	-6.98	1.15	1.24
1	N	353	HIS	ND1-CE1	6.98	1.39	1.32
1	R	386	LEU	N-CA	6.98	1.53	1.46
1	7	695	ARG	CD-NE	6.98	1.56	1.46
1	9	113	GLU	CA-C	6.98	1.60	1.52
1	h	565	GLU	CA-C	-6.98	1.43	1.52
1	A	292	ILE	CA-C	6.98	1.61	1.52
1	B	300	ASP	CA-C	6.98	1.62	1.52
1	V	677	TRP	NE1-CE2	6.98	1.45	1.37
1	P	707	CYS	C-N	6.98	1.44	1.33
1	e	204	ILE	CA-CB	-6.97	1.45	1.54
1	e	397	HIS	CE1-NE2	6.97	1.39	1.32
1	m	680	GLN	CA-CB	6.97	1.64	1.53
1	D	153	CYS	CA-C	-6.97	1.45	1.52
1	H	374	LEU	CA-CB	6.97	1.64	1.53
1	v	336	ARG	CA-C	6.97	1.61	1.52
1	z	588	VAL	CA-C	6.97	1.61	1.52
1	I	164	CYS	CA-C	-6.97	1.43	1.53
1	d	708	GLN	CA-C	-6.97	1.43	1.52
1	f	592	VAL	CA-C	6.97	1.61	1.52
1	s	98	ARG	CA-C	6.97	1.59	1.52
1	E	449	ARG	CA-CB	6.97	1.63	1.53
1	Q	672	LYS	CA-C	-6.97	1.43	1.52
1	Z	290	ILE	C-N	6.97	1.38	1.33
1	u	271	ALA	CA-C	6.96	1.63	1.52
1	O	268	VAL	C-N	6.96	1.43	1.33
1	3	290	ILE	CA-C	6.96	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	t	353	HIS	ND1-CE1	6.96	1.39	1.32
1	a	412	PRO	C-N	6.96	1.43	1.33
1	t	378	LEU	CA-CB	6.96	1.64	1.53
1	k	675	TYR	CA-C	6.96	1.61	1.52
1	r	581	GLN	N-CA	6.96	1.55	1.46
1	K	322	TYR	C-N	6.96	1.43	1.33
1	9	545	LEU	CA-C	6.96	1.61	1.52
1	B	497	ASN	CA-CB	6.96	1.62	1.53
1	F	560	HIS	ND1-CE1	6.96	1.39	1.32
1	I	412	PRO	CA-C	6.96	1.62	1.52
1	2	397	HIS	ND1-CE1	6.95	1.39	1.32
1	x	520	LEU	CA-CB	6.95	1.64	1.53
1	D	563	LYS	N-CA	6.95	1.54	1.46
1	X	432	ASP	CA-C	6.95	1.61	1.52
1	g	696	ILE	CA-CB	-6.95	1.46	1.54
1	L	453	LYS	C-N	6.95	1.42	1.33
1	R	632	ALA	C-N	6.95	1.43	1.33
1	W	158	LYS	CA-CB	6.95	1.61	1.53
1	f	232	VAL	C-N	6.95	1.42	1.33
1	r	690	ARG	CZ-NH2	-6.95	1.24	1.33
1	Z	362	GLU	C-O	-6.95	1.14	1.24
1	h	123	VAL	N-CA	6.95	1.54	1.46
1	k	411	ILE	C-O	-6.95	1.15	1.24
1	L	191	HIS	ND1-CE1	6.95	1.39	1.32
1	Y	171	ILE	CA-CB	-6.95	1.46	1.54
1	o	516	ALA	CA-C	-6.94	1.43	1.52
1	F	400	ALA	CA-CB	-6.94	1.41	1.53
1	H	161	LYS	C-N	6.94	1.40	1.33
1	Y	137	ALA	N-CA	6.94	1.54	1.46
1	k	165	GLU	C-N	6.94	1.42	1.33
1	z	306	SER	C-N	6.94	1.42	1.33
1	E	553	ILE	CA-CB	6.94	1.62	1.54
1	K	316	TYR	C-N	6.94	1.39	1.33
1	7	502	GLU	CA-CB	6.94	1.64	1.53
1	w	379	ILE	CA-C	6.94	1.61	1.52
1	B	152	ARG	CD-NE	6.94	1.55	1.46
1	T	551	SER	CA-CB	6.94	1.64	1.53
1	a	710	SER	CA-CB	6.94	1.64	1.53
1	e	697	TYR	CA-C	6.94	1.61	1.52
1	s	214	THR	CA-C	6.94	1.60	1.52
1	X	457	ASP	C-O	-6.94	1.16	1.24
1	Y	93	TYR	C-N	-6.94	1.24	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b	437	VAL	CA-C	6.94	1.61	1.52
1	d	656	GLU	CA-CB	6.94	1.64	1.53
1	N	488	ARG	CA-CB	6.94	1.64	1.53
1	1	681	GLU	N-CA	6.93	1.55	1.45
1	a	165	GLU	CA-CB	6.93	1.65	1.53
1	f	533	ASN	N-CA	-6.93	1.37	1.46
1	3	695	ARG	CD-NE	6.93	1.55	1.46
1	q	191	HIS	ND1-CE1	6.93	1.39	1.32
1	v	240	ASP	CA-CB	6.93	1.67	1.53
1	F	593	ARG	CD-NE	6.93	1.55	1.46
1	W	696	ILE	CA-CB	-6.93	1.45	1.54
1	i	120	ALA	N-CA	-6.93	1.37	1.45
1	r	218	VAL	CA-C	6.93	1.59	1.52
1	I	117	ALA	CA-C	6.93	1.62	1.52
1	e	357	ARG	CA-C	-6.93	1.44	1.52
1	k	533	ASN	CA-C	6.93	1.61	1.52
1	v	476	ILE	C-N	6.93	1.43	1.34
1	g	591	LYS	C-N	6.93	1.42	1.33
1	4	347	ILE	C-N	6.93	1.43	1.33
1	f	406	ARG	CD-NE	6.93	1.55	1.46
1	0	418	LYS	CA-CB	6.92	1.64	1.53
1	v	326	LYS	C-N	6.92	1.43	1.33
1	9	264	VAL	CA-C	6.92	1.59	1.53
1	V	352	THR	C-N	6.92	1.43	1.33
1	g	259	ILE	N-CA	-6.92	1.38	1.46
1	p	506	HIS	CA-CB	6.92	1.64	1.53
1	t	293	LEU	CA-C	6.92	1.62	1.52
1	u	265	PRO	CA-C	6.92	1.61	1.52
1	x	575	GLU	CA-C	-6.92	1.43	1.52
1	P	652	PHE	N-CA	-6.92	1.37	1.46
1	S	479	GLU	C-N	6.92	1.42	1.33
1	b	579	PHE	CA-CB	6.92	1.65	1.53
1	c	682	GLN	CA-CB	6.92	1.64	1.53
1	x	466	ALA	N-CA	-6.92	1.37	1.46
1	B	309	ASN	CA-CB	6.92	1.64	1.53
1	a	255	ARG	C-N	6.92	1.43	1.33
1	e	707	CYS	C-N	6.92	1.42	1.33
1	i	112	VAL	CA-C	6.92	1.60	1.52
1	o	409	ALA	CA-CB	6.92	1.64	1.53
1	2	423	ILE	CA-C	6.92	1.62	1.52
1	3	153	CYS	N-CA	-6.92	1.40	1.45
1	8	432	ASP	CA-C	6.92	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	v	150	VAL	C-O	6.91	1.32	1.24
1	V	288	ARG	NE-CZ	-6.91	1.25	1.33
1	t	413	SER	N-CA	-6.91	1.38	1.46
1	y	636	GLU	CA-C	-6.91	1.43	1.52
1	F	199	GLY	C-N	6.91	1.42	1.33
1	P	591	LYS	CA-CB	6.91	1.64	1.53
1	7	565	GLU	CA-CB	6.91	1.64	1.53
1	o	668	ILE	C-N	6.91	1.44	1.33
1	2	396	SER	N-CA	6.91	1.54	1.46
1	i	129	SER	C-N	6.91	1.43	1.33
1	l	427	LYS	C-O	-6.91	1.16	1.24
1	0	514	GLU	N-CA	6.90	1.52	1.46
1	1	212	GLU	CA-C	6.90	1.60	1.52
1	R	704	HIS	ND1-CE1	6.90	1.39	1.32
1	T	150	VAL	CA-C	6.90	1.61	1.52
1	g	93	TYR	N-CA	6.90	1.59	1.46
1	v	368	PRO	CA-CB	6.90	1.61	1.53
1	K	197	MET	CA-CB	6.90	1.64	1.53
1	C	145	ARG	CD-NE	6.90	1.55	1.46
1	S	108	ARG	C-N	6.90	1.43	1.33
1	8	696	ILE	N-CA	-6.90	1.38	1.46
1	a	377	GLU	CA-C	6.90	1.61	1.52
1	0	493	LEU	CB-CG	6.89	1.67	1.53
1	z	157	LEU	CA-CB	6.89	1.65	1.53
1	O	259	ILE	CA-CB	-6.89	1.46	1.54
1	P	341	GLU	C-N	6.89	1.43	1.33
1	Q	183	PRO	N-CA	-6.89	1.39	1.47
1	X	111	GLY	C-N	6.89	1.43	1.33
1	X	369	ARG	CA-C	-6.89	1.43	1.52
1	7	390	GLU	C-N	6.89	1.42	1.33
1	9	546	ASN	N-CA	-6.89	1.38	1.46
1	U	544	ASN	C-N	6.89	1.43	1.33
1	1	353	HIS	CA-C	6.89	1.60	1.52
1	9	444	ARG	CD-NE	6.89	1.55	1.46
1	a	161	LYS	CA-C	6.89	1.61	1.52
1	A	674	ARG	CD-NE	6.89	1.55	1.46
1	E	275	ALA	CA-C	6.89	1.62	1.52
1	U	344	LYS	C-N	6.89	1.43	1.33
1	6	229	ILE	CA-C	6.88	1.60	1.53
1	6	533	ASN	CA-C	6.88	1.61	1.52
1	d	437	VAL	C-N	6.88	1.43	1.34
1	E	455	ARG	N-CA	-6.88	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c	170	ARG	CD-NE	6.88	1.55	1.46
1	D	347	ILE	CA-C	6.88	1.61	1.52
1	E	513	VAL	CA-CB	-6.88	1.46	1.54
1	M	682	GLN	C-N	6.88	1.42	1.33
1	H	431	GLN	CA-CB	6.88	1.64	1.53
1	H	705	ALA	C-N	6.88	1.42	1.33
1	A	360	LEU	CA-CB	6.88	1.64	1.53
1	Q	174	ARG	CD-NE	6.88	1.55	1.46
1	4	101	ILE	CA-C	6.88	1.61	1.52
1	i	405	ARG	CZ-NH2	-6.88	1.24	1.33
1	B	509	ILE	CA-C	-6.88	1.44	1.52
1	I	382	ILE	CA-CB	-6.88	1.46	1.54
1	R	326	LYS	CA-CB	6.88	1.63	1.53
1	4	578	VAL	CA-C	6.88	1.61	1.52
1	i	191	HIS	CE1-NE2	6.88	1.39	1.32
1	H	158	LYS	CA-C	-6.88	1.44	1.52
1	R	225	ASP	CA-CB	6.88	1.63	1.53
1	U	344	LYS	N-CA	-6.88	1.37	1.46
1	W	461	TRP	C-N	6.88	1.42	1.33
1	Z	556	ILE	CA-C	6.88	1.61	1.52
1	2	103	LEU	CB-CG	6.88	1.67	1.53
1	6	625	GLU	CA-CB	6.88	1.64	1.53
1	N	100	CYS	C-N	6.88	1.42	1.33
1	h	663	LYS	N-CA	6.87	1.54	1.46
1	A	141	VAL	CA-CB	-6.87	1.45	1.54
1	a	688	LYS	CA-CB	6.87	1.64	1.53
1	d	475	ILE	CA-C	6.87	1.61	1.52
1	V	283	ASP	N-CA	-6.87	1.40	1.46
1	s	684	GLU	CA-C	6.87	1.61	1.52
1	z	165	GLU	CA-C	6.87	1.61	1.52
1	d	364	SER	CA-C	-6.87	1.43	1.52
1	Z	202	ARG	C-N	6.87	1.43	1.33
1	b	533	ASN	CA-CB	6.87	1.64	1.53
1	u	703	ARG	CA-CB	6.86	1.64	1.53
1	A	472	VAL	N-CA	6.86	1.53	1.46
1	b	466	ALA	C-N	6.86	1.43	1.33
1	T	191	HIS	C-N	6.86	1.42	1.33
1	c	369	ARG	CA-CB	6.86	1.62	1.53
1	S	381	HIS	ND1-CE1	6.86	1.39	1.32
1	Y	376	THR	C-N	6.86	1.43	1.33
1	q	232	VAL	C-N	6.86	1.42	1.33
1	F	217	GLU	CA-CB	6.86	1.64	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	289	THR	N-CA	-6.86	1.38	1.46
1	4	216	PRO	CA-CB	6.86	1.63	1.53
1	7	322	TYR	CA-C	-6.86	1.44	1.52
1	b	330	GLN	CA-CB	6.86	1.64	1.53
1	n	129	SER	CA-C	-6.86	1.44	1.52
1	U	508	TYR	CA-CB	6.86	1.64	1.53
1	5	629	HIS	ND1-CE1	6.85	1.39	1.32
1	q	367	VAL	CA-C	6.85	1.58	1.52
1	t	328	ARG	CZ-NH1	-6.85	1.23	1.32
1	V	371	ALA	CA-C	6.85	1.61	1.52
1	P	214	THR	C-N	6.85	1.41	1.33
1	P	206	HIS	C-N	6.85	1.43	1.33
1	e	115	ASP	CA-CB	6.85	1.61	1.52
1	l	284	PRO	CA-CB	6.85	1.63	1.53
1	t	374	LEU	CA-C	-6.85	1.44	1.52
1	s	449	ARG	CA-C	-6.84	1.44	1.52
1	x	238	PRO	CA-CB	6.84	1.63	1.53
1	F	418	LYS	CA-C	-6.84	1.44	1.52
1	h	636	GLU	C-N	-6.84	1.24	1.33
1	x	106	SER	CA-CB	6.84	1.64	1.53
1	R	682	GLN	N-CA	6.84	1.54	1.46
1	h	397	HIS	CB-CG	6.84	1.59	1.50
1	j	648	ILE	CA-C	6.84	1.61	1.52
1	2	378	LEU	CA-C	-6.84	1.44	1.52
1	i	558	VAL	C-N	6.84	1.43	1.33
1	B	297	ASP	C-N	6.84	1.44	1.33
1	G	283	ASP	CA-C	6.84	1.60	1.52
1	d	130	GLY	CA-C	-6.84	1.42	1.51
1	i	709	PHE	CA-CB	6.84	1.64	1.53
1	z	133	SER	CA-C	-6.84	1.43	1.52
1	L	702	ALA	CA-CB	6.84	1.64	1.53
1	q	488	ARG	CD-NE	6.83	1.55	1.46
1	Y	143	LEU	C-N	6.83	1.41	1.33
1	0	491	GLU	CA-C	6.83	1.61	1.52
1	5	272	THR	N-CA	6.83	1.54	1.46
1	6	691	ILE	CA-CB	6.83	1.63	1.54
1	Q	510	GLN	C-N	6.83	1.42	1.33
1	m	122	ALA	C-N	6.83	1.42	1.33
1	s	398	GLN	CA-CB	6.83	1.64	1.53
1	H	135	LEU	CA-C	-6.83	1.43	1.52
1	Z	97	VAL	N-CA	-6.83	1.38	1.46
1	w	99	PRO	N-CA	-6.83	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	y	628	ILE	N-CA	6.83	1.55	1.46
1	9	309	ASN	CA-C	6.83	1.61	1.52
1	U	542	PHE	CA-CB	6.83	1.61	1.52
1	h	218	VAL	CA-CB	6.83	1.63	1.54
1	j	505	VAL	CA-C	-6.83	1.44	1.52
1	P	674	ARG	CD-NE	6.83	1.55	1.46
1	T	280	HIS	CA-CB	6.83	1.64	1.53
1	f	455	ARG	CD-NE	6.82	1.55	1.46
1	B	293	LEU	CA-CB	6.82	1.63	1.53
1	G	201	GLY	CA-C	-6.82	1.42	1.51
1	M	330	GLN	C-N	6.82	1.43	1.33
1	a	159	LEU	CA-C	6.82	1.60	1.52
1	u	159	LEU	CA-C	6.82	1.60	1.52
1	j	405	ARG	CD-NE	6.82	1.55	1.46
1	v	485	LYS	CA-CB	6.82	1.65	1.53
1	v	684	GLU	CA-C	-6.82	1.44	1.52
1	8	626	ILE	N-CA	-6.82	1.38	1.46
1	t	624	THR	CA-C	6.82	1.61	1.52
1	L	475	ILE	C-N	6.82	1.42	1.33
1	S	239	ARG	CD-NE	6.82	1.55	1.46
1	I	384	LYS	CA-CB	6.81	1.64	1.53
1	K	497	ASN	N-CA	-6.81	1.38	1.46
1	m	358	VAL	CA-C	6.81	1.61	1.52
1	G	469	THR	CA-C	-6.81	1.43	1.52
1	e	277	SER	CA-C	6.81	1.61	1.52
1	w	336	ARG	C-N	6.81	1.42	1.33
1	J	182	ASP	CA-CB	6.81	1.64	1.53
1	i	474	ASN	CA-C	-6.81	1.44	1.52
1	m	153	CYS	CA-C	-6.81	1.44	1.52
1	C	559	LYS	CA-CB	6.81	1.64	1.53
1	I	636	GLU	CA-C	6.81	1.61	1.52
1	O	103	LEU	CA-C	-6.81	1.44	1.52
1	e	257	GLN	CA-CB	6.80	1.65	1.53
1	s	307	VAL	CA-CB	6.80	1.63	1.54
1	N	389	LEU	C-N	6.80	1.42	1.33
1	t	573	ARG	CD-NE	6.80	1.55	1.46
1	x	259	ILE	CA-C	6.80	1.61	1.52
1	V	455	ARG	CD-NE	6.80	1.55	1.46
1	r	659	ASP	CA-CB	6.80	1.64	1.53
1	J	158	LYS	N-CA	-6.80	1.38	1.46
1	P	95	GLN	N-CA	6.80	1.54	1.46
1	Y	397	HIS	ND1-CE1	6.80	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	r	496	VAL	CA-C	6.80	1.61	1.52
1	P	291	GLY	CA-C	6.80	1.59	1.52
1	Q	704	HIS	CE1-NE2	-6.80	1.25	1.32
1	s	105	ASP	CA-CB	6.80	1.64	1.53
1	a	358	VAL	CA-CB	-6.80	1.46	1.54
1	y	571	GLN	C-N	6.80	1.42	1.33
1	H	450	LEU	CA-C	6.80	1.62	1.52
1	O	421	PHE	N-CA	-6.80	1.38	1.46
1	V	170	ARG	CD-NE	6.80	1.55	1.46
1	W	128	SER	CA-CB	6.80	1.63	1.53
1	E	497	ASN	CA-C	6.79	1.60	1.52
1	G	294	THR	C-N	-6.79	1.25	1.33
1	J	141	VAL	N-CA	-6.79	1.38	1.46
1	O	506	HIS	ND1-CE1	6.79	1.39	1.32
1	6	288	ARG	CA-CB	6.79	1.64	1.53
1	h	422	LEU	N-CA	-6.79	1.38	1.46
1	r	280	HIS	ND1-CE1	6.79	1.39	1.32
1	t	206	HIS	ND1-CE1	6.79	1.39	1.32
1	z	350	PHE	C-O	-6.79	1.16	1.24
1	Q	317	PRO	CA-CB	-6.79	1.49	1.53
1	T	357	ARG	C-N	6.79	1.42	1.33
1	5	586	SER	CA-CB	6.79	1.65	1.53
1	m	283	ASP	N-CA	-6.79	1.36	1.46
1	s	643	ASN	CA-CB	6.79	1.64	1.53
1	M	639	LYS	CA-C	-6.79	1.44	1.52
1	6	527	ILE	N-CA	6.79	1.54	1.46
1	d	635	LEU	N-CA	6.79	1.54	1.46
1	z	303	THR	CA-C	-6.79	1.44	1.52
1	M	389	LEU	CA-CB	6.79	1.63	1.53
1	l	117	ALA	CA-C	6.78	1.61	1.52
1	e	548	THR	N-CA	6.78	1.54	1.46
1	n	246	LYS	N-CA	6.78	1.54	1.46
1	s	543	PHE	N-CA	6.78	1.54	1.46
1	U	565	GLU	CA-CB	6.78	1.63	1.53
1	j	306	SER	C-O	-6.78	1.16	1.24
1	r	345	LYS	C-N	-6.78	1.25	1.33
1	O	230	THR	CA-C	-6.78	1.44	1.52
1	7	534	VAL	CA-CB	-6.78	1.46	1.54
1	b	360	LEU	CA-C	-6.78	1.46	1.53
1	j	682	GLN	CA-C	6.78	1.61	1.52
1	n	449	ARG	CD-NE	6.78	1.55	1.46
1	G	353	HIS	ND1-CE1	6.78	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9	501	PHE	N-CA	-6.78	1.38	1.46
1	g	496	VAL	CA-CB	6.78	1.63	1.54
1	w	406	ARG	NE-CZ	6.78	1.40	1.33
1	I	218	VAL	CA-C	-6.78	1.45	1.52
1	1	580	CYS	C-N	6.78	1.43	1.33
1	D	320	LYS	CA-CB	6.78	1.63	1.53
1	3	236	ASN	N-CA	6.78	1.54	1.46
1	e	573	ARG	NE-CZ	-6.78	1.25	1.33
1	E	534	VAL	CA-CB	-6.78	1.46	1.54
1	2	533	ASN	N-CA	6.77	1.54	1.46
1	B	162	GLN	N-CA	-6.77	1.40	1.45
1	N	576	GLN	CA-C	6.77	1.61	1.52
1	0	381	HIS	CA-CB	6.77	1.63	1.53
1	k	209	ILE	CA-CB	-6.77	1.46	1.54
1	W	487	TYR	CA-C	6.77	1.61	1.52
1	0	555	ASP	CA-CB	6.77	1.63	1.53
1	r	326	LYS	CA-CB	6.77	1.64	1.53
1	t	403	GLU	N-CA	6.77	1.54	1.46
1	u	128	SER	N-CA	6.77	1.54	1.46
1	A	351	GLN	CA-C	6.77	1.61	1.52
1	S	639	LYS	C-N	6.77	1.42	1.33
1	T	676	SER	CA-CB	6.77	1.63	1.53
1	X	181	GLN	N-CA	6.77	1.54	1.46
1	p	254	GLN	C-N	6.77	1.42	1.33
1	w	243	LEU	C-N	6.77	1.43	1.34
1	z	627	GLY	CA-C	-6.77	1.44	1.51
1	r	483	TYR	C-N	6.77	1.42	1.33
1	z	568	ILE	CA-CB	-6.77	1.45	1.54
1	6	277	SER	CA-C	6.76	1.61	1.52
1	g	497	ASN	CA-CB	6.76	1.63	1.53
1	x	296	PRO	N-CD	6.76	1.57	1.47
1	X	390	GLU	N-CA	-6.76	1.38	1.46
1	4	195	ASN	CA-C	6.76	1.61	1.52
1	O	477	HIS	C-O	-6.76	1.16	1.24
1	S	285	GLU	CA-CB	6.76	1.64	1.53
1	1	700	THR	N-CA	-6.76	1.38	1.46
1	e	381	HIS	ND1-CE1	6.76	1.39	1.32
1	v	315	THR	N-CA	6.76	1.54	1.46
1	w	182	ASP	CA-CB	6.76	1.63	1.54
1	B	195	ASN	CA-C	6.76	1.61	1.52
1	o	215	SER	CA-CB	6.76	1.63	1.53
1	T	282	VAL	CA-CB	6.76	1.63	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	271	ALA	CA-C	-6.76	1.44	1.52
1	Z	102	ASP	C-N	6.76	1.42	1.33
1	d	476	ILE	CA-C	6.76	1.61	1.52
1	f	563	LYS	CA-C	6.76	1.61	1.52
1	p	349	PHE	C-N	6.76	1.43	1.34
1	S	587	VAL	CA-CB	6.76	1.62	1.54
1	j	187	GLU	N-CA	-6.75	1.37	1.46
1	p	303	THR	N-CA	6.75	1.54	1.46
1	k	433	ILE	CA-C	6.75	1.61	1.52
1	R	172	SER	CA-C	-6.75	1.44	1.52
1	R	538	HIS	CA-CB	6.75	1.63	1.53
1	5	326	LYS	CA-CB	6.75	1.61	1.53
1	a	246	LYS	CA-CB	6.75	1.64	1.53
1	e	108	ARG	CD-NE	6.75	1.55	1.46
1	f	689	ARG	CA-C	6.75	1.61	1.52
1	a	545	LEU	CA-C	6.75	1.61	1.52
1	o	554	GLU	N-CA	6.75	1.54	1.46
1	B	325	VAL	C-N	6.75	1.42	1.33
1	I	483	TYR	N-CA	-6.75	1.38	1.46
1	W	660	SER	CA-CB	6.75	1.64	1.53
1	g	581	GLN	CA-C	-6.75	1.44	1.52
1	A	225	ASP	CA-CB	6.75	1.61	1.53
1	L	704	HIS	CB-CG	6.75	1.59	1.50
1	6	234	VAL	CA-C	-6.74	1.45	1.52
1	q	542	PHE	CA-CB	6.74	1.63	1.53
1	B	381	HIS	C-N	6.74	1.42	1.33
1	F	227	PRO	C-N	6.74	1.42	1.33
1	K	234	VAL	CA-CB	6.74	1.61	1.54
1	L	245	ILE	C-N	6.74	1.42	1.33
1	l	295	LYS	CA-C	6.74	1.61	1.52
1	i	445	GLU	C-N	6.74	1.43	1.33
1	r	645	ILE	CA-CB	-6.74	1.50	1.54
1	O	655	ARG	CA-C	6.74	1.61	1.52
1	9	511	GLN	CA-CB	6.74	1.63	1.53
1	J	288	ARG	CZ-NH2	-6.74	1.24	1.33
1	L	114	GLN	CA-C	6.74	1.61	1.52
1	V	167	TRP	CA-C	-6.74	1.44	1.52
1	O	424	GLU	CA-CB	6.74	1.63	1.53
1	6	402	GLU	N-CA	-6.74	1.38	1.46
1	l	704	HIS	ND1-CE1	6.74	1.39	1.32
1	O	151	THR	N-CA	-6.74	1.37	1.46
1	U	200	ASN	CA-C	-6.74	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7	468	ASN	N-CA	-6.73	1.37	1.46
1	d	393	ILE	CA-C	-6.73	1.44	1.52
1	d	707	CYS	CA-CB	6.73	1.63	1.53
1	r	433	ILE	CA-C	6.73	1.61	1.52
1	J	641	LEU	CA-CB	6.73	1.64	1.53
1	Y	442	VAL	N-CA	-6.73	1.38	1.46
1	9	191	HIS	ND1-CE1	6.73	1.39	1.32
1	M	381	HIS	ND1-CE1	6.73	1.39	1.32
1	T	681	GLU	CA-C	6.73	1.61	1.52
1	V	490	LYS	C-N	6.73	1.41	1.33
1	N	511	GLN	N-CA	6.73	1.54	1.46
1	Q	534	VAL	CA-C	-6.73	1.44	1.52
1	d	298	LEU	N-CA	-6.73	1.37	1.46
1	a	280	HIS	ND1-CE1	6.73	1.39	1.32
1	9	538	HIS	N-CA	-6.72	1.37	1.46
1	t	595	GLU	CA-C	6.72	1.62	1.52
1	4	156	VAL	CA-CB	-6.72	1.46	1.53
1	I	444	ARG	N-CA	-6.72	1.37	1.45
1	w	360	LEU	N-CA	-6.72	1.38	1.46
1	H	521	GLN	CA-C	-6.72	1.44	1.52
1	y	704	HIS	CG-CD2	6.72	1.43	1.35
1	f	355	TYR	CA-C	6.72	1.61	1.52
1	i	219	PRO	CA-C	6.72	1.61	1.52
1	G	317	PRO	C-N	6.72	1.43	1.33
1	L	165	GLU	C-N	6.72	1.42	1.33
1	S	328	ARG	N-CA	-6.72	1.37	1.46
1	N	380	MET	N-CA	-6.71	1.38	1.46
1	N	518	SER	CA-C	6.71	1.61	1.52
1	b	485	LYS	CA-C	6.71	1.61	1.52
1	I	112	VAL	CA-C	6.71	1.60	1.52
1	a	191	HIS	C-N	6.71	1.42	1.33
1	c	667	GLN	C-N	6.71	1.41	1.34
1	B	361	GLU	CA-CB	6.71	1.63	1.53
1	F	375	THR	CA-C	-6.71	1.44	1.52
1	L	623	PHE	CA-CB	6.71	1.64	1.53
1	N	134	VAL	CA-C	6.71	1.61	1.52
1	O	182	ASP	CA-C	6.71	1.60	1.53
1	6	429	PHE	CA-C	6.71	1.61	1.52
1	R	367	VAL	N-CA	-6.71	1.38	1.46
1	Y	204	ILE	CA-C	-6.71	1.44	1.52
1	a	640	ARG	CZ-NH2	-6.71	1.24	1.33
1	f	693	LYS	CA-CB	6.71	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	s	589	LEU	CA-C	-6.71	1.44	1.52
1	C	184	GLY	CA-C	6.71	1.60	1.51
1	N	318	LEU	C-N	6.71	1.43	1.34
1	Z	346	GLU	CA-CB	6.71	1.63	1.53
1	m	293	LEU	C-N	6.71	1.42	1.33
1	E	455	ARG	CD-NE	6.71	1.55	1.46
1	9	459	LYS	C-N	6.71	1.42	1.33
1	7	252	TYR	CA-CB	6.70	1.64	1.53
1	7	687	THR	N-CA	-6.70	1.38	1.46
1	f	319	LYS	C-N	6.70	1.42	1.33
1	y	440	GLU	CA-C	6.70	1.61	1.52
1	F	95	GLN	C-N	6.70	1.42	1.33
1	G	558	VAL	CA-CB	-6.70	1.46	1.54
1	q	198	ALA	CA-C	6.70	1.61	1.52
1	O	499	LYS	C-O	-6.70	1.16	1.24
1	k	145	ARG	CD-NE	6.70	1.55	1.46
1	p	377	GLU	C-N	6.70	1.42	1.33
1	q	107	LEU	CA-C	6.70	1.61	1.52
1	q	385	SER	N-CA	6.70	1.54	1.46
1	T	498	TYR	CA-C	6.70	1.61	1.52
1	R	381	HIS	CE1-NE2	6.70	1.39	1.32
1	k	156	VAL	CA-CB	6.70	1.60	1.53
1	8	386	LEU	CA-C	6.69	1.60	1.52
1	i	423	ILE	C-N	6.69	1.43	1.33
1	u	190	ILE	C-N	6.69	1.43	1.33
1	l	690	ARG	NE-CZ	-6.69	1.25	1.33
1	8	361	GLU	CA-C	6.69	1.61	1.52
1	T	487	TYR	CA-C	6.69	1.61	1.52
1	3	538	HIS	ND1-CE1	6.69	1.39	1.32
1	9	213	ILE	CA-C	-6.69	1.44	1.52
1	K	413	SER	CA-C	6.69	1.61	1.52
1	M	226	LEU	CA-CB	6.69	1.62	1.53
1	W	501	PHE	CA-CB	6.69	1.63	1.53
1	0	560	HIS	CG-CD2	-6.69	1.28	1.35
1	E	410	ASP	CA-CB	6.69	1.64	1.53
1	I	290	ILE	C-N	6.69	1.42	1.32
1	N	372	GLU	CA-CB	6.69	1.63	1.53
1	X	264	VAL	CA-C	-6.69	1.48	1.52
1	u	539	PHE	CA-CB	6.69	1.62	1.53
1	9	314	LEU	C-N	6.68	1.43	1.34
1	r	673	ASN	N-CA	-6.68	1.37	1.46
1	p	323	MET	C-N	6.68	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	r	461	TRP	C-N	6.68	1.42	1.34
1	D	651	TYR	CA-C	6.68	1.61	1.52
1	Q	107	LEU	CA-C	6.68	1.61	1.52
1	8	565	GLU	CA-CB	6.68	1.63	1.53
1	m	374	LEU	C-N	6.68	1.42	1.33
1	r	627	GLY	CA-C	-6.68	1.44	1.51
1	C	195	ASN	CA-C	6.68	1.61	1.52
1	J	454	ILE	CA-C	6.68	1.61	1.52
1	n	325	VAL	C-O	6.68	1.31	1.23
1	M	701	GLN	CA-C	6.68	1.61	1.52
1	N	501	PHE	N-CA	-6.68	1.38	1.46
1	X	403	GLU	CA-CB	6.68	1.63	1.53
1	q	108	ARG	CA-C	6.68	1.61	1.52
1	E	357	ARG	CD-NE	6.68	1.55	1.46
1	V	432	ASP	CA-C	6.68	1.61	1.52
1	d	534	VAL	N-CA	6.68	1.54	1.46
1	i	560	HIS	ND1-CE1	6.68	1.39	1.32
1	o	335	ASN	CA-C	6.68	1.61	1.52
1	v	177	GLU	N-CA	-6.68	1.37	1.46
1	x	508	TYR	CA-CB	6.68	1.63	1.53
1	y	581	GLN	CA-C	6.68	1.57	1.53
1	z	594	GLU	N-CA	-6.68	1.38	1.46
1	D	328	ARG	CD-NE	6.67	1.55	1.46
1	0	568	ILE	CA-C	6.67	1.61	1.52
1	b	553	ILE	N-CA	-6.67	1.38	1.46
1	h	156	VAL	CA-CB	-6.67	1.45	1.54
1	A	338	SER	CA-CB	6.67	1.64	1.53
1	m	322	TYR	C-N	6.67	1.42	1.33
1	P	694	GLU	N-CA	6.67	1.54	1.46
1	7	222	THR	N-CA	-6.67	1.38	1.46
1	l	141	VAL	CA-CB	6.67	1.62	1.55
1	m	367	VAL	CA-C	6.67	1.58	1.53
1	T	126	ASP	CA-C	6.67	1.61	1.52
1	0	488	ARG	CZ-NH2	-6.67	1.24	1.33
1	o	496	VAL	CA-C	6.67	1.59	1.53
1	c	215	SER	N-CA	6.67	1.52	1.46
1	z	554	GLU	N-CA	6.67	1.54	1.46
1	6	258	THR	CA-CB	-6.66	1.44	1.53
1	i	326	LYS	N-CA	-6.66	1.37	1.45
1	i	477	HIS	CA-CB	6.66	1.64	1.53
1	v	288	ARG	CD-NE	6.66	1.55	1.46
1	K	565	GLU	CA-CB	6.66	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	461	TRP	CA-CB	6.66	1.63	1.53
1	w	437	VAL	CA-C	6.66	1.61	1.52
1	l	244	GLN	CA-CB	6.66	1.64	1.53
1	l	423	ILE	C-N	6.66	1.42	1.33
1	n	295	LYS	CA-C	6.66	1.61	1.52
1	p	333	ILE	CA-C	-6.66	1.43	1.52
1	I	268	VAL	CA-CB	6.66	1.63	1.54
1	k	358	VAL	CA-CB	6.66	1.61	1.54
1	w	96	LYS	CA-C	6.66	1.61	1.52
1	f	264	VAL	CA-C	-6.66	1.47	1.52
1	q	502	GLU	C-N	6.66	1.42	1.33
1	I	663	LYS	CA-CB	6.66	1.63	1.53
1	k	524	MET	CA-CB	6.66	1.63	1.53
1	m	169	GLY	N-CA	6.66	1.52	1.45
1	o	150	VAL	CA-C	6.66	1.60	1.52
1	C	381	HIS	CA-C	-6.66	1.44	1.52
1	F	174	ARG	CD-NE	6.66	1.55	1.46
1	R	223	ILE	CA-CB	-6.66	1.45	1.55
1	C	579	PHE	CA-C	-6.65	1.44	1.52
1	E	502	GLU	CA-C	6.65	1.61	1.52
1	h	151	THR	C-N	6.65	1.43	1.33
1	s	230	THR	N-CA	6.65	1.54	1.45
1	K	428	MET	C-N	6.65	1.42	1.33
1	P	115	ASP	CA-C	6.65	1.61	1.53
1	X	113	GLU	CD-OE1	6.65	1.38	1.25
1	9	152	ARG	CD-NE	6.65	1.55	1.46
1	q	689	ARG	CA-C	-6.65	1.44	1.52
1	s	640	ARG	CD-NE	6.65	1.55	1.46
1	Z	96	LYS	CA-C	6.65	1.59	1.53
1	C	401	THR	CA-CB	6.65	1.63	1.53
1	k	328	ARG	N-CA	-6.65	1.37	1.46
1	t	280	HIS	ND1-CE1	6.65	1.39	1.32
1	u	518	SER	N-CA	6.65	1.54	1.46
1	B	385	SER	N-CA	6.65	1.54	1.46
1	E	114	GLN	C-N	6.65	1.43	1.33
1	T	397	HIS	ND1-CE1	6.65	1.39	1.32
1	b	405	ARG	CD-NE	6.65	1.55	1.46
1	w	293	LEU	CA-C	-6.65	1.44	1.52
1	A	353	HIS	ND1-CE1	6.65	1.39	1.32
1	0	574	MET	N-CA	-6.64	1.38	1.46
1	e	173	TYR	N-CA	-6.64	1.36	1.46
1	v	474	ASN	C-N	6.64	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Q	549	VAL	C-N	6.64	1.42	1.33
1	c	554	GLU	CA-C	-6.64	1.44	1.52
1	j	141	VAL	C-N	6.64	1.39	1.33
1	t	268	VAL	N-CA	6.64	1.54	1.46
1	C	396	SER	N-CA	-6.64	1.37	1.46
1	H	175	ASN	C-N	6.64	1.42	1.33
1	n	140	GLY	N-CA	6.64	1.54	1.45
1	4	588	VAL	CA-CB	6.64	1.62	1.54
1	a	231	ARG	CA-CB	6.64	1.64	1.53
1	a	676	SER	C-N	6.64	1.43	1.34
1	b	325	VAL	N-CA	6.64	1.53	1.46
1	u	498	TYR	CA-C	6.64	1.61	1.52
1	w	98	ARG	NE-CZ	-6.64	1.25	1.33
1	x	292	ILE	CA-CB	-6.64	1.45	1.54
1	V	549	VAL	CA-CB	6.64	1.62	1.54
1	7	508	TYR	CA-C	6.64	1.61	1.52
1	d	462	VAL	N-CA	6.64	1.54	1.46
1	p	453	LYS	N-CA	-6.64	1.38	1.46
1	l	464	ILE	C-N	6.64	1.42	1.33
1	r	532	ILE	CA-CB	6.64	1.62	1.54
1	t	666	MET	C-N	-6.64	1.24	1.33
1	v	418	LYS	CA-C	6.64	1.61	1.52
1	x	105	ASP	CA-CB	6.64	1.63	1.53
1	G	665	MET	CA-C	6.64	1.61	1.52
1	P	578	VAL	CA-C	6.64	1.60	1.52
1	l	241	ILE	C-N	6.63	1.43	1.33
1	e	152	ARG	NE-CZ	-6.63	1.25	1.33
1	s	164	CYS	CA-CB	6.63	1.64	1.53
1	B	206	HIS	CB-CG	-6.63	1.40	1.50
1	K	106	SER	CA-CB	6.63	1.63	1.53
1	6	393	ILE	CA-CB	6.63	1.62	1.54
1	q	582	ASP	CA-CB	6.63	1.64	1.53
1	A	264	VAL	N-CA	-6.63	1.38	1.46
1	G	295	LYS	C-O	-6.63	1.20	1.23
1	l	490	LYS	CA-CB	6.63	1.63	1.53
1	4	310	VAL	CA-CB	6.63	1.62	1.54
1	h	563	LYS	N-CA	-6.63	1.38	1.46
1	j	471	LYS	CA-C	6.63	1.61	1.52
1	K	627	GLY	N-CA	6.63	1.53	1.45
1	d	488	ARG	CD-NE	6.63	1.55	1.46
1	k	559	LYS	CA-C	6.63	1.61	1.52
1	B	93	TYR	C-N	6.63	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	564	ALA	CA-CB	6.63	1.63	1.53
1	i	664	ALA	CA-CB	6.62	1.64	1.53
1	V	188	LYS	CA-C	6.62	1.61	1.52
1	i	543	PHE	CA-CB	6.62	1.63	1.53
1	M	446	ASN	CA-C	6.62	1.61	1.52
1	6	431	GLN	N-CA	-6.62	1.38	1.46
1	Q	316	TYR	CA-CB	6.62	1.62	1.53
1	U	301	ARG	CA-CB	6.62	1.64	1.53
1	7	297	ASP	CA-CB	6.62	1.65	1.53
1	Z	160	LYS	N-CA	6.62	1.54	1.46
1	3	191	HIS	CD2-NE2	6.62	1.45	1.37
1	5	264	VAL	CA-CB	6.62	1.60	1.53
1	p	459	LYS	CA-C	6.62	1.61	1.52
1	r	546	ASN	C-O	-6.62	1.16	1.24
1	K	629	HIS	CA-C	-6.62	1.44	1.52
1	l	390	GLU	CA-C	6.61	1.61	1.52
1	z	243	LEU	CA-C	-6.61	1.44	1.52
1	P	398	GLN	CA-C	-6.61	1.44	1.52
1	3	231	ARG	CD-NE	6.61	1.55	1.46
1	6	655	ARG	CD-NE	6.61	1.55	1.46
1	b	585	TYR	CA-CB	6.61	1.64	1.53
1	p	295	LYS	CA-CB	6.61	1.63	1.53
1	s	405	ARG	C-N	6.61	1.42	1.33
1	G	170	ARG	CD-NE	6.61	1.55	1.46
1	4	505	VAL	CA-CB	-6.61	1.46	1.54
1	5	283	ASP	CA-CB	6.61	1.63	1.53
1	s	280	HIS	ND1-CE1	6.61	1.39	1.32
1	w	574	MET	CA-C	6.61	1.61	1.52
1	M	689	ARG	CZ-NH2	-6.61	1.24	1.33
1	U	285	GLU	N-CA	-6.61	1.37	1.46
1	p	207	GLU	C-N	6.61	1.42	1.33
1	x	538	HIS	C-O	-6.61	1.16	1.24
1	C	549	VAL	CA-CB	-6.61	1.46	1.54
1	N	512	LEU	N-CA	-6.61	1.37	1.46
1	4	253	ILE	C-N	6.60	1.43	1.33
1	p	491	GLU	CA-CB	6.60	1.61	1.52
1	R	480	VAL	CA-CB	-6.60	1.45	1.54
1	5	406	ARG	CA-C	6.60	1.61	1.52
1	c	301	ARG	CD-NE	6.60	1.55	1.46
1	A	333	ILE	C-N	6.60	1.42	1.33
1	N	395	GLU	N-CA	-6.60	1.38	1.46
1	v	443	VAL	CA-C	6.60	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	393	ILE	CA-C	6.60	1.60	1.52
1	N	676	SER	CA-CB	6.60	1.64	1.53
1	e	353	HIS	ND1-CE1	6.60	1.39	1.32
1	k	288	ARG	C-N	6.60	1.42	1.33
1	p	222	THR	CB-OG1	-6.60	1.33	1.43
1	E	373	ARG	CD-NE	6.60	1.55	1.46
1	O	593	ARG	CD-NE	6.60	1.55	1.46
1	i	708	GLN	CA-C	6.60	1.61	1.52
1	z	339	LEU	C-N	6.60	1.42	1.33
1	L	483	TYR	CB-CG	6.60	1.66	1.51
1	0	690	ARG	CA-CB	6.60	1.63	1.53
1	2	295	LYS	C-O	6.60	1.27	1.23
1	b	191	HIS	C-N	6.60	1.42	1.33
1	N	369	ARG	CD-NE	6.60	1.55	1.46
1	8	563	LYS	CA-C	6.59	1.61	1.52
1	w	544	ASN	C-N	6.59	1.42	1.33
1	T	200	ASN	CA-C	6.59	1.61	1.52
1	p	213	ILE	CA-CB	6.59	1.62	1.53
1	C	101	ILE	CA-C	6.59	1.61	1.52
1	T	108	ARG	CA-C	6.59	1.61	1.52
1	t	644	GLN	CA-C	6.59	1.61	1.52
1	C	545	LEU	CA-C	6.59	1.61	1.52
1	D	549	VAL	N-CA	-6.59	1.38	1.46
1	X	292	ILE	CA-C	-6.59	1.44	1.52
1	7	164	CYS	CA-CB	6.59	1.64	1.53
1	G	584	ILE	CA-C	6.59	1.62	1.52
1	M	414	GLN	CA-C	6.59	1.61	1.52
1	T	376	THR	CA-C	6.59	1.61	1.52
1	0	193	ALA	C-O	-6.59	1.16	1.24
1	s	687	THR	CA-C	-6.59	1.44	1.52
1	D	690	ARG	N-CA	-6.59	1.38	1.46
1	E	303	THR	N-CA	-6.59	1.38	1.46
1	P	379	ILE	N-CA	-6.59	1.38	1.46
1	t	97	VAL	CA-C	6.58	1.61	1.52
1	T	339	LEU	CA-C	6.58	1.61	1.52
1	y	217	GLU	C-N	6.58	1.40	1.33
1	z	260	ASN	CA-C	6.58	1.61	1.52
1	U	143	LEU	N-CA	6.58	1.54	1.45
1	0	167	TRP	CA-C	6.58	1.60	1.52
1	G	283	ASP	CA-CB	6.58	1.62	1.52
1	U	425	LYS	C-N	6.58	1.42	1.34
1	n	107	LEU	CA-C	6.58	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	w	394	ARG	CD-NE	6.58	1.55	1.46
1	D	210	SER	CA-C	-6.58	1.44	1.52
1	K	390	GLU	C-N	6.58	1.42	1.33
1	r	544	ASN	N-CA	6.58	1.54	1.46
1	t	648	ILE	N-CA	-6.58	1.38	1.46
1	A	647	PHE	C-O	-6.58	1.16	1.24
1	J	165	GLU	N-CA	-6.58	1.37	1.46
1	7	101	ILE	CA-C	6.57	1.60	1.52
1	C	551	SER	CA-C	6.57	1.61	1.52
1	R	694	GLU	CA-C	6.57	1.61	1.52
1	2	162	GLN	CA-C	6.57	1.58	1.52
1	3	381	HIS	CD2-NE2	6.57	1.45	1.37
1	d	475	ILE	N-CA	6.57	1.54	1.46
1	r	159	LEU	CA-C	6.57	1.60	1.52
1	x	116	LEU	CA-C	6.57	1.61	1.52
1	S	485	LYS	CA-CB	6.57	1.63	1.53
1	3	217	GLU	C-N	6.57	1.40	1.33
1	o	444	ARG	CA-CB	6.57	1.62	1.53
1	d	280	HIS	ND1-CE1	6.57	1.39	1.32
1	m	406	ARG	CA-CB	6.57	1.63	1.53
1	N	223	ILE	C-O	-6.57	1.16	1.23
1	R	593	ARG	CD-NE	6.57	1.55	1.46
1	V	290	ILE	CA-CB	-6.57	1.45	1.53
1	W	381	HIS	CB-CG	6.57	1.59	1.50
1	i	187	GLU	CA-CB	6.56	1.63	1.53
1	b	559	LYS	N-CA	-6.56	1.38	1.46
1	f	385	SER	CA-C	-6.56	1.43	1.52
1	o	395	GLU	C-N	6.56	1.42	1.33
1	J	268	VAL	CA-C	6.56	1.61	1.52
1	N	162	GLN	CA-C	-6.56	1.45	1.52
1	O	218	VAL	CA-CB	-6.56	1.45	1.54
1	P	357	ARG	CA-CB	6.56	1.63	1.53
1	6	270	ILE	CA-C	-6.56	1.43	1.52
1	g	171	ILE	N-CA	-6.56	1.38	1.46
1	F	270	ILE	CA-C	6.56	1.62	1.52
1	T	673	ASN	CA-C	6.56	1.61	1.52
1	B	674	ARG	CD-NE	6.56	1.55	1.46
1	4	548	THR	CA-CB	6.56	1.64	1.53
1	b	167	TRP	NE1-CE2	-6.56	1.30	1.37
1	u	108	ARG	CD-NE	6.56	1.55	1.46
1	L	482	LYS	N-CA	6.56	1.54	1.46
1	M	629	HIS	CB-CG	6.56	1.59	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	S	588	VAL	CA-C	6.56	1.61	1.52
1	I	446	ASN	CA-C	6.56	1.61	1.52
1	P	544	ASN	CA-CB	6.56	1.63	1.53
1	0	258	THR	CA-C	6.55	1.61	1.52
1	l	627	GLY	C-O	6.55	1.31	1.23
1	m	547	GLN	C-N	6.55	1.43	1.33
1	D	175	ASN	CA-CB	6.55	1.62	1.53
1	7	185	GLN	CA-C	-6.55	1.44	1.52
1	k	698	ARG	CD-NE	6.55	1.55	1.46
1	F	360	LEU	CA-CB	6.55	1.64	1.53
1	L	325	VAL	CA-C	-6.55	1.44	1.52
1	c	224	ILE	CA-C	-6.55	1.44	1.52
1	o	480	VAL	C-N	6.55	1.42	1.33
1	A	454	ILE	N-CA	-6.55	1.38	1.46
1	F	701	GLN	N-CA	6.55	1.54	1.46
1	0	503	ILE	CA-CB	-6.55	1.46	1.54
1	b	576	GLN	N-CA	-6.55	1.38	1.46
1	M	132	SER	CA-CB	6.55	1.64	1.53
1	Q	136	GLU	CA-C	-6.55	1.44	1.52
1	w	455	ARG	NE-CZ	-6.55	1.25	1.33
1	8	295	LYS	C-N	-6.55	1.25	1.34
1	l	122	ALA	N-CA	6.55	1.54	1.46
1	K	97	VAL	C-N	6.55	1.42	1.33
1	6	519	MET	SD-CE	6.54	1.96	1.79
1	B	629	HIS	ND1-CE1	6.54	1.39	1.32
1	Y	421	PHE	CA-C	6.54	1.61	1.52
1	h	237	GLN	C-N	6.54	1.42	1.33
1	j	388	LEU	N-CA	6.54	1.54	1.46
1	J	622	SER	C-N	6.54	1.43	1.33
1	R	440	GLU	CA-CB	6.54	1.63	1.53
1	2	174	ARG	CD-NE	6.54	1.55	1.46
1	I	630	LEU	CA-C	6.54	1.61	1.52
1	I	688	LYS	CA-CB	6.54	1.64	1.53
1	c	205	SER	C-O	-6.54	1.15	1.23
1	L	420	PHE	CA-CB	6.54	1.63	1.53
1	8	395	GLU	CA-CB	6.54	1.63	1.53
1	d	647	PHE	N-CA	6.54	1.54	1.46
1	x	423	ILE	CA-C	-6.54	1.44	1.52
1	C	560	HIS	ND1-CE1	6.54	1.39	1.32
1	U	359	LEU	CA-C	6.54	1.61	1.52
1	2	267	ASN	N-CA	-6.54	1.38	1.46
1	D	536	LYS	CA-CB	6.54	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	508	TYR	CA-C	6.54	1.61	1.52
1	B	169	GLY	CA-C	-6.54	1.44	1.51
1	0	170	ARG	CD-NE	6.53	1.55	1.46
1	K	176	THR	CA-C	6.53	1.60	1.52
1	O	135	LEU	CA-C	-6.53	1.44	1.52
1	Y	436	LEU	CA-C	6.53	1.61	1.52
1	f	514	GLU	CA-C	6.53	1.61	1.52
1	m	280	HIS	ND1-CE1	6.53	1.39	1.32
1	C	567	MET	N-CA	6.53	1.54	1.46
1	M	166	ALA	C-N	6.53	1.41	1.33
1	6	244	GLN	CA-C	-6.53	1.44	1.52
1	x	331	GLN	C-N	6.53	1.42	1.33
1	P	326	LYS	CA-CB	6.53	1.62	1.53
1	2	212	GLU	CA-CB	6.53	1.62	1.53
1	3	487	TYR	CA-CB	6.53	1.63	1.53
1	U	292	ILE	CA-CB	-6.53	1.46	1.54
1	e	466	ALA	N-CA	-6.53	1.38	1.46
1	n	439	GLY	CA-C	-6.53	1.42	1.51
1	t	695	ARG	CA-CB	6.53	1.63	1.53
1	D	414	GLN	C-N	6.53	1.42	1.33
1	E	657	ASN	C-N	6.53	1.42	1.33
1	U	338	SER	CA-C	6.53	1.60	1.52
1	3	182	ASP	CA-C	6.52	1.59	1.52
1	d	654	LEU	CA-C	6.52	1.57	1.52
1	e	347	ILE	C-N	6.52	1.42	1.33
1	f	535	ALA	C-O	-6.52	1.16	1.24
1	k	359	LEU	C-O	-6.52	1.16	1.24
1	W	299	MET	CA-CB	6.52	1.61	1.53
1	a	547	GLN	C-N	6.52	1.42	1.33
1	e	585	TYR	CA-CB	6.52	1.63	1.53
1	0	206	HIS	CG-CD2	6.52	1.43	1.35
1	4	324	ILE	C-N	6.52	1.41	1.33
1	W	450	LEU	C-N	6.52	1.42	1.33
1	Y	285	GLU	C-N	6.52	1.40	1.33
1	k	143	LEU	CA-CB	-6.52	1.44	1.53
1	P	267	ASN	CA-C	6.52	1.61	1.52
1	a	297	ASP	C-N	6.52	1.43	1.33
1	t	527	ILE	C-N	6.52	1.42	1.33
1	I	457	ASP	N-CA	-6.52	1.37	1.46
1	K	280	HIS	ND1-CE1	6.52	1.39	1.32
1	4	586	SER	CA-C	6.51	1.61	1.52
1	7	441	GLU	CA-C	6.51	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	o	275	ALA	CA-CB	6.51	1.64	1.53
1	K	228	GLY	CA-C	6.51	1.57	1.52
1	N	629	HIS	C-N	6.51	1.41	1.33
1	T	638	SER	CA-CB	6.51	1.63	1.53
1	6	443	VAL	CA-CB	-6.51	1.46	1.54
1	h	126	ASP	CA-C	-6.51	1.44	1.52
1	A	373	ARG	CD-NE	6.51	1.55	1.46
1	j	485	LYS	CA-C	-6.51	1.43	1.52
1	k	472	VAL	CA-C	6.51	1.61	1.52
1	E	449	ARG	CD-NE	6.51	1.55	1.46
1	F	661	LEU	CA-CB	6.51	1.64	1.53
1	Y	145	ARG	CA-CB	6.51	1.63	1.53
1	7	704	HIS	ND1-CE1	6.51	1.39	1.32
1	v	488	ARG	CZ-NH2	-6.51	1.25	1.33
1	z	102	ASP	CA-CB	6.51	1.63	1.53
1	z	238	PRO	N-CD	6.51	1.56	1.47
1	Q	424	GLU	CA-CB	6.51	1.63	1.53
1	v	522	LYS	C-N	6.51	1.42	1.33
1	a	144	PRO	N-CA	-6.51	1.39	1.47
1	a	701	GLN	C-N	6.51	1.42	1.33
1	c	668	ILE	CA-CB	6.51	1.63	1.54
1	e	307	VAL	CA-CB	-6.51	1.46	1.54
1	i	290	ILE	C-N	6.51	1.39	1.33
1	s	440	GLU	C-N	6.51	1.42	1.33
1	E	402	GLU	CA-C	-6.51	1.44	1.52
1	I	413	SER	CA-C	6.51	1.60	1.52
1	O	550	GLN	N-CA	-6.51	1.37	1.46
1	R	186	VAL	C-N	6.51	1.41	1.33
1	T	264	VAL	CA-C	6.51	1.59	1.52
1	r	153	CYS	CA-CB	6.50	1.61	1.53
1	V	538	HIS	ND1-CE1	6.50	1.39	1.32
1	X	462	VAL	CA-CB	-6.50	1.46	1.54
1	0	396	SER	C-N	6.50	1.42	1.33
1	e	704	HIS	CD2-NE2	6.50	1.45	1.37
1	Z	559	LYS	CA-C	6.50	1.61	1.52
1	b	537	LYS	CA-CB	6.50	1.63	1.53
1	A	660	SER	CA-CB	6.50	1.63	1.53
1	H	127	GLN	CA-C	-6.50	1.44	1.52
1	O	671	GLU	CA-C	6.50	1.61	1.52
1	S	281	GLU	CA-CB	6.50	1.63	1.53
1	t	684	GLU	C-N	6.50	1.42	1.33
1	F	235	ASP	CA-C	6.50	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	T	527	ILE	N-CA	-6.50	1.39	1.46
1	U	261	LEU	CA-C	6.50	1.60	1.52
1	8	316	TYR	CA-C	6.50	1.60	1.52
1	i	498	TYR	N-CA	-6.50	1.38	1.46
1	k	595	GLU	CA-CB	6.50	1.63	1.53
1	t	651	TYR	CA-CB	6.50	1.63	1.53
1	E	510	GLN	N-CA	6.50	1.54	1.46
1	F	647	PHE	CA-CB	6.50	1.63	1.53
1	D	640	ARG	CD-NE	6.50	1.55	1.46
1	E	225	ASP	CA-CB	6.50	1.61	1.53
1	p	640	ARG	CA-C	6.49	1.61	1.52
1	q	151	THR	CA-C	-6.49	1.44	1.52
1	s	381	HIS	C-N	6.49	1.41	1.33
1	M	556	ILE	C-O	-6.49	1.16	1.24
1	9	412	PRO	N-CA	-6.49	1.39	1.47
1	w	204	ILE	CA-CB	6.49	1.63	1.54
1	F	462	VAL	N-CA	6.49	1.54	1.46
1	V	191	HIS	CA-CB	-6.49	1.43	1.53
1	0	563	LYS	N-CA	-6.49	1.38	1.46
1	2	250	LYS	N-CA	-6.49	1.38	1.46
1	8	658	GLY	CA-C	-6.49	1.45	1.52
1	k	236	ASN	N-CA	6.49	1.54	1.46
1	0	258	THR	CA-CB	6.49	1.63	1.53
1	0	411	ILE	N-CA	6.49	1.54	1.46
1	0	465	LEU	CA-CB	6.49	1.63	1.53
1	d	191	HIS	ND1-CE1	6.49	1.39	1.32
1	r	102	ASP	CA-CB	6.49	1.63	1.53
1	y	594	GLU	CA-C	6.49	1.60	1.52
1	C	507	GLN	CA-CB	6.49	1.63	1.53
1	Z	503	ILE	CA-C	-6.49	1.44	1.52
1	8	118	LEU	C-N	-6.49	1.25	1.33
1	a	214	THR	CA-C	-6.49	1.44	1.52
1	o	243	LEU	CA-CB	6.49	1.63	1.53
1	3	554	GLU	N-CA	6.49	1.54	1.46
1	9	306	SER	CA-CB	6.49	1.63	1.53
1	e	224	ILE	CA-CB	-6.49	1.46	1.54
1	e	334	THR	CA-C	6.49	1.61	1.52
1	w	688	LYS	CA-C	6.49	1.61	1.52
1	A	206	HIS	ND1-CE1	6.49	1.39	1.32
1	J	580	CYS	C-N	6.49	1.38	1.33
1	O	182	ASP	CA-CB	6.49	1.63	1.53
1	S	453	LYS	CA-CB	6.48	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	0	262	VAL	C-N	6.48	1.42	1.33
1	i	368	PRO	C-N	6.48	1.42	1.33
1	u	442	VAL	CA-C	-6.48	1.45	1.52
1	B	295	LYS	CA-C	6.48	1.60	1.52
1	N	422	LEU	CA-C	6.48	1.61	1.52
1	6	238	PRO	N-CA	6.48	1.54	1.47
1	m	574	MET	CA-CB	6.48	1.63	1.53
1	o	347	ILE	CA-CB	-6.48	1.46	1.54
1	F	650	GLN	CA-CB	6.48	1.63	1.53
1	I	232	VAL	CA-C	6.48	1.59	1.52
1	I	627	GLY	CA-C	6.48	1.59	1.52
1	I	669	LEU	N-CA	-6.48	1.37	1.46
1	O	506	HIS	CD2-NE2	6.48	1.45	1.37
1	6	361	GLU	N-CA	-6.48	1.38	1.46
1	m	647	PHE	C-N	6.48	1.42	1.33
1	q	657	ASN	CA-CB	6.48	1.63	1.53
1	y	704	HIS	N-CA	6.48	1.54	1.46
1	A	325	VAL	CA-C	-6.48	1.44	1.52
1	E	361	GLU	CA-C	-6.48	1.44	1.52
1	H	450	LEU	CA-CB	6.48	1.64	1.53
1	I	506	HIS	ND1-CE1	6.48	1.39	1.32
1	9	346	GLU	C-N	6.48	1.42	1.33
1	j	138	LEU	N-CA	6.47	1.54	1.46
1	E	178	LEU	CA-C	-6.47	1.45	1.52
1	E	410	ASP	N-CA	6.47	1.54	1.46
1	O	365	ALA	CA-CB	6.47	1.63	1.53
1	5	206	HIS	ND1-CE1	6.47	1.39	1.32
1	l	365	ALA	C-N	6.47	1.42	1.33
1	x	328	ARG	N-CA	-6.47	1.38	1.46
1	J	461	TRP	NE1-CE2	-6.47	1.30	1.37
1	6	530	ALA	C-N	6.47	1.42	1.33
1	y	241	ILE	C-N	-6.47	1.25	1.33
1	C	214	THR	C-O	-6.47	1.16	1.24
1	K	640	ARG	CD-NE	6.47	1.55	1.46
1	Q	505	VAL	N-CA	-6.47	1.39	1.46
1	p	110	LEU	CA-CB	6.47	1.64	1.53
1	p	217	GLU	CA-CB	6.47	1.63	1.54
1	t	495	PHE	C-N	6.47	1.42	1.33
1	u	566	ASN	CA-CB	6.47	1.63	1.53
1	x	478	GLU	N-CA	-6.47	1.38	1.46
1	y	474	ASN	C-N	6.47	1.42	1.33
1	I	314	LEU	C-N	6.47	1.42	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	651	TYR	C-O	-6.47	1.16	1.24
1	U	462	VAL	CA-C	-6.47	1.44	1.52
1	U	502	GLU	CA-C	6.47	1.61	1.52
1	4	633	TYR	CA-C	6.46	1.61	1.52
1	A	423	ILE	CA-C	6.46	1.60	1.52
1	B	259	ILE	N-CA	6.46	1.53	1.46
1	R	180	LEU	CA-CB	6.46	1.63	1.54
1	Z	483	TYR	CA-CB	6.46	1.63	1.53
1	9	372	GLU	N-CA	6.46	1.54	1.46
1	c	93	TYR	CA-CB	6.46	1.66	1.53
1	v	511	GLN	CA-CB	6.46	1.64	1.53
1	H	349	PHE	C-N	6.46	1.42	1.33
1	K	430	ASN	CA-CB	6.46	1.63	1.53
1	N	258	THR	CA-C	-6.46	1.44	1.52
1	g	293	LEU	N-CA	-6.46	1.38	1.46
1	n	573	ARG	CD-NE	6.46	1.55	1.46
1	r	557	LYS	N-CA	-6.46	1.38	1.46
1	0	654	LEU	C-N	6.46	1.41	1.33
1	3	465	LEU	CA-CB	6.46	1.63	1.53
1	D	512	LEU	CA-C	6.46	1.61	1.52
1	U	318	LEU	C-N	6.46	1.42	1.33
1	3	444	ARG	CD-NE	6.46	1.55	1.46
1	5	171	ILE	CA-C	6.46	1.60	1.52
1	b	490	LYS	N-CA	-6.46	1.38	1.46
1	h	121	ILE	CA-CB	-6.46	1.46	1.54
1	q	465	LEU	CA-C	6.46	1.61	1.52
1	w	381	HIS	CD2-NE2	6.46	1.45	1.37
1	a	557	LYS	N-CA	-6.46	1.38	1.46
1	q	491	GLU	N-CA	6.46	1.54	1.46
1	M	586	SER	CA-CB	6.46	1.63	1.53
1	1	535	ALA	CA-C	-6.45	1.44	1.52
1	8	449	ARG	CZ-NH1	-6.45	1.23	1.32
1	a	187	GLU	CA-CB	6.45	1.63	1.53
1	d	501	PHE	CA-C	6.45	1.61	1.52
1	m	421	PHE	N-CA	-6.45	1.38	1.46
1	T	436	LEU	CA-CB	6.45	1.63	1.53
1	m	126	ASP	CA-C	6.45	1.60	1.52
1	C	660	SER	CA-C	-6.45	1.44	1.52
1	t	566	ASN	C-N	6.45	1.42	1.33
1	v	366	THR	CA-C	6.45	1.61	1.52
1	F	98	ARG	CA-C	6.45	1.59	1.52
1	G	550	GLN	N-CA	6.45	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	271	ALA	N-CA	6.45	1.54	1.46
1	O	385	SER	N-CA	6.45	1.54	1.46
1	2	432	ASP	C-N	-6.45	1.25	1.33
1	4	566	ASN	CA-CB	6.45	1.63	1.53
1	n	507	GLN	CA-CB	6.45	1.63	1.53
1	A	591	LYS	N-CA	-6.45	1.38	1.46
1	O	316	TYR	CA-CB	6.45	1.62	1.53
1	Q	187	GLU	CA-CB	6.45	1.63	1.53
1	T	223	ILE	CA-C	6.45	1.60	1.52
1	X	688	LYS	N-CA	-6.45	1.38	1.46
1	p	134	VAL	CA-CB	-6.45	1.47	1.54
1	w	295	LYS	CA-C	6.45	1.60	1.52
1	O	192	LYS	C-N	6.45	1.42	1.33
1	P	319	LYS	C-N	6.45	1.42	1.33
1	W	105	ASP	CA-CB	6.45	1.63	1.53
1	Z	202	ARG	CD-NE	6.45	1.55	1.46
1	G	520	LEU	N-CA	6.44	1.54	1.46
1	N	652	PHE	CA-CB	6.44	1.63	1.53
1	e	290	ILE	C-N	6.44	1.36	1.33
1	J	703	ARG	CD-NE	6.44	1.55	1.46
1	Q	457	ASP	CA-C	6.44	1.61	1.52
1	I	152	ARG	CD-NE	6.44	1.55	1.46
1	I	424	GLU	N-CA	6.44	1.54	1.46
1	6	235	ASP	CA-C	6.44	1.60	1.53
1	e	479	GLU	CA-C	-6.44	1.44	1.52
1	k	681	GLU	C-N	6.44	1.42	1.33
1	o	290	ILE	CA-CB	6.44	1.62	1.54
1	y	455	ARG	N-CA	6.44	1.54	1.46
1	Q	665	MET	C-N	6.44	1.42	1.33
1	Y	393	ILE	CA-C	6.44	1.60	1.52
1	o	113	GLU	CA-C	6.43	1.61	1.52
1	q	420	PHE	CA-CB	-6.43	1.43	1.53
1	C	336	ARG	CA-CB	6.43	1.63	1.53
1	4	404	LEU	C-N	6.43	1.42	1.33
1	j	155	LEU	N-CA	-6.43	1.38	1.46
1	p	679	LEU	C-N	6.43	1.42	1.33
1	C	233	ALA	CA-C	6.43	1.61	1.53
1	K	459	LYS	CA-C	6.43	1.60	1.52
1	o	503	ILE	C-N	-6.43	1.26	1.34
1	p	543	PHE	N-CA	6.43	1.54	1.46
1	X	193	ALA	C-N	6.43	1.42	1.33
1	X	446	ASN	N-CA	6.43	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	190	ILE	C-N	6.43	1.42	1.33
1	9	643	ASN	CA-CB	6.43	1.63	1.53
1	u	297	ASP	CA-C	-6.43	1.43	1.52
1	w	195	ASN	C-N	6.43	1.42	1.33
1	z	688	LYS	CA-CB	6.43	1.63	1.53
1	X	349	PHE	CA-CB	6.43	1.63	1.53
1	q	283	ASP	C-N	-6.43	1.27	1.34
1	B	490	LYS	C-N	6.43	1.41	1.33
1	C	686	ALA	C-N	6.43	1.41	1.33
1	n	236	ASN	C-N	6.43	1.43	1.33
1	s	566	ASN	C-N	-6.43	1.25	1.33
1	y	452	ASN	CA-C	6.43	1.61	1.52
1	P	171	ILE	N-CA	-6.43	1.38	1.46
1	U	440	GLU	N-CA	6.43	1.52	1.46
1	2	357	ARG	CD-NE	6.42	1.55	1.46
1	z	647	PHE	CA-C	6.42	1.60	1.52
1	A	531	PHE	CG-CD1	6.42	1.52	1.38
1	G	144	PRO	CA-CB	6.42	1.61	1.53
1	4	509	ILE	CA-CB	-6.42	1.46	1.54
1	a	179	GLU	N-CA	-6.42	1.38	1.46
1	z	527	ILE	CA-CB	6.42	1.62	1.54
1	I	205	SER	CA-C	6.42	1.60	1.52
1	J	288	ARG	CD-NE	6.42	1.55	1.46
1	3	477	HIS	C-N	6.42	1.42	1.33
1	9	144	PRO	N-CA	6.42	1.54	1.47
1	F	500	THR	C-N	6.42	1.42	1.33
1	W	371	ALA	C-O	-6.42	1.16	1.24
1	Z	482	LYS	CA-C	6.42	1.61	1.52
1	0	688	LYS	CA-CB	6.42	1.63	1.53
1	7	629	HIS	ND1-CE1	6.42	1.39	1.32
1	i	421	PHE	CA-CB	6.42	1.63	1.53
1	D	661	LEU	N-CA	-6.42	1.38	1.46
1	M	386	LEU	C-N	6.42	1.42	1.34
1	O	288	ARG	CA-C	-6.42	1.44	1.52
1	0	100	CYS	CA-CB	6.42	1.63	1.53
1	6	123	VAL	CA-CB	-6.42	1.46	1.54
1	1	506	HIS	ND1-CE1	6.42	1.39	1.32
1	o	560	HIS	CG-ND1	6.42	1.45	1.38
1	6	174	ARG	CD-NE	6.41	1.55	1.46
1	b	236	ASN	CA-CB	6.41	1.64	1.53
1	m	534	VAL	C-N	6.41	1.42	1.33
1	u	521	GLN	N-CA	-6.41	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	p	473	LYS	C-N	6.41	1.42	1.33
1	R	393	ILE	CA-C	6.41	1.60	1.52
1	5	192	LYS	CA-C	6.41	1.61	1.52
1	a	689	ARG	CA-CB	6.41	1.63	1.53
1	B	560	HIS	CA-C	-6.41	1.44	1.52
1	G	109	ALA	N-CA	-6.41	1.37	1.46
1	P	528	GLN	CA-C	6.41	1.60	1.52
1	l	688	LYS	C-N	6.41	1.42	1.33
1	o	164	CYS	C-N	6.41	1.42	1.33
1	C	445	GLU	CA-C	6.41	1.60	1.52
1	E	664	ALA	CA-C	6.41	1.60	1.52
1	R	706	LEU	C-N	6.41	1.42	1.33
1	X	508	TYR	N-CA	6.41	1.53	1.46
1	K	666	MET	CA-CB	6.41	1.64	1.53
1	0	638	SER	N-CA	-6.41	1.38	1.46
1	a	591	LYS	C-N	6.41	1.41	1.33
1	v	445	GLU	C-N	6.41	1.42	1.33
1	A	537	LYS	CA-CB	6.41	1.64	1.53
1	T	228	GLY	C-N	6.41	1.39	1.33
1	W	359	LEU	CA-CB	6.41	1.63	1.53
1	W	492	LEU	C-N	6.41	1.42	1.33
1	H	392	GLN	CA-CB	6.40	1.63	1.53
1	1	561	THR	CA-C	6.40	1.61	1.52
1	9	202	ARG	CD-NE	6.40	1.55	1.46
1	a	178	LEU	CA-C	-6.40	1.45	1.52
1	e	477	HIS	CE1-NE2	-6.40	1.26	1.32
1	g	653	MET	C-N	6.40	1.41	1.33
1	J	337	LEU	N-CA	-6.40	1.38	1.46
1	O	176	THR	CA-C	6.40	1.60	1.52
1	8	181	GLN	CA-C	6.40	1.58	1.52
1	f	139	SER	CA-C	6.40	1.58	1.52
1	x	159	LEU	N-CA	-6.40	1.38	1.46
1	z	448	THR	C-N	6.40	1.41	1.33
1	m	217	GLU	N-CA	-6.40	1.38	1.46
1	g	632	ALA	CA-C	6.40	1.61	1.52
1	w	372	GLU	N-CA	6.40	1.54	1.46
1	z	122	ALA	CA-C	-6.40	1.45	1.52
1	j	147	SER	N-CA	6.40	1.54	1.46
1	r	411	ILE	CB-CG1	6.40	1.66	1.53
1	d	671	GLU	CA-CB	6.39	1.61	1.53
1	v	695	ARG	NE-CZ	-6.39	1.26	1.33
1	x	591	LYS	C-N	6.39	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	444	ARG	CD-NE	6.39	1.55	1.46
1	B	701	GLN	CA-CB	6.39	1.63	1.53
1	E	381	HIS	CG-CD2	6.39	1.42	1.35
1	V	433	ILE	CA-CB	6.39	1.61	1.54
1	0	629	HIS	CB-CG	6.39	1.59	1.50
1	3	455	ARG	CD-NE	6.39	1.55	1.46
1	3	544	ASN	C-O	-6.39	1.16	1.24
1	3	648	ILE	CA-CB	-6.39	1.47	1.54
1	d	329	GLY	CA-C	-6.39	1.44	1.51
1	n	580	CYS	C-N	6.39	1.38	1.33
1	K	236	ASN	CA-CB	6.39	1.62	1.53
1	P	548	THR	CA-C	6.39	1.61	1.52
1	0	553	ILE	N-CA	-6.39	1.39	1.46
1	a	427	LYS	C-N	6.39	1.42	1.33
1	I	524	MET	N-CA	-6.39	1.38	1.46
1	m	444	ARG	CD-NE	6.39	1.55	1.46
1	E	452	ASN	CA-C	6.39	1.61	1.52
1	G	322	TYR	CA-C	-6.39	1.44	1.52
1	G	348	THR	N-CA	6.39	1.54	1.46
1	E	427	LYS	CA-CB	6.39	1.63	1.53
1	I	377	GLU	CA-CB	6.39	1.63	1.53
1	j	581	GLN	N-CA	6.39	1.54	1.46
1	r	163	PRO	N-CA	-6.39	1.42	1.47
1	v	376	THR	CA-CB	6.39	1.63	1.53
1	F	543	PHE	N-CA	-6.39	1.38	1.46
1	X	258	THR	CA-C	6.39	1.61	1.52
1	s	700	THR	CA-CB	6.38	1.64	1.53
1	5	232	VAL	C-N	6.38	1.42	1.33
1	p	225	ASP	CA-C	6.38	1.61	1.52
1	z	191	HIS	ND1-CE1	6.38	1.39	1.32
1	G	700	THR	CA-C	6.38	1.61	1.52
1	X	447	GLU	CA-C	6.38	1.62	1.53
1	0	529	GLN	N-CA	-6.38	1.38	1.46
1	Z	304	GLU	CA-C	6.38	1.61	1.52
1	c	555	ASP	C-N	6.38	1.42	1.33
1	c	567	MET	N-CA	-6.38	1.38	1.46
1	e	157	LEU	CA-CB	6.38	1.61	1.53
1	x	455	ARG	C-N	6.38	1.42	1.33
1	L	596	ILE	C-N	6.38	1.42	1.33
1	Z	655	ARG	CD-NE	6.38	1.55	1.46
1	n	108	ARG	CD-NE	6.38	1.55	1.46
1	t	644	GLN	C-O	-6.38	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	440	GLU	N-CA	-6.38	1.37	1.46
1	h	162	GLN	CA-C	-6.38	1.45	1.52
1	C	583	GLN	C-N	6.38	1.41	1.34
1	2	460	ASN	CA-CB	6.37	1.63	1.53
1	i	195	ASN	CA-CB	6.37	1.63	1.53
1	j	639	LYS	C-N	6.37	1.42	1.33
1	v	429	PHE	CA-C	6.37	1.60	1.52
1	J	228	GLY	C-N	6.37	1.39	1.33
1	S	381	HIS	CD2-NE2	6.37	1.44	1.37
1	g	450	LEU	C-N	6.37	1.42	1.33
1	F	257	GLN	N-CA	-6.37	1.37	1.46
1	K	383	GLN	N-CA	6.37	1.54	1.46
1	O	132	SER	CA-CB	6.37	1.64	1.53
1	T	534	VAL	N-CA	-6.37	1.39	1.46
1	9	156	VAL	CA-C	-6.37	1.46	1.52
1	A	353	HIS	C-N	6.37	1.41	1.34
1	d	286	GLY	C-N	6.37	1.43	1.33
1	j	308	MET	N-CA	-6.37	1.38	1.46
1	q	417	ASP	CA-C	6.37	1.61	1.52
1	s	458	PHE	C-N	6.37	1.42	1.33
1	z	185	GLN	CA-CB	6.37	1.64	1.53
1	Q	147	SER	C-N	6.37	1.40	1.33
1	Y	179	GLU	CA-C	6.37	1.60	1.52
1	l	102	ASP	N-CA	-6.37	1.38	1.46
1	X	572	PHE	C-N	6.37	1.42	1.34
1	R	149	ILE	N-CA	6.37	1.54	1.46
1	R	531	PHE	CA-CB	6.37	1.63	1.53
1	8	490	LYS	N-CA	6.36	1.54	1.46
1	g	132	SER	CA-C	-6.36	1.44	1.52
1	o	703	ARG	CZ-NH1	-6.36	1.23	1.32
1	w	638	SER	CA-C	6.36	1.61	1.52
1	E	379	ILE	N-CA	6.36	1.54	1.46
1	X	160	LYS	CA-CB	6.36	1.63	1.53
1	i	586	SER	CA-CB	6.36	1.63	1.53
1	G	482	LYS	C-O	-6.36	1.16	1.24
1	m	488	ARG	CD-NE	6.36	1.55	1.46
1	E	670	GLN	C-N	6.36	1.42	1.33
1	M	191	HIS	CG-ND1	6.36	1.45	1.38
1	T	192	LYS	C-O	-6.36	1.16	1.24
1	3	440	GLU	CA-C	-6.36	1.44	1.52
1	q	380	MET	N-CA	-6.36	1.38	1.46
1	w	325	VAL	N-CA	-6.36	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	y	578	VAL	CA-C	6.36	1.59	1.52
1	E	374	LEU	N-CA	-6.36	1.38	1.46
1	M	522	LYS	CA-CB	6.36	1.63	1.53
1	O	429	PHE	CA-CB	6.36	1.63	1.53
1	X	149	ILE	CA-CB	-6.36	1.48	1.54
1	0	345	LYS	CA-CB	6.36	1.63	1.53
1	x	632	ALA	CA-CB	6.36	1.63	1.53
1	y	655	ARG	CD-NE	6.36	1.55	1.46
1	E	517	LEU	CA-C	6.36	1.61	1.52
1	E	693	LYS	C-N	6.36	1.42	1.33
1	J	381	HIS	C-O	-6.36	1.16	1.24
1	L	147	SER	N-CA	6.36	1.54	1.46
1	T	553	ILE	C-N	6.36	1.42	1.33
1	4	386	LEU	CA-C	6.35	1.60	1.52
1	d	458	PHE	CA-CB	6.35	1.64	1.53
1	m	173	TYR	CA-CB	6.35	1.64	1.53
1	p	411	ILE	C-N	6.35	1.39	1.33
1	2	502	GLU	C-N	6.35	1.41	1.33
1	5	238	PRO	C-O	-6.35	1.15	1.24
1	7	127	GLN	CA-CB	6.35	1.64	1.53
1	e	687	THR	C-N	6.35	1.42	1.33
1	y	101	ILE	CA-C	6.35	1.60	1.52
1	E	659	ASP	CA-C	6.35	1.60	1.52
1	N	508	TYR	C-N	6.35	1.42	1.33
1	2	539	PHE	CA-CB	6.35	1.63	1.53
1	l	702	ALA	C-N	6.35	1.42	1.33
1	1	640	ARG	CZ-NH2	-6.35	1.25	1.33
1	e	213	ILE	CA-CB	-6.35	1.46	1.54
1	G	292	ILE	CA-C	6.35	1.60	1.52
1	W	357	ARG	CA-C	6.35	1.61	1.52
1	2	326	LYS	CA-C	6.35	1.61	1.52
1	g	333	ILE	CA-CB	6.35	1.62	1.54
1	E	623	PHE	CA-C	-6.35	1.44	1.52
1	G	634	PHE	CA-CB	6.35	1.63	1.53
1	R	639	LYS	N-CA	6.35	1.54	1.46
1	W	663	LYS	C-N	6.35	1.42	1.34
1	P	433	ILE	C-N	6.35	1.42	1.33
1	d	692	LEU	N-CA	-6.34	1.38	1.46
1	s	239	ARG	CA-C	6.34	1.60	1.52
1	v	463	GLY	N-CA	6.34	1.53	1.45
1	x	97	VAL	CA-C	-6.34	1.44	1.53
1	M	425	LYS	N-CA	-6.34	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	519	MET	C-N	6.34	1.42	1.33
1	E	309	ASN	CA-C	6.34	1.61	1.52
1	V	577	MET	CA-CB	6.34	1.62	1.53
1	6	438	GLU	CA-CB	6.34	1.64	1.53
1	g	150	VAL	CA-C	6.34	1.60	1.52
1	g	242	GLY	C-N	6.34	1.42	1.33
1	r	346	GLU	CA-C	6.34	1.61	1.52
1	C	707	CYS	CA-CB	6.34	1.63	1.53
1	O	124	ILE	CA-C	-6.34	1.44	1.52
1	q	440	GLU	N-CA	6.34	1.55	1.45
1	w	210	SER	CA-CB	6.34	1.63	1.53
1	E	397	HIS	CG-ND1	6.34	1.45	1.38
1	G	288	ARG	NE-CZ	-6.34	1.26	1.33
1	S	646	PRO	N-CD	6.34	1.56	1.47
1	l	196	VAL	CA-CB	-6.34	1.47	1.54
1	8	357	ARG	CD-NE	6.34	1.55	1.46
1	p	354	PRO	C-N	6.34	1.42	1.33
1	r	182	ASP	CA-CB	6.34	1.62	1.53
1	z	710	SER	N-CA	6.34	1.53	1.46
1	F	239	ARG	C-N	6.34	1.42	1.33
1	O	538	HIS	ND1-CE1	6.34	1.38	1.32
1	9	496	VAL	C-N	6.33	1.42	1.33
1	a	131	LYS	CA-C	6.33	1.61	1.52
1	g	226	LEU	CA-C	-6.33	1.45	1.53
1	r	242	GLY	N-CA	6.33	1.53	1.45
1	w	123	VAL	CA-CB	6.33	1.60	1.53
1	N	337	LEU	CA-CB	6.33	1.63	1.53
1	U	317	PRO	C-N	6.33	1.41	1.33
1	y	362	GLU	N-CA	-6.33	1.38	1.46
1	4	376	THR	N-CA	-6.33	1.38	1.46
1	5	543	PHE	CA-C	6.33	1.60	1.52
1	9	506	HIS	CG-CD2	6.33	1.42	1.35
1	t	472	VAL	C-N	6.33	1.42	1.34
1	z	316	TYR	CA-C	6.33	1.57	1.52
1	U	449	ARG	N-CA	-6.33	1.38	1.46
1	A	307	VAL	N-CA	6.33	1.54	1.46
1	C	525	GLU	C-N	6.33	1.41	1.33
1	J	444	ARG	CA-C	6.33	1.61	1.52
1	l	431	GLN	CA-CB	6.33	1.63	1.53
1	5	703	ARG	CA-CB	6.33	1.63	1.53
1	f	413	SER	C-N	6.33	1.42	1.33
1	C	351	GLN	CA-C	6.33	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	115	ASP	CA-C	6.33	1.61	1.52
1	Y	674	ARG	NE-CZ	6.33	1.40	1.33
1	7	506	HIS	ND1-CE1	6.32	1.38	1.32
1	j	223	ILE	C-O	-6.32	1.17	1.24
1	D	278	MET	CA-CB	6.32	1.63	1.53
1	J	421	PHE	C-N	6.32	1.42	1.33
1	3	162	GLN	N-CA	-6.32	1.40	1.46
1	f	211	LEU	CA-CB	6.32	1.65	1.53
1	y	353	HIS	ND1-CE1	6.32	1.38	1.32
1	M	420	PHE	C-N	6.32	1.42	1.33
1	X	396	SER	N-CA	-6.32	1.38	1.46
1	Y	263	VAL	C-N	6.32	1.40	1.33
1	Z	478	GLU	C-N	6.32	1.43	1.33
1	0	156	VAL	N-CA	-6.32	1.38	1.46
1	b	138	LEU	CA-C	6.32	1.60	1.52
1	f	202	ARG	CZ-NH1	-6.32	1.24	1.32
1	x	457	ASP	CA-C	6.32	1.60	1.52
1	R	345	LYS	CA-C	6.32	1.60	1.52
1	6	636	GLU	N-CA	6.32	1.53	1.46
1	d	104	ILE	N-CA	6.32	1.54	1.46
1	q	228	GLY	C-N	6.32	1.41	1.33
1	y	502	GLU	C-N	6.32	1.42	1.34
1	U	398	GLN	CA-CB	6.32	1.63	1.53
1	h	695	ARG	N-CA	6.32	1.53	1.46
1	n	231	ARG	CA-CB	6.32	1.64	1.53
1	u	480	VAL	C-O	-6.32	1.16	1.24
1	C	284	PRO	C-N	6.32	1.42	1.33
1	F	261	LEU	CA-C	-6.32	1.44	1.52
1	r	384	LYS	N-CA	-6.31	1.38	1.46
1	A	109	ALA	CA-CB	6.31	1.61	1.53
1	T	568	ILE	CA-C	-6.31	1.45	1.52
1	X	518	SER	C-N	6.31	1.42	1.33
1	e	123	VAL	C-N	6.31	1.42	1.33
1	m	98	ARG	CD-NE	6.31	1.55	1.46
1	n	141	VAL	CA-CB	-6.31	1.49	1.55
1	u	381	HIS	N-CA	6.31	1.54	1.46
1	V	200	ASN	CA-C	-6.31	1.45	1.53
1	X	691	ILE	CA-CB	-6.31	1.47	1.54
1	5	288	ARG	CD-NE	6.31	1.55	1.46
1	z	218	VAL	CA-C	-6.31	1.46	1.52
1	4	310	VAL	N-CA	-6.31	1.39	1.46
1	6	167	TRP	NE1-CE2	-6.31	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h	593	ARG	CD-NE	6.31	1.55	1.46
1	j	581	GLN	CA-C	6.31	1.61	1.52
1	S	98	ARG	CA-C	6.31	1.60	1.52
1	W	517	LEU	N-CA	6.31	1.53	1.46
1	i	380	MET	N-CA	-6.31	1.38	1.46
1	n	104	ILE	CA-C	6.31	1.60	1.52
1	u	581	GLN	N-CA	-6.31	1.38	1.46
1	v	229	ILE	C-O	-6.31	1.18	1.24
1	J	546	ASN	CA-C	6.31	1.61	1.52
1	K	341	GLU	N-CA	6.31	1.53	1.46
1	L	698	ARG	CA-CB	6.31	1.63	1.53
1	W	515	PRO	N-CD	-6.31	1.39	1.47
1	2	183	PRO	C-N	6.31	1.42	1.34
1	a	397	HIS	CE1-NE2	6.31	1.38	1.32
1	n	477	HIS	CB-CG	6.31	1.58	1.50
1	K	133	SER	N-CA	6.31	1.54	1.46
1	Q	650	GLN	CA-C	-6.31	1.44	1.52
1	6	439	GLY	CA-C	-6.30	1.43	1.51
1	a	369	ARG	CZ-NH2	-6.30	1.25	1.33
1	q	152	ARG	CD-NE	6.30	1.55	1.46
1	B	145	ARG	CD-NE	6.30	1.55	1.46
1	E	537	LYS	CA-CB	6.30	1.63	1.53
1	E	622	SER	C-N	6.30	1.42	1.33
1	w	339	LEU	C-N	6.30	1.41	1.33
1	x	461	TRP	N-CA	6.30	1.54	1.46
1	8	436	LEU	CA-C	6.30	1.61	1.52
1	w	542	PHE	CA-CB	6.30	1.60	1.52
1	w	572	PHE	CA-CB	6.30	1.63	1.53
1	S	353	HIS	CD2-NE2	6.30	1.44	1.37
1	d	389	LEU	N-CA	-6.30	1.38	1.46
1	J	466	ALA	CA-CB	6.30	1.63	1.53
1	4	152	ARG	CA-CB	6.30	1.63	1.53
1	v	199	GLY	C-N	6.30	1.42	1.33
1	G	445	GLU	CA-CB	6.30	1.64	1.53
1	S	430	ASN	C-N	6.30	1.41	1.33
1	6	325	VAL	C-N	6.30	1.42	1.33
1	7	245	ILE	CA-CB	6.30	1.62	1.54
1	c	549	VAL	N-CA	-6.30	1.39	1.46
1	k	326	LYS	CA-C	6.30	1.60	1.52
1	l	505	VAL	C-N	6.30	1.42	1.34
1	t	264	VAL	CA-CB	-6.30	1.46	1.54
1	a	381	HIS	ND1-CE1	6.29	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	w	434	GLU	C-N	6.29	1.41	1.33
1	M	365	ALA	CA-C	6.29	1.60	1.52
1	i	402	GLU	N-CA	6.29	1.53	1.46
1	P	259	ILE	CA-CB	6.29	1.61	1.54
1	d	179	GLU	CA-C	6.29	1.60	1.52
1	h	271	ALA	N-CA	-6.29	1.37	1.46
1	l	568	ILE	N-CA	-6.29	1.39	1.46
1	z	442	VAL	CA-C	6.29	1.59	1.52
1	d	108	ARG	CD-NE	6.29	1.55	1.46
1	o	370	LEU	CA-CB	6.29	1.63	1.53
1	A	175	ASN	CA-CB	6.29	1.63	1.53
1	A	626	ILE	C-O	-6.29	1.18	1.24
1	J	186	VAL	CA-CB	6.29	1.62	1.54
1	7	213	ILE	CA-CB	6.29	1.61	1.54
1	o	674	ARG	CD-NE	6.29	1.55	1.46
1	P	227	PRO	C-N	6.29	1.39	1.33
1	7	593	ARG	CD-NE	6.29	1.55	1.46
1	8	657	ASN	CA-C	-6.29	1.44	1.52
1	i	188	LYS	C-N	6.29	1.41	1.33
1	y	277	SER	C-N	6.29	1.42	1.33
1	J	126	ASP	CA-CB	-6.29	1.42	1.53
1	U	330	GLN	N-CA	-6.29	1.38	1.46
1	3	152	ARG	CD-NE	6.28	1.55	1.46
1	7	419	MET	CA-CB	6.28	1.63	1.53
1	l	253	ILE	N-CA	6.28	1.54	1.46
1	m	107	LEU	C-O	-6.28	1.16	1.24
1	t	233	ALA	CA-C	6.28	1.60	1.52
1	D	414	GLN	CA-C	6.28	1.61	1.52
1	Q	584	ILE	CA-C	6.28	1.61	1.52
1	V	405	ARG	CD-NE	6.28	1.55	1.46
1	e	310	VAL	C-N	6.28	1.41	1.33
1	E	643	ASN	CA-CB	6.28	1.62	1.53
1	c	338	SER	C-N	6.28	1.42	1.33
1	v	140	GLY	C-N	6.28	1.42	1.33
1	x	218	VAL	N-CA	6.28	1.54	1.47
1	J	351	GLN	CA-CB	6.28	1.63	1.53
1	K	436	LEU	CA-C	6.28	1.60	1.52
1	Q	126	ASP	CA-CB	6.28	1.64	1.53
1	W	461	TRP	CA-C	6.28	1.60	1.52
1	2	349	PHE	C-N	6.28	1.42	1.33
1	t	695	ARG	CD-NE	6.28	1.55	1.46
1	A	239	ARG	CZ-NH2	-6.28	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	359	LEU	CA-CB	6.28	1.63	1.53
1	M	422	LEU	CA-CB	6.28	1.63	1.53
1	O	520	LEU	C-O	6.28	1.31	1.24
1	5	235	ASP	C-N	6.28	1.42	1.33
1	6	676	SER	CA-C	-6.28	1.44	1.52
1	a	505	VAL	CA-C	-6.28	1.44	1.52
1	g	336	ARG	CZ-NH2	-6.28	1.25	1.33
1	D	241	ILE	C-N	6.28	1.42	1.33
1	X	376	THR	CA-C	-6.28	1.44	1.52
1	Z	452	ASN	CA-C	6.28	1.60	1.52
1	x	264	VAL	CA-C	-6.27	1.46	1.52
1	N	595	GLU	N-CA	6.27	1.53	1.46
1	0	308	MET	C-O	6.27	1.31	1.24
1	6	558	VAL	CA-CB	-6.27	1.46	1.54
1	d	280	HIS	CA-C	-6.27	1.44	1.52
1	m	289	THR	CA-C	-6.27	1.45	1.52
1	n	382	ILE	CA-CB	6.27	1.61	1.54
1	A	640	ARG	N-CA	-6.27	1.38	1.46
1	N	629	HIS	CA-CB	6.27	1.64	1.53
1	O	683	SER	C-N	6.27	1.41	1.33
1	e	565	GLU	C-N	6.27	1.42	1.34
1	O	704	HIS	ND1-CE1	6.27	1.38	1.32
1	R	577	MET	C-N	6.27	1.40	1.34
1	S	227	PRO	N-CD	-6.27	1.39	1.47
1	4	524	MET	C-N	6.27	1.41	1.33
1	i	411	ILE	CA-C	6.27	1.59	1.52
1	r	335	ASN	N-CA	-6.27	1.38	1.46
1	W	508	TYR	CA-C	6.27	1.60	1.52
1	7	288	ARG	CA-C	-6.27	1.44	1.52
1	e	555	ASP	CA-C	6.27	1.60	1.52
1	k	350	PHE	C-N	6.27	1.42	1.33
1	v	178	LEU	CA-CB	6.27	1.62	1.52
1	v	269	ASP	CA-CB	6.27	1.63	1.53
1	C	643	ASN	N-CA	6.27	1.53	1.46
1	O	287	ASP	CA-CB	6.27	1.63	1.53
1	Y	210	SER	CA-CB	6.27	1.62	1.53
1	b	590	LYS	CA-CB	6.26	1.63	1.53
1	z	246	LYS	CA-C	-6.26	1.44	1.52
1	L	174	ARG	C-N	6.26	1.42	1.33
1	M	121	ILE	CA-C	-6.26	1.44	1.52
1	R	280	HIS	CG-ND1	-6.26	1.31	1.38
1	S	116	LEU	N-CA	6.26	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	250	LYS	C-N	6.26	1.41	1.33
1	o	145	ARG	CA-C	-6.26	1.44	1.52
1	H	476	ILE	CA-CB	6.26	1.60	1.54
1	R	635	LEU	CA-C	-6.26	1.44	1.52
1	g	406	ARG	CD-NE	6.26	1.55	1.46
1	i	706	LEU	CA-CB	6.26	1.63	1.53
1	m	338	SER	CA-CB	6.26	1.63	1.53
1	o	451	TYR	C-N	6.26	1.42	1.33
1	T	425	LYS	N-CA	6.26	1.53	1.46
1	Z	530	ALA	C-N	6.26	1.42	1.33
1	7	429	PHE	CA-CB	6.26	1.63	1.53
1	l	172	SER	CA-C	-6.26	1.44	1.52
1	q	433	ILE	CA-C	6.26	1.60	1.52
1	E	507	GLN	CA-C	6.26	1.60	1.52
1	n	159	LEU	C-O	6.26	1.31	1.24
1	N	187	GLU	C-O	-6.26	1.16	1.24
1	6	497	ASN	CA-CB	6.26	1.61	1.53
1	i	629	HIS	ND1-CE1	6.26	1.38	1.32
1	I	520	LEU	N-CA	6.26	1.53	1.46
1	J	345	LYS	CA-C	6.26	1.61	1.52
1	U	290	ILE	CA-CB	6.26	1.63	1.54
1	W	520	LEU	C-N	6.26	1.42	1.33
1	9	449	ARG	CD-NE	6.25	1.55	1.46
1	A	656	GLU	C-N	6.25	1.41	1.33
1	E	353	HIS	CA-C	-6.25	1.47	1.52
1	g	180	LEU	CA-CB	6.25	1.63	1.53
1	i	626	ILE	C-N	6.25	1.41	1.33
1	p	232	VAL	C-N	6.25	1.41	1.33
1	L	306	SER	C-N	6.25	1.41	1.33
1	M	170	ARG	CZ-NH2	-6.25	1.25	1.33
1	W	361	GLU	CA-CB	6.25	1.63	1.53
1	d	709	PHE	CA-CB	6.25	1.63	1.53
1	Y	280	HIS	ND1-CE1	6.25	1.38	1.32
1	8	477	HIS	CB-CG	6.25	1.58	1.50
1	p	328	ARG	CA-CB	6.25	1.63	1.53
1	Z	625	GLU	N-CA	6.25	1.53	1.46
1	0	131	LYS	CA-C	-6.25	1.43	1.52
1	5	131	LYS	CA-CB	6.25	1.63	1.53
1	e	251	LYS	CA-CB	6.25	1.63	1.53
1	m	133	SER	CA-C	6.25	1.60	1.52
1	n	381	HIS	N-CA	6.25	1.53	1.46
1	C	490	LYS	CA-CB	6.25	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	411	ILE	CA-C	6.25	1.59	1.52
1	W	634	PHE	CA-C	-6.25	1.44	1.52
1	i	596	ILE	CA-CB	6.25	1.62	1.54
1	y	580	CYS	CA-CB	6.25	1.65	1.53
1	R	105	ASP	CA-C	6.25	1.60	1.52
1	S	497	ASN	CA-CB	6.25	1.61	1.53
1	8	650	GLN	N-CA	-6.25	1.39	1.46
1	m	251	LYS	CA-CB	6.25	1.63	1.53
1	n	288	ARG	CD-NE	6.25	1.54	1.46
1	Y	649	ILE	N-CA	-6.25	1.39	1.46
1	Z	557	LYS	CA-C	6.25	1.60	1.52
1	Q	443	VAL	C-N	6.24	1.41	1.33
1	T	536	LYS	CA-C	6.24	1.61	1.52
1	m	474	ASN	CA-CB	6.24	1.63	1.53
1	Q	483	TYR	CA-C	6.24	1.60	1.52
1	1	556	ILE	N-CA	-6.24	1.39	1.46
1	3	506	HIS	CA-CB	6.24	1.63	1.53
1	b	427	LYS	CA-CB	6.24	1.63	1.53
1	c	285	GLU	N-CA	-6.24	1.37	1.46
1	d	586	SER	CA-CB	6.24	1.63	1.53
1	q	169	GLY	CA-C	6.24	1.60	1.51
1	u	122	ALA	C-N	6.24	1.40	1.33
1	u	301	ARG	NE-CZ	-6.24	1.26	1.33
1	H	234	VAL	C-N	6.24	1.42	1.33
1	L	331	GLN	CA-C	6.24	1.60	1.52
1	L	704	HIS	CA-CB	6.24	1.63	1.53
1	N	672	LYS	CA-C	-6.24	1.44	1.52
1	5	206	HIS	CD2-NE2	6.24	1.44	1.37
1	f	280	HIS	CG-CD2	6.24	1.42	1.35
1	k	494	GLY	CA-C	6.24	1.60	1.51
1	B	107	LEU	N-CA	-6.24	1.38	1.46
1	N	174	ARG	CD-NE	6.24	1.54	1.46
1	D	262	VAL	CA-C	-6.24	1.45	1.52
1	7	536	LYS	C-N	6.24	1.42	1.34
1	9	332	GLU	CA-CB	6.24	1.63	1.53
1	E	134	VAL	CA-C	-6.24	1.45	1.52
1	E	456	GLU	C-N	6.24	1.42	1.33
1	M	247	ALA	C-N	6.24	1.42	1.33
1	S	209	ILE	N-CA	6.24	1.54	1.46
1	5	435	LYS	CA-C	6.23	1.60	1.52
1	U	506	HIS	ND1-CE1	6.23	1.38	1.32
1	3	216	PRO	CA-C	6.23	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5	397	HIS	CG-CD2	6.23	1.42	1.35
1	6	537	LYS	CA-CB	6.23	1.62	1.53
1	K	676	SER	C-O	-6.23	1.17	1.24
1	c	392	GLN	CA-CB	6.23	1.63	1.53
1	h	236	ASN	CA-CB	6.23	1.63	1.53
1	t	145	ARG	CA-C	-6.23	1.45	1.52
1	O	381	HIS	CA-CB	6.23	1.63	1.53
1	U	370	LEU	CA-CB	6.23	1.63	1.53
1	I	294	THR	CA-C	6.23	1.60	1.52
1	P	459	LYS	N-CA	6.23	1.54	1.46
1	V	358	VAL	CA-C	6.23	1.60	1.52
1	l	513	VAL	CA-CB	-6.23	1.47	1.54
1	m	300	ASP	CA-C	-6.23	1.44	1.52
1	r	175	ASN	CA-C	6.23	1.60	1.53
1	w	565	GLU	N-CA	-6.23	1.39	1.46
1	H	541	GLU	CA-C	6.23	1.61	1.52
1	T	170	ARG	CD-NE	6.23	1.54	1.46
1	6	168	ALA	N-CA	-6.23	1.38	1.45
1	6	366	THR	CA-CB	6.23	1.63	1.53
1	a	309	ASN	CA-C	6.23	1.60	1.52
1	h	343	THR	N-CA	6.23	1.53	1.46
1	j	176	THR	N-CA	6.23	1.53	1.46
1	P	125	GLY	CA-C	-6.23	1.45	1.51
1	v	292	ILE	C-N	6.22	1.42	1.33
1	B	451	TYR	N-CA	6.22	1.54	1.46
1	V	312	ARG	CA-C	6.22	1.61	1.52
1	e	558	VAL	CA-CB	-6.22	1.47	1.54
1	j	506	HIS	ND1-CE1	6.22	1.38	1.32
1	s	694	GLU	CA-C	6.22	1.60	1.52
1	M	155	LEU	C-O	-6.22	1.16	1.23
1	P	98	ARG	C-N	6.22	1.41	1.34
1	9	353	HIS	CD2-NE2	6.22	1.44	1.37
1	u	239	ARG	CA-CB	-6.22	1.43	1.53
1	k	409	ALA	CA-C	-6.22	1.45	1.52
1	m	326	LYS	CA-CB	6.22	1.63	1.53
1	r	333	ILE	CA-CB	-6.22	1.47	1.54
1	r	337	LEU	C-N	6.22	1.42	1.33
1	M	488	ARG	CD-NE	6.22	1.54	1.46
1	W	471	LYS	C-N	-6.22	1.26	1.34
1	X	520	LEU	CA-C	6.22	1.60	1.52
1	Y	300	ASP	CA-C	6.22	1.61	1.52
1	8	387	PRO	CA-CB	-6.22	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i	162	GLN	C-N	6.22	1.40	1.34
1	D	306	SER	N-CA	-6.22	1.38	1.46
1	R	443	VAL	C-N	6.22	1.41	1.33
1	a	204	ILE	N-CA	6.21	1.53	1.46
1	b	708	GLN	CA-C	6.21	1.60	1.52
1	i	115	ASP	CA-C	6.21	1.60	1.53
1	l	549	VAL	C-N	6.21	1.42	1.33
1	D	159	LEU	CA-C	6.21	1.60	1.52
1	5	209	ILE	CA-CB	-6.21	1.46	1.54
1	h	704	HIS	C-N	6.21	1.42	1.33
1	j	252	TYR	C-N	6.21	1.41	1.33
1	o	188	LYS	CA-C	6.21	1.61	1.52
1	w	355	TYR	CA-CB	6.21	1.62	1.53
1	M	324	ILE	CA-C	6.21	1.60	1.52
1	W	446	ASN	N-CA	6.21	1.54	1.46
1	7	476	ILE	CA-C	-6.21	1.45	1.52
1	h	382	ILE	C-N	6.21	1.41	1.33
1	y	403	GLU	CA-C	6.21	1.60	1.52
1	E	403	GLU	C-N	6.21	1.41	1.33
1	l	643	ASN	C-N	6.21	1.42	1.33
1	d	167	TRP	CA-C	-6.21	1.45	1.52
1	e	214	THR	N-CA	6.21	1.53	1.46
1	m	198	ALA	CA-C	6.21	1.61	1.52
1	v	120	ALA	CA-C	6.21	1.60	1.52
1	G	352	THR	N-CA	6.21	1.54	1.46
1	H	211	LEU	CA-C	-6.21	1.45	1.52
1	M	337	LEU	CA-CB	6.21	1.63	1.53
1	O	500	THR	N-CA	-6.21	1.38	1.46
1	O	572	PHE	N-CA	-6.21	1.38	1.46
1	b	639	LYS	CA-CB	6.21	1.63	1.53
1	j	113	GLU	CA-C	6.21	1.61	1.52
1	v	283	ASP	CA-C	6.21	1.60	1.52
1	A	147	SER	CA-CB	6.21	1.61	1.53
1	H	564	ALA	CA-C	6.21	1.60	1.52
1	P	695	ARG	CD-NE	6.21	1.54	1.46
1	P	704	HIS	ND1-CE1	6.21	1.38	1.32
1	W	100	CYS	CA-C	6.21	1.60	1.52
1	W	526	ILE	N-CA	6.21	1.53	1.46
1	3	131	LYS	N-CA	6.21	1.53	1.46
1	7	449	ARG	CA-CB	6.21	1.62	1.53
1	E	698	ARG	CA-CB	6.21	1.62	1.53
1	5	472	VAL	N-CA	-6.20	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k	553	ILE	N-CA	6.20	1.53	1.46
1	w	371	ALA	C-N	-6.20	1.25	1.33
1	O	381	HIS	CD2-NE2	6.20	1.44	1.37
1	r	335	ASN	CA-CB	6.20	1.61	1.53
1	O	553	ILE	C-N	6.20	1.41	1.33
1	W	412	PRO	CA-C	-6.20	1.43	1.52
1	m	369	ARG	C-N	6.20	1.41	1.33
1	q	567	MET	CA-CB	6.20	1.63	1.53
1	t	116	LEU	N-CA	6.20	1.53	1.45
1	B	203	GLY	C-O	-6.20	1.17	1.23
1	F	416	ALA	C-N	6.20	1.42	1.33
1	X	538	HIS	CD2-NE2	6.20	1.44	1.37
1	e	462	VAL	CA-CB	6.20	1.61	1.54
1	q	649	ILE	CA-C	-6.20	1.45	1.52
1	s	628	ILE	CA-C	6.20	1.60	1.52
1	M	415	GLU	N-CA	-6.20	1.38	1.46
1	6	692	LEU	CA-C	-6.20	1.45	1.52
1	U	652	PHE	N-CA	-6.20	1.38	1.46
1	h	263	VAL	CA-CB	6.20	1.61	1.54
1	i	429	PHE	N-CA	6.20	1.53	1.46
1	v	642	ALA	CA-C	6.20	1.61	1.52
1	H	446	ASN	CA-CB	6.20	1.62	1.54
1	m	351	GLN	CA-C	6.19	1.61	1.52
1	S	357	ARG	CA-CB	6.19	1.63	1.53
1	2	704	HIS	ND1-CE1	6.19	1.38	1.32
1	6	314	LEU	N-CA	-6.19	1.38	1.46
1	a	585	TYR	N-CA	-6.19	1.38	1.46
1	n	149	ILE	CA-CB	-6.19	1.46	1.54
1	q	633	TYR	CA-CB	6.19	1.63	1.53
1	N	257	GLN	N-CA	6.19	1.54	1.46
1	8	413	SER	CA-C	6.19	1.61	1.52
1	l	710	SER	CA-CB	6.19	1.62	1.53
1	m	122	ALA	CA-CB	6.19	1.61	1.53
1	A	146	GLY	C-N	-6.19	1.26	1.33
1	A	458	PHE	CA-C	6.19	1.60	1.52
1	A	477	HIS	N-CA	-6.19	1.38	1.46
1	I	468	ASN	CA-C	6.19	1.61	1.52
1	V	274	GLU	CA-C	6.19	1.61	1.52
1	Y	669	LEU	CA-CB	6.19	1.63	1.53
1	4	311	VAL	CA-CB	-6.19	1.46	1.54
1	5	280	HIS	CA-C	6.19	1.60	1.52
1	U	304	GLU	CA-CB	6.19	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Y	520	LEU	CA-C	6.19	1.60	1.52
1	4	457	ASP	CA-C	6.19	1.61	1.52
1	x	366	THR	C-N	6.19	1.40	1.33
1	V	580	CYS	CA-C	6.19	1.60	1.52
1	Y	194	GLN	C-N	6.19	1.41	1.33
1	5	595	GLU	C-N	6.19	1.42	1.33
1	9	107	LEU	CA-CB	6.19	1.63	1.53
1	M	634	PHE	CA-CB	6.19	1.62	1.53
1	c	633	TYR	CA-C	6.18	1.60	1.52
1	Q	138	LEU	N-CA	-6.18	1.37	1.46
1	2	548	THR	C-N	6.18	1.41	1.33
1	7	655	ARG	CD-NE	6.18	1.54	1.46
1	a	392	GLN	CA-C	6.18	1.60	1.52
1	A	352	THR	N-CA	-6.18	1.38	1.46
1	M	290	ILE	CA-C	-6.18	1.44	1.52
1	T	142	ALA	N-CA	-6.18	1.37	1.46
1	T	186	VAL	CA-CB	6.18	1.63	1.54
1	R	441	GLU	CA-C	6.18	1.60	1.52
1	3	637	THR	CA-CB	6.18	1.63	1.53
1	6	202	ARG	NE-CZ	-6.18	1.26	1.33
1	f	589	LEU	CA-C	6.18	1.60	1.52
1	i	94	GLU	CA-CB	6.18	1.62	1.53
1	y	295	LYS	N-CA	-6.18	1.37	1.46
1	V	433	ILE	CA-C	6.18	1.60	1.52
1	2	392	GLN	C-O	-6.18	1.16	1.24
1	5	110	LEU	CA-C	6.18	1.61	1.52
1	8	570	LEU	CA-C	-6.18	1.45	1.52
1	J	357	ARG	CA-C	6.18	1.60	1.52
1	O	158	LYS	C-N	6.18	1.42	1.33
1	S	480	VAL	CA-CB	6.18	1.62	1.54
1	2	561	THR	CA-C	-6.18	1.45	1.52
1	4	248	LEU	C-N	6.18	1.41	1.33
1	a	596	ILE	C-N	6.18	1.41	1.33
1	h	346	GLU	CA-C	6.18	1.60	1.52
1	w	633	TYR	CA-C	6.18	1.61	1.52
1	I	282	VAL	C-N	6.18	1.42	1.33
1	S	397	HIS	CB-CG	6.18	1.58	1.50
1	p	328	ARG	CA-C	-6.17	1.44	1.52
1	w	286	GLY	C-N	6.17	1.41	1.33
1	R	430	ASN	CA-CB	6.17	1.62	1.53
1	J	674	ARG	CD-NE	6.17	1.54	1.46
1	N	182	ASP	CA-CB	6.17	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Q	650	GLN	C-N	6.17	1.41	1.33
1	U	561	THR	N-CA	-6.17	1.39	1.46
1	8	476	ILE	CA-CB	6.17	1.61	1.54
1	a	225	ASP	CA-C	6.17	1.60	1.52
1	a	315	THR	N-CA	-6.17	1.38	1.46
1	h	489	GLY	C-N	6.17	1.41	1.33
1	o	437	VAL	CA-CB	-6.17	1.46	1.54
1	u	460	ASN	CA-C	6.17	1.61	1.52
1	w	239	ARG	CA-C	6.17	1.60	1.52
1	F	397	HIS	CA-C	6.17	1.60	1.52
1	G	191	HIS	CE1-NE2	6.17	1.38	1.32
1	M	634	PHE	CA-C	6.17	1.60	1.52
1	N	659	ASP	CA-CB	6.17	1.62	1.53
1	W	677	TRP	NE1-CE2	6.17	1.44	1.37
1	Y	644	GLN	CA-CB	6.17	1.63	1.53
1	4	372	GLU	CA-C	6.17	1.60	1.52
1	e	652	PHE	N-CA	6.17	1.53	1.46
1	d	686	ALA	N-CA	-6.17	1.38	1.46
1	m	213	ILE	C-N	6.17	1.41	1.33
1	u	94	GLU	N-CA	-6.17	1.39	1.46
1	v	378	LEU	CA-C	6.17	1.60	1.52
1	N	138	LEU	CA-CB	6.17	1.61	1.53
1	O	441	GLU	CA-CB	-6.17	1.43	1.53
1	9	96	LYS	CA-CB	6.17	1.63	1.53
1	o	158	LYS	CA-C	-6.17	1.45	1.53
1	q	444	ARG	N-CA	6.17	1.54	1.45
1	v	174	ARG	C-N	6.17	1.42	1.33
1	I	231	ARG	CZ-NH2	-6.17	1.25	1.33
1	M	290	ILE	N-CA	-6.17	1.38	1.46
1	O	591	LYS	CA-C	6.17	1.61	1.52
1	U	406	ARG	CZ-NH2	6.17	1.41	1.33
1	Z	548	THR	CA-C	-6.17	1.45	1.52
1	e	317	PRO	CA-C	6.17	1.58	1.52
1	f	400	ALA	CA-C	-6.17	1.45	1.52
1	r	667	GLN	CA-C	6.17	1.61	1.52
1	E	122	ALA	CA-C	6.17	1.60	1.52
1	I	499	LYS	N-CA	-6.17	1.38	1.46
1	c	522	LYS	C-N	6.16	1.41	1.33
1	m	485	LYS	C-N	6.16	1.42	1.33
1	q	349	PHE	CA-CB	6.16	1.62	1.53
1	w	318	LEU	C-N	6.16	1.43	1.33
1	H	247	ALA	CA-CB	6.16	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	95	GLN	CA-CB	6.16	1.62	1.53
1	T	200	ASN	N-CA	6.16	1.54	1.46
1	8	555	ASP	CA-CB	6.16	1.62	1.53
1	t	139	SER	CA-CB	6.16	1.64	1.53
1	N	126	ASP	C-O	-6.16	1.16	1.23
1	Q	239	ARG	C-N	6.16	1.42	1.33
1	4	381	HIS	ND1-CE1	6.16	1.38	1.32
1	g	515	PRO	CA-CB	-6.16	1.45	1.53
1	v	219	PRO	CA-C	6.16	1.60	1.52
1	y	199	GLY	CA-C	6.16	1.60	1.51
1	z	206	HIS	CA-CB	6.16	1.62	1.53
1	A	436	LEU	CA-C	6.16	1.61	1.52
1	E	674	ARG	N-CA	-6.16	1.39	1.46
1	G	309	ASN	CA-C	-6.16	1.45	1.52
1	R	514	GLU	N-CA	-6.16	1.40	1.46
1	l	451	TYR	N-CA	-6.16	1.39	1.46
1	u	206	HIS	N-CA	6.16	1.54	1.46
1	u	310	VAL	C-N	6.16	1.41	1.33
1	z	190	ILE	C-N	6.16	1.42	1.33
1	B	654	LEU	CA-C	6.16	1.58	1.52
1	Y	220	ASP	CA-CB	6.16	1.60	1.52
1	Z	481	GLU	CA-C	6.16	1.60	1.52
1	n	634	PHE	CA-CB	6.16	1.62	1.53
1	E	408	GLY	N-CA	6.16	1.54	1.45
1	M	127	GLN	CA-CB	6.16	1.62	1.53
1	V	565	GLU	CA-CB	6.16	1.62	1.53
1	Z	118	LEU	CA-C	6.16	1.60	1.52
1	3	474	ASN	CA-CB	6.16	1.62	1.53
1	k	353	HIS	ND1-CE1	6.16	1.38	1.32
1	F	369	ARG	CD-NE	6.16	1.54	1.46
1	N	627	GLY	N-CA	6.16	1.53	1.45
1	Q	527	ILE	CA-C	-6.16	1.44	1.52
1	U	234	VAL	C-N	6.16	1.39	1.33
1	5	630	LEU	CA-C	6.15	1.60	1.52
1	8	323	MET	N-CA	-6.15	1.39	1.46
1	A	326	LYS	CA-CB	6.15	1.60	1.52
1	H	285	GLU	CA-C	6.15	1.60	1.52
1	S	431	GLN	CA-C	6.15	1.60	1.52
1	2	477	HIS	CG-ND1	6.15	1.45	1.38
1	7	217	GLU	C-N	6.15	1.40	1.33
1	f	453	LYS	CA-C	-6.15	1.44	1.52
1	z	629	HIS	C-N	6.15	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	256	GLN	CA-CB	6.15	1.62	1.53
1	K	660	SER	CA-CB	6.15	1.62	1.53
1	W	506	HIS	C-O	6.15	1.31	1.24
1	d	671	GLU	CA-C	6.15	1.60	1.52
1	t	704	HIS	ND1-CE1	6.15	1.38	1.32
1	C	317	PRO	CA-CB	6.15	1.62	1.53
1	N	556	ILE	CA-CB	6.15	1.62	1.54
1	X	661	LEU	N-CA	-6.15	1.39	1.46
1	Z	350	PHE	C-N	6.15	1.42	1.33
1	1	439	GLY	C-N	6.15	1.42	1.33
1	1	672	LYS	CA-CB	6.15	1.64	1.53
1	a	223	ILE	CA-C	6.15	1.59	1.52
1	h	499	LYS	N-CA	-6.15	1.39	1.46
1	4	108	ARG	CD-NE	6.15	1.54	1.46
1	e	255	ARG	CA-C	6.15	1.60	1.52
1	s	370	LEU	N-CA	6.15	1.53	1.46
1	2	545	LEU	CA-CB	6.15	1.62	1.53
1	7	272	THR	N-CA	6.15	1.53	1.46
1	V	371	ALA	C-N	6.15	1.42	1.33
1	O	241	ILE	CA-CB	-6.14	1.47	1.54
1	P	416	ALA	CA-C	6.14	1.61	1.53
1	P	694	GLU	CA-CB	6.14	1.62	1.53
1	T	491	GLU	N-CA	-6.14	1.38	1.46
1	i	98	ARG	CA-C	6.14	1.60	1.52
1	l	570	LEU	CA-CB	6.14	1.62	1.53
1	r	691	ILE	CA-CB	-6.14	1.47	1.54
1	v	658	GLY	CA-C	-6.14	1.44	1.51
1	O	465	LEU	CA-CB	6.14	1.62	1.53
1	6	353	HIS	CA-C	6.14	1.57	1.52
1	9	103	LEU	CA-CB	6.14	1.62	1.53
1	g	706	LEU	CB-CG	6.14	1.65	1.53
1	i	398	GLN	C-N	6.14	1.42	1.33
1	j	703	ARG	CA-C	6.14	1.60	1.52
1	I	306	SER	C-N	6.14	1.41	1.33
1	t	412	PRO	N-CA	6.14	1.55	1.47
1	H	404	LEU	CA-C	6.14	1.60	1.52
1	M	128	SER	CA-CB	6.14	1.62	1.53
1	V	182	ASP	CA-CB	6.14	1.64	1.53
1	0	244	GLN	CA-CB	6.14	1.62	1.53
1	j	188	LYS	C-N	6.14	1.42	1.34
1	j	304	GLU	CA-C	-6.14	1.44	1.52
1	p	504	ILE	CA-C	-6.14	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	z	283	ASP	CA-C	6.14	1.60	1.52
1	z	506	HIS	CA-CB	6.14	1.62	1.53
1	C	630	LEU	CA-C	-6.14	1.44	1.52
1	D	243	LEU	CA-CB	6.14	1.62	1.53
1	9	333	ILE	C-N	6.14	1.41	1.33
1	f	406	ARG	CA-C	6.14	1.60	1.52
1	j	225	ASP	CA-C	6.14	1.60	1.52
1	q	711	SER	CA-CB	6.14	1.65	1.53
1	C	394	ARG	CD-NE	6.14	1.54	1.46
1	F	188	LYS	CA-C	-6.14	1.45	1.52
1	W	276	LEU	CA-C	6.14	1.61	1.52
1	k	305	LYS	CA-CB	6.13	1.63	1.53
1	m	308	MET	N-CA	-6.13	1.37	1.46
1	q	344	LYS	N-CA	-6.13	1.38	1.46
1	s	409	ALA	CA-C	6.13	1.59	1.52
1	C	675	TYR	CA-C	6.13	1.60	1.52
1	D	318	LEU	CA-C	6.13	1.60	1.52
1	K	548	THR	C-N	6.13	1.41	1.33
1	N	289	THR	C-N	6.13	1.41	1.33
1	R	456	GLU	C-N	6.13	1.42	1.34
1	3	99	PRO	C-N	6.13	1.41	1.33
1	A	330	GLN	CA-C	6.13	1.61	1.52
1	n	351	GLN	C-N	6.13	1.42	1.33
1	x	578	VAL	CA-C	-6.13	1.46	1.53
1	B	272	THR	CA-CB	6.13	1.63	1.53
1	C	565	GLU	CA-CB	6.13	1.62	1.53
1	Q	157	LEU	CA-C	-6.13	1.45	1.52
1	R	178	LEU	N-CA	-6.13	1.38	1.46
1	Y	360	LEU	N-CA	-6.13	1.39	1.46
1	5	458	PHE	C-N	6.13	1.42	1.33
1	S	101	ILE	C-N	6.13	1.42	1.34
1	j	560	HIS	CA-C	-6.13	1.44	1.52
1	l	114	GLN	CA-C	-6.13	1.44	1.52
1	r	677	TRP	CA-C	6.13	1.60	1.52
1	s	162	GLN	CA-C	6.13	1.58	1.52
1	w	659	ASP	CA-C	6.13	1.60	1.52
1	A	629	HIS	CD2-NE2	6.13	1.44	1.37
1	b	138	LEU	CB-CG	6.13	1.65	1.53
1	c	474	ASN	CA-CB	6.13	1.63	1.53
1	s	463	GLY	N-CA	6.13	1.53	1.45
1	t	136	GLU	CA-CB	6.13	1.62	1.53
1	x	353	HIS	CA-C	6.13	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	y	337	LEU	CA-C	6.13	1.61	1.52
1	C	622	SER	CA-CB	6.13	1.65	1.53
1	D	596	ILE	CA-CB	6.13	1.62	1.54
1	G	385	SER	C-N	6.13	1.42	1.33
1	N	390	GLU	CA-C	6.13	1.60	1.52
1	T	332	GLU	CA-CB	6.13	1.62	1.53
1	U	386	LEU	CA-CB	6.13	1.61	1.53
1	Z	675	TYR	CA-CB	6.13	1.62	1.53
1	v	516	ALA	CA-C	6.12	1.60	1.52
1	9	340	ALA	N-CA	6.12	1.53	1.46
1	m	221	LEU	CA-C	6.12	1.59	1.52
1	m	417	ASP	C-N	6.12	1.41	1.33
1	n	312	ARG	N-CA	6.12	1.53	1.46
1	t	632	ALA	N-CA	-6.12	1.39	1.46
1	H	538	HIS	ND1-CE1	6.12	1.38	1.32
1	K	649	ILE	CA-CB	-6.12	1.47	1.54
1	a	502	GLU	CA-CB	6.12	1.62	1.53
1	n	332	GLU	CA-C	6.12	1.61	1.52
1	E	268	VAL	C-N	6.12	1.41	1.33
1	P	261	LEU	CA-C	6.12	1.59	1.52
1	T	638	SER	C-N	-6.12	1.25	1.33
1	V	416	ALA	N-CA	6.12	1.53	1.45
1	Y	282	VAL	CA-CB	6.12	1.62	1.54
1	l	364	SER	CA-C	6.12	1.58	1.52
1	m	123	VAL	CA-C	6.12	1.59	1.52
1	G	235	ASP	N-CA	6.12	1.54	1.46
1	O	471	LYS	CA-CB	6.12	1.62	1.53
1	9	560	HIS	ND1-CE1	6.12	1.38	1.32
1	a	671	GLU	CA-CB	6.12	1.60	1.53
1	e	278	MET	N-CA	-6.12	1.39	1.46
1	l	506	HIS	CG-ND1	6.12	1.45	1.38
1	H	295	LYS	N-CA	-6.12	1.41	1.46
1	J	560	HIS	CA-C	6.12	1.60	1.52
1	K	674	ARG	C-N	6.12	1.41	1.33
1	Q	565	GLU	C-N	6.12	1.41	1.33
1	U	148	GLY	C-N	6.12	1.41	1.33
1	Z	466	ALA	CA-CB	6.12	1.62	1.53
1	Z	704	HIS	CD2-NE2	6.12	1.44	1.37
1	f	118	LEU	CA-C	6.12	1.60	1.52
1	0	538	HIS	CA-C	-6.12	1.44	1.52
1	q	538	HIS	CE1-NE2	-6.12	1.26	1.32
1	u	251	LYS	CA-C	6.12	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	v	505	VAL	C-O	-6.12	1.17	1.24
1	w	256	GLN	CA-C	6.12	1.60	1.52
1	K	187	GLU	N-CA	6.12	1.54	1.46
1	g	170	ARG	NE-CZ	-6.11	1.26	1.33
1	g	579	PHE	CA-C	6.11	1.59	1.52
1	o	595	GLU	N-CA	6.11	1.54	1.46
1	u	664	ALA	N-CA	-6.11	1.39	1.46
1	z	286	GLY	CA-C	-6.11	1.43	1.51
1	V	162	GLN	N-CA	-6.11	1.40	1.45
1	3	355	TYR	CZ-OH	6.11	1.50	1.38
1	w	624	THR	N-CA	-6.11	1.39	1.46
1	y	331	GLN	C-N	-6.11	1.25	1.33
1	K	388	LEU	C-N	6.11	1.41	1.33
1	3	544	ASN	CA-CB	6.11	1.62	1.53
1	f	593	ARG	N-CA	-6.11	1.39	1.46
1	o	231	ARG	NE-CZ	6.11	1.39	1.33
1	t	591	LYS	CA-CB	6.11	1.62	1.53
1	I	383	GLN	CA-CB	6.11	1.63	1.53
1	P	165	GLU	C-N	6.11	1.41	1.33
1	P	704	HIS	CG-CD2	6.11	1.42	1.35
1	6	660	SER	C-O	-6.11	1.16	1.24
1	L	458	PHE	C-N	6.11	1.41	1.33
1	2	679	LEU	N-CA	6.11	1.53	1.46
1	3	121	ILE	CA-CB	6.11	1.61	1.54
1	n	690	ARG	CD-NE	6.11	1.54	1.46
1	p	454	ILE	CA-CB	-6.11	1.46	1.54
1	x	575	GLU	N-CA	-6.11	1.38	1.46
1	z	196	VAL	N-CA	6.11	1.53	1.46
1	D	197	MET	CA-C	6.11	1.61	1.52
1	p	397	HIS	CE1-NE2	-6.11	1.26	1.32
1	w	577	MET	CA-C	-6.11	1.45	1.52
1	E	221	LEU	C-N	6.11	1.41	1.33
1	d	519	MET	CA-C	-6.10	1.44	1.52
1	x	514	GLU	N-CA	-6.10	1.40	1.46
1	z	449	ARG	CA-C	6.10	1.60	1.52
1	H	195	ASN	CA-C	6.10	1.60	1.52
1	L	630	LEU	C-N	6.10	1.42	1.34
1	Z	364	SER	CA-CB	6.10	1.63	1.53
1	2	595	GLU	CA-C	6.10	1.61	1.52
1	4	171	ILE	C-N	6.10	1.41	1.33
1	f	280	HIS	ND1-CE1	6.10	1.38	1.32
1	s	506	HIS	ND1-CE1	6.10	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Q	156	VAL	N-CA	-6.10	1.39	1.46
1	u	230	THR	CA-C	6.10	1.60	1.52
1	J	216	PRO	CA-CB	-6.10	1.45	1.53
1	X	470	GLN	C-N	6.10	1.42	1.34
1	4	350	PHE	C-O	-6.10	1.16	1.24
1	L	638	SER	CA-CB	6.10	1.62	1.53
1	l	267	ASN	N-CA	6.10	1.53	1.46
1	8	325	VAL	CA-C	-6.10	1.45	1.52
1	o	390	GLU	CA-C	-6.10	1.44	1.52
1	v	550	GLN	N-CA	6.10	1.53	1.46
1	E	251	LYS	CA-C	-6.10	1.44	1.52
1	K	581	GLN	C-N	6.10	1.42	1.33
1	L	237	GLN	C-N	6.10	1.41	1.33
1	L	372	GLU	C-N	-6.10	1.25	1.33
1	X	208	LEU	CA-C	6.10	1.60	1.52
1	Y	215	SER	CA-CB	6.10	1.63	1.53
1	N	307	VAL	C-N	6.10	1.41	1.33
1	l	373	ARG	CA-C	6.09	1.60	1.52
1	i	373	ARG	CA-CB	6.09	1.62	1.53
1	I	449	ARG	NE-CZ	-6.09	1.26	1.33
1	N	144	PRO	CA-C	-6.09	1.45	1.52
1	O	185	GLN	C-N	6.09	1.41	1.33
1	l	316	TYR	CA-C	6.09	1.60	1.52
1	q	552	THR	N-CA	-6.09	1.39	1.46
1	q	556	ILE	CA-CB	6.09	1.61	1.54
1	b	460	ASN	N-CA	6.09	1.53	1.46
1	b	538	HIS	N-CA	6.09	1.53	1.46
1	l	209	ILE	CA-C	-6.09	1.45	1.52
1	o	357	ARG	CD-NE	6.09	1.54	1.46
1	t	272	THR	C-N	6.09	1.42	1.33
1	I	289	THR	CA-CB	-6.09	1.45	1.53
1	R	681	GLU	CA-C	6.09	1.60	1.52
1	5	208	LEU	CA-C	6.09	1.60	1.52
1	l	207	GLU	CA-C	6.09	1.60	1.52
1	m	102	ASP	N-CA	6.09	1.53	1.46
1	q	491	GLU	CA-C	6.09	1.60	1.52
1	s	570	LEU	CA-CB	6.09	1.62	1.53
1	x	325	VAL	CA-CB	-6.09	1.46	1.54
1	y	264	VAL	C-N	-6.09	1.25	1.33
1	I	345	LYS	C-N	6.09	1.42	1.33
1	N	225	ASP	CA-CB	6.09	1.64	1.53
1	Q	390	GLU	C-N	6.09	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	427	LYS	C-N	6.09	1.42	1.33
1	6	464	ILE	N-CA	6.09	1.53	1.46
1	w	113	GLU	CA-C	-6.09	1.45	1.52
1	z	255	ARG	CD-NE	6.09	1.54	1.46
1	c	302	GLY	CA-C	6.09	1.58	1.51
1	j	302	GLY	N-CA	6.09	1.55	1.45
1	j	673	ASN	N-CA	6.09	1.54	1.46
1	k	288	ARG	NE-CZ	-6.09	1.26	1.33
1	l	249	ILE	CA-C	-6.09	1.45	1.52
1	o	265	PRO	CA-C	-6.09	1.45	1.52
1	q	328	ARG	CD-NE	6.09	1.54	1.46
1	C	250	LYS	CA-C	6.09	1.60	1.52
1	L	397	HIS	N-CA	-6.09	1.39	1.46
1	O	624	THR	CA-CB	-6.09	1.43	1.53
1	W	455	ARG	CA-C	6.09	1.61	1.52
1	D	545	LEU	C-N	6.08	1.42	1.34
1	N	134	VAL	N-CA	-6.08	1.39	1.46
1	5	93	TYR	CA-CB	6.08	1.65	1.53
1	L	503	ILE	N-CA	6.08	1.54	1.46
1	P	488	ARG	CZ-NH1	-6.08	1.24	1.32
1	Z	594	GLU	CA-CB	6.08	1.62	1.53
1	j	380	MET	CA-CB	6.08	1.62	1.53
1	H	174	ARG	CA-C	6.08	1.63	1.52
1	H	191	HIS	CB-CG	6.08	1.58	1.50
1	2	709	PHE	CA-CB	6.08	1.62	1.53
1	t	142	ALA	CA-C	6.08	1.60	1.52
1	K	215	SER	N-CA	-6.08	1.40	1.46
1	P	128	SER	CA-CB	6.08	1.61	1.53
1	R	194	GLN	C-N	6.08	1.41	1.33
1	v	137	ALA	CA-C	6.08	1.60	1.52
1	E	423	ILE	CA-CB	-6.08	1.46	1.54
1	0	446	ASN	CA-CB	6.08	1.62	1.53
1	5	677	TRP	CA-CB	6.08	1.62	1.53
1	7	190	ILE	CB-CG1	6.08	1.65	1.53
1	k	475	ILE	CA-C	-6.08	1.44	1.52
1	n	237	GLN	N-CA	-6.08	1.41	1.46
1	n	405	ARG	NE-CZ	6.08	1.39	1.33
1	E	388	LEU	C-N	6.08	1.41	1.33
1	F	531	PHE	CA-C	6.08	1.60	1.52
1	H	226	LEU	CA-CB	6.08	1.62	1.53
1	O	625	GLU	C-N	6.08	1.42	1.33
1	X	287	ASP	C-N	6.08	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7	155	LEU	N-CA	-6.07	1.39	1.46
1	i	155	LEU	CA-C	6.07	1.60	1.52
1	r	148	GLY	N-CA	6.07	1.54	1.45
1	A	211	LEU	N-CA	-6.07	1.38	1.46
1	K	300	ASP	CA-C	6.07	1.59	1.52
1	T	183	PRO	N-CA	6.07	1.54	1.47
1	4	681	GLU	N-CA	-6.07	1.38	1.45
1	5	388	LEU	CA-CB	6.07	1.62	1.53
1	o	147	SER	C-N	6.07	1.41	1.32
1	t	540	GLY	CA-C	6.07	1.59	1.51
1	S	533	ASN	CA-CB	6.07	1.62	1.53
1	4	493	LEU	C-N	6.07	1.42	1.33
1	6	297	ASP	CA-C	6.07	1.61	1.52
1	6	500	THR	C-N	6.07	1.41	1.33
1	9	287	ASP	CA-C	6.07	1.60	1.52
1	d	583	GLN	C-N	6.07	1.41	1.34
1	e	263	VAL	CA-C	6.07	1.60	1.52
1	e	420	PHE	CA-C	-6.07	1.44	1.52
1	k	256	GLN	CA-CB	6.07	1.62	1.53
1	m	391	GLY	C-N	6.07	1.41	1.33
1	w	543	PHE	C-N	6.07	1.41	1.33
1	z	455	ARG	CD-NE	6.07	1.54	1.46
1	L	480	VAL	C-O	-6.07	1.16	1.24
1	N	328	ARG	CA-C	6.07	1.60	1.52
1	T	144	PRO	CA-CB	6.07	1.62	1.53
1	V	533	ASN	CA-CB	6.07	1.62	1.53
1	n	431	GLN	CA-C	6.07	1.60	1.52
1	o	230	THR	CA-CB	6.07	1.60	1.52
1	r	293	LEU	N-CA	-6.07	1.38	1.46
1	s	704	HIS	CD2-NE2	6.07	1.44	1.37
1	O	202	ARG	CA-CB	6.07	1.60	1.52
1	R	419	MET	C-N	6.07	1.41	1.33
1	T	267	ASN	CA-C	6.07	1.61	1.52
1	k	534	VAL	CA-CB	-6.07	1.46	1.54
1	s	691	ILE	N-CA	6.07	1.53	1.46
1	t	399	LYS	C-N	6.07	1.42	1.34
1	O	317	PRO	C-N	6.07	1.42	1.33
1	Q	627	GLY	C-N	6.07	1.41	1.33
1	R	95	GLN	CA-CB	6.07	1.63	1.53
1	m	439	GLY	CA-C	-6.07	1.43	1.51
1	q	496	VAL	CA-C	6.07	1.59	1.52
1	u	371	ALA	CA-C	-6.07	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	506	HIS	ND1-CE1	6.07	1.38	1.32
1	H	263	VAL	N-CA	6.07	1.53	1.46
1	V	150	VAL	CA-CB	-6.07	1.46	1.54
1	W	221	LEU	N-CA	-6.06	1.39	1.46
1	p	662	GLN	CA-CB	6.06	1.62	1.53
1	t	170	ARG	CZ-NH2	-6.06	1.25	1.33
1	t	397	HIS	CG-ND1	6.06	1.45	1.38
1	K	264	VAL	N-CA	-6.06	1.41	1.45
1	3	461	TRP	N-CA	6.06	1.53	1.46
1	m	353	HIS	ND1-CE1	6.06	1.38	1.32
1	n	447	GLU	CA-CB	6.06	1.63	1.53
1	x	504	ILE	C-N	6.06	1.41	1.33
1	y	101	ILE	N-CA	6.06	1.53	1.46
1	4	430	ASN	CA-CB	6.06	1.62	1.53
1	7	409	ALA	C-N	6.06	1.41	1.33
1	a	274	GLU	CA-CB	6.06	1.62	1.53
1	q	538	HIS	ND1-CE1	6.06	1.38	1.32
1	s	135	LEU	CA-C	6.06	1.60	1.52
1	w	418	LYS	CA-C	-6.06	1.44	1.52
1	K	479	GLU	N-CA	6.06	1.53	1.46
1	N	204	ILE	CA-C	-6.06	1.45	1.52
1	R	332	GLU	CA-CB	6.06	1.62	1.53
1	X	582	ASP	CA-CB	6.06	1.64	1.53
1	8	112	VAL	N-CA	6.06	1.54	1.46
1	C	455	ARG	C-N	6.06	1.41	1.33
1	K	522	LYS	N-CA	6.06	1.53	1.46
1	X	328	ARG	CA-CB	6.06	1.63	1.53
1	X	428	MET	CA-C	6.06	1.60	1.52
1	d	369	ARG	CD-NE	6.06	1.54	1.46
1	Z	464	ILE	C-N	6.06	1.41	1.33
1	Z	707	CYS	CA-C	6.06	1.60	1.52
1	m	106	SER	CA-C	6.05	1.60	1.52
1	E	174	ARG	CA-CB	6.05	1.61	1.53
1	T	331	GLN	CA-CB	6.05	1.60	1.52
1	1	437	VAL	N-CA	6.05	1.53	1.46
1	6	228	GLY	CA-C	-6.05	1.43	1.51
1	O	470	GLN	CA-CB	6.05	1.63	1.53
1	6	437	VAL	CA-CB	-6.05	1.47	1.54
1	8	488	ARG	CA-CB	6.05	1.62	1.53
1	l	666	MET	C-N	6.05	1.43	1.33
1	v	116	LEU	C-N	6.05	1.42	1.33
1	B	675	TYR	CA-CB	6.05	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c	328	ARG	CD-NE	6.05	1.54	1.46
1	e	487	TYR	CA-C	6.05	1.60	1.52
1	K	280	HIS	CG-ND1	6.05	1.45	1.38
1	R	509	ILE	N-CA	6.05	1.53	1.46
1	d	487	TYR	CA-C	6.05	1.60	1.52
1	e	396	SER	CA-CB	6.05	1.63	1.53
1	m	300	ASP	C-N	6.05	1.41	1.33
1	V	326	LYS	CA-C	6.05	1.60	1.52
1	l	506	HIS	CB-CG	6.05	1.58	1.50
1	4	306	SER	CA-C	6.05	1.60	1.52
1	a	365	ALA	N-CA	-6.05	1.37	1.45
1	l	328	ARG	CA-C	6.05	1.60	1.52
1	z	468	ASN	C-O	6.05	1.31	1.24
1	B	683	SER	C-N	6.05	1.41	1.33
1	P	567	MET	CA-CB	6.05	1.62	1.53
1	t	506	HIS	CA-CB	6.04	1.62	1.53
1	B	195	ASN	CA-CB	6.04	1.62	1.53
1	Z	114	GLN	CA-CB	6.04	1.63	1.53
1	3	199	GLY	C-N	6.04	1.42	1.33
1	e	291	GLY	C-N	6.04	1.41	1.33
1	i	522	LYS	CA-CB	6.04	1.62	1.53
1	j	191	HIS	CD2-NE2	6.04	1.44	1.37
1	B	221	LEU	CA-CB	6.04	1.60	1.53
1	L	510	GLN	N-CA	6.04	1.53	1.46
1	4	573	ARG	CA-C	6.04	1.61	1.52
1	5	357	ARG	NE-CZ	-6.04	1.26	1.33
1	g	271	ALA	N-CA	6.04	1.54	1.46
1	r	473	LYS	CA-CB	6.04	1.62	1.53
1	u	445	GLU	CA-C	6.04	1.61	1.52
1	w	319	LYS	CA-CB	6.04	1.63	1.53
1	B	657	ASN	N-CA	6.04	1.53	1.46
1	S	390	GLU	N-CA	6.04	1.53	1.46
1	T	268	VAL	C-N	6.04	1.41	1.33
1	U	369	ARG	CD-NE	6.04	1.54	1.46
1	J	478	GLU	CA-CB	6.04	1.66	1.54
1	R	366	THR	N-CA	6.04	1.54	1.46
1	S	287	ASP	CA-CB	6.04	1.62	1.53
1	0	522	LYS	N-CA	6.04	1.53	1.46
1	7	437	VAL	CA-C	6.04	1.60	1.52
1	7	541	GLU	CA-C	-6.04	1.44	1.52
1	8	295	LYS	CA-CB	6.04	1.56	1.52
1	p	641	LEU	C-N	6.04	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	s	205	SER	CA-C	-6.04	1.45	1.52
1	v	411	ILE	C-N	6.04	1.41	1.33
1	x	252	TYR	CA-CB	6.04	1.63	1.53
1	J	353	HIS	ND1-CE1	6.04	1.38	1.32
1	K	568	ILE	CA-C	-6.04	1.45	1.52
1	P	107	LEU	CA-C	6.04	1.60	1.52
1	V	533	ASN	CA-C	6.04	1.60	1.52
1	Y	583	GLN	N-CA	-6.04	1.37	1.46
1	Y	669	LEU	C-N	6.04	1.42	1.34
1	o	263	VAL	CA-CB	-6.04	1.46	1.53
1	t	394	ARG	CD-NE	6.04	1.54	1.46
1	u	551	SER	CA-C	6.04	1.60	1.52
1	T	319	LYS	C-N	6.04	1.41	1.33
1	8	657	ASN	CA-CB	6.04	1.62	1.53
1	k	296	PRO	N-CA	6.04	1.54	1.47
1	E	408	GLY	C-N	6.04	1.41	1.33
1	I	98	ARG	CZ-NH1	-6.04	1.24	1.32
1	7	98	ARG	CA-C	6.03	1.59	1.52
1	l	299	MET	CA-CB	6.03	1.62	1.53
1	v	407	CYS	CA-CB	6.03	1.60	1.53
1	G	143	LEU	N-CA	6.03	1.52	1.45
1	I	287	ASP	CA-CB	6.03	1.62	1.53
1	U	145	ARG	CD-NE	6.03	1.54	1.46
1	l	376	THR	C-N	6.03	1.42	1.34
1	o	395	GLU	N-CA	-6.03	1.39	1.46
1	r	684	GLU	CA-CB	6.03	1.62	1.53
1	v	235	ASP	CA-C	6.03	1.60	1.52
1	5	244	GLN	CA-C	-6.03	1.45	1.52
1	t	639	LYS	CA-C	6.03	1.60	1.52
1	x	640	ARG	CA-C	6.03	1.60	1.52
1	P	245	ILE	CA-CB	6.03	1.62	1.54
1	l	259	ILE	CA-CB	6.03	1.61	1.54
1	8	290	ILE	C-N	6.03	1.37	1.33
1	r	680	GLN	N-CA	6.03	1.54	1.46
1	8	98	ARG	N-CA	6.03	1.52	1.46
1	d	298	LEU	C-N	6.03	1.41	1.33
1	h	298	LEU	C-N	6.03	1.41	1.33
1	n	505	VAL	C-N	6.03	1.41	1.33
1	v	324	ILE	CA-C	-6.03	1.45	1.52
1	F	685	THR	CA-CB	-6.03	1.43	1.53
1	G	695	ARG	CD-NE	6.03	1.54	1.46
1	N	367	VAL	N-CA	6.03	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	671	GLU	CA-C	-6.03	1.45	1.52
1	b	153	CYS	CA-C	6.03	1.58	1.52
1	i	538	HIS	CG-CD2	-6.03	1.29	1.35
1	u	106	SER	N-CA	6.03	1.53	1.46
1	H	597	PHE	CA-CB	6.03	1.63	1.53
1	L	522	LYS	CA-CB	6.03	1.62	1.53
1	Q	393	ILE	CA-C	-6.03	1.45	1.52
1	4	364	SER	C-N	6.02	1.39	1.32
1	c	281	GLU	N-CA	6.02	1.54	1.46
1	w	281	GLU	C-N	6.02	1.40	1.33
1	K	530	ALA	C-O	-6.02	1.17	1.24
1	N	573	ARG	NE-CZ	6.02	1.39	1.33
1	g	556	ILE	CA-C	6.02	1.60	1.52
1	k	477	HIS	ND1-CE1	6.02	1.38	1.32
1	n	189	GLU	CA-C	-6.02	1.45	1.52
1	B	438	GLU	CA-CB	6.02	1.64	1.53
1	G	656	GLU	CA-C	6.02	1.60	1.52
1	N	352	THR	CA-C	6.02	1.60	1.52
1	S	494	GLY	N-CA	-6.02	1.39	1.46
1	Z	325	VAL	CA-CB	-6.02	1.47	1.54
1	v	449	ARG	CD-NE	6.02	1.54	1.46
1	Q	677	TRP	NE1-CE2	-6.02	1.30	1.37
1	W	249	ILE	CA-CB	6.02	1.61	1.54
1	l	170	ARG	CD-NE	6.02	1.54	1.46
1	m	191	HIS	ND1-CE1	6.02	1.38	1.32
1	w	692	LEU	CA-C	-6.02	1.45	1.52
1	z	579	PHE	N-CA	6.02	1.52	1.45
1	F	220	ASP	CA-CB	6.02	1.60	1.52
1	M	651	TYR	CA-C	-6.02	1.45	1.52
1	N	521	GLN	CA-C	6.02	1.60	1.52
1	Z	342	ALA	CA-C	6.02	1.60	1.52
1	o	526	ILE	CA-C	6.02	1.60	1.52
1	p	104	ILE	N-CA	6.02	1.53	1.46
1	q	656	GLU	C-N	6.02	1.41	1.33
1	x	580	CYS	N-CA	6.02	1.53	1.46
1	x	635	LEU	C-N	6.02	1.41	1.33
1	S	582	ASP	CA-C	6.02	1.60	1.52
1	V	387	PRO	C-O	-6.02	1.17	1.24
1	E	579	PHE	CA-C	6.02	1.60	1.52
1	V	468	ASN	N-CA	6.02	1.54	1.46
1	2	697	TYR	N-CA	-6.01	1.39	1.46
1	7	232	VAL	C-N	6.01	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d	662	GLN	N-CA	-6.01	1.39	1.46
1	g	253	ILE	CA-CB	-6.01	1.46	1.54
1	C	431	GLN	CA-CB	6.01	1.62	1.53
1	G	633	TYR	N-CA	-6.01	1.39	1.46
1	H	570	LEU	CA-CB	6.01	1.62	1.53
1	N	286	GLY	N-CA	6.01	1.54	1.45
1	O	355	TYR	N-CA	-6.01	1.39	1.46
1	6	320	LYS	N-CA	6.01	1.53	1.46
1	c	289	THR	CA-C	-6.01	1.45	1.52
1	k	586	SER	N-CA	6.01	1.53	1.46
1	l	131	LYS	C-N	6.01	1.42	1.33
1	o	547	GLN	N-CA	-6.01	1.39	1.46
1	T	115	ASP	N-CA	-6.01	1.38	1.46
1	T	564	ALA	N-CA	-6.01	1.39	1.46
1	4	238	PRO	CA-CB	6.01	1.63	1.53
1	f	708	GLN	N-CA	-6.01	1.39	1.46
1	n	502	GLU	CA-C	6.01	1.60	1.52
1	K	103	LEU	CA-CB	6.01	1.62	1.53
1	K	411	ILE	N-CA	-6.01	1.39	1.46
1	T	369	ARG	CA-CB	6.01	1.62	1.53
1	5	418	LYS	CA-CB	6.01	1.63	1.53
1	a	100	CYS	C-N	6.01	1.41	1.33
1	v	688	LYS	CA-CB	6.01	1.63	1.53
1	x	553	ILE	CA-C	-6.01	1.45	1.52
1	2	482	LYS	N-CA	-6.01	1.39	1.46
1	f	544	ASN	C-N	6.01	1.41	1.33
1	R	514	GLU	CA-CB	6.01	1.61	1.53
1	S	147	SER	CA-CB	6.01	1.62	1.53
1	d	166	ALA	CA-C	6.00	1.60	1.52
1	t	226	LEU	CA-C	6.00	1.60	1.53
1	C	426	ILE	N-CA	-6.00	1.39	1.46
1	P	220	ASP	C-N	6.00	1.40	1.33
1	8	382	ILE	CA-C	6.00	1.60	1.52
1	m	592	VAL	CA-CB	6.00	1.61	1.54
1	q	629	HIS	ND1-CE1	6.00	1.38	1.32
1	t	336	ARG	C-N	6.00	1.42	1.33
1	t	425	LYS	C-N	6.00	1.41	1.33
1	w	189	GLU	CA-C	-6.00	1.45	1.52
1	z	624	THR	CA-C	-6.00	1.45	1.52
1	U	287	ASP	N-CA	6.00	1.53	1.46
1	W	233	ALA	N-CA	6.00	1.53	1.46
1	5	118	LEU	CA-C	6.00	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7	381	HIS	ND1-CE1	6.00	1.38	1.32
1	a	504	ILE	CA-CB	-6.00	1.47	1.54
1	t	534	VAL	CA-CB	-6.00	1.47	1.54
1	C	445	GLU	C-N	6.00	1.42	1.33
1	J	628	ILE	N-CA	-6.00	1.39	1.46
1	O	126	ASP	CA-CB	6.00	1.61	1.53
1	M	214	THR	C-O	-6.00	1.17	1.24
1	9	290	ILE	C-N	6.00	1.38	1.33
1	f	477	HIS	CG-CD2	6.00	1.42	1.35
1	g	345	LYS	CA-CB	6.00	1.62	1.53
1	q	465	LEU	CA-CB	-6.00	1.44	1.53
1	I	403	GLU	CA-CB	6.00	1.62	1.53
1	M	198	ALA	N-CA	-6.00	1.38	1.46
1	O	584	ILE	CA-C	6.00	1.59	1.52
1	R	400	ALA	C-N	6.00	1.41	1.33
1	T	477	HIS	ND1-CE1	6.00	1.38	1.32
1	W	179	GLU	N-CA	6.00	1.53	1.46
1	7	355	TYR	CA-CB	6.00	1.62	1.53
1	d	464	ILE	CA-C	-6.00	1.45	1.52
1	t	565	GLU	N-CA	-6.00	1.39	1.46
1	O	455	ARG	NE-CZ	6.00	1.39	1.33
1	U	639	LYS	CA-CB	6.00	1.62	1.53
1	0	379	ILE	CA-C	-6.00	1.45	1.52
1	f	354	PRO	CA-C	6.00	1.60	1.52
1	S	487	TYR	C-N	6.00	1.41	1.33
1	T	365	ALA	C-N	6.00	1.42	1.33
1	Y	228	GLY	C-N	6.00	1.41	1.33
1	i	239	ARG	CA-C	5.99	1.59	1.52
1	l	645	ILE	CA-CB	5.99	1.57	1.53
1	w	538	HIS	CB-CG	5.99	1.58	1.50
1	z	651	TYR	CA-C	5.99	1.60	1.52
1	T	642	ALA	CA-CB	5.99	1.62	1.53
1	m	148	GLY	C-N	5.99	1.40	1.33
1	m	193	ALA	C-N	5.99	1.41	1.33
1	3	127	GLN	CA-C	5.99	1.61	1.52
1	8	101	ILE	N-CA	-5.99	1.39	1.46
1	n	560	HIS	CG-CD2	-5.99	1.29	1.35
1	v	532	ILE	C-N	5.99	1.41	1.33
1	v	555	ASP	CA-C	5.99	1.60	1.52
1	A	344	LYS	CA-CB	5.99	1.62	1.53
1	K	107	LEU	CA-C	5.99	1.60	1.52
1	K	254	GLN	CA-C	-5.99	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	122	ALA	C-O	5.99	1.30	1.24
1	R	692	LEU	CA-C	5.99	1.60	1.52
1	h	656	GLU	CA-C	5.99	1.60	1.52
1	D	414	GLN	N-CA	5.99	1.53	1.45
1	X	106	SER	C-N	5.99	1.42	1.34
1	Y	511	GLN	CA-C	5.99	1.61	1.52
1	Y	579	PHE	C-N	5.99	1.41	1.33
1	m	569	GLN	CA-CB	5.99	1.62	1.53
1	w	422	LEU	N-CA	-5.99	1.39	1.46
1	X	267	ASN	C-N	5.99	1.40	1.33
1	5	156	VAL	CA-CB	5.99	1.61	1.54
1	o	570	LEU	N-CA	-5.99	1.39	1.46
1	O	657	ASN	C-N	5.99	1.41	1.33
1	P	443	VAL	CA-CB	5.99	1.61	1.54
1	W	357	ARG	C-N	5.99	1.41	1.33
1	6	118	LEU	CA-C	5.98	1.60	1.52
1	e	675	TYR	CA-CB	5.98	1.62	1.53
1	v	538	HIS	ND1-CE1	5.98	1.38	1.32
1	E	289	THR	C-N	5.98	1.40	1.33
1	J	658	GLY	CA-C	5.98	1.59	1.52
1	K	181	GLN	CA-CB	5.98	1.63	1.52
1	6	680	GLN	N-CA	-5.98	1.39	1.46
1	7	124	ILE	N-CA	-5.98	1.39	1.46
1	a	597	PHE	CA-CB	5.98	1.62	1.53
1	m	445	GLU	CA-CB	5.98	1.63	1.53
1	q	704	HIS	CA-C	5.98	1.60	1.52
1	L	446	ASN	C-N	5.98	1.41	1.33
1	V	406	ARG	C-N	5.98	1.41	1.33
1	h	547	GLN	CA-C	5.98	1.60	1.52
1	s	248	LEU	CA-CB	5.98	1.63	1.53
1	t	319	LYS	CA-CB	5.98	1.62	1.53
1	w	444	ARG	CA-CB	5.98	1.62	1.53
1	y	202	ARG	CA-C	-5.98	1.46	1.53
1	y	529	GLN	CA-C	-5.98	1.45	1.52
1	H	488	ARG	CA-CB	5.98	1.62	1.53
1	M	367	VAL	C-N	-5.98	1.26	1.33
1	S	536	LYS	CA-C	-5.98	1.45	1.52
1	T	235	ASP	CA-C	5.98	1.60	1.52
1	V	226	LEU	N-CA	-5.98	1.37	1.45
1	o	509	ILE	C-N	5.98	1.41	1.33
1	x	506	HIS	CG-ND1	-5.98	1.31	1.38
1	c	626	ILE	C-N	5.98	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g	306	SER	C-N	5.98	1.41	1.33
1	o	401	THR	N-CA	5.98	1.53	1.46
1	t	94	GLU	N-CA	5.98	1.53	1.46
1	v	189	GLU	CA-C	5.98	1.60	1.52
1	8	638	SER	CA-C	-5.98	1.45	1.52
1	j	181	GLN	CA-CB	5.98	1.63	1.53
1	q	585	TYR	CA-CB	5.98	1.62	1.53
1	v	218	VAL	CA-C	5.98	1.59	1.52
1	2	158	LYS	C-N	5.97	1.41	1.33
1	9	422	LEU	CA-CB	5.97	1.62	1.53
1	l	420	PHE	CA-CB	5.97	1.62	1.53
1	E	361	GLU	CA-CB	5.97	1.62	1.53
1	M	326	LYS	CA-CB	5.97	1.63	1.53
1	P	329	GLY	C-N	5.97	1.42	1.33
1	P	573	ARG	CA-CB	5.97	1.62	1.53
1	S	396	SER	CA-C	5.97	1.60	1.52
1	Y	234	VAL	N-CA	5.97	1.53	1.46
1	h	248	LEU	CA-C	5.97	1.60	1.52
1	s	470	GLN	CA-C	5.97	1.60	1.52
1	C	456	GLU	CA-C	-5.97	1.45	1.52
1	D	128	SER	CA-CB	5.97	1.62	1.53
1	I	645	ILE	N-CA	5.97	1.53	1.46
1	J	415	GLU	C-N	5.97	1.41	1.33
1	P	454	ILE	CA-C	-5.97	1.45	1.52
1	g	655	ARG	CD-NE	5.97	1.54	1.46
1	p	108	ARG	CD-NE	5.97	1.54	1.46
1	q	390	GLU	CA-CB	5.97	1.62	1.53
1	u	559	LYS	C-N	5.97	1.41	1.33
1	F	632	ALA	CA-C	-5.97	1.45	1.52
1	L	337	LEU	C-N	5.97	1.41	1.33
1	N	175	ASN	CA-C	5.97	1.61	1.53
1	O	224	ILE	CA-CB	5.97	1.60	1.53
1	T	403	GLU	CA-C	5.97	1.60	1.52
1	o	697	TYR	CZ-OH	5.97	1.50	1.38
1	z	340	ALA	C-N	5.97	1.42	1.34
1	L	204	ILE	CA-CB	-5.97	1.47	1.54
1	6	567	MET	C-N	5.97	1.41	1.33
1	a	478	GLU	C-O	5.97	1.30	1.24
1	b	190	ILE	C-N	5.97	1.41	1.33
1	h	254	GLN	N-CA	5.97	1.53	1.46
1	z	338	SER	CA-CB	5.97	1.63	1.53
1	K	301	ARG	CD-NE	5.97	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	S	162	GLN	CA-C	5.97	1.58	1.52
1	0	259	ILE	CA-CB	-5.96	1.47	1.54
1	5	302	GLY	CA-C	5.96	1.59	1.52
1	8	321	GLY	C-N	5.96	1.41	1.33
1	9	641	LEU	N-CA	-5.96	1.38	1.46
1	9	706	LEU	C-N	5.96	1.42	1.33
1	Y	655	ARG	CD-NE	5.96	1.54	1.46
1	c	309	ASN	C-N	5.96	1.41	1.33
1	d	102	ASP	CA-CB	5.96	1.63	1.53
1	n	172	SER	CA-C	-5.96	1.45	1.52
1	s	149	ILE	CA-C	5.96	1.60	1.52
1	T	435	LYS	N-CA	-5.96	1.38	1.46
1	k	562	ALA	C-O	-5.96	1.17	1.24
1	p	249	ILE	N-CA	-5.96	1.39	1.46
1	s	213	ILE	N-CA	5.96	1.53	1.46
1	t	491	GLU	N-CA	5.96	1.53	1.46
1	J	331	GLN	N-CA	-5.96	1.38	1.46
1	J	474	ASN	N-CA	-5.96	1.38	1.46
1	E	237	GLN	CA-C	-5.96	1.47	1.53
1	Q	266	CYS	CA-C	5.96	1.60	1.52
1	1	590	LYS	CA-C	5.96	1.60	1.52
1	3	98	ARG	N-CA	-5.96	1.41	1.46
1	4	668	ILE	CA-CB	5.96	1.62	1.54
1	7	175	ASN	C-N	5.96	1.40	1.33
1	c	291	GLY	C-N	5.96	1.41	1.33
1	k	250	LYS	CA-CB	5.96	1.62	1.53
1	n	461	TRP	C-N	5.96	1.41	1.33
1	p	334	THR	C-N	5.96	1.42	1.33
1	C	300	ASP	C-N	5.96	1.41	1.33
1	D	267	ASN	CA-C	5.96	1.60	1.52
1	H	668	ILE	N-CA	5.96	1.53	1.46
1	K	428	MET	CA-CB	5.96	1.62	1.53
1	L	292	ILE	CA-C	-5.96	1.45	1.52
1	P	152	ARG	CA-C	-5.96	1.44	1.52
1	V	318	LEU	N-CA	5.96	1.53	1.46
1	8	379	ILE	CA-CB	-5.96	1.47	1.54
1	v	658	GLY	C-N	5.96	1.41	1.33
1	D	190	ILE	CA-CB	-5.96	1.46	1.54
1	U	295	LYS	N-CA	5.96	1.54	1.46
1	V	318	LEU	CA-C	5.96	1.60	1.52
1	Y	156	VAL	C-O	5.96	1.30	1.24
1	B	695	ARG	N-CA	5.96	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5	255	ARG	CZ-NH2	-5.95	1.25	1.33
1	6	329	GLY	C-N	5.95	1.42	1.33
1	c	461	TRP	CA-C	5.95	1.60	1.52
1	K	700	THR	N-CA	-5.95	1.38	1.46
1	M	98	ARG	CD-NE	5.95	1.54	1.46
1	V	293	LEU	CA-CB	5.95	1.60	1.53
1	V	553	ILE	CA-C	5.95	1.60	1.52
1	f	493	LEU	CA-C	5.95	1.61	1.53
1	g	296	PRO	C-N	5.95	1.42	1.33
1	x	577	MET	C-N	5.95	1.39	1.33
1	F	629	HIS	ND1-CE1	5.95	1.38	1.32
1	S	216	PRO	CA-C	-5.95	1.43	1.52
1	V	591	LYS	N-CA	-5.95	1.39	1.46
1	5	638	SER	C-O	-5.95	1.17	1.24
1	8	319	LYS	C-N	5.95	1.42	1.33
1	9	508	TYR	CA-CB	5.95	1.62	1.53
1	d	662	GLN	CA-CB	5.95	1.62	1.53
1	r	151	THR	CA-CB	5.95	1.62	1.53
1	z	430	ASN	CA-CB	5.95	1.62	1.53
1	L	283	ASP	CA-CB	5.95	1.61	1.53
1	r	122	ALA	CA-C	-5.95	1.45	1.52
1	z	531	PHE	CA-CB	5.95	1.62	1.53
1	N	309	ASN	CA-C	5.95	1.60	1.52
1	N	467	THR	CA-CB	5.95	1.62	1.53
1	Q	246	LYS	CA-C	5.95	1.60	1.52
1	X	329	GLY	CA-C	-5.95	1.43	1.51
1	X	537	LYS	C-N	5.95	1.41	1.33
1	Z	208	LEU	N-CA	5.95	1.53	1.46
1	0	591	LYS	C-N	5.95	1.41	1.33
1	2	292	ILE	CA-C	-5.95	1.45	1.52
1	3	422	LEU	CA-C	5.95	1.60	1.52
1	e	269	ASP	C-N	-5.95	1.26	1.33
1	s	207	GLU	CA-C	5.95	1.60	1.52
1	u	331	GLN	CA-C	5.95	1.60	1.52
1	K	449	ARG	CD-NE	5.95	1.54	1.46
1	2	548	THR	N-CA	-5.95	1.39	1.46
1	8	543	PHE	CA-CB	5.95	1.62	1.53
1	e	505	VAL	CA-CB	-5.95	1.46	1.54
1	j	573	ARG	CA-CB	5.95	1.62	1.53
1	j	642	ALA	N-CA	-5.95	1.39	1.46
1	o	264	VAL	N-CA	5.95	1.51	1.46
1	q	194	GLN	C-N	5.95	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	u	259	ILE	CA-CB	5.95	1.60	1.53
1	v	163	PRO	C-N	5.95	1.41	1.33
1	D	398	GLN	CA-C	-5.95	1.45	1.52
1	E	312	ARG	CD-NE	5.95	1.54	1.46
1	N	472	VAL	C-N	5.95	1.41	1.33
1	W	584	ILE	CB-CG1	5.95	1.65	1.53
1	Y	584	ILE	CA-CB	-5.95	1.46	1.54
1	Z	164	CYS	CA-CB	5.95	1.63	1.53
1	x	506	HIS	CA-CB	5.94	1.62	1.53
1	G	308	MET	CA-C	5.94	1.60	1.52
1	I	593	ARG	CD-NE	5.94	1.54	1.46
1	2	304	GLU	CA-C	5.94	1.60	1.52
1	4	701	GLN	CA-CB	5.94	1.62	1.53
1	8	191	HIS	CB-CG	5.94	1.58	1.50
1	9	633	TYR	CA-C	-5.94	1.45	1.52
1	c	127	GLN	CA-CB	5.94	1.63	1.53
1	m	271	ALA	CA-C	5.94	1.60	1.52
1	n	646	PRO	CA-CB	-5.94	1.45	1.53
1	D	506	HIS	C-N	5.94	1.41	1.33
1	H	640	ARG	CD-NE	5.94	1.54	1.46
1	X	403	GLU	CA-C	-5.94	1.45	1.52
1	0	440	GLU	C-N	5.94	1.41	1.33
1	0	634	PHE	CA-CB	5.94	1.63	1.53
1	8	453	LYS	C-N	5.94	1.41	1.33
1	o	158	LYS	C-N	5.94	1.41	1.33
1	s	334	THR	CA-C	5.94	1.60	1.52
1	x	166	ALA	CA-C	5.94	1.60	1.52
1	z	241	ILE	N-CA	-5.94	1.39	1.46
1	A	232	VAL	N-CA	5.94	1.53	1.46
1	E	698	ARG	CZ-NH2	-5.94	1.25	1.33
1	W	380	MET	CA-CB	5.94	1.63	1.53
1	5	95	GLN	CA-CB	5.94	1.61	1.53
1	j	670	GLN	CA-C	5.94	1.61	1.52
1	x	367	VAL	CA-CB	5.94	1.61	1.54
1	B	398	GLN	CA-C	5.94	1.60	1.52
1	s	672	LYS	CA-CB	5.94	1.63	1.53
1	u	233	ALA	CA-C	5.94	1.60	1.52
1	y	590	LYS	C-N	5.94	1.41	1.33
1	J	474	ASN	CA-CB	5.94	1.63	1.53
1	L	178	LEU	C-N	5.94	1.41	1.33
1	P	486	GLN	C-N	5.94	1.41	1.33
1	W	457	ASP	N-CA	-5.94	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8	213	ILE	CA-CB	-5.94	1.47	1.54
1	h	131	LYS	N-CA	-5.94	1.39	1.46
1	M	135	LEU	CA-C	-5.94	1.45	1.52
1	M	411	ILE	CA-C	5.94	1.59	1.52
1	W	269	ASP	N-CA	5.94	1.53	1.46
1	4	402	GLU	CA-CB	5.93	1.62	1.53
1	m	171	ILE	CA-CB	-5.93	1.46	1.54
1	y	625	GLU	C-N	5.93	1.40	1.33
1	F	346	GLU	CA-CB	5.93	1.62	1.53
1	Z	226	LEU	CA-CB	5.93	1.61	1.53
1	l	447	GLU	N-CA	-5.93	1.37	1.46
1	r	687	THR	CA-CB	5.93	1.62	1.53
1	w	315	THR	N-CA	5.93	1.53	1.46
1	C	694	GLU	CA-CB	5.93	1.62	1.53
1	J	182	ASP	CA-C	5.93	1.60	1.53
1	J	373	ARG	CD-NE	5.93	1.54	1.46
1	N	496	VAL	C-O	-5.93	1.18	1.24
1	2	355	TYR	N-CA	5.93	1.53	1.46
1	f	710	SER	C-N	5.93	1.41	1.33
1	j	316	TYR	CG-CD2	5.93	1.51	1.39
1	n	539	PHE	CA-CB	5.93	1.64	1.53
1	F	99	PRO	C-N	5.93	1.41	1.33
1	Y	411	ILE	CB-CG1	5.93	1.65	1.53
1	3	261	LEU	CA-CB	5.93	1.60	1.53
1	5	321	GLY	CA-C	5.93	1.60	1.51
1	e	133	SER	CA-C	-5.93	1.45	1.52
1	e	565	GLU	N-CA	-5.93	1.39	1.46
1	i	555	ASP	N-CA	-5.93	1.39	1.46
1	l	310	VAL	C-N	5.93	1.41	1.33
1	s	679	LEU	N-CA	-5.93	1.39	1.46
1	y	266	CYS	CA-C	5.93	1.61	1.52
1	A	137	ALA	C-N	5.93	1.42	1.33
1	O	236	ASN	CA-CB	5.93	1.63	1.53
1	Q	707	CYS	CA-C	5.93	1.60	1.52
1	R	396	SER	N-CA	5.93	1.53	1.46
1	V	194	GLN	CA-CB	5.93	1.62	1.53
1	k	594	GLU	CA-CB	5.93	1.62	1.53
1	m	455	ARG	CA-CB	5.93	1.63	1.53
1	u	451	TYR	CA-C	5.93	1.60	1.52
1	E	120	ALA	CA-C	5.93	1.59	1.52
1	I	119	PRO	CA-CB	-5.93	1.45	1.53
1	J	269	ASP	CA-C	5.93	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	181	GLN	CA-C	5.93	1.60	1.52
1	O	464	ILE	C-N	5.93	1.41	1.33
1	6	422	LEU	CA-C	5.93	1.60	1.52
1	d	533	ASN	CA-C	5.93	1.60	1.52
1	e	380	MET	CA-C	-5.93	1.45	1.52
1	m	128	SER	CA-CB	5.93	1.62	1.53
1	p	484	GLU	C-N	5.93	1.42	1.33
1	L	193	ALA	C-N	5.93	1.41	1.33
1	L	593	ARG	CD-NE	5.93	1.54	1.46
1	Q	570	LEU	C-N	5.93	1.41	1.33
1	5	590	LYS	CA-CB	5.92	1.63	1.53
1	b	487	TYR	C-O	5.92	1.31	1.24
1	h	98	ARG	CD-NE	5.92	1.54	1.46
1	n	624	THR	CA-C	-5.92	1.45	1.52
1	y	498	TYR	N-CA	5.92	1.53	1.46
1	B	646	PRO	CA-CB	-5.92	1.45	1.53
1	C	154	PRO	CA-C	-5.92	1.44	1.52
1	Q	109	ALA	C-N	5.92	1.42	1.33
1	T	487	TYR	N-CA	5.92	1.53	1.46
1	X	306	SER	C-N	5.92	1.41	1.33
1	5	516	ALA	CA-CB	-5.92	1.44	1.53
1	o	200	ASN	CA-C	5.92	1.61	1.53
1	r	234	VAL	CA-C	5.92	1.60	1.53
1	y	504	ILE	CA-CB	-5.92	1.47	1.54
1	E	366	THR	N-CA	5.92	1.53	1.46
1	Z	215	SER	N-CA	-5.92	1.40	1.46
1	8	625	GLU	C-N	5.92	1.41	1.33
1	n	161	LYS	CA-CB	5.92	1.60	1.52
1	n	169	GLY	C-N	-5.92	1.25	1.33
1	G	350	PHE	CA-CB	5.92	1.63	1.53
1	L	125	GLY	N-CA	5.92	1.51	1.45
1	L	287	ASP	C-O	-5.92	1.17	1.24
1	N	478	GLU	N-CA	-5.92	1.39	1.46
1	O	99	PRO	C-O	5.92	1.31	1.24
1	f	483	TYR	C-O	5.92	1.30	1.24
1	I	690	ARG	CD-NE	5.92	1.54	1.46
1	K	513	VAL	CA-C	5.92	1.60	1.52
1	V	566	ASN	N-CA	-5.92	1.39	1.46
1	X	590	LYS	N-CA	-5.92	1.39	1.46
1	3	567	MET	N-CA	-5.92	1.38	1.46
1	a	382	ILE	C-N	5.92	1.41	1.33
1	b	655	ARG	N-CA	5.92	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c	186	VAL	CA-CB	-5.92	1.46	1.54
1	c	569	GLN	C-N	5.92	1.41	1.33
1	r	181	GLN	N-CA	5.92	1.53	1.46
1	u	105	ASP	CA-CB	5.92	1.62	1.53
1	u	349	PHE	CA-CB	5.92	1.62	1.53
1	v	433	ILE	CB-CG1	5.92	1.65	1.53
1	x	568	ILE	CB-CG1	5.92	1.65	1.53
1	A	646	PRO	CA-C	-5.92	1.43	1.52
1	K	154	PRO	N-CD	-5.92	1.39	1.47
1	M	509	ILE	C-N	5.92	1.41	1.33
1	N	527	ILE	CA-CB	-5.92	1.47	1.54
1	3	232	VAL	CA-CB	5.92	1.61	1.54
1	p	455	ARG	N-CA	-5.92	1.38	1.46
1	y	594	GLU	CA-CB	5.92	1.62	1.53
1	G	149	ILE	CA-CB	-5.92	1.47	1.54
1	P	664	ALA	C-N	5.92	1.41	1.34
1	g	460	ASN	N-CA	5.92	1.53	1.46
1	R	634	PHE	CA-CB	5.92	1.62	1.53
1	f	147	SER	C-N	5.91	1.42	1.33
1	h	292	ILE	N-CA	-5.91	1.39	1.46
1	k	701	GLN	C-N	5.91	1.42	1.33
1	p	506	HIS	CA-C	-5.91	1.45	1.52
1	t	127	GLN	C-O	-5.91	1.16	1.24
1	O	245	ILE	N-CA	5.91	1.53	1.46
1	W	265	PRO	C-N	5.91	1.42	1.33
1	Y	527	ILE	CA-C	5.91	1.60	1.52
1	Z	563	LYS	C-N	5.91	1.41	1.33
1	W	560	HIS	CE1-NE2	-5.91	1.26	1.32
1	Y	312	ARG	CA-C	5.91	1.60	1.52
1	2	288	ARG	CD-NE	5.91	1.54	1.46
1	4	547	GLN	N-CA	-5.91	1.39	1.46
1	i	167	TRP	CA-CB	5.91	1.64	1.53
1	j	136	GLU	C-N	5.91	1.42	1.33
1	m	651	TYR	CA-C	-5.91	1.44	1.52
1	u	446	ASN	N-CA	5.91	1.55	1.46
1	P	300	ASP	C-N	5.91	1.41	1.33
1	W	355	TYR	C-N	5.91	1.42	1.33
1	x	260	ASN	CA-C	-5.91	1.45	1.52
1	R	478	GLU	CA-C	5.91	1.60	1.52
1	X	280	HIS	C-N	5.91	1.41	1.33
1	2	654	LEU	CA-C	-5.91	1.47	1.52
1	d	193	ALA	CA-CB	-5.91	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l	298	LEU	CA-CB	5.91	1.62	1.53
1	u	391	GLY	CA-C	-5.91	1.45	1.52
1	u	436	LEU	C-N	5.91	1.41	1.33
1	x	583	GLN	C-N	5.91	1.41	1.33
1	z	442	VAL	C-N	5.91	1.40	1.33
1	J	327	CYS	CA-CB	5.91	1.63	1.53
1	P	545	LEU	C-N	5.91	1.41	1.33
1	S	161	LYS	C-N	5.91	1.40	1.33
1	V	648	ILE	N-CA	5.91	1.53	1.46
1	3	704	HIS	CA-CB	5.90	1.62	1.53
1	e	648	ILE	CA-CB	5.90	1.62	1.54
1	C	126	ASP	CA-C	5.90	1.60	1.52
1	O	590	LYS	CA-CB	5.90	1.62	1.53
1	R	329	GLY	CA-C	-5.90	1.44	1.51
1	d	175	ASN	CA-CB	5.90	1.62	1.53
1	r	243	LEU	CA-C	-5.90	1.45	1.52
1	v	497	ASN	CA-CB	5.90	1.63	1.53
1	y	707	CYS	N-CA	-5.90	1.39	1.46
1	9	125	GLY	CA-C	5.90	1.57	1.51
1	e	403	GLU	N-CA	5.90	1.53	1.46
1	l	255	ARG	CD-NE	5.90	1.54	1.46
1	r	660	SER	CA-CB	5.90	1.62	1.53
1	D	465	LEU	CA-CB	5.90	1.62	1.53
1	M	231	ARG	CA-C	-5.90	1.44	1.52
1	P	313	ASN	CA-C	5.90	1.61	1.52
1	S	122	ALA	C-O	-5.90	1.17	1.24
1	S	690	ARG	N-CA	-5.90	1.39	1.46
1	r	438	GLU	CA-C	5.90	1.60	1.52
1	u	597	PHE	C-N	5.90	1.41	1.33
1	X	496	VAL	CA-C	-5.90	1.45	1.52
1	2	311	VAL	CA-C	5.90	1.60	1.52
1	5	164	CYS	CA-CB	5.90	1.62	1.53
1	j	513	VAL	N-CA	-5.90	1.39	1.46
1	l	629	HIS	C-N	5.90	1.41	1.33
1	s	237	GLN	CA-CB	5.90	1.62	1.53
1	z	519	MET	CA-C	5.90	1.60	1.52
1	G	232	VAL	C-N	5.90	1.41	1.33
1	0	273	THR	CA-C	5.90	1.61	1.53
1	6	709	PHE	CA-CB	5.90	1.62	1.53
1	i	156	VAL	CA-CB	5.90	1.61	1.54
1	P	507	GLN	N-CA	-5.90	1.39	1.46
1	5	625	GLU	N-CA	-5.89	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g	160	LYS	CA-CB	5.89	1.63	1.53
1	l	593	ARG	CD-NE	5.89	1.54	1.46
1	1	248	LEU	CB-CG	5.89	1.65	1.53
1	3	554	GLU	C-N	5.89	1.41	1.33
1	f	371	ALA	CA-CB	5.89	1.62	1.53
1	n	334	THR	N-CA	5.89	1.53	1.46
1	A	690	ARG	N-CA	-5.89	1.38	1.46
1	H	437	VAL	CA-C	5.89	1.60	1.52
1	V	206	HIS	ND1-CE1	5.89	1.38	1.32
1	6	459	LYS	CA-C	5.89	1.60	1.52
1	e	496	VAL	C-O	-5.89	1.18	1.24
1	H	261	LEU	CA-CB	5.89	1.61	1.53
1	I	642	ALA	N-CA	-5.89	1.38	1.46
1	Y	496	VAL	C-O	-5.89	1.16	1.23
1	e	293	LEU	CA-CB	5.89	1.61	1.53
1	h	543	PHE	C-N	5.89	1.42	1.33
1	n	682	GLN	CA-CB	5.89	1.62	1.53
1	q	155	LEU	C-N	5.89	1.40	1.33
1	J	178	LEU	CA-C	-5.89	1.45	1.52
1	J	576	GLN	C-N	5.89	1.42	1.33
1	M	386	LEU	CA-CB	5.89	1.61	1.53
1	Z	203	GLY	N-CA	5.89	1.53	1.45
1	3	704	HIS	CD2-NE2	-5.89	1.31	1.37
1	e	578	VAL	N-CA	-5.89	1.39	1.46
1	o	527	ILE	CA-C	5.89	1.60	1.52
1	C	264	VAL	CA-C	5.89	1.56	1.52
1	F	408	GLY	C-N	5.89	1.42	1.33
1	I	369	ARG	CD-NE	5.89	1.54	1.46
1	R	233	ALA	N-CA	5.89	1.53	1.46
1	9	483	TYR	C-N	5.88	1.41	1.33
1	u	408	GLY	CA-C	5.88	1.59	1.51
1	Q	402	GLU	CA-C	5.88	1.60	1.52
1	Q	710	SER	CA-CB	5.88	1.63	1.53
1	R	435	LYS	N-CA	5.88	1.53	1.46
1	S	695	ARG	CA-CB	5.88	1.62	1.53
1	U	239	ARG	CZ-NH2	-5.88	1.25	1.33
1	7	452	ASN	CA-CB	5.88	1.62	1.53
1	e	145	ARG	CA-CB	5.88	1.62	1.53
1	s	522	LYS	CA-C	-5.88	1.45	1.52
1	v	661	LEU	N-CA	-5.88	1.39	1.46
1	9	228	GLY	N-CA	5.88	1.53	1.45
1	b	337	LEU	N-CA	5.88	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e	551	SER	N-CA	-5.88	1.38	1.46
1	j	338	SER	CA-CB	5.88	1.62	1.53
1	j	578	VAL	CA-C	5.88	1.60	1.52
1	p	375	THR	CA-C	-5.88	1.45	1.52
1	u	538	HIS	CB-CG	5.88	1.58	1.50
1	y	418	LYS	N-CA	-5.88	1.39	1.46
1	z	593	ARG	CD-NE	5.88	1.54	1.46
1	Q	361	GLU	CA-C	-5.88	1.45	1.52
1	U	645	ILE	CA-C	5.88	1.59	1.52
1	W	670	GLN	CA-CB	5.88	1.61	1.53
1	6	669	LEU	CA-CB	5.88	1.63	1.53
1	l	263	VAL	CA-C	-5.88	1.45	1.52
1	E	570	LEU	CA-C	5.88	1.60	1.52
1	J	639	LYS	CA-C	-5.88	1.45	1.52
1	c	356	PHE	CA-C	5.88	1.60	1.52
1	e	345	LYS	C-O	-5.88	1.17	1.24
1	t	689	ARG	CA-C	5.88	1.60	1.52
1	u	628	ILE	CA-CB	5.88	1.61	1.54
1	F	655	ARG	CD-NE	5.88	1.54	1.46
1	K	233	ALA	CA-CB	5.88	1.62	1.53
1	L	592	VAL	CA-C	5.88	1.60	1.52
1	M	472	VAL	N-CA	5.88	1.53	1.46
1	N	679	LEU	C-N	5.88	1.41	1.33
1	S	528	GLN	C-N	5.88	1.41	1.33
1	Y	134	VAL	CA-CB	-5.88	1.47	1.54
1	l	197	MET	CA-C	5.88	1.60	1.52
1	h	701	GLN	CA-C	5.88	1.60	1.52
1	u	707	CYS	CA-C	5.88	1.60	1.52
1	I	213	ILE	C-O	-5.88	1.18	1.24
1	D	116	LEU	CA-C	-5.88	1.45	1.52
1	u	136	GLU	CA-CB	5.87	1.62	1.53
1	z	367	VAL	CA-C	5.87	1.59	1.52
1	A	431	GLN	CA-C	5.87	1.60	1.52
1	C	215	SER	CA-C	5.87	1.60	1.52
1	M	261	LEU	CA-C	5.87	1.60	1.53
1	N	225	ASP	CA-C	-5.87	1.45	1.52
1	N	316	TYR	C-N	5.87	1.41	1.33
1	R	484	GLU	CA-C	5.87	1.60	1.52
1	0	213	ILE	CA-CB	-5.87	1.46	1.54
1	7	680	GLN	C-N	5.87	1.41	1.33
1	g	649	ILE	CA-C	5.87	1.60	1.52
1	p	469	THR	N-CA	5.87	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	R	352	THR	N-CA	-5.87	1.39	1.46
1	U	232	VAL	CA-C	5.87	1.59	1.52
1	c	372	GLU	N-CA	-5.87	1.39	1.46
1	e	664	ALA	CA-CB	5.87	1.63	1.53
1	F	499	LYS	C-N	5.87	1.42	1.33
1	G	627	GLY	C-O	-5.87	1.17	1.24
1	X	506	HIS	CE1-NE2	5.87	1.38	1.32
1	1	461	TRP	N-CA	5.87	1.53	1.46
1	p	118	LEU	CA-CB	5.87	1.62	1.53
1	r	558	VAL	N-CA	-5.87	1.38	1.46
1	z	298	LEU	C-N	5.87	1.42	1.33
1	z	523	ALA	C-N	5.87	1.42	1.33
1	F	222	THR	N-CA	5.87	1.53	1.46
1	2	547	GLN	C-N	5.87	1.42	1.33
1	3	308	MET	CA-CB	5.87	1.62	1.53
1	n	535	ALA	CA-C	5.87	1.60	1.52
1	x	257	GLN	CA-CB	5.87	1.63	1.53
1	L	386	LEU	N-CA	-5.87	1.41	1.46
1	O	590	LYS	CA-C	5.87	1.60	1.52
1	b	229	ILE	CA-C	5.87	1.59	1.52
1	c	341	GLU	CA-CB	5.87	1.62	1.53
1	d	100	CYS	CA-CB	5.87	1.62	1.53
1	d	332	GLU	C-N	5.87	1.41	1.33
1	f	662	GLN	C-N	5.87	1.41	1.33
1	o	232	VAL	C-N	5.87	1.41	1.33
1	u	94	GLU	CA-CB	5.87	1.62	1.53
1	y	293	LEU	CA-C	5.87	1.60	1.52
1	9	664	ALA	CA-C	5.86	1.60	1.52
1	d	377	GLU	CA-C	5.86	1.60	1.52
1	d	631	ASN	C-N	5.86	1.41	1.33
1	f	681	GLU	C-N	5.86	1.42	1.33
1	n	655	ARG	CD-NE	5.86	1.54	1.46
1	v	452	ASN	C-N	5.86	1.41	1.33
1	A	705	ALA	N-CA	-5.86	1.39	1.46
1	G	589	LEU	N-CA	-5.86	1.39	1.46
1	J	275	ALA	C-O	-5.86	1.16	1.24
1	P	594	GLU	N-CA	-5.86	1.38	1.46
1	R	562	ALA	N-CA	-5.86	1.39	1.46
1	W	367	VAL	CA-C	-5.86	1.48	1.53
1	W	374	LEU	C-O	-5.86	1.17	1.24
1	Z	390	GLU	C-O	-5.86	1.17	1.24
1	z	517	LEU	CA-C	5.86	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	339	LEU	C-N	5.86	1.41	1.33
1	2	301	ARG	CD-NE	5.86	1.54	1.46
1	z	406	ARG	CD-NE	5.86	1.54	1.46
1	K	262	VAL	CA-CB	-5.86	1.47	1.54
1	l	472	VAL	N-CA	5.86	1.53	1.46
1	e	207	GLU	CA-C	-5.86	1.45	1.52
1	m	209	ILE	CA-C	5.86	1.59	1.52
1	u	681	GLU	N-CA	5.86	1.53	1.45
1	y	571	GLN	CA-C	5.86	1.60	1.52
1	Y	218	VAL	N-CA	5.86	1.50	1.46
1	b	218	VAL	C-N	5.86	1.40	1.33
1	c	702	ALA	C-O	5.86	1.30	1.24
1	e	104	ILE	CA-C	5.86	1.61	1.52
1	p	623	PHE	N-CA	5.86	1.53	1.46
1	y	402	GLU	CA-C	-5.86	1.45	1.52
1	z	266	CYS	N-CA	5.86	1.53	1.46
1	F	376	THR	CA-C	-5.86	1.45	1.52
1	G	412	PRO	CA-C	5.86	1.58	1.53
1	K	365	ALA	CA-C	5.86	1.60	1.52
1	R	221	LEU	CA-CB	5.86	1.63	1.53
1	T	520	LEU	N-CA	-5.86	1.39	1.46
1	X	343	THR	C-N	5.86	1.41	1.33
1	Z	217	GLU	C-N	-5.86	1.26	1.33
1	0	535	ALA	C-N	5.86	1.41	1.33
1	r	283	ASP	CA-CB	5.86	1.61	1.53
1	t	295	LYS	CA-C	5.86	1.60	1.52
1	G	212	GLU	CA-C	5.86	1.59	1.52
1	J	583	GLN	CA-CB	5.86	1.63	1.53
1	j	252	TYR	N-CA	-5.85	1.39	1.46
1	v	188	LYS	CA-CB	5.85	1.62	1.53
1	E	402	GLU	C-N	5.85	1.41	1.33
1	l	207	GLU	CA-C	5.85	1.60	1.52
1	d	461	TRP	C-N	5.85	1.41	1.33
1	h	251	LYS	N-CA	-5.85	1.39	1.46
1	j	319	LYS	CA-CB	5.85	1.63	1.53
1	j	493	LEU	CB-CG	5.85	1.65	1.53
1	p	677	TRP	C-N	5.85	1.41	1.34
1	t	292	ILE	CA-C	-5.85	1.46	1.52
1	v	655	ARG	N-CA	-5.85	1.39	1.46
1	x	188	LYS	C-O	-5.85	1.17	1.24
1	G	679	LEU	CA-CB	5.85	1.61	1.53
1	M	236	ASN	CA-C	5.85	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	139	SER	CA-C	5.85	1.60	1.52
1	s	521	GLN	C-N	5.85	1.41	1.33
1	v	388	LEU	C-N	5.85	1.41	1.33
1	B	136	GLU	C-N	5.85	1.41	1.33
1	C	173	TYR	C-N	5.85	1.42	1.33
1	G	652	PHE	CA-CB	5.85	1.63	1.53
1	2	594	GLU	CA-CB	5.85	1.62	1.53
1	y	498	TYR	CA-C	-5.85	1.45	1.52
1	z	526	ILE	C-N	5.85	1.41	1.33
1	M	351	GLN	N-CA	5.85	1.53	1.46
1	N	217	GLU	CA-CB	5.85	1.62	1.53
1	R	560	HIS	ND1-CE1	5.85	1.38	1.32
1	S	534	VAL	C-N	5.85	1.41	1.33
1	T	359	LEU	CA-C	5.85	1.60	1.53
1	c	143	LEU	CA-C	5.85	1.60	1.52
1	g	191	HIS	CG-ND1	-5.85	1.31	1.38
1	o	655	ARG	N-CA	5.85	1.53	1.46
1	p	225	ASP	CA-CB	5.85	1.62	1.53
1	x	198	ALA	CA-C	5.85	1.60	1.52
1	y	576	GLN	CA-C	-5.85	1.44	1.52
1	z	475	ILE	CB-CG1	5.85	1.65	1.53
1	C	243	LEU	CA-C	5.85	1.60	1.52
1	P	166	ALA	CA-C	5.85	1.59	1.52
1	Q	676	SER	N-CA	-5.85	1.38	1.46
1	T	295	LYS	CA-CB	5.85	1.56	1.52
1	Y	251	LYS	C-N	5.85	1.41	1.33
1	Y	506	HIS	ND1-CE1	5.85	1.38	1.32
1	0	381	HIS	CB-CG	5.85	1.58	1.50
1	D	490	LYS	CA-CB	5.85	1.62	1.53
1	L	152	ARG	CA-CB	5.85	1.62	1.54
1	R	650	GLN	CA-C	5.85	1.60	1.52
1	m	626	ILE	CA-CB	-5.84	1.46	1.54
1	p	566	ASN	N-CA	-5.84	1.39	1.46
1	E	462	VAL	C-N	5.84	1.41	1.33
1	V	152	ARG	CA-C	5.84	1.60	1.52
1	F	106	SER	CA-CB	5.84	1.62	1.53
1	P	268	VAL	C-N	5.84	1.41	1.33
1	P	434	GLU	CA-C	-5.84	1.45	1.52
1	4	223	ILE	CA-CB	-5.84	1.47	1.54
1	6	652	PHE	N-CA	-5.84	1.39	1.46
1	e	332	GLU	CA-CB	5.84	1.62	1.53
1	e	698	ARG	C-N	5.84	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	p	538	HIS	CB-CG	5.84	1.58	1.50
1	P	597	PHE	N-CA	-5.84	1.39	1.46
1	W	439	GLY	CA-C	5.84	1.59	1.51
1	c	674	ARG	N-CA	-5.84	1.38	1.46
1	f	302	GLY	N-CA	5.84	1.53	1.45
1	g	512	LEU	CA-C	-5.84	1.44	1.52
1	j	476	ILE	CA-C	5.84	1.59	1.52
1	t	412	PRO	N-CD	-5.84	1.39	1.47
1	y	382	ILE	CA-CB	-5.84	1.48	1.54
1	H	118	LEU	CA-CB	5.84	1.62	1.53
1	K	592	VAL	N-CA	5.84	1.53	1.46
1	O	256	GLN	CA-CB	5.84	1.62	1.53
1	f	376	THR	N-CA	5.84	1.53	1.46
1	y	580	CYS	CA-C	-5.84	1.45	1.52
1	L	217	GLU	C-N	5.84	1.40	1.33
1	i	698	ARG	CZ-NH2	-5.84	1.25	1.33
1	j	267	ASN	CA-CB	5.84	1.62	1.54
1	s	332	GLU	CA-C	-5.84	1.45	1.52
1	v	638	SER	C-N	5.84	1.40	1.33
1	F	124	ILE	C-O	5.84	1.30	1.24
1	M	207	GLU	CA-C	5.83	1.59	1.52
1	O	569	GLN	N-CA	-5.83	1.39	1.46
1	l	395	GLU	CA-CB	5.83	1.62	1.53
1	d	231	ARG	CD-NE	5.83	1.54	1.46
1	m	175	ASN	CA-CB	5.83	1.61	1.53
1	q	255	ARG	NE-CZ	5.83	1.39	1.33
1	s	444	ARG	CD-NE	5.83	1.54	1.46
1	v	522	LYS	N-CA	-5.83	1.39	1.46
1	v	568	ILE	CA-C	-5.83	1.45	1.52
1	4	630	LEU	C-N	5.83	1.41	1.33
1	5	633	TYR	CA-CB	5.83	1.62	1.53
1	7	247	ALA	C-N	5.83	1.41	1.33
1	s	245	ILE	CA-C	5.83	1.59	1.52
1	O	524	MET	CA-C	5.83	1.60	1.52
1	X	522	LYS	CA-C	5.83	1.60	1.52
1	4	585	TYR	CA-CB	5.83	1.62	1.53
1	k	597	PHE	CA-CB	5.83	1.62	1.53
1	n	152	ARG	NE-CZ	-5.83	1.26	1.33
1	n	707	CYS	CA-C	5.83	1.60	1.52
1	O	295	LYS	N-CA	5.83	1.50	1.46
1	S	151	THR	C-N	5.83	1.43	1.33
1	d	115	ASP	CA-C	5.83	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k	344	LYS	CA-CB	5.83	1.62	1.53
1	k	689	ARG	CA-C	5.83	1.60	1.52
1	q	420	PHE	CA-C	-5.83	1.45	1.52
1	r	503	ILE	CA-CB	-5.83	1.48	1.54
1	x	113	GLU	C-N	5.83	1.41	1.33
1	y	328	ARG	N-CA	5.83	1.53	1.46
1	D	409	ALA	N-CA	5.83	1.53	1.46
1	G	680	GLN	N-CA	5.83	1.53	1.46
1	J	287	ASP	N-CA	-5.83	1.39	1.46
1	J	365	ALA	CA-C	-5.83	1.45	1.52
1	O	663	LYS	CA-C	5.83	1.60	1.52
1	0	456	GLU	N-CA	-5.83	1.39	1.46
1	C	427	LYS	CA-CB	5.83	1.62	1.53
1	6	133	SER	CA-CB	5.83	1.62	1.53
1	a	450	LEU	N-CA	5.83	1.53	1.46
1	e	204	ILE	C-N	5.83	1.41	1.33
1	o	105	ASP	CA-C	5.83	1.60	1.52
1	p	435	LYS	N-CA	5.83	1.53	1.46
1	r	529	GLN	CA-CB	5.83	1.62	1.53
1	x	510	GLN	N-CA	5.83	1.53	1.46
1	C	185	GLN	N-CA	-5.83	1.38	1.46
1	P	506	HIS	CG-ND1	5.83	1.44	1.38
1	W	431	GLN	CA-C	5.83	1.60	1.52
1	0	124	ILE	CA-C	-5.82	1.45	1.52
1	b	261	LEU	C-N	5.82	1.40	1.33
1	e	641	LEU	CA-CB	5.82	1.62	1.53
1	g	215	SER	C-N	5.82	1.40	1.34
1	l	557	LYS	C-N	5.82	1.41	1.33
1	q	141	VAL	C-N	-5.82	1.28	1.33
1	r	421	PHE	N-CA	-5.82	1.39	1.46
1	O	295	LYS	CA-CB	5.82	1.56	1.52
1	W	390	GLU	C-N	5.82	1.40	1.33
1	Z	299	MET	CA-C	5.82	1.60	1.52
1	2	698	ARG	C-N	5.82	1.41	1.33
1	n	588	VAL	CA-C	-5.82	1.45	1.52
1	R	405	ARG	C-N	5.82	1.42	1.33
1	T	164	CYS	CA-CB	5.82	1.62	1.53
1	X	182	ASP	C-N	5.82	1.40	1.34
1	0	437	VAL	N-CA	5.82	1.53	1.46
1	2	162	GLN	N-CA	-5.82	1.38	1.45
1	2	266	CYS	N-CA	5.82	1.53	1.46
1	9	660	SER	C-N	5.82	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	y	351	GLN	C-N	5.82	1.41	1.33
1	B	447	GLU	C-O	-5.82	1.16	1.23
1	D	629	HIS	CB-CG	5.82	1.58	1.50
1	H	529	GLN	CA-CB	5.82	1.62	1.53
1	N	336	ARG	CD-NE	5.82	1.54	1.46
1	X	261	LEU	CA-CB	5.82	1.61	1.53
1	Z	280	HIS	ND1-CE1	5.82	1.38	1.32
1	i	386	LEU	C-N	5.82	1.41	1.34
1	P	486	GLN	CA-CB	5.82	1.63	1.53
1	h	246	LYS	CA-CB	5.82	1.62	1.53
1	M	497	ASN	CA-CB	5.82	1.62	1.53
1	T	337	LEU	CA-C	-5.82	1.45	1.52
1	X	406	ARG	CD-NE	5.82	1.54	1.46
1	l	701	GLN	CA-CB	5.82	1.62	1.53
1	7	677	TRP	CA-CB	5.82	1.62	1.53
1	e	589	LEU	CA-C	5.82	1.60	1.52
1	g	255	ARG	CZ-NH2	-5.82	1.25	1.33
1	h	653	MET	C-N	5.82	1.41	1.33
1	n	355	TYR	CA-C	5.82	1.60	1.52
1	W	306	SER	C-N	5.82	1.41	1.33
1	b	108	ARG	CD-NE	5.81	1.54	1.46
1	i	461	TRP	C-O	-5.81	1.17	1.24
1	j	372	GLU	N-CA	-5.81	1.39	1.46
1	v	179	GLU	N-CA	-5.81	1.39	1.46
1	2	593	ARG	CD-NE	5.81	1.54	1.46
1	e	539	PHE	N-CA	5.81	1.52	1.46
1	m	698	ARG	CA-CB	5.81	1.62	1.53
1	n	584	ILE	CA-CB	-5.81	1.47	1.54
1	t	302	GLY	C-N	5.81	1.41	1.33
1	z	378	LEU	C-N	5.81	1.41	1.33
1	A	452	ASN	CA-CB	5.81	1.62	1.53
1	B	710	SER	CA-C	5.81	1.60	1.52
1	Q	289	THR	N-CA	-5.81	1.38	1.46
1	e	527	ILE	C-N	5.81	1.41	1.33
1	k	386	LEU	N-CA	-5.81	1.41	1.46
1	l	108	ARG	N-CA	-5.81	1.39	1.46
1	t	277	SER	CA-C	5.81	1.60	1.52
1	v	291	GLY	C-N	5.81	1.40	1.33
1	I	433	ILE	CA-CB	-5.81	1.47	1.54
1	M	560	HIS	CG-ND1	-5.81	1.31	1.38
1	N	419	MET	CA-CB	5.81	1.62	1.53
1	2	134	VAL	N-CA	5.81	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c	203	GLY	CA-C	-5.81	1.45	1.52
1	h	684	GLU	C-N	5.81	1.41	1.33
1	n	406	ARG	CA-CB	5.81	1.62	1.53
1	q	701	GLN	C-N	5.81	1.41	1.33
1	t	463	GLY	N-CA	5.81	1.52	1.45
1	A	347	ILE	CA-C	5.81	1.60	1.52
1	D	171	ILE	C-O	-5.81	1.17	1.24
1	G	303	THR	CA-CB	5.81	1.62	1.53
1	L	241	ILE	CA-CB	5.81	1.61	1.54
1	N	234	VAL	CA-CB	-5.81	1.47	1.54
1	R	292	ILE	N-CA	-5.81	1.38	1.46
1	7	251	LYS	N-CA	-5.81	1.39	1.46
1	a	231	ARG	CD-NE	5.81	1.54	1.46
1	g	279	ALA	CA-CB	5.81	1.62	1.53
1	r	454	ILE	C-N	5.81	1.41	1.34
1	u	114	GLN	CA-C	5.81	1.60	1.52
1	u	686	ALA	N-CA	-5.81	1.38	1.46
1	F	542	PHE	CA-C	5.81	1.59	1.52
1	m	403	GLU	C-O	5.81	1.30	1.24
1	A	481	GLU	C-O	-5.81	1.17	1.24
1	C	477	HIS	CA-C	5.81	1.60	1.52
1	F	290	ILE	CA-C	-5.81	1.45	1.52
1	L	538	HIS	CA-CB	5.81	1.62	1.53
1	a	393	ILE	CA-C	5.80	1.59	1.52
1	c	145	ARG	CA-CB	5.80	1.63	1.53
1	f	164	CYS	C-O	5.80	1.31	1.24
1	g	486	GLN	C-N	5.80	1.41	1.33
1	a	98	ARG	CD-NE	5.80	1.54	1.46
1	h	488	ARG	C-N	5.80	1.42	1.33
1	P	590	LYS	C-O	-5.80	1.17	1.24
1	V	423	ILE	CA-CB	5.80	1.60	1.54
1	4	228	GLY	N-CA	5.80	1.54	1.45
1	c	212	GLU	CA-C	5.80	1.59	1.52
1	i	564	ALA	CA-C	-5.80	1.45	1.52
1	k	197	MET	N-CA	5.80	1.53	1.46
1	r	579	PHE	CA-C	5.80	1.59	1.52
1	D	422	LEU	CA-C	-5.80	1.45	1.52
1	D	665	MET	SD-CE	5.80	1.94	1.79
1	E	191	HIS	C-N	5.80	1.41	1.33
1	I	328	ARG	N-CA	-5.80	1.38	1.46
1	K	374	LEU	CA-C	-5.80	1.45	1.52
1	L	228	GLY	C-N	5.80	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Y	375	THR	N-CA	5.80	1.53	1.46
1	3	189	GLU	CA-C	5.80	1.60	1.52
1	4	335	ASN	CA-C	5.80	1.60	1.52
1	9	706	LEU	N-CA	-5.80	1.39	1.46
1	f	96	LYS	CA-C	5.80	1.57	1.52
1	k	551	SER	CA-CB	5.80	1.62	1.53
1	l	541	GLU	C-O	-5.80	1.17	1.24
1	m	231	ARG	CA-CB	5.80	1.62	1.53
1	p	248	LEU	N-CA	-5.80	1.39	1.46
1	q	499	LYS	N-CA	5.80	1.53	1.46
1	z	100	CYS	N-CA	-5.80	1.39	1.46
1	C	493	LEU	CA-C	5.80	1.60	1.53
1	9	465	LEU	CA-C	5.80	1.60	1.52
1	e	656	GLU	CA-CB	5.80	1.62	1.53
1	M	182	ASP	CA-CB	5.80	1.61	1.53
1	3	498	TYR	N-CA	-5.80	1.39	1.46
1	j	102	ASP	N-CA	5.80	1.53	1.46
1	m	552	THR	N-CA	-5.80	1.39	1.46
1	m	580	CYS	CA-CB	5.80	1.63	1.53
1	w	538	HIS	ND1-CE1	5.80	1.38	1.32
1	J	638	SER	CA-C	-5.80	1.45	1.52
1	N	496	VAL	CA-C	-5.80	1.44	1.52
1	S	662	GLN	N-CA	5.80	1.53	1.46
1	Z	538	HIS	CD2-NE2	5.80	1.44	1.37
1	3	479	GLU	N-CA	5.79	1.52	1.46
1	3	709	PHE	CA-C	-5.79	1.45	1.52
1	u	578	VAL	CA-C	-5.79	1.47	1.53
1	v	337	LEU	C-N	5.79	1.41	1.33
1	7	704	HIS	CA-CB	-5.79	1.44	1.53
1	b	149	ILE	C-N	5.79	1.41	1.33
1	g	547	GLN	CA-CB	5.79	1.62	1.53
1	n	465	LEU	CA-C	5.79	1.60	1.52
1	x	332	GLU	CA-C	5.79	1.60	1.52
1	H	381	HIS	CA-CB	5.79	1.62	1.53
1	J	700	THR	CA-C	5.79	1.60	1.52
1	6	191	HIS	CA-CB	5.79	1.62	1.53
1	h	401	THR	CA-C	-5.79	1.45	1.52
1	i	578	VAL	N-CA	5.79	1.52	1.46
1	l	438	GLU	C-N	5.79	1.41	1.33
1	n	442	VAL	N-CA	5.79	1.53	1.46
1	C	197	MET	N-CA	-5.79	1.38	1.46
1	N	451	TYR	CA-CB	5.79	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l	656	GLU	C-N	5.79	1.41	1.33
1	y	174	ARG	N-CA	5.79	1.53	1.46
1	2	373	ARG	CD-NE	5.79	1.54	1.46
1	5	417	ASP	C-N	5.79	1.41	1.34
1	n	347	ILE	N-CA	-5.79	1.39	1.46
1	A	130	GLY	N-CA	-5.79	1.37	1.45
1	P	582	ASP	N-CA	5.79	1.53	1.46
1	R	209	ILE	N-CA	-5.79	1.39	1.46
1	S	438	GLU	CA-C	-5.79	1.45	1.52
1	g	159	LEU	C-N	5.79	1.41	1.33
1	h	551	SER	CA-CB	5.79	1.62	1.53
1	x	556	ILE	CA-CB	5.79	1.61	1.54
1	p	412	PRO	C-N	5.79	1.41	1.33
1	F	103	LEU	CA-CB	5.79	1.62	1.53
1	G	559	LYS	CA-C	5.79	1.60	1.52
1	H	341	GLU	CA-CB	5.79	1.62	1.53
1	K	635	LEU	N-CA	5.79	1.53	1.46
1	W	461	TRP	NE1-CE2	5.79	1.43	1.37
1	7	200	ASN	CA-CB	5.78	1.62	1.53
1	7	255	ARG	CA-CB	5.78	1.62	1.53
1	g	143	LEU	N-CA	-5.78	1.38	1.46
1	i	119	PRO	CA-C	5.78	1.60	1.52
1	i	312	ARG	N-CA	-5.78	1.39	1.46
1	i	358	VAL	C-O	5.78	1.30	1.24
1	j	422	LEU	C-N	5.78	1.41	1.33
1	k	476	ILE	CA-CB	5.78	1.61	1.54
1	p	355	TYR	CB-CG	5.78	1.64	1.51
1	p	628	ILE	C-N	5.78	1.41	1.33
1	x	152	ARG	CD-NE	5.78	1.54	1.46
1	J	369	ARG	C-N	5.78	1.41	1.33
1	O	273	THR	N-CA	5.78	1.52	1.45
1	w	423	ILE	N-CA	5.78	1.53	1.46
1	z	500	THR	CA-C	-5.78	1.45	1.52
1	z	690	ARG	CA-C	5.78	1.60	1.52
1	B	178	LEU	N-CA	5.78	1.52	1.46
1	B	341	GLU	CA-C	5.78	1.60	1.52
1	J	206	HIS	CA-C	5.78	1.60	1.52
1	K	193	ALA	CA-C	-5.78	1.45	1.52
1	N	295	LYS	CA-C	5.78	1.60	1.52
1	T	542	PHE	CA-CB	5.78	1.60	1.52
1	W	369	ARG	CA-CB	5.78	1.62	1.53
1	a	575	GLU	C-N	5.78	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c	190	ILE	C-N	5.78	1.41	1.33
1	f	142	ALA	N-CA	-5.78	1.39	1.46
1	g	313	ASN	CA-CB	5.78	1.62	1.53
1	g	674	ARG	CA-C	-5.78	1.44	1.52
1	m	267	ASN	C-N	5.78	1.41	1.33
1	s	423	ILE	CA-C	5.78	1.59	1.52
1	x	147	SER	N-CA	5.78	1.53	1.46
1	I	647	PHE	C-N	5.78	1.41	1.33
1	J	96	LYS	CA-CB	5.78	1.62	1.53
1	J	280	HIS	CD2-NE2	5.78	1.44	1.37
1	N	313	ASN	N-CA	5.78	1.53	1.46
1	h	238	PRO	N-CD	-5.78	1.39	1.47
1	G	295	LYS	N-CA	-5.78	1.42	1.46
1	H	231	ARG	N-CA	5.78	1.53	1.46
1	P	252	TYR	C-N	5.78	1.41	1.33
1	Z	343	THR	CA-C	5.78	1.60	1.52
1	6	556	ILE	CA-CB	-5.78	1.46	1.54
1	a	174	ARG	CA-C	5.78	1.60	1.52
1	d	581	GLN	CA-C	5.78	1.60	1.52
1	k	314	LEU	CA-C	-5.78	1.46	1.53
1	v	117	ALA	CA-CB	5.78	1.62	1.53
1	v	471	LYS	N-CA	5.78	1.53	1.46
1	E	182	ASP	CA-C	5.78	1.59	1.53
1	I	522	LYS	C-O	-5.78	1.17	1.24
1	K	195	ASN	CA-CB	5.78	1.62	1.53
1	K	303	THR	CA-CB	5.78	1.62	1.53
1	V	145	ARG	N-CA	5.78	1.53	1.46
1	2	160	LYS	CA-CB	5.78	1.63	1.53
1	4	253	ILE	N-CA	5.78	1.54	1.46
1	h	318	LEU	N-CA	-5.78	1.38	1.46
1	u	420	PHE	C-O	-5.78	1.17	1.24
1	C	176	THR	C-O	5.78	1.31	1.23
1	C	192	LYS	N-CA	-5.78	1.39	1.46
1	n	374	LEU	CA-CB	5.77	1.62	1.53
1	q	370	LEU	CB-CG	5.77	1.65	1.53
1	t	480	VAL	C-O	-5.77	1.17	1.24
1	F	215	SER	CA-C	5.77	1.59	1.52
1	G	564	ALA	CA-C	5.77	1.60	1.52
1	H	253	ILE	C-N	5.77	1.42	1.33
1	J	280	HIS	CA-C	5.77	1.60	1.52
1	O	253	ILE	N-CA	5.77	1.54	1.46
1	Z	475	ILE	C-N	5.77	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a	218	VAL	CA-CB	5.77	1.61	1.54
1	e	254	GLN	C-N	5.77	1.41	1.33
1	f	429	PHE	CA-CB	5.77	1.62	1.53
1	j	455	ARG	CD-NE	5.77	1.54	1.46
1	m	239	ARG	CA-CB	5.77	1.62	1.53
1	G	374	LEU	CA-CB	5.77	1.62	1.53
1	K	214	THR	CA-C	5.77	1.59	1.52
1	l	554	GLU	C-N	5.77	1.41	1.33
1	o	633	TYR	CA-C	5.77	1.60	1.52
1	q	115	ASP	CA-C	-5.77	1.45	1.52
1	R	657	ASN	CA-CB	5.77	1.62	1.53
1	9	353	HIS	ND1-CE1	5.77	1.38	1.32
1	c	190	ILE	CB-CG1	5.77	1.65	1.53
1	h	159	LEU	C-N	5.77	1.41	1.33
1	u	176	THR	CA-CB	5.77	1.61	1.53
1	x	587	VAL	N-CA	5.77	1.53	1.46
1	D	654	LEU	CA-C	-5.77	1.48	1.52
1	I	129	SER	C-N	5.77	1.41	1.33
1	V	94	GLU	CA-CB	5.77	1.62	1.53
1	Y	347	ILE	N-CA	5.77	1.53	1.46
1	Z	279	ALA	C-N	5.77	1.41	1.33
1	0	394	ARG	CA-CB	5.77	1.62	1.53
1	6	238	PRO	C-N	5.77	1.41	1.33
1	c	526	ILE	N-CA	5.77	1.53	1.46
1	f	397	HIS	N-CA	5.77	1.53	1.46
1	g	526	ILE	CA-C	5.77	1.59	1.52
1	k	449	ARG	CZ-NH2	-5.77	1.25	1.33
1	D	633	TYR	CA-CB	5.77	1.62	1.53
1	I	585	TYR	C-N	5.77	1.41	1.33
1	l	361	GLU	N-CA	5.77	1.53	1.46
1	x	633	TYR	C-N	5.77	1.41	1.33
1	C	138	LEU	CB-CG	5.77	1.65	1.53
1	D	365	ALA	CA-C	5.77	1.60	1.52
1	1	700	THR	C-N	5.76	1.41	1.33
1	5	444	ARG	N-CA	-5.76	1.38	1.45
1	6	155	LEU	CA-CB	5.76	1.60	1.53
1	6	315	THR	N-CA	5.76	1.53	1.46
1	7	259	ILE	CB-CG1	5.76	1.65	1.53
1	D	100	CYS	CA-CB	5.76	1.62	1.53
1	W	391	GLY	CA-C	5.76	1.58	1.52
1	W	574	MET	C-N	5.76	1.41	1.34
1	Z	496	VAL	C-N	5.76	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3	241	ILE	CA-C	5.76	1.59	1.52
1	4	416	ALA	C-N	5.76	1.41	1.33
1	r	395	GLU	CA-C	-5.76	1.45	1.52
1	F	477	HIS	CD2-NE2	5.76	1.44	1.37
1	K	561	THR	N-CA	-5.76	1.39	1.46
1	O	641	LEU	CA-C	-5.76	1.45	1.52
1	T	384	LYS	CA-C	-5.76	1.44	1.52
1	Z	360	LEU	CA-CB	5.76	1.60	1.53
1	1	188	LYS	CA-CB	5.76	1.62	1.53
1	3	281	GLU	C-N	5.76	1.40	1.33
1	x	348	THR	CB-OG1	-5.76	1.34	1.43
1	S	261	LEU	CA-CB	5.76	1.61	1.53
1	W	559	LYS	CA-C	-5.76	1.45	1.52
1	X	282	VAL	CA-C	5.76	1.60	1.53
1	5	287	ASP	CA-CB	5.76	1.62	1.53
1	k	358	VAL	CA-C	5.76	1.59	1.52
1	r	275	ALA	CA-CB	5.76	1.62	1.53
1	M	217	GLU	C-N	5.76	1.38	1.32
1	U	521	GLN	C-N	5.76	1.41	1.33
1	d	428	MET	C-N	5.76	1.41	1.33
1	p	144	PRO	N-CD	-5.76	1.39	1.47
1	p	481	GLU	CA-CB	5.76	1.63	1.53
1	F	423	ILE	C-O	-5.76	1.17	1.24
1	2	530	ALA	CA-C	5.76	1.60	1.52
1	d	648	ILE	C-N	-5.76	1.26	1.33
1	n	273	THR	CA-C	5.76	1.60	1.52
1	n	287	ASP	CA-CB	5.76	1.62	1.53
1	w	287	ASP	CA-CB	5.76	1.62	1.53
1	B	188	LYS	C-O	5.76	1.31	1.24
1	D	271	ALA	C-N	5.76	1.41	1.33
1	D	441	GLU	N-CA	5.76	1.53	1.45
1	H	539	PHE	N-CA	5.76	1.53	1.46
1	M	309	ASN	CA-C	5.76	1.60	1.52
1	Y	133	SER	CA-C	5.76	1.60	1.52
1	I	680	GLN	CA-C	5.75	1.60	1.52
1	2	361	GLU	CA-CB	5.75	1.62	1.53
1	l	454	ILE	CA-C	-5.75	1.45	1.52
1	y	173	TYR	CA-CB	5.75	1.63	1.53
1	B	236	ASN	CA-CB	5.75	1.63	1.53
1	B	372	GLU	CA-CB	5.75	1.62	1.53
1	C	374	LEU	CA-CB	5.75	1.62	1.53
1	V	473	LYS	CA-CB	5.75	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c	357	ARG	C-O	-5.75	1.17	1.24
1	j	369	ARG	CA-C	-5.75	1.44	1.52
1	l	648	ILE	CA-CB	-5.75	1.47	1.54
1	m	159	LEU	CA-C	-5.75	1.45	1.52
1	p	596	ILE	CA-CB	5.75	1.60	1.55
1	G	657	ASN	CA-C	-5.75	1.45	1.52
1	U	549	VAL	CA-CB	5.75	1.61	1.54
1	5	141	VAL	N-CA	-5.75	1.39	1.46
1	7	569	GLN	CA-C	5.75	1.60	1.52
1	F	448	THR	CA-C	5.75	1.59	1.52
1	O	638	SER	N-CA	5.75	1.53	1.46
1	2	246	LYS	C-N	5.75	1.41	1.33
1	7	252	TYR	C-N	5.75	1.40	1.33
1	a	435	LYS	C-N	5.75	1.41	1.33
1	j	167	TRP	CA-CB	5.75	1.63	1.53
1	t	175	ASN	C-N	5.75	1.41	1.33
1	C	572	PHE	N-CA	-5.75	1.38	1.46
1	M	501	PHE	CA-C	5.75	1.60	1.52
1	P	698	ARG	C-O	-5.75	1.17	1.24
1	X	514	GLU	CA-CB	5.75	1.60	1.53
1	2	191	HIS	CA-CB	5.75	1.62	1.53
1	5	447	GLU	CA-C	5.75	1.59	1.52
1	5	578	VAL	N-CA	-5.75	1.39	1.46
1	c	645	ILE	N-CA	5.75	1.53	1.46
1	e	657	ASN	N-CA	-5.75	1.39	1.46
1	h	487	TYR	C-N	5.75	1.41	1.33
1	o	227	PRO	CA-C	5.75	1.59	1.52
1	x	538	HIS	N-CA	5.75	1.53	1.46
1	E	113	GLU	N-CA	-5.75	1.38	1.46
1	H	511	GLN	C-N	5.75	1.41	1.33
1	N	331	GLN	CA-CB	5.75	1.64	1.53
1	O	477	HIS	ND1-CE1	5.75	1.38	1.32
1	P	98	ARG	CA-C	5.75	1.59	1.52
1	U	304	GLU	C-O	-5.75	1.17	1.24
1	e	382	ILE	N-CA	5.75	1.53	1.46
1	p	634	PHE	N-CA	5.75	1.53	1.46
1	C	534	VAL	CA-C	5.75	1.60	1.52
1	J	570	LEU	N-CA	-5.75	1.39	1.46
1	T	596	ILE	CA-C	5.75	1.59	1.52
1	V	476	ILE	CA-C	5.75	1.59	1.52
1	5	359	LEU	CA-CB	5.74	1.63	1.53
1	d	682	GLN	CA-C	5.74	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f	157	LEU	N-CA	-5.74	1.39	1.46
1	D	200	ASN	N-CA	5.74	1.53	1.46
1	X	123	VAL	CA-C	-5.74	1.45	1.52
1	F	343	THR	N-CA	5.74	1.53	1.46
1	S	690	ARG	CA-CB	-5.74	1.44	1.53
1	Z	659	ASP	CA-C	5.74	1.60	1.52
1	b	567	MET	CA-C	5.74	1.60	1.52
1	f	433	ILE	CA-C	5.74	1.60	1.52
1	y	637	THR	CA-C	-5.74	1.45	1.52
1	E	405	ARG	N-CA	-5.74	1.39	1.46
1	H	250	LYS	CA-C	-5.74	1.45	1.52
1	O	678	LEU	N-CA	-5.74	1.39	1.46
1	S	339	LEU	CA-CB	5.74	1.62	1.53
1	3	129	SER	C-N	5.74	1.39	1.33
1	8	405	ARG	C-N	5.74	1.41	1.33
1	u	305	LYS	N-CA	-5.74	1.39	1.46
1	y	640	ARG	CD-NE	5.74	1.54	1.46
1	M	112	VAL	C-N	5.74	1.41	1.33
1	M	138	LEU	N-CA	5.74	1.53	1.46
1	U	578	VAL	N-CA	5.74	1.52	1.46
1	Z	364	SER	CA-C	-5.74	1.45	1.52
1	7	353	HIS	CA-C	5.74	1.59	1.52
1	7	704	HIS	CD2-NE2	5.74	1.44	1.37
1	c	593	ARG	N-CA	-5.74	1.39	1.46
1	F	243	LEU	C-O	-5.74	1.17	1.24
1	K	402	GLU	CA-CB	5.74	1.62	1.53
1	V	323	MET	CA-CB	5.74	1.62	1.53
1	o	281	GLU	CA-CB	5.74	1.62	1.53
1	t	301	ARG	CD-NE	5.74	1.54	1.46
1	B	419	MET	C-N	5.74	1.41	1.33
1	C	390	GLU	CA-C	5.74	1.60	1.52
1	F	278	MET	CA-CB	5.74	1.62	1.53
1	J	690	ARG	CD-NE	5.74	1.54	1.46
1	N	124	ILE	CA-CB	-5.74	1.47	1.54
1	9	127	GLN	CA-CB	5.73	1.62	1.53
1	s	351	GLN	N-CA	5.73	1.53	1.46
1	f	553	ILE	C-N	5.73	1.41	1.33
1	k	325	VAL	CA-CB	-5.73	1.46	1.54
1	x	337	LEU	C-N	5.73	1.41	1.33
1	P	124	ILE	C-N	5.73	1.39	1.32
1	U	573	ARG	CD-NE	5.73	1.54	1.46
1	8	689	ARG	CA-CB	5.73	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9	568	ILE	C-N	5.73	1.41	1.33
1	e	100	CYS	CA-CB	5.73	1.62	1.53
1	t	514	GLU	C-N	5.73	1.41	1.34
1	E	438	GLU	CA-C	5.73	1.60	1.52
1	K	229	ILE	C-O	-5.73	1.17	1.24
1	U	173	TYR	CZ-OH	5.73	1.50	1.38
1	8	631	ASN	CA-CB	5.73	1.62	1.53
1	e	514	GLU	CA-C	5.73	1.59	1.52
1	i	98	ARG	C-N	5.73	1.41	1.33
1	q	536	LYS	C-N	5.73	1.42	1.33
1	W	637	THR	C-N	5.73	1.41	1.33
1	i	679	LEU	CA-CB	5.73	1.63	1.53
1	j	220	ASP	C-N	5.73	1.40	1.33
1	o	149	ILE	C-N	5.73	1.41	1.33
1	z	542	PHE	C-O	-5.73	1.17	1.24
1	N	133	SER	CA-CB	5.73	1.62	1.53
1	4	640	ARG	N-CA	5.73	1.53	1.46
1	z	342	ALA	C-O	5.73	1.30	1.24
1	M	102	ASP	C-N	5.73	1.41	1.33
1	N	708	GLN	CA-CB	5.73	1.62	1.53
1	R	709	PHE	C-N	5.73	1.42	1.33
1	h	518	SER	CA-CB	5.72	1.62	1.53
1	h	592	VAL	CA-CB	-5.72	1.47	1.54
1	l	636	GLU	C-O	5.72	1.30	1.24
1	m	386	LEU	C-N	5.72	1.41	1.34
1	o	153	CYS	CA-CB	5.72	1.64	1.54
1	t	571	GLN	CA-C	5.72	1.60	1.52
1	y	326	LYS	N-CA	-5.72	1.39	1.46
1	B	224	ILE	CA-CB	-5.72	1.47	1.54
1	D	97	VAL	C-O	-5.72	1.18	1.24
1	F	113	GLU	N-CA	-5.72	1.39	1.46
1	G	110	LEU	N-CA	-5.72	1.38	1.46
1	Q	536	LYS	CA-C	-5.72	1.45	1.52
1	U	209	ILE	C-N	5.72	1.41	1.33
1	V	625	GLU	CA-CB	5.72	1.62	1.53
1	0	104	ILE	N-CA	-5.72	1.39	1.46
1	1	585	TYR	CA-CB	5.72	1.62	1.53
1	5	114	GLN	N-CA	-5.72	1.39	1.45
1	8	551	SER	CA-C	5.72	1.60	1.52
1	d	580	CYS	N-CA	-5.72	1.38	1.45
1	r	401	THR	N-CA	5.72	1.53	1.46
1	x	593	ARG	CA-CB	5.72	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	572	PHE	CA-C	5.72	1.60	1.52
1	Q	538	HIS	CA-C	5.72	1.59	1.52
1	T	477	HIS	C-N	5.72	1.42	1.33
1	3	363	GLY	N-CA	5.72	1.53	1.45
1	9	142	ALA	CA-C	5.72	1.60	1.52
1	a	317	PRO	N-CD	-5.72	1.39	1.47
1	v	502	GLU	CA-C	-5.72	1.45	1.52
1	C	538	HIS	CB-CG	-5.72	1.42	1.50
1	M	649	ILE	CA-C	5.72	1.59	1.52
1	8	488	ARG	C-N	5.72	1.40	1.33
1	h	299	MET	C-N	5.72	1.41	1.33
1	t	434	GLU	C-O	-5.72	1.17	1.24
1	y	182	ASP	C-N	-5.72	1.26	1.34
1	z	669	LEU	C-N	5.72	1.41	1.33
1	E	472	VAL	N-CA	-5.72	1.40	1.46
1	J	315	THR	N-CA	5.72	1.53	1.46
1	L	206	HIS	ND1-CE1	5.72	1.38	1.32
1	M	211	LEU	CA-C	5.72	1.59	1.52
1	N	143	LEU	CA-C	5.72	1.59	1.53
1	P	259	ILE	N-CA	5.72	1.53	1.46
1	P	647	PHE	CA-CB	5.72	1.62	1.53
1	U	647	PHE	CA-CB	5.72	1.62	1.53
1	Y	310	VAL	CA-CB	5.72	1.61	1.54
1	j	681	GLU	N-CA	-5.72	1.38	1.46
1	J	227	PRO	C-N	5.72	1.38	1.33
1	a	313	ASN	CA-CB	5.72	1.63	1.53
1	k	322	TYR	C-N	5.72	1.40	1.33
1	C	381	HIS	CD2-NE2	5.72	1.44	1.37
1	H	495	PHE	C-N	5.72	1.40	1.33
1	L	498	TYR	CA-CB	5.72	1.62	1.53
1	L	545	LEU	C-N	5.72	1.41	1.33
1	M	559	LYS	CA-C	5.72	1.60	1.52
1	S	362	GLU	CA-C	-5.72	1.44	1.52
1	9	514	GLU	CA-CB	5.71	1.60	1.53
1	k	580	CYS	CA-C	5.71	1.60	1.52
1	l	388	LEU	CA-CB	5.71	1.62	1.53
1	s	704	HIS	N-CA	-5.71	1.39	1.46
1	K	549	VAL	N-CA	-5.71	1.39	1.46
1	L	570	LEU	C-O	-5.71	1.17	1.24
1	M	590	LYS	N-CA	5.71	1.53	1.46
1	T	185	GLN	C-N	5.71	1.40	1.34
1	Y	93	TYR	N-CA	5.71	1.57	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k	319	LYS	C-N	5.71	1.41	1.33
1	B	594	GLU	CA-CB	5.71	1.62	1.53
1	V	538	HIS	CG-CD2	-5.71	1.29	1.35
1	m	520	LEU	CA-C	-5.71	1.45	1.52
1	t	380	MET	C-N	5.71	1.41	1.33
1	x	477	HIS	ND1-CE1	5.71	1.38	1.32
1	K	426	ILE	CA-C	5.71	1.60	1.52
1	P	230	THR	CA-CB	5.71	1.62	1.53
1	Q	241	ILE	C-N	5.71	1.41	1.33
1	W	332	GLU	C-O	-5.71	1.17	1.24
1	9	684	GLU	CA-C	-5.71	1.45	1.52
1	c	691	ILE	N-CA	-5.71	1.39	1.46
1	e	664	ALA	N-CA	-5.71	1.38	1.46
1	O	587	VAL	C-O	5.71	1.31	1.24
1	7	304	GLU	C-N	5.71	1.41	1.33
1	a	581	GLN	C-N	5.71	1.42	1.33
1	h	104	ILE	CA-CB	-5.71	1.47	1.54
1	h	562	ALA	N-CA	-5.71	1.39	1.46
1	p	205	SER	CA-C	5.71	1.59	1.52
1	y	258	THR	CA-C	-5.71	1.45	1.52
1	M	497	ASN	C-N	5.71	1.41	1.33
1	S	449	ARG	CD-NE	5.71	1.54	1.46
1	W	93	TYR	N-CA	5.71	1.57	1.46
1	0	588	VAL	N-CA	5.71	1.53	1.46
1	5	137	ALA	CA-C	5.71	1.60	1.52
1	m	156	VAL	CA-C	-5.71	1.45	1.52
1	o	111	GLY	CA-C	-5.71	1.43	1.51
1	o	443	VAL	CA-C	5.71	1.59	1.52
1	C	551	SER	C-O	-5.71	1.17	1.24
1	I	585	TYR	CZ-OH	5.71	1.50	1.38
1	J	674	ARG	CZ-NH2	-5.71	1.26	1.33
1	K	127	GLN	C-N	5.71	1.42	1.33
1	R	708	GLN	CA-CB	5.71	1.62	1.53
1	S	526	ILE	N-CA	5.71	1.53	1.46
1	e	658	GLY	C-N	5.71	1.41	1.33
1	i	223	ILE	C-O	5.71	1.29	1.24
1	K	639	LYS	C-N	5.71	1.42	1.33
1	X	398	GLN	C-N	5.71	1.41	1.33
1	1	281	GLU	C-O	-5.70	1.17	1.24
1	1	560	HIS	ND1-CE1	5.70	1.38	1.32
1	4	578	VAL	CA-CB	-5.70	1.48	1.54
1	9	362	GLU	C-N	5.70	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a	652	PHE	CA-C	-5.70	1.45	1.53
1	c	151	THR	N-CA	5.70	1.53	1.46
1	o	413	SER	N-CA	-5.70	1.38	1.45
1	x	441	GLU	CA-C	-5.70	1.45	1.52
1	D	295	LYS	CA-C	-5.70	1.45	1.52
1	J	464	ILE	CA-C	5.70	1.59	1.52
1	J	567	MET	C-N	5.70	1.40	1.33
1	T	123	VAL	C-N	5.70	1.41	1.33
1	U	110	LEU	CA-CB	5.70	1.62	1.53
1	Y	117	ALA	N-CA	-5.70	1.39	1.46
1	p	572	PHE	CA-CB	5.70	1.62	1.53
1	1	443	VAL	CA-CB	-5.70	1.47	1.54
1	3	215	SER	N-CA	-5.70	1.40	1.46
1	4	244	GLN	CA-C	-5.70	1.45	1.52
1	l	488	ARG	NE-CZ	5.70	1.39	1.33
1	B	353	HIS	CG-CD2	5.70	1.42	1.35
1	G	280	HIS	ND1-CE1	5.70	1.38	1.32
1	K	572	PHE	C-N	5.70	1.41	1.33
1	L	630	LEU	CA-CB	5.70	1.62	1.53
1	Q	560	HIS	CA-C	5.70	1.60	1.52
1	S	362	GLU	CA-CB	5.70	1.63	1.53
1	V	461	TRP	CA-C	-5.70	1.45	1.52
1	1	179	GLU	N-CA	-5.70	1.39	1.46
1	6	538	HIS	N-CA	5.70	1.53	1.46
1	e	651	TYR	CA-C	-5.70	1.45	1.52
1	B	538	HIS	CG-CD2	-5.70	1.29	1.35
1	R	491	GLU	N-CA	5.70	1.53	1.46
1	W	409	ALA	CA-CB	5.70	1.63	1.53
1	a	382	ILE	CA-C	-5.70	1.45	1.52
1	p	637	THR	C-N	5.70	1.41	1.33
1	B	114	GLN	CA-C	5.70	1.59	1.52
1	C	524	MET	CA-C	5.70	1.60	1.52
1	E	629	HIS	ND1-CE1	5.70	1.38	1.32
1	U	114	GLN	N-CA	-5.70	1.38	1.46
1	2	233	ALA	CA-C	5.70	1.59	1.52
1	3	532	ILE	CA-C	5.70	1.60	1.52
1	4	543	PHE	CA-CB	5.70	1.62	1.53
1	f	393	ILE	N-CA	-5.70	1.39	1.46
1	w	394	ARG	NE-CZ	5.70	1.39	1.33
1	I	149	ILE	CA-CB	-5.70	1.46	1.54
1	K	95	GLN	CA-CB	5.70	1.62	1.53
1	O	149	ILE	N-CA	5.70	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	480	VAL	CA-C	5.70	1.61	1.52
1	O	519	MET	CA-CB	5.70	1.62	1.53
1	S	478	GLU	CA-C	5.70	1.60	1.52
1	k	94	GLU	N-CA	5.69	1.53	1.46
1	v	421	PHE	CA-C	5.69	1.60	1.52
1	D	415	GLU	C-N	5.69	1.41	1.33
1	1	127	GLN	CA-C	5.69	1.60	1.52
1	1	362	GLU	CA-C	5.69	1.59	1.52
1	2	140	GLY	CA-C	5.69	1.59	1.52
1	9	449	ARG	NE-CZ	-5.69	1.26	1.33
1	C	524	MET	C-N	5.69	1.41	1.33
1	U	503	ILE	CA-C	-5.69	1.45	1.52
1	U	535	ALA	N-CA	5.69	1.53	1.46
1	U	665	MET	C-N	5.69	1.41	1.33
1	V	579	PHE	N-CA	5.69	1.53	1.46
1	X	183	PRO	N-CA	-5.69	1.40	1.47
1	u	456	GLU	CA-C	5.69	1.60	1.52
1	D	126	ASP	CA-C	5.69	1.60	1.53
1	I	429	PHE	CA-CB	5.69	1.62	1.53
1	J	515	PRO	C-N	5.69	1.41	1.33
1	U	457	ASP	CA-C	5.69	1.60	1.52
1	6	129	SER	CA-C	-5.69	1.45	1.52
1	6	280	HIS	ND1-CE1	5.69	1.38	1.32
1	N	266	CYS	C-N	5.69	1.42	1.33
1	h	330	GLN	CA-C	5.69	1.60	1.52
1	m	186	VAL	CA-CB	-5.69	1.47	1.54
1	n	405	ARG	CD-NE	5.69	1.54	1.46
1	o	590	LYS	N-CA	5.69	1.53	1.46
1	z	259	ILE	C-N	5.69	1.41	1.33
1	H	373	ARG	NE-CZ	5.69	1.39	1.33
1	S	362	GLU	C-N	5.69	1.41	1.33
1	V	133	SER	CA-C	-5.69	1.45	1.52
1	X	414	GLN	CA-CB	5.69	1.62	1.53
1	h	426	ILE	CA-C	5.69	1.59	1.52
1	k	479	GLU	CA-CB	5.69	1.62	1.53
1	x	156	VAL	N-CA	5.69	1.53	1.46
1	H	315	THR	C-N	5.69	1.38	1.33
1	I	94	GLU	C-N	5.69	1.42	1.33
1	9	143	LEU	CA-CB	5.68	1.63	1.53
1	e	663	LYS	CA-CB	5.68	1.63	1.53
1	n	555	ASP	CA-CB	5.68	1.62	1.53
1	D	281	GLU	CA-CB	5.68	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	661	LEU	N-CA	5.68	1.53	1.46
1	0	651	TYR	N-CA	-5.68	1.39	1.46
1	6	509	ILE	CA-CB	-5.68	1.47	1.54
1	d	681	GLU	C-O	-5.68	1.16	1.24
1	j	411	ILE	C-N	5.68	1.40	1.33
1	x	93	TYR	N-CA	5.68	1.57	1.46
1	D	277	SER	C-N	5.68	1.41	1.33
1	J	496	VAL	N-CA	-5.68	1.39	1.46
1	L	453	LYS	N-CA	-5.68	1.39	1.46
1	V	562	ALA	C-N	5.68	1.41	1.33
1	k	171	ILE	CA-C	5.68	1.59	1.52
1	r	451	TYR	C-N	5.68	1.41	1.34
1	u	294	THR	N-CA	-5.68	1.39	1.45
1	M	449	ARG	N-CA	5.68	1.53	1.45
1	1	624	THR	CA-C	-5.68	1.45	1.52
1	4	411	ILE	CA-C	5.68	1.58	1.52
1	r	295	LYS	CA-C	5.68	1.57	1.53
1	T	534	VAL	CA-C	5.68	1.59	1.52
1	o	397	HIS	CA-C	5.68	1.60	1.52
1	C	659	ASP	CA-C	-5.68	1.45	1.52
1	L	247	ALA	N-CA	-5.68	1.39	1.46
1	2	460	ASN	CA-C	5.68	1.60	1.52
1	3	133	SER	N-CA	5.68	1.53	1.46
1	3	345	LYS	C-N	5.68	1.41	1.33
1	8	501	PHE	N-CA	-5.68	1.39	1.46
1	d	244	GLN	C-N	5.68	1.41	1.33
1	g	218	VAL	C-N	5.68	1.41	1.33
1	l	416	ALA	CA-CB	5.68	1.61	1.53
1	y	704	HIS	CD2-NE2	5.68	1.44	1.37
1	z	364	SER	C-N	5.68	1.41	1.33
1	B	163	PRO	N-CD	5.68	1.55	1.47
1	F	259	ILE	CA-CB	-5.68	1.47	1.54
1	G	496	VAL	CA-C	5.68	1.59	1.52
1	L	488	ARG	CA-C	5.68	1.60	1.52
1	P	639	LYS	CA-C	-5.68	1.45	1.52
1	Q	114	GLN	CA-CB	5.68	1.60	1.53
1	S	429	PHE	CA-C	5.68	1.60	1.52
1	U	391	GLY	C-N	-5.68	1.26	1.33
1	1	170	ARG	C-N	5.67	1.40	1.33
1	9	565	GLU	CA-CB	5.67	1.62	1.53
1	e	234	VAL	C-O	5.67	1.30	1.24
1	g	120	ALA	CA-C	5.67	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g	665	MET	CA-C	5.67	1.60	1.52
1	i	126	ASP	C-N	5.67	1.41	1.33
1	n	108	ARG	CA-CB	5.67	1.62	1.53
1	n	388	LEU	CA-CB	5.67	1.62	1.53
1	N	456	GLU	CA-C	5.67	1.60	1.52
1	6	275	ALA	C-N	5.67	1.41	1.33
1	7	411	ILE	C-N	5.67	1.40	1.33
1	c	704	HIS	ND1-CE1	5.67	1.38	1.32
1	j	701	GLN	CA-CB	5.67	1.62	1.53
1	p	688	LYS	CA-C	-5.67	1.45	1.52
1	v	239	ARG	CD-NE	5.67	1.54	1.46
1	F	360	LEU	N-CA	5.67	1.53	1.46
1	Q	548	THR	CA-CB	5.67	1.62	1.53
1	1	190	ILE	CA-CB	-5.67	1.46	1.54
1	7	308	MET	C-N	5.67	1.41	1.33
1	g	204	ILE	CA-C	5.67	1.59	1.52
1	h	414	GLN	CA-C	-5.67	1.45	1.52
1	m	543	PHE	CA-C	-5.67	1.45	1.52
1	x	476	ILE	CA-C	5.67	1.60	1.52
1	C	113	GLU	CA-C	5.67	1.60	1.52
1	C	215	SER	CA-CB	5.67	1.62	1.54
1	O	542	PHE	CA-C	-5.67	1.45	1.53
1	P	135	LEU	C-N	5.67	1.41	1.34
1	P	388	LEU	CA-CB	5.67	1.62	1.53
1	W	692	LEU	CA-CB	5.67	1.62	1.53
1	3	425	LYS	N-CA	-5.67	1.39	1.46
1	5	652	PHE	N-CA	-5.67	1.39	1.46
1	m	431	GLN	CA-CB	5.67	1.62	1.53
1	w	118	LEU	C-N	-5.67	1.26	1.33
1	y	453	LYS	CA-CB	5.67	1.62	1.53
1	Z	292	ILE	CA-C	-5.67	1.45	1.52
1	2	209	ILE	C-O	-5.67	1.18	1.24
1	4	405	ARG	C-O	-5.67	1.16	1.24
1	4	648	ILE	CA-C	-5.67	1.45	1.52
1	c	311	VAL	C-O	5.67	1.30	1.24
1	n	174	ARG	CD-NE	5.67	1.54	1.46
1	n	197	MET	C-N	-5.67	1.25	1.33
1	x	184	GLY	C-N	5.67	1.41	1.33
1	x	359	LEU	CA-CB	5.67	1.62	1.53
1	C	224	ILE	N-CA	-5.67	1.39	1.46
1	L	433	ILE	CA-C	5.67	1.59	1.52
1	R	592	VAL	N-CA	-5.67	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	0	141	VAL	N-CA	-5.67	1.39	1.46
1	7	427	LYS	CA-CB	5.67	1.62	1.53
1	d	630	LEU	CA-C	-5.67	1.45	1.52
1	u	275	ALA	CA-CB	5.67	1.62	1.53
1	M	317	PRO	CA-C	-5.67	1.47	1.53
1	Z	588	VAL	CA-C	-5.67	1.45	1.52
1	n	408	GLY	C-N	5.67	1.41	1.33
1	B	406	ARG	CA-CB	5.67	1.63	1.53
1	X	245	ILE	CA-C	-5.67	1.46	1.52
1	2	699	LEU	CA-CB	5.66	1.62	1.53
1	8	452	ASN	C-N	5.66	1.41	1.34
1	i	559	LYS	CA-CB	5.66	1.62	1.53
1	j	215	SER	CA-C	5.66	1.59	1.52
1	k	178	LEU	C-N	5.66	1.41	1.33
1	E	662	GLN	C-N	5.66	1.42	1.33
1	I	510	GLN	N-CA	5.66	1.53	1.46
1	K	345	LYS	C-N	5.66	1.41	1.33
1	K	442	VAL	CA-CB	5.66	1.61	1.54
1	U	492	LEU	C-O	-5.66	1.16	1.24
1	V	221	LEU	CA-CB	5.66	1.63	1.53
1	c	382	ILE	C-N	5.66	1.41	1.33
1	j	248	LEU	CA-CB	5.66	1.62	1.53
1	y	552	THR	CA-CB	5.66	1.62	1.53
1	X	640	ARG	CA-C	-5.66	1.44	1.52
1	9	578	VAL	CA-C	5.66	1.59	1.52
1	c	353	HIS	ND1-CE1	5.66	1.38	1.32
1	g	154	PRO	CA-C	-5.66	1.46	1.52
1	m	507	GLN	CA-CB	5.66	1.62	1.53
1	q	550	GLN	N-CA	-5.66	1.39	1.46
1	G	655	ARG	CZ-NH2	-5.66	1.26	1.33
1	H	182	ASP	CA-C	5.66	1.59	1.52
1	R	119	PRO	CA-C	5.66	1.60	1.52
1	k	147	SER	C-N	5.66	1.40	1.33
1	l	312	ARG	CD-NE	5.66	1.54	1.46
1	r	493	LEU	N-CA	-5.66	1.38	1.46
1	x	318	LEU	N-CA	5.66	1.52	1.46
1	y	494	GLY	C-O	-5.66	1.16	1.23
1	B	434	GLU	CA-CB	5.66	1.62	1.53
1	B	522	LYS	C-N	5.66	1.41	1.33
1	M	704	HIS	CA-C	5.66	1.60	1.52
1	N	595	GLU	C-N	-5.66	1.25	1.33
1	T	632	ALA	CA-C	5.66	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3	629	HIS	CG-ND1	5.66	1.44	1.38
1	k	397	HIS	N-CA	-5.66	1.39	1.46
1	p	681	GLU	CA-C	5.66	1.59	1.52
1	v	323	MET	CA-C	5.66	1.59	1.52
1	w	397	HIS	ND1-CE1	5.66	1.38	1.32
1	z	446	ASN	CA-C	5.66	1.60	1.52
1	S	572	PHE	CA-CB	5.66	1.62	1.53
1	4	710	SER	CA-C	-5.66	1.44	1.52
1	6	261	LEU	CA-CB	5.66	1.60	1.53
1	h	500	THR	C-N	5.66	1.41	1.33
1	j	188	LYS	C-O	5.66	1.30	1.24
1	B	705	ALA	C-O	-5.66	1.17	1.24
1	E	514	GLU	N-CA	5.66	1.52	1.46
1	L	110	LEU	C-N	5.66	1.39	1.33
1	M	530	ALA	C-N	5.66	1.41	1.33
1	Y	422	LEU	C-N	5.66	1.41	1.34
1	o	98	ARG	C-O	-5.65	1.19	1.24
1	w	487	TYR	CA-CB	5.65	1.62	1.53
1	O	270	ILE	C-N	5.65	1.41	1.33
1	0	426	ILE	N-CA	5.65	1.53	1.46
1	0	542	PHE	CA-CB	5.65	1.60	1.52
1	7	277	SER	CA-C	5.65	1.60	1.52
1	8	585	TYR	CA-CB	5.65	1.62	1.53
1	p	436	LEU	C-N	-5.65	1.26	1.33
1	A	97	VAL	C-N	5.65	1.41	1.33
1	A	413	SER	N-CA	-5.65	1.39	1.46
1	B	373	ARG	CD-NE	5.65	1.54	1.46
1	D	255	ARG	CZ-NH2	-5.65	1.26	1.33
1	J	509	ILE	C-N	5.65	1.41	1.34
1	N	150	VAL	C-N	5.65	1.41	1.33
1	O	418	LYS	C-N	5.65	1.41	1.33
1	2	196	VAL	C-N	5.65	1.41	1.33
1	9	336	ARG	CD-NE	5.65	1.54	1.46
1	c	354	PRO	CA-C	-5.65	1.44	1.52
1	e	506	HIS	CG-ND1	5.65	1.44	1.38
1	l	156	VAL	C-N	5.65	1.41	1.33
1	p	161	LYS	CA-C	-5.65	1.45	1.52
1	F	468	ASN	N-CA	5.65	1.53	1.46
1	M	277	SER	N-CA	-5.65	1.39	1.46
1	O	196	VAL	CA-C	5.65	1.60	1.52
1	P	514	GLU	N-CA	5.65	1.52	1.46
1	R	397	HIS	CB-CG	5.65	1.58	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	520	LEU	N-CA	5.65	1.53	1.46
1	8	212	GLU	CA-CB	5.65	1.62	1.53
1	d	701	GLN	CA-CB	5.65	1.62	1.53
1	v	634	PHE	N-CA	5.65	1.53	1.46
1	6	319	LYS	CA-C	5.65	1.60	1.52
1	9	288	ARG	CD-NE	5.65	1.54	1.46
1	a	649	ILE	C-O	5.65	1.30	1.24
1	e	562	ALA	CA-C	5.65	1.59	1.52
1	g	660	SER	CA-CB	5.65	1.62	1.53
1	j	481	GLU	C-N	5.65	1.41	1.33
1	z	443	VAL	CA-C	5.65	1.58	1.52
1	C	506	HIS	ND1-CE1	5.65	1.38	1.32
1	F	463	GLY	N-CA	5.65	1.52	1.45
1	H	346	GLU	C-N	5.65	1.41	1.33
1	J	395	GLU	C-N	5.65	1.41	1.33
1	M	212	GLU	CA-C	-5.65	1.45	1.52
1	R	152	ARG	CD-NE	5.65	1.54	1.46
1	U	415	GLU	CA-CB	5.65	1.62	1.53
1	3	304	GLU	C-N	5.65	1.41	1.33
1	k	236	ASN	C-N	5.65	1.41	1.33
1	l	228	GLY	CA-C	5.65	1.59	1.51
1	K	680	GLN	N-CA	-5.65	1.38	1.46
1	U	303	THR	CA-C	5.65	1.59	1.52
1	d	261	LEU	N-CA	-5.64	1.39	1.46
1	v	184	GLY	C-N	-5.64	1.26	1.33
1	J	664	ALA	N-CA	-5.64	1.39	1.46
1	K	517	LEU	C-O	-5.64	1.17	1.24
1	W	444	ARG	CD-NE	5.64	1.54	1.46
1	a	670	GLN	CA-C	5.64	1.60	1.52
1	L	481	GLU	CA-CB	5.64	1.62	1.53
1	S	536	LYS	C-O	5.64	1.30	1.24
1	V	232	VAL	N-CA	-5.64	1.39	1.46
1	q	233	ALA	CA-CB	5.64	1.62	1.53
1	q	321	GLY	CA-C	-5.64	1.44	1.51
1	v	114	GLN	CA-C	5.64	1.60	1.52
1	w	497	ASN	CA-CB	5.64	1.61	1.53
1	L	322	TYR	N-CA	-5.64	1.39	1.46
1	S	357	ARG	CD-NE	5.64	1.54	1.46
1	0	458	PHE	CA-CB	5.64	1.62	1.53
1	d	694	GLU	N-CA	-5.64	1.39	1.46
1	i	378	LEU	C-O	-5.64	1.17	1.24
1	M	483	TYR	CA-CB	5.64	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	S	240	ASP	C-N	5.64	1.40	1.34
1	6	214	THR	C-N	-5.64	1.26	1.33
1	8	469	THR	N-CA	-5.64	1.39	1.46
1	O	423	ILE	CA-C	5.64	1.59	1.52
1	X	293	LEU	CA-CB	5.64	1.60	1.53
1	0	319	LYS	CA-C	5.64	1.60	1.52
1	2	477	HIS	CE1-NE2	5.64	1.38	1.32
1	9	149	ILE	CA-CB	-5.64	1.47	1.54
1	9	514	GLU	N-CA	5.64	1.51	1.46
1	c	197	MET	C-N	5.64	1.41	1.33
1	q	202	ARG	C-N	5.64	1.40	1.33
1	C	169	GLY	C-N	5.64	1.41	1.33
1	C	193	ALA	CA-C	-5.64	1.45	1.52
1	L	477	HIS	C-N	5.64	1.41	1.34
1	P	225	ASP	CA-CB	5.64	1.62	1.53
1	5	648	ILE	C-N	5.63	1.41	1.33
1	U	306	SER	CA-CB	5.63	1.62	1.53
1	8	158	LYS	N-CA	-5.63	1.39	1.46
1	C	353	HIS	N-CA	5.63	1.52	1.46
1	J	507	GLN	C-O	-5.63	1.17	1.24
1	O	696	ILE	N-CA	5.63	1.53	1.46
1	P	217	GLU	CA-C	5.63	1.60	1.52
1	V	398	GLN	C-O	5.63	1.30	1.24
1	i	402	GLU	CA-C	5.63	1.60	1.52
1	n	145	ARG	C-N	5.63	1.41	1.33
1	s	481	GLU	C-O	-5.63	1.17	1.24
1	y	137	ALA	CA-C	5.63	1.60	1.52
1	G	649	ILE	CA-C	5.63	1.60	1.52
1	I	567	MET	CA-CB	5.63	1.62	1.53
1	L	686	ALA	N-CA	-5.63	1.39	1.46
1	R	636	GLU	C-N	5.63	1.41	1.33
1	W	137	ALA	CA-CB	5.63	1.62	1.53
1	r	474	ASN	CA-CB	5.63	1.62	1.53
1	t	224	ILE	CB-CG1	5.63	1.64	1.53
1	F	710	SER	CA-CB	5.63	1.62	1.53
1	I	522	LYS	CA-C	5.63	1.59	1.52
1	L	191	HIS	CG-ND1	5.63	1.44	1.38
1	l	242	GLY	C-O	-5.63	1.17	1.23
1	r	556	ILE	CA-CB	-5.63	1.47	1.54
1	C	93	TYR	N-CA	5.63	1.56	1.46
1	C	114	GLN	CA-CB	5.63	1.60	1.52
1	D	353	HIS	ND1-CE1	5.63	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	U	121	ILE	CA-C	5.63	1.59	1.52
1	Y	167	TRP	NE1-CE2	5.63	1.43	1.37
1	0	415	GLU	CA-CB	5.63	1.62	1.53
1	6	132	SER	C-N	5.63	1.41	1.33
1	c	236	ASN	CA-CB	5.63	1.61	1.53
1	f	560	HIS	CG-CD2	5.63	1.42	1.35
1	g	516	ALA	C-N	5.63	1.41	1.33
1	t	496	VAL	C-N	5.63	1.41	1.33
1	y	655	ARG	C-N	5.63	1.41	1.33
1	B	534	VAL	CA-C	-5.63	1.45	1.52
1	L	506	HIS	CD2-NE2	5.63	1.44	1.37
1	5	196	VAL	CA-C	-5.62	1.46	1.52
1	o	489	GLY	C-N	5.62	1.41	1.33
1	U	580	CYS	N-CA	-5.62	1.39	1.46
1	g	593	ARG	CA-C	5.62	1.59	1.52
1	j	700	THR	CA-CB	-5.62	1.44	1.53
1	n	190	ILE	C-N	5.62	1.41	1.33
1	p	419	MET	CG-SD	5.62	1.94	1.80
1	w	191	HIS	CA-CB	5.62	1.62	1.53
1	x	532	ILE	CA-C	-5.62	1.46	1.52
1	H	210	SER	N-CA	-5.62	1.39	1.46
1	K	588	VAL	CA-CB	5.62	1.62	1.54
1	M	145	ARG	CD-NE	5.62	1.54	1.46
1	b	660	SER	CA-CB	5.62	1.62	1.53
1	f	161	LYS	CA-CB	-5.62	1.46	1.53
1	g	505	VAL	C-O	5.62	1.30	1.24
1	p	283	ASP	C-O	-5.62	1.20	1.25
1	z	157	LEU	CA-C	5.62	1.59	1.52
1	A	389	LEU	CA-C	5.62	1.60	1.52
1	D	362	GLU	N-CA	-5.62	1.39	1.46
1	g	247	ALA	N-CA	-5.62	1.38	1.46
1	j	314	LEU	C-N	5.62	1.41	1.33
1	p	623	PHE	CA-CB	5.62	1.62	1.53
1	U	488	ARG	CZ-NH2	-5.62	1.26	1.33
1	5	517	LEU	N-CA	-5.62	1.39	1.46
1	9	365	ALA	C-N	5.62	1.41	1.33
1	s	268	VAL	C-N	5.62	1.41	1.33
1	v	672	LYS	CA-C	-5.62	1.45	1.52
1	S	269	ASP	CA-C	5.62	1.59	1.52
1	W	235	ASP	C-N	5.62	1.41	1.33
1	5	527	ILE	CA-CB	-5.62	1.47	1.54
1	a	477	HIS	C-N	5.62	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f	369	ARG	CA-C	-5.62	1.45	1.52
1	l	657	ASN	CA-CB	5.62	1.62	1.53
1	F	536	LYS	CA-CB	5.62	1.62	1.53
1	G	458	PHE	CA-CB	5.62	1.62	1.53
1	I	652	PHE	CA-CB	5.62	1.62	1.53
1	5	698	ARG	CA-C	5.62	1.59	1.52
1	8	424	GLU	CA-C	5.62	1.59	1.52
1	C	506	HIS	CD2-NE2	5.62	1.44	1.37
1	L	528	GLN	CA-C	-5.62	1.45	1.52
1	S	564	ALA	C-N	5.62	1.41	1.33
1	X	238	PRO	CA-CB	5.62	1.61	1.53
1	Y	187	GLU	CA-CB	5.62	1.62	1.53
1	Z	120	ALA	CA-C	-5.62	1.45	1.52
1	Z	699	LEU	C-N	5.62	1.41	1.33
1	0	116	LEU	CA-CB	5.61	1.62	1.53
1	0	237	GLN	CA-CB	5.61	1.63	1.53
1	2	156	VAL	CA-C	5.61	1.59	1.53
1	2	505	VAL	CA-CB	-5.61	1.47	1.54
1	4	166	ALA	CA-CB	5.61	1.62	1.53
1	a	496	VAL	CA-C	5.61	1.59	1.52
1	j	468	ASN	CA-CB	5.61	1.62	1.53
1	q	242	GLY	N-CA	5.61	1.52	1.45
1	J	93	TYR	N-CA	5.61	1.56	1.46
1	K	326	LYS	N-CA	5.61	1.53	1.45
1	T	193	ALA	C-N	5.61	1.41	1.33
1	n	498	TYR	C-N	-5.61	1.26	1.33
1	x	303	THR	CA-C	-5.61	1.45	1.52
1	H	111	GLY	C-N	5.61	1.41	1.33
1	R	108	ARG	CA-C	5.61	1.59	1.52
1	T	327	CYS	CA-CB	5.61	1.62	1.53
1	V	673	ASN	CA-C	5.61	1.60	1.52
1	l	182	ASP	C-N	-5.61	1.27	1.34
1	4	445	GLU	N-CA	-5.61	1.39	1.46
1	b	524	MET	N-CA	5.61	1.53	1.46
1	g	445	GLU	CA-CB	5.61	1.62	1.53
1	i	287	ASP	C-O	5.61	1.31	1.24
1	j	506	HIS	CG-CD2	-5.61	1.29	1.35
1	s	326	LYS	CA-CB	5.61	1.62	1.53
1	t	514	GLU	C-O	-5.61	1.19	1.24
1	t	655	ARG	C-O	-5.61	1.17	1.24
1	E	196	VAL	CA-C	5.61	1.59	1.52
1	G	211	LEU	CA-CB	-5.61	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	361	GLU	N-CA	5.61	1.53	1.46
1	N	246	LYS	CA-CB	5.61	1.62	1.53
1	O	242	GLY	N-CA	5.61	1.53	1.45
1	Q	108	ARG	CA-CB	5.61	1.62	1.53
1	Y	239	ARG	CA-C	5.61	1.59	1.52
1	0	194	GLN	CA-C	5.61	1.60	1.52
1	8	223	ILE	C-N	5.61	1.40	1.33
1	n	540	GLY	N-CA	5.61	1.53	1.45
1	p	271	ALA	C-N	5.61	1.41	1.33
1	G	541	GLU	CA-CB	5.61	1.62	1.53
1	L	147	SER	C-N	5.61	1.40	1.33
1	Y	646	PRO	N-CA	-5.61	1.40	1.47
1	8	221	LEU	CA-CB	5.61	1.62	1.53
1	a	174	ARG	CD-NE	5.61	1.54	1.46
1	a	325	VAL	N-CA	5.61	1.52	1.46
1	j	226	LEU	C-N	-5.61	1.26	1.33
1	t	206	HIS	CA-CB	5.61	1.62	1.53
1	E	526	ILE	C-O	-5.61	1.17	1.24
1	F	667	GLN	C-N	5.61	1.41	1.33
1	K	708	GLN	CA-C	-5.61	1.45	1.52
1	M	310	VAL	CA-C	5.61	1.60	1.52
1	Q	559	LYS	C-O	-5.61	1.16	1.24
1	3	98	ARG	CD-NE	5.61	1.54	1.46
1	6	355	TYR	N-CA	-5.61	1.39	1.46
1	a	152	ARG	CA-C	5.61	1.59	1.52
1	a	273	THR	N-CA	-5.61	1.39	1.46
1	b	259	ILE	C-N	5.61	1.41	1.33
1	k	593	ARG	CZ-NH2	-5.61	1.26	1.33
1	n	274	GLU	CA-C	5.61	1.60	1.52
1	n	548	THR	CA-C	-5.61	1.45	1.52
1	H	134	VAL	N-CA	-5.61	1.40	1.46
1	K	161	LYS	C-N	5.61	1.39	1.33
1	5	396	SER	CA-C	5.60	1.60	1.52
1	e	451	TYR	C-O	-5.60	1.17	1.24
1	f	556	ILE	N-CA	5.60	1.53	1.46
1	v	380	MET	CA-C	-5.60	1.45	1.52
1	B	560	HIS	CG-ND1	5.60	1.44	1.38
1	H	552	THR	C-N	5.60	1.41	1.33
1	O	390	GLU	C-N	5.60	1.40	1.33
1	W	568	ILE	CA-CB	5.60	1.60	1.54
1	Z	339	LEU	CB-CG	5.60	1.64	1.53
1	g	629	HIS	CD2-NE2	5.60	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	o	360	LEU	CA-CB	5.60	1.62	1.53
1	p	292	ILE	CA-CB	-5.60	1.46	1.53
1	E	648	ILE	N-CA	-5.60	1.40	1.46
1	H	595	GLU	CA-C	5.60	1.60	1.52
1	Q	232	VAL	CA-C	-5.60	1.46	1.52
1	s	119	PRO	N-CD	-5.60	1.40	1.47
1	t	398	GLN	CA-C	5.60	1.59	1.52
1	0	632	ALA	CA-C	5.60	1.60	1.52
1	5	457	ASP	CA-C	-5.60	1.44	1.52
1	b	333	ILE	CA-C	5.60	1.59	1.52
1	h	270	ILE	CA-C	-5.60	1.44	1.52
1	r	115	ASP	N-CA	5.60	1.53	1.46
1	t	301	ARG	CA-CB	5.60	1.63	1.53
1	t	357	ARG	CA-C	5.60	1.60	1.52
1	A	180	LEU	CA-C	5.60	1.60	1.52
1	E	378	LEU	CA-C	5.60	1.60	1.52
1	H	389	LEU	CA-C	5.60	1.60	1.52
1	I	357	ARG	N-CA	-5.60	1.39	1.46
1	I	362	GLU	CA-C	5.60	1.59	1.52
1	Q	242	GLY	N-CA	5.60	1.53	1.45
1	W	230	THR	CA-C	-5.60	1.45	1.52
1	Z	543	PHE	N-CA	5.60	1.53	1.46
1	5	596	ILE	CA-CB	-5.60	1.49	1.55
1	8	102	ASP	CA-CB	5.60	1.62	1.53
1	d	95	GLN	CA-C	5.60	1.60	1.52
1	e	281	GLU	N-CA	-5.60	1.39	1.46
1	n	170	ARG	CZ-NH2	-5.60	1.26	1.33
1	u	652	PHE	C-O	-5.60	1.17	1.24
1	x	506	HIS	CG-CD2	-5.60	1.29	1.35
1	G	247	ALA	CA-CB	5.60	1.62	1.53
1	I	306	SER	N-CA	5.60	1.53	1.46
1	I	520	LEU	C-N	5.60	1.40	1.33
1	L	277	SER	N-CA	5.60	1.53	1.46
1	5	353	HIS	C-N	-5.60	1.27	1.34
1	8	425	LYS	CA-CB	5.60	1.62	1.53
1	d	649	ILE	CA-CB	5.60	1.60	1.54
1	M	169	GLY	CA-C	-5.60	1.46	1.52
1	W	196	VAL	C-N	5.60	1.41	1.33
1	a	168	ALA	N-CA	5.59	1.52	1.45
1	a	437	VAL	N-CA	-5.59	1.40	1.46
1	m	277	SER	C-N	5.59	1.41	1.34
1	u	579	PHE	N-CA	-5.59	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	v	236	ASN	C-O	-5.59	1.17	1.23
1	E	407	CYS	CA-CB	5.59	1.62	1.53
1	G	473	LYS	CA-CB	5.59	1.62	1.53
1	J	290	ILE	C-N	5.59	1.38	1.33
1	M	111	GLY	N-CA	5.59	1.52	1.45
1	S	647	PHE	CA-C	5.59	1.60	1.52
1	X	383	GLN	CA-CB	5.59	1.62	1.53
1	j	650	GLN	N-CA	-5.59	1.39	1.46
1	s	652	PHE	CA-CB	5.59	1.62	1.53
1	E	493	LEU	CA-CB	5.59	1.62	1.53
1	N	338	SER	CA-C	5.59	1.59	1.52
1	W	178	LEU	CA-C	5.59	1.59	1.52
1	6	172	SER	N-CA	5.59	1.53	1.46
1	7	309	ASN	C-O	-5.59	1.17	1.24
1	q	626	ILE	CA-CB	5.59	1.60	1.54
1	r	326	LYS	CA-C	5.59	1.60	1.52
1	z	205	SER	N-CA	5.59	1.52	1.45
1	0	116	LEU	C-N	5.59	1.42	1.33
1	9	215	SER	CA-CB	5.59	1.62	1.53
1	c	149	ILE	N-CA	-5.59	1.39	1.46
1	c	168	ALA	N-CA	5.59	1.52	1.45
1	d	180	LEU	C-N	5.59	1.41	1.33
1	m	538	HIS	CG-CD2	-5.59	1.29	1.35
1	s	421	PHE	CA-C	5.59	1.60	1.52
1	z	454	ILE	N-CA	-5.59	1.39	1.46
1	I	550	GLN	N-CA	5.59	1.53	1.46
1	J	252	TYR	CA-C	-5.59	1.46	1.53
1	L	260	ASN	CA-CB	5.59	1.61	1.53
1	5	560	HIS	ND1-CE1	5.59	1.38	1.32
1	j	457	ASP	CA-C	5.59	1.60	1.52
1	s	596	ILE	CA-C	-5.59	1.45	1.52
1	w	531	PHE	CA-CB	5.59	1.62	1.53
1	z	480	VAL	CA-C	5.59	1.60	1.52
1	1	657	ASN	CA-CB	5.59	1.62	1.53
1	6	535	ALA	C-O	-5.59	1.17	1.24
1	9	513	VAL	CA-C	5.59	1.59	1.52
1	j	235	ASP	C-N	5.59	1.40	1.33
1	n	508	TYR	CA-CB	5.59	1.62	1.53
1	p	319	LYS	CA-C	5.59	1.60	1.52
1	p	321	GLY	N-CA	5.59	1.53	1.45
1	s	532	ILE	CB-CG1	5.59	1.64	1.53
1	z	429	PHE	CA-CB	5.59	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	420	PHE	CA-CB	5.59	1.62	1.53
1	A	472	VAL	CA-C	5.59	1.58	1.52
1	L	189	GLU	CA-CB	5.59	1.62	1.53
1	N	237	GLN	CA-C	5.59	1.59	1.52
1	V	625	GLU	C-N	5.59	1.41	1.33
1	f	467	THR	N-CA	5.58	1.53	1.46
1	i	297	ASP	CA-CB	5.58	1.62	1.53
1	i	391	GLY	CA-C	5.58	1.58	1.52
1	o	204	ILE	C-O	-5.58	1.16	1.23
1	Q	335	ASN	C-N	5.58	1.40	1.33
1	R	255	ARG	CD-NE	5.58	1.54	1.46
1	V	377	GLU	C-O	5.58	1.31	1.24
1	Z	686	ALA	N-CA	-5.58	1.39	1.46
1	0	636	GLU	CA-CB	5.58	1.62	1.53
1	6	460	ASN	CA-C	5.58	1.60	1.52
1	b	244	GLN	C-N	5.58	1.41	1.33
1	g	429	PHE	N-CA	-5.58	1.39	1.46
1	h	513	VAL	CA-C	-5.58	1.46	1.52
1	i	539	PHE	CA-CB	5.58	1.62	1.53
1	z	415	GLU	C-N	5.58	1.41	1.33
1	H	275	ALA	CA-CB	5.58	1.62	1.53
1	K	281	GLU	C-N	5.58	1.40	1.33
1	L	484	GLU	CA-C	5.58	1.60	1.52
1	M	690	ARG	C-N	5.58	1.41	1.33
1	U	329	GLY	N-CA	5.58	1.52	1.45
1	Y	182	ASP	CA-C	5.58	1.58	1.53
1	Z	106	SER	N-CA	5.58	1.53	1.46
1	0	555	ASP	CA-C	5.58	1.59	1.52
1	1	504	ILE	CA-C	5.58	1.59	1.52
1	2	452	ASN	CA-CB	5.58	1.62	1.53
1	3	562	ALA	CA-C	5.58	1.59	1.52
1	8	429	PHE	CA-C	5.58	1.59	1.52
1	g	706	LEU	C-N	-5.58	1.26	1.33
1	m	233	ALA	C-N	5.58	1.40	1.33
1	G	434	GLU	CA-CB	5.58	1.62	1.53
1	J	375	THR	N-CA	-5.58	1.39	1.46
1	L	231	ARG	CD-NE	5.58	1.54	1.46
1	O	641	LEU	N-CA	5.58	1.53	1.46
1	V	477	HIS	C-O	-5.58	1.16	1.24
1	V	656	GLU	CA-C	5.58	1.59	1.52
1	W	661	LEU	C-N	5.58	1.41	1.33
1	G	372	GLU	C-N	5.58	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	335	ASN	CA-C	5.58	1.60	1.52
1	4	653	MET	CA-C	5.58	1.60	1.52
1	g	202	ARG	CD-NE	5.58	1.54	1.46
1	E	161	LYS	N-CA	-5.58	1.39	1.46
1	G	229	ILE	CA-C	5.58	1.60	1.52
1	S	629	HIS	CA-CB	5.58	1.62	1.53
1	Y	592	VAL	CA-C	5.58	1.59	1.52
1	a	538	HIS	CE1-NE2	5.58	1.38	1.32
1	q	557	LYS	CA-CB	5.58	1.62	1.53
1	g	112	VAL	C-N	5.58	1.42	1.33
1	m	559	LYS	C-N	5.58	1.41	1.33
1	F	301	ARG	CD-NE	5.58	1.54	1.46
1	b	120	ALA	CA-C	5.57	1.59	1.52
1	b	475	ILE	N-CA	5.57	1.53	1.46
1	g	191	HIS	CG-CD2	5.57	1.42	1.35
1	m	305	LYS	C-O	-5.57	1.17	1.24
1	x	387	PRO	N-CD	-5.57	1.40	1.47
1	y	455	ARG	CD-NE	5.57	1.54	1.46
1	C	337	LEU	C-N	5.57	1.40	1.33
1	N	328	ARG	C-N	5.57	1.41	1.33
1	Q	133	SER	CA-C	-5.57	1.45	1.52
1	U	107	LEU	C-N	5.57	1.41	1.34
1	W	437	VAL	CA-CB	-5.57	1.46	1.54
1	2	669	LEU	C-N	5.57	1.41	1.33
1	8	149	ILE	CA-C	-5.57	1.46	1.52
1	s	554	GLU	CA-C	5.57	1.60	1.52
1	7	117	ALA	N-CA	-5.57	1.39	1.46
1	r	354	PRO	CA-C	-5.57	1.44	1.52
1	z	655	ARG	CD-NE	5.57	1.54	1.46
1	D	249	ILE	N-CA	5.57	1.53	1.46
1	3	542	PHE	CA-CB	5.57	1.61	1.53
1	5	236	ASN	CA-CB	5.57	1.62	1.53
1	9	642	ALA	C-N	5.57	1.42	1.33
1	a	672	LYS	CA-C	5.57	1.60	1.52
1	n	317	PRO	CA-CB	5.57	1.58	1.53
1	L	156	VAL	C-N	5.57	1.41	1.33
1	0	152	ARG	CD-NE	5.57	1.54	1.46
1	1	263	VAL	CA-C	5.57	1.59	1.52
1	5	260	ASN	CA-CB	5.57	1.61	1.53
1	6	507	GLN	N-CA	-5.57	1.39	1.46
1	8	562	ALA	CA-CB	5.57	1.62	1.53
1	a	375	THR	CA-C	-5.57	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b	516	ALA	N-CA	-5.57	1.39	1.46
1	c	638	SER	C-N	5.57	1.41	1.34
1	c	684	GLU	N-CA	-5.57	1.39	1.46
1	e	403	GLU	CA-C	5.57	1.59	1.52
1	h	547	GLN	N-CA	-5.57	1.39	1.46
1	p	398	GLN	CA-CB	5.57	1.61	1.53
1	y	249	ILE	CA-CB	-5.57	1.48	1.54
1	O	690	ARG	CD-NE	5.57	1.54	1.46
1	R	537	LYS	CA-CB	5.57	1.61	1.53
1	T	175	ASN	N-CA	5.57	1.53	1.46
1	b	497	ASN	C-N	5.57	1.41	1.33
1	g	239	ARG	CA-CB	5.57	1.62	1.53
1	u	169	GLY	N-CA	-5.57	1.39	1.45
1	z	650	GLN	CA-C	-5.57	1.45	1.52
1	A	280	HIS	CB-CG	-5.57	1.42	1.50
1	M	259	ILE	CA-C	5.57	1.59	1.52
1	O	346	GLU	C-N	5.57	1.40	1.33
1	P	548	THR	N-CA	5.57	1.53	1.46
1	X	95	GLN	CA-C	-5.57	1.45	1.52
1	Z	501	PHE	CA-C	5.57	1.59	1.52
1	i	481	GLU	CA-CB	5.56	1.61	1.53
1	l	644	GLN	CA-C	-5.56	1.45	1.52
1	q	395	GLU	CA-C	5.56	1.59	1.52
1	v	496	VAL	CA-CB	5.56	1.60	1.54
1	C	152	ARG	CA-C	5.56	1.59	1.52
1	D	189	GLU	CA-CB	5.56	1.62	1.53
1	F	685	THR	CA-C	-5.56	1.45	1.52
1	I	698	ARG	CZ-NH1	-5.56	1.25	1.32
1	N	445	GLU	C-N	5.56	1.41	1.33
1	V	490	LYS	N-CA	5.56	1.53	1.46
1	2	384	LYS	C-N	5.56	1.41	1.33
1	e	170	ARG	NE-CZ	-5.56	1.26	1.33
1	l	592	VAL	N-CA	5.56	1.53	1.46
1	r	183	PRO	N-CA	-5.56	1.40	1.47
1	z	687	THR	C-N	5.56	1.41	1.33
1	z	704	HIS	ND1-CE1	5.56	1.38	1.32
1	A	200	ASN	CA-C	-5.56	1.45	1.52
1	H	213	ILE	N-CA	-5.56	1.39	1.46
1	L	237	GLN	CA-C	5.56	1.59	1.52
1	M	693	LYS	N-CA	5.56	1.52	1.46
1	N	577	MET	CA-C	5.56	1.59	1.52
1	X	324	ILE	N-CA	5.56	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7	100	CYS	CA-CB	5.56	1.61	1.53
1	Q	339	LEU	CB-CG	5.56	1.64	1.53
1	S	536	LYS	N-CA	5.56	1.53	1.46
1	1	119	PRO	C-N	-5.56	1.26	1.33
1	5	695	ARG	CD-NE	5.56	1.54	1.46
1	h	323	MET	C-N	5.56	1.39	1.33
1	n	635	LEU	CA-CB	5.56	1.62	1.53
1	q	280	HIS	ND1-CE1	5.56	1.38	1.32
1	x	294	THR	C-O	-5.56	1.17	1.23
1	A	462	VAL	CA-CB	-5.56	1.47	1.54
1	E	419	MET	C-O	-5.56	1.17	1.24
1	J	396	SER	C-O	-5.56	1.17	1.24
1	V	237	GLN	CA-CB	5.56	1.61	1.53
1	V	414	GLN	C-N	5.56	1.41	1.33
1	6	623	PHE	CA-C	-5.56	1.45	1.52
1	9	380	MET	N-CA	-5.56	1.39	1.46
1	e	339	LEU	CA-C	5.56	1.60	1.52
1	g	102	ASP	N-CA	-5.56	1.39	1.46
1	n	313	ASN	CA-CB	5.56	1.61	1.53
1	F	394	ARG	CA-CB	5.56	1.61	1.53
1	H	401	THR	N-CA	5.56	1.53	1.46
1	L	398	GLN	CA-CB	5.56	1.62	1.53
1	U	589	LEU	CA-CB	5.56	1.62	1.53
1	X	339	LEU	C-N	5.56	1.41	1.33
1	Z	325	VAL	N-CA	-5.56	1.39	1.46
1	2	122	ALA	CA-C	-5.56	1.46	1.52
1	a	340	ALA	CA-CB	-5.56	1.44	1.53
1	k	184	GLY	C-N	5.56	1.42	1.33
1	B	208	LEU	CB-CG	5.56	1.64	1.53
1	Y	268	VAL	CA-CB	5.56	1.61	1.54
1	a	261	LEU	N-CA	-5.55	1.39	1.46
1	e	202	ARG	N-CA	5.55	1.52	1.46
1	j	301	ARG	N-CA	5.55	1.52	1.45
1	k	660	SER	C-N	5.55	1.40	1.33
1	s	670	GLN	N-CA	5.55	1.53	1.46
1	J	179	GLU	CA-CB	5.55	1.60	1.53
1	K	95	GLN	CA-C	5.55	1.60	1.52
1	P	306	SER	CA-CB	5.55	1.61	1.53
1	S	348	THR	N-CA	5.55	1.52	1.46
1	U	297	ASP	C-N	5.55	1.41	1.33
1	V	245	ILE	C-N	5.55	1.41	1.33
1	2	590	LYS	N-CA	-5.55	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	242	GLY	N-CA	5.55	1.52	1.45
1	X	552	THR	C-O	-5.55	1.17	1.24
1	g	165	GLU	C-N	5.55	1.41	1.33
1	h	277	SER	CA-C	5.55	1.59	1.52
1	o	167	TRP	NE1-CE2	-5.55	1.31	1.37
1	r	178	LEU	CA-C	-5.55	1.45	1.52
1	u	341	GLU	C-O	-5.55	1.17	1.24
1	v	171	ILE	CA-C	-5.55	1.45	1.52
1	I	338	SER	C-N	5.55	1.41	1.33
1	U	147	SER	CA-CB	5.55	1.61	1.53
1	k	359	LEU	CA-CB	5.55	1.61	1.53
1	w	517	LEU	CA-C	-5.55	1.45	1.52
1	y	488	ARG	C-N	5.55	1.41	1.34
1	F	268	VAL	CA-CB	-5.55	1.48	1.54
1	J	133	SER	CA-C	-5.55	1.45	1.52
1	S	490	LYS	C-N	5.55	1.41	1.33
1	Y	694	GLU	CA-C	-5.55	1.45	1.52
1	Z	632	ALA	N-CA	-5.55	1.39	1.46
1	c	576	GLN	CA-C	5.55	1.60	1.52
1	j	448	THR	N-CA	5.55	1.52	1.45
1	V	372	GLU	C-N	-5.55	1.26	1.33
1	8	661	LEU	CA-C	5.55	1.60	1.52
1	u	324	ILE	CA-C	5.55	1.59	1.52
1	x	353	HIS	CA-CB	5.55	1.62	1.53
1	S	252	TYR	CB-CG	-5.55	1.39	1.51
1	U	679	LEU	C-N	5.55	1.40	1.33
1	Z	214	THR	C-N	5.55	1.40	1.33
1	e	582	ASP	CA-C	5.54	1.60	1.52
1	l	545	LEU	CA-CB	5.54	1.61	1.53
1	n	264	VAL	CA-CB	5.54	1.61	1.54
1	D	413	SER	C-N	5.54	1.40	1.33
1	I	626	ILE	CA-CB	5.54	1.60	1.54
1	R	564	ALA	CA-CB	5.54	1.61	1.53
1	X	516	ALA	CA-C	-5.54	1.45	1.52
1	5	479	GLU	CA-CB	5.54	1.61	1.53
1	9	368	PRO	CA-C	-5.54	1.47	1.52
1	f	118	LEU	CA-CB	5.54	1.62	1.53
1	l	328	ARG	N-CA	-5.54	1.39	1.46
1	r	152	ARG	CA-CB	5.54	1.62	1.53
1	s	468	ASN	CA-C	5.54	1.60	1.52
1	y	647	PHE	CA-CB	5.54	1.62	1.53
1	D	475	ILE	CA-C	5.54	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	554	GLU	CA-CB	5.54	1.61	1.53
1	J	655	ARG	CA-CB	5.54	1.62	1.53
1	L	121	ILE	CA-C	5.54	1.59	1.53
1	S	131	LYS	CA-C	5.54	1.60	1.52
1	U	662	GLN	N-CA	5.54	1.52	1.46
1	Y	560	HIS	ND1-CE1	5.54	1.38	1.32
1	2	142	ALA	C-N	5.54	1.41	1.33
1	7	504	ILE	N-CA	-5.54	1.40	1.46
1	8	651	TYR	CA-C	-5.54	1.45	1.52
1	c	698	ARG	CD-NE	5.54	1.54	1.46
1	B	629	HIS	CD2-NE2	5.54	1.44	1.37
1	H	308	MET	N-CA	5.54	1.53	1.46
1	I	518	SER	CA-CB	5.54	1.62	1.53
1	L	522	LYS	N-CA	-5.54	1.39	1.46
1	Q	668	ILE	N-CA	5.54	1.53	1.46
1	Y	218	VAL	CA-CB	5.54	1.59	1.53
1	2	98	ARG	CD-NE	5.54	1.54	1.46
1	3	378	LEU	C-N	5.54	1.40	1.33
1	m	93	TYR	CE2-CZ	5.54	1.51	1.38
1	v	700	THR	CA-C	-5.54	1.45	1.52
1	C	287	ASP	CA-C	5.54	1.60	1.52
1	F	698	ARG	N-CA	-5.54	1.39	1.46
1	H	290	ILE	N-CA	5.54	1.52	1.46
1	0	215	SER	CA-CB	5.54	1.62	1.53
1	0	275	ALA	N-CA	5.54	1.52	1.46
1	p	488	ARG	C-N	5.54	1.40	1.33
1	w	338	SER	N-CA	5.54	1.53	1.45
1	C	164	CYS	C-N	5.54	1.41	1.33
1	H	192	LYS	N-CA	5.54	1.53	1.46
1	Z	244	GLN	C-N	5.54	1.40	1.33
1	9	707	CYS	C-N	5.54	1.41	1.33
1	d	401	THR	C-N	5.54	1.40	1.33
1	e	319	LYS	N-CA	5.54	1.53	1.45
1	i	388	LEU	CA-CB	5.54	1.61	1.53
1	B	298	LEU	N-CA	-5.54	1.39	1.46
1	N	138	LEU	N-CA	5.54	1.52	1.46
1	Q	405	ARG	CD-NE	5.54	1.54	1.46
1	5	129	SER	C-N	5.54	1.40	1.33
1	6	623	PHE	CA-CB	5.54	1.62	1.53
1	h	294	THR	C-N	5.54	1.41	1.33
1	s	113	GLU	CA-CB	5.54	1.62	1.53
1	u	285	GLU	CA-C	-5.54	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	w	146	GLY	CA-C	5.54	1.59	1.51
1	L	229	ILE	CA-CB	5.54	1.60	1.54
1	Q	397	HIS	CG-ND1	5.54	1.44	1.38
1	9	105	ASP	N-CA	-5.53	1.39	1.46
1	d	476	ILE	CA-CB	5.53	1.61	1.54
1	v	261	LEU	CA-CB	5.53	1.60	1.53
1	C	200	ASN	C-O	-5.53	1.17	1.24
1	L	541	GLU	C-N	5.53	1.40	1.33
1	S	206	HIS	CE1-NE2	5.53	1.38	1.32
1	U	581	GLN	CA-CB	5.53	1.62	1.53
1	V	401	THR	CA-CB	5.53	1.61	1.53
1	W	477	HIS	C-O	-5.53	1.17	1.24
1	7	644	GLN	N-CA	5.53	1.52	1.46
1	a	316	TYR	CA-C	5.53	1.60	1.53
1	m	120	ALA	C-O	5.53	1.30	1.23
1	n	435	LYS	C-N	5.53	1.41	1.33
1	p	270	ILE	CA-CB	-5.53	1.47	1.54
1	u	384	LYS	CA-C	5.53	1.59	1.52
1	C	575	GLU	C-N	5.53	1.41	1.33
1	L	328	ARG	NE-CZ	5.53	1.39	1.33
1	T	168	ALA	C-N	5.53	1.40	1.33
1	4	106	SER	CA-CB	5.53	1.62	1.53
1	7	526	ILE	C-N	5.53	1.40	1.33
1	j	461	TRP	NE1-CE2	-5.53	1.31	1.37
1	m	309	ASN	C-N	5.53	1.40	1.33
1	o	424	GLU	C-N	5.53	1.41	1.33
1	p	401	THR	C-N	5.53	1.41	1.33
1	q	175	ASN	CA-CB	5.53	1.62	1.53
1	v	675	TYR	C-N	5.53	1.41	1.33
1	E	655	ARG	CA-C	5.53	1.59	1.52
1	G	356	PHE	C-N	5.53	1.41	1.33
1	G	670	GLN	C-N	5.53	1.41	1.33
1	J	354	PRO	CA-C	-5.53	1.43	1.52
1	J	424	GLU	CA-CB	5.53	1.61	1.53
1	R	312	ARG	CZ-NH2	-5.53	1.26	1.33
1	5	654	LEU	CA-CB	5.53	1.62	1.53
1	l	203	GLY	CA-C	-5.53	1.44	1.51
1	x	105	ASP	C-N	5.53	1.41	1.33
1	B	256	GLN	N-CA	-5.53	1.39	1.46
1	M	164	CYS	CA-C	5.53	1.59	1.52
1	5	573	ARG	CD-NE	5.53	1.53	1.46
1	a	128	SER	CA-C	-5.53	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c	344	LYS	C-N	5.53	1.41	1.33
1	q	694	GLU	C-N	5.53	1.41	1.33
1	x	229	ILE	N-CA	5.53	1.53	1.46
1	A	558	VAL	CA-C	5.53	1.59	1.52
1	D	640	ARG	N-CA	5.53	1.53	1.46
1	E	677	TRP	CA-C	5.53	1.60	1.52
1	N	288	ARG	CA-CB	5.53	1.61	1.53
1	R	231	ARG	CD-NE	5.53	1.53	1.46
1	X	174	ARG	CD-NE	5.53	1.53	1.46
1	0	352	THR	C-N	5.53	1.40	1.33
1	3	538	HIS	CA-C	-5.53	1.45	1.52
1	4	187	GLU	C-N	5.53	1.41	1.33
1	5	627	GLY	C-N	5.53	1.40	1.33
1	b	672	LYS	C-N	5.53	1.42	1.33
1	f	349	PHE	N-CA	-5.53	1.39	1.46
1	m	400	ALA	CA-C	5.53	1.59	1.52
1	n	256	GLN	C-O	5.53	1.30	1.24
1	u	483	TYR	N-CA	-5.53	1.39	1.46
1	u	509	ILE	CA-C	-5.53	1.46	1.52
1	w	234	VAL	CA-C	5.53	1.59	1.52
1	E	274	GLU	N-CA	5.53	1.53	1.46
1	M	175	ASN	C-N	5.53	1.40	1.33
1	N	390	GLU	N-CA	-5.53	1.39	1.46
1	P	314	LEU	N-CA	-5.53	1.39	1.46
1	W	452	ASN	C-N	5.53	1.40	1.33
1	2	137	ALA	N-CA	5.52	1.53	1.46
1	5	104	ILE	CA-C	5.52	1.59	1.52
1	5	398	GLN	CA-C	5.52	1.59	1.52
1	R	659	ASP	CA-C	5.52	1.59	1.52
1	0	647	PHE	CA-CB	5.52	1.61	1.53
1	5	581	GLN	N-CA	-5.52	1.39	1.46
1	b	685	THR	C-N	5.52	1.40	1.33
1	c	638	SER	CA-CB	5.52	1.61	1.53
1	m	395	GLU	N-CA	-5.52	1.39	1.46
1	t	460	ASN	C-N	5.52	1.41	1.33
1	y	433	ILE	C-N	5.52	1.41	1.33
1	z	113	GLU	CA-CB	5.52	1.62	1.53
1	A	358	VAL	CA-CB	-5.52	1.47	1.54
1	U	657	ASN	C-O	-5.52	1.17	1.24
1	Z	459	LYS	CA-C	5.52	1.60	1.52
1	5	522	LYS	CA-CB	5.52	1.61	1.53
1	7	135	LEU	N-CA	5.52	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	q	551	SER	CA-CB	5.52	1.62	1.53
1	x	338	SER	CA-CB	5.52	1.61	1.53
1	H	224	ILE	C-O	-5.52	1.18	1.24
1	K	127	GLN	CA-CB	5.52	1.62	1.53
1	L	554	GLU	CA-CB	5.52	1.61	1.53
1	d	357	ARG	CA-CB	5.52	1.62	1.53
1	e	360	LEU	CA-CB	5.52	1.62	1.53
1	n	561	THR	CA-CB	-5.52	1.44	1.53
1	o	207	GLU	CA-CB	5.52	1.61	1.53
1	u	394	ARG	CA-C	5.52	1.59	1.52
1	u	571	GLN	CA-CB	5.52	1.62	1.53
1	v	442	VAL	N-CA	5.52	1.52	1.46
1	y	108	ARG	C-O	5.52	1.30	1.24
1	D	506	HIS	ND1-CE1	5.52	1.38	1.32
1	G	105	ASP	CA-CB	5.52	1.61	1.53
1	P	653	MET	N-CA	-5.52	1.38	1.45
1	7	434	GLU	C-N	5.52	1.41	1.33
1	9	154	PRO	C-N	5.52	1.40	1.33
1	g	460	ASN	CA-C	5.52	1.60	1.52
1	k	250	LYS	C-N	5.52	1.40	1.33
1	u	157	LEU	CA-CB	5.52	1.60	1.53
1	B	640	ARG	CA-CB	5.52	1.62	1.53
1	F	343	THR	CA-C	5.52	1.59	1.52
1	P	506	HIS	CA-C	-5.52	1.45	1.52
1	Q	394	ARG	N-CA	-5.52	1.39	1.46
1	U	470	GLN	CA-C	-5.52	1.45	1.52
1	W	344	LYS	N-CA	5.52	1.53	1.46
1	W	626	ILE	N-CA	-5.52	1.40	1.46
1	2	461	TRP	NE1-CE2	5.52	1.43	1.37
1	w	651	TYR	N-CA	-5.52	1.40	1.46
1	D	416	ALA	C-O	-5.52	1.17	1.23
1	G	358	VAL	N-CA	-5.52	1.40	1.46
1	L	173	TYR	CB-CG	5.52	1.63	1.51
1	W	316	TYR	N-CA	5.52	1.52	1.45
1	6	134	VAL	C-N	5.51	1.41	1.33
1	e	463	GLY	C-O	-5.51	1.17	1.23
1	k	100	CYS	CA-C	5.51	1.59	1.52
1	p	283	ASP	N-CA	-5.51	1.40	1.46
1	B	234	VAL	CA-CB	-5.51	1.47	1.54
1	B	263	VAL	CA-C	-5.51	1.45	1.52
1	u	97	VAL	C-O	-5.51	1.18	1.24
1	O	468	ASN	CA-C	-5.51	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	0	677	TRP	CA-CB	5.51	1.62	1.53
1	3	629	HIS	CG-CD2	-5.51	1.29	1.35
1	9	257	GLN	CA-CB	5.51	1.61	1.53
1	h	235	ASP	CA-CB	5.51	1.61	1.53
1	n	120	ALA	C-N	5.51	1.40	1.33
1	s	156	VAL	N-CA	-5.51	1.39	1.46
1	G	431	GLN	N-CA	-5.51	1.39	1.46
1	H	353	HIS	ND1-CE1	5.51	1.38	1.32
1	M	314	LEU	CA-CB	5.51	1.61	1.53
1	V	317	PRO	C-O	-5.51	1.16	1.24
1	V	350	PHE	CA-C	5.51	1.60	1.52
1	Y	244	GLN	N-CA	5.51	1.53	1.46
1	Z	526	ILE	CA-C	5.51	1.59	1.52
1	1	381	HIS	CA-C	-5.51	1.45	1.52
1	f	552	THR	C-O	-5.51	1.17	1.24
1	i	638	SER	CA-C	-5.51	1.45	1.52
1	q	654	LEU	CA-C	5.51	1.56	1.52
1	w	127	GLN	C-N	-5.51	1.26	1.33
1	y	632	ALA	C-N	5.51	1.41	1.34
1	E	224	ILE	CA-CB	-5.51	1.47	1.53
1	M	186	VAL	CA-CB	-5.51	1.47	1.54
1	S	522	LYS	CA-CB	5.51	1.62	1.53
1	U	529	GLN	N-CA	-5.51	1.39	1.46
1	X	661	LEU	C-N	5.51	1.40	1.33
1	1	144	PRO	CA-C	-5.51	1.45	1.52
1	w	276	LEU	CA-CB	5.51	1.62	1.53
1	Q	221	LEU	N-CA	-5.51	1.38	1.45
1	0	582	ASP	CA-CB	5.51	1.61	1.53
1	c	427	LYS	N-CA	-5.51	1.39	1.46
1	p	300	ASP	N-CA	-5.51	1.39	1.46
1	u	543	PHE	CA-C	-5.51	1.45	1.52
1	G	421	PHE	C-N	5.51	1.40	1.33
1	I	334	THR	CA-CB	5.51	1.62	1.53
1	L	395	GLU	N-CA	5.51	1.53	1.46
1	M	459	LYS	CA-CB	5.51	1.61	1.53
1	N	396	SER	C-O	-5.51	1.17	1.24
1	Q	228	GLY	C-N	5.51	1.40	1.33
1	V	356	PHE	C-N	5.51	1.40	1.33
1	0	237	GLN	CA-C	-5.50	1.47	1.53
1	0	698	ARG	CD-NE	5.50	1.53	1.46
1	h	164	CYS	N-CA	-5.50	1.39	1.46
1	k	436	LEU	C-N	5.50	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	527	ILE	N-CA	-5.50	1.39	1.46
1	O	309	ASN	CA-CB	5.50	1.61	1.53
1	Y	655	ARG	NE-CZ	-5.50	1.26	1.33
1	Z	280	HIS	C-O	-5.50	1.17	1.24
1	0	589	LEU	C-N	5.50	1.41	1.33
1	6	112	VAL	CA-CB	-5.50	1.47	1.54
1	f	147	SER	CA-CB	5.50	1.62	1.53
1	k	488	ARG	CD-NE	5.50	1.53	1.46
1	l	506	HIS	CE1-NE2	5.50	1.38	1.32
1	z	185	GLN	C-N	5.50	1.40	1.34
1	O	362	GLU	CA-C	5.50	1.60	1.52
1	U	180	LEU	C-N	5.50	1.39	1.33
1	V	534	VAL	C-N	5.50	1.41	1.33
1	4	338	SER	C-N	5.50	1.41	1.33
1	t	629	HIS	ND1-CE1	5.50	1.38	1.32
1	x	287	ASP	CA-C	5.50	1.60	1.52
1	C	228	GLY	C-N	5.50	1.40	1.33
1	E	416	ALA	N-CA	-5.50	1.39	1.46
1	H	240	ASP	CA-CB	5.50	1.64	1.53
1	I	355	TYR	CA-C	5.50	1.59	1.52
1	K	475	ILE	C-N	5.50	1.40	1.34
1	O	444	ARG	CD-NE	5.50	1.53	1.46
1	V	317	PRO	CA-C	5.50	1.60	1.52
1	a	453	LYS	CA-CB	5.50	1.62	1.53
1	e	248	LEU	C-N	5.50	1.40	1.34
1	A	465	LEU	CA-CB	5.50	1.61	1.53
1	T	148	GLY	N-CA	5.50	1.53	1.45
1	V	688	LYS	N-CA	5.50	1.53	1.46
1	Z	576	GLN	CA-C	5.50	1.59	1.52
1	5	572	PHE	CA-C	5.50	1.59	1.52
1	m	182	ASP	C-O	5.50	1.30	1.23
1	m	373	ARG	CZ-NH1	-5.50	1.25	1.32
1	o	186	VAL	CA-C	5.50	1.59	1.52
1	p	265	PRO	C-O	5.50	1.30	1.23
1	r	98	ARG	N-CA	5.50	1.51	1.46
1	r	193	ALA	C-N	5.50	1.41	1.33
1	Q	518	SER	CA-CB	5.50	1.62	1.53
1	S	315	THR	CA-C	5.50	1.61	1.52
1	W	401	THR	C-N	5.50	1.40	1.33
1	Y	654	LEU	CA-C	5.50	1.60	1.52
1	i	295	LYS	CA-C	5.50	1.59	1.52
1	q	110	LEU	CA-C	5.50	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	q	699	LEU	C-O	-5.50	1.17	1.24
1	r	263	VAL	C-N	5.50	1.39	1.33
1	w	685	THR	C-N	5.50	1.40	1.33
1	B	415	GLU	C-N	5.50	1.41	1.33
1	B	696	ILE	C-N	5.50	1.40	1.33
1	K	131	LYS	C-N	5.50	1.41	1.33
1	L	386	LEU	CA-CB	5.50	1.60	1.53
1	M	113	GLU	CA-CB	5.50	1.61	1.53
1	R	232	VAL	C-N	5.50	1.40	1.33
1	X	648	ILE	N-CA	-5.50	1.40	1.46
1	2	263	VAL	C-N	5.50	1.39	1.33
1	n	266	CYS	CA-C	5.50	1.59	1.52
1	n	691	ILE	CA-CB	5.50	1.60	1.54
1	s	644	GLN	C-N	5.50	1.39	1.33
1	P	152	ARG	C-N	5.50	1.39	1.33
1	W	538	HIS	CG-CD2	5.50	1.41	1.35
1	0	698	ARG	CZ-NH2	-5.49	1.26	1.33
1	6	322	TYR	C-N	5.49	1.42	1.33
1	d	542	PHE	C-N	5.49	1.41	1.33
1	f	145	ARG	N-CA	5.49	1.52	1.46
1	f	397	HIS	CE1-NE2	5.49	1.38	1.32
1	j	634	PHE	CA-C	-5.49	1.45	1.52
1	p	630	LEU	N-CA	-5.49	1.39	1.46
1	x	421	PHE	C-N	5.49	1.40	1.33
1	Q	508	TYR	CZ-OH	5.49	1.49	1.38
1	S	343	THR	CA-C	5.49	1.59	1.52
1	T	563	LYS	CA-CB	5.49	1.61	1.53
1	V	286	GLY	C-N	5.49	1.41	1.33
1	a	280	HIS	CD2-NE2	5.49	1.43	1.37
1	d	180	LEU	CB-CG	5.49	1.64	1.53
1	k	247	ALA	C-N	5.49	1.41	1.33
1	u	576	GLN	CA-C	-5.49	1.45	1.52
1	S	345	LYS	CA-C	5.49	1.59	1.52
1	S	549	VAL	N-CA	-5.49	1.40	1.46
1	X	559	LYS	N-CA	-5.49	1.39	1.46
1	1	590	LYS	N-CA	-5.49	1.39	1.46
1	9	363	GLY	N-CA	5.49	1.52	1.45
1	h	447	GLU	N-CA	-5.49	1.39	1.46
1	n	136	GLU	CA-CB	5.49	1.62	1.53
1	t	561	THR	C-N	5.49	1.41	1.33
1	v	291	GLY	N-CA	-5.49	1.38	1.45
1	y	560	HIS	CA-C	-5.49	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	477	HIS	CB-CG	5.49	1.57	1.50
1	Q	245	ILE	N-CA	5.49	1.52	1.46
1	X	216	PRO	CA-C	5.49	1.59	1.52
1	8	542	PHE	CA-CB	5.49	1.59	1.53
1	e	221	LEU	C-O	-5.49	1.17	1.23
1	k	492	LEU	N-CA	5.49	1.53	1.46
1	l	502	GLU	C-N	5.49	1.40	1.33
1	x	238	PRO	C-N	5.49	1.41	1.33
1	J	237	GLN	CA-C	5.49	1.59	1.52
1	K	218	VAL	C-O	-5.49	1.17	1.24
1	S	666	MET	C-N	5.49	1.42	1.33
1	T	333	ILE	CA-C	5.49	1.59	1.52
1	9	404	LEU	N-CA	-5.49	1.39	1.46
1	d	219	PRO	N-CA	-5.49	1.40	1.46
1	d	228	GLY	CA-C	-5.49	1.44	1.51
1	G	645	ILE	CA-CB	5.49	1.57	1.54
1	O	202	ARG	C-N	5.49	1.41	1.33
1	O	324	ILE	C-N	5.49	1.41	1.33
1	4	283	ASP	C-N	5.49	1.40	1.34
1	b	204	ILE	CA-CB	5.49	1.63	1.55
1	k	203	GLY	CA-C	5.49	1.60	1.52
1	p	318	LEU	C-O	-5.49	1.17	1.23
1	t	122	ALA	C-N	5.49	1.40	1.33
1	w	562	ALA	N-CA	5.49	1.53	1.46
1	z	229	ILE	CA-C	5.49	1.58	1.52
1	L	153	CYS	N-CA	-5.49	1.40	1.46
1	O	203	GLY	C-N	-5.49	1.27	1.33
1	P	397	HIS	ND1-CE1	5.49	1.38	1.32
1	Y	231	ARG	C-O	-5.49	1.16	1.23
1	Z	584	ILE	C-O	-5.49	1.17	1.24
1	3	685	THR	CA-CB	5.48	1.61	1.53
1	5	666	MET	CA-C	5.48	1.60	1.52
1	6	504	ILE	CA-CB	-5.48	1.47	1.54
1	9	193	ALA	C-N	5.48	1.40	1.33
1	a	526	ILE	N-CA	-5.48	1.39	1.46
1	p	290	ILE	CB-CG1	5.48	1.64	1.53
1	s	250	LYS	CA-C	5.48	1.60	1.52
1	E	426	ILE	C-N	5.48	1.40	1.33
1	F	101	ILE	C-N	5.48	1.41	1.34
1	S	430	ASN	N-CA	-5.48	1.39	1.46
1	l	583	GLN	CA-CB	5.48	1.63	1.53
1	r	258	THR	CA-CB	5.48	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	r	648	ILE	N-CA	-5.48	1.39	1.46
1	u	381	HIS	ND1-CE1	5.48	1.38	1.32
1	u	546	ASN	C-N	5.48	1.41	1.33
1	B	485	LYS	C-N	5.48	1.41	1.33
1	D	119	PRO	N-CA	5.48	1.54	1.47
1	F	228	GLY	CA-C	-5.48	1.46	1.52
1	Q	122	ALA	CA-CB	5.48	1.61	1.53
1	V	710	SER	CA-C	5.48	1.61	1.52
1	Y	565	GLU	CA-C	5.48	1.59	1.52
1	Z	444	ARG	CD-NE	5.48	1.53	1.46
1	Z	456	GLU	C-N	5.48	1.41	1.33
1	m	263	VAL	CA-C	5.48	1.59	1.52
1	n	191	HIS	CA-C	5.48	1.60	1.52
1	q	541	GLU	CA-CB	5.48	1.61	1.53
1	C	626	ILE	CA-C	5.48	1.59	1.52
1	E	336	ARG	CA-CB	5.48	1.61	1.53
1	F	288	ARG	N-CA	-5.48	1.40	1.46
1	H	214	THR	CA-CB	5.48	1.60	1.53
1	J	260	ASN	CA-CB	5.48	1.60	1.53
1	U	390	GLU	CA-C	5.48	1.59	1.52
1	e	282	VAL	CA-CB	5.48	1.61	1.54
1	j	98	ARG	C-O	-5.48	1.19	1.24
1	C	577	MET	N-CA	-5.48	1.39	1.46
1	G	395	GLU	CA-CB	5.48	1.61	1.53
1	W	272	THR	CA-C	5.48	1.59	1.52
1	7	539	PHE	C-N	5.48	1.40	1.33
1	o	654	LEU	CA-C	-5.48	1.49	1.52
1	r	436	LEU	C-O	5.48	1.30	1.24
1	x	535	ALA	CA-CB	5.48	1.61	1.53
1	x	632	ALA	C-N	5.48	1.41	1.33
1	z	697	TYR	C-N	5.48	1.40	1.33
1	G	425	LYS	CA-C	-5.48	1.45	1.52
1	O	337	LEU	CA-CB	5.48	1.62	1.53
1	O	577	MET	C-N	5.48	1.39	1.33
1	O	696	ILE	CA-C	-5.48	1.45	1.52
1	S	123	VAL	CA-CB	-5.48	1.47	1.54
1	l	681	GLU	CA-CB	5.48	1.62	1.53
1	m	458	PHE	N-CA	-5.48	1.39	1.46
1	p	267	ASN	CA-CB	5.48	1.62	1.53
1	v	263	VAL	CA-CB	-5.48	1.47	1.53
1	z	290	ILE	CA-C	5.48	1.59	1.52
1	0	538	HIS	CB-CG	5.47	1.57	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8	553	ILE	C-N	5.47	1.41	1.33
1	f	553	ILE	CB-CG1	5.47	1.64	1.53
1	i	98	ARG	CA-CB	5.47	1.62	1.53
1	i	124	ILE	CA-CB	5.47	1.61	1.54
1	n	211	LEU	C-N	5.47	1.40	1.33
1	s	453	LYS	CA-C	5.47	1.59	1.52
1	y	523	ALA	CA-C	5.47	1.59	1.52
1	Q	549	VAL	CA-CB	-5.47	1.48	1.54
1	X	149	ILE	N-CA	5.47	1.53	1.46
1	c	531	PHE	CA-CB	5.47	1.61	1.53
1	c	698	ARG	C-O	-5.47	1.17	1.24
1	u	574	MET	CA-C	5.47	1.59	1.52
1	x	147	SER	CA-CB	5.47	1.62	1.53
1	x	358	VAL	CA-C	-5.47	1.45	1.52
1	C	504	ILE	C-N	5.47	1.40	1.33
1	S	593	ARG	NE-CZ	-5.47	1.27	1.33
1	H	525	GLU	N-CA	5.47	1.52	1.46
1	P	191	HIS	ND1-CE1	5.47	1.38	1.32
1	R	168	ALA	C-N	5.47	1.41	1.33
1	S	498	TYR	CB-CG	5.47	1.63	1.51
1	5	342	ALA	CA-C	5.47	1.59	1.52
1	h	200	ASN	CA-CB	5.47	1.61	1.53
1	i	584	ILE	CA-CB	-5.47	1.45	1.54
1	k	667	GLN	N-CA	-5.47	1.38	1.46
1	r	460	ASN	C-N	5.47	1.41	1.33
1	w	227	PRO	CA-CB	5.47	1.61	1.53
1	D	231	ARG	CZ-NH2	-5.47	1.26	1.33
1	F	392	GLN	CA-CB	5.47	1.61	1.53
1	L	304	GLU	C-O	-5.47	1.17	1.24
1	Q	301	ARG	CD-NE	5.47	1.53	1.46
1	T	554	GLU	CA-C	-5.47	1.45	1.52
1	T	697	TYR	CA-CB	5.47	1.61	1.53
1	q	395	GLU	C-O	-5.47	1.17	1.24
1	M	333	ILE	CA-C	-5.47	1.46	1.52
1	2	283	ASP	C-N	-5.47	1.27	1.34
1	7	318	LEU	CB-CG	5.47	1.64	1.53
1	d	134	VAL	CA-C	5.47	1.59	1.52
1	u	418	LYS	C-N	5.47	1.40	1.33
1	G	316	TYR	CA-CB	5.47	1.61	1.53
1	I	174	ARG	CD-NE	5.47	1.53	1.46
1	O	127	GLN	CA-C	5.47	1.60	1.52
1	P	180	LEU	CA-CB	5.47	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	T	645	ILE	CA-C	5.47	1.57	1.52
1	3	551	SER	CA-C	5.46	1.59	1.52
1	4	560	HIS	ND1-CE1	5.46	1.38	1.32
1	4	682	GLN	CA-CB	5.46	1.61	1.53
1	9	590	LYS	CA-CB	5.46	1.61	1.53
1	m	501	PHE	CA-C	5.46	1.59	1.52
1	o	402	GLU	C-N	5.46	1.41	1.34
1	q	535	ALA	C-N	5.46	1.40	1.33
1	K	455	ARG	CA-CB	5.46	1.61	1.53
1	N	682	GLN	CA-C	5.46	1.59	1.52
1	Z	443	VAL	CA-CB	-5.46	1.48	1.54
1	3	224	ILE	CA-C	5.46	1.59	1.52
1	4	558	VAL	C-N	5.46	1.41	1.33
1	a	176	THR	CA-CB	5.46	1.60	1.53
1	o	220	ASP	CA-C	5.46	1.59	1.52
1	l	203	GLY	C-N	5.46	1.40	1.33
1	D	217	GLU	C-O	5.46	1.30	1.24
1	M	150	VAL	CA-CB	-5.46	1.45	1.55
1	o	668	ILE	C-O	-5.46	1.17	1.24
1	B	443	VAL	CA-CB	5.46	1.60	1.54
1	W	477	HIS	CA-C	-5.46	1.45	1.52
1	9	164	CYS	CA-C	5.46	1.61	1.53
1	m	450	LEU	C-N	5.46	1.41	1.34
1	n	380	MET	C-N	5.46	1.41	1.33
1	p	553	ILE	C-O	-5.46	1.18	1.24
1	t	691	ILE	CA-C	5.46	1.59	1.52
1	G	497	ASN	CA-CB	5.46	1.60	1.53
1	O	518	SER	CA-C	5.46	1.59	1.52
1	P	407	CYS	CA-CB	5.46	1.60	1.53
1	S	422	LEU	CA-C	5.46	1.59	1.52
1	X	124	ILE	CA-C	5.46	1.59	1.52
1	2	556	ILE	N-CA	5.46	1.53	1.46
1	k	568	ILE	C-N	5.46	1.41	1.33
1	m	106	SER	C-O	5.46	1.30	1.24
1	p	502	GLU	CA-C	5.46	1.59	1.52
1	q	132	SER	C-N	5.46	1.41	1.33
1	w	424	GLU	CA-C	-5.46	1.45	1.52
1	A	311	VAL	CA-CB	5.46	1.60	1.54
1	D	110	LEU	CA-C	5.46	1.60	1.52
1	F	437	VAL	CA-CB	-5.46	1.48	1.54
1	F	474	ASN	CA-CB	5.46	1.62	1.53
1	G	265	PRO	CA-C	-5.46	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	152	ARG	CD-NE	5.46	1.53	1.46
1	Q	209	ILE	CA-CB	5.46	1.60	1.54
1	V	541	GLU	N-CA	-5.46	1.39	1.46
1	4	235	ASP	CA-C	5.46	1.60	1.52
1	f	631	ASN	CA-C	-5.46	1.45	1.52
1	g	645	ILE	CA-CB	5.46	1.61	1.54
1	u	214	THR	CB-OG1	-5.46	1.35	1.43
1	w	690	ARG	C-N	5.46	1.40	1.33
1	C	94	GLU	CA-C	-5.46	1.45	1.52
1	E	159	LEU	CA-C	-5.46	1.46	1.52
1	G	337	LEU	C-N	5.46	1.40	1.33
1	S	474	ASN	CA-CB	5.46	1.61	1.53
1	2	357	ARG	N-CA	-5.45	1.39	1.46
1	6	210	SER	C-N	5.45	1.40	1.33
1	9	635	LEU	C-O	5.45	1.30	1.24
1	p	312	ARG	CZ-NH2	-5.45	1.26	1.33
1	x	443	VAL	CA-CB	-5.45	1.47	1.54
1	y	136	GLU	CA-CB	5.45	1.61	1.53
1	z	412	PRO	CA-CB	5.45	1.61	1.53
1	C	689	ARG	N-CA	5.45	1.52	1.46
1	H	404	LEU	CA-CB	5.45	1.61	1.53
1	K	531	PHE	CA-C	5.45	1.59	1.52
1	R	548	THR	N-CA	5.45	1.52	1.46
1	s	674	ARG	CD-NE	5.45	1.53	1.46
1	A	528	GLN	N-CA	5.45	1.52	1.46
1	M	548	THR	CA-CB	5.45	1.61	1.53
1	w	629	HIS	C-N	5.45	1.41	1.33
1	z	252	TYR	C-N	5.45	1.40	1.34
1	B	691	ILE	C-N	5.45	1.41	1.33
1	C	468	ASN	N-CA	-5.45	1.39	1.46
1	E	197	MET	N-CA	-5.45	1.38	1.46
1	E	219	PRO	CA-C	5.45	1.60	1.52
1	F	144	PRO	CA-C	5.45	1.60	1.52
1	I	302	GLY	C-N	5.45	1.41	1.33
1	Q	177	GLU	CA-CB	5.45	1.63	1.53
1	U	379	ILE	CA-C	-5.45	1.45	1.52
1	0	358	VAL	CA-CB	-5.45	1.48	1.54
1	3	560	HIS	CB-CG	-5.45	1.42	1.50
1	4	448	THR	C-N	5.45	1.40	1.33
1	6	132	SER	CA-C	-5.45	1.45	1.52
1	b	706	LEU	CA-C	5.45	1.59	1.52
1	d	132	SER	N-CA	5.45	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	m	161	LYS	CA-C	-5.45	1.45	1.52
1	s	243	LEU	CA-CB	5.45	1.61	1.53
1	A	295	LYS	CA-CB	-5.45	1.44	1.53
1	D	439	GLY	N-CA	5.45	1.53	1.45
1	H	339	LEU	CA-CB	5.45	1.61	1.53
1	0	164	CYS	CA-C	-5.45	1.45	1.52
1	c	123	VAL	CA-CB	5.45	1.60	1.54
1	h	498	TYR	CA-C	5.45	1.60	1.52
1	E	137	ALA	CA-C	5.45	1.59	1.52
1	O	223	ILE	CA-CB	-5.45	1.47	1.54
1	W	549	VAL	C-N	5.45	1.41	1.33
1	2	554	GLU	CA-CB	5.45	1.61	1.53
1	3	676	SER	CA-CB	5.45	1.61	1.53
1	d	448	THR	C-N	5.45	1.41	1.33
1	e	300	ASP	N-CA	5.45	1.53	1.46
1	n	423	ILE	N-CA	-5.45	1.40	1.46
1	r	226	LEU	C-O	5.45	1.28	1.24
1	A	708	GLN	CA-C	5.45	1.59	1.52
1	H	191	HIS	CG-ND1	-5.45	1.32	1.38
1	S	429	PHE	CA-CB	5.45	1.61	1.53
1	Z	301	ARG	C-N	5.45	1.40	1.34
1	6	649	ILE	CA-CB	-5.44	1.48	1.54
1	m	641	LEU	C-N	5.44	1.41	1.33
1	z	265	PRO	CA-C	5.44	1.60	1.52
1	D	455	ARG	CD-NE	5.44	1.53	1.46
1	1	173	TYR	CA-CB	5.44	1.62	1.53
1	5	143	LEU	CA-C	5.44	1.59	1.52
1	8	571	GLN	C-N	5.44	1.41	1.33
1	n	690	ARG	CA-C	5.44	1.59	1.52
1	y	560	HIS	ND1-CE1	5.44	1.38	1.32
1	D	221	LEU	N-CA	-5.44	1.39	1.46
1	U	233	ALA	CA-C	5.44	1.60	1.53
1	Z	639	LYS	CA-CB	5.44	1.61	1.53
1	0	162	GLN	CA-C	5.44	1.59	1.52
1	4	577	MET	C-N	5.44	1.40	1.33
1	b	195	ASN	CA-CB	5.44	1.61	1.53
1	d	699	LEU	C-N	5.44	1.41	1.33
1	e	153	CYS	C-N	-5.44	1.26	1.33
1	g	136	GLU	CA-CB	5.44	1.63	1.53
1	h	165	GLU	N-CA	5.44	1.52	1.46
1	A	587	VAL	CA-CB	-5.44	1.47	1.54
1	F	560	HIS	C-N	-5.44	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	423	ILE	CA-C	5.44	1.59	1.52
1	V	623	PHE	C-O	-5.44	1.17	1.24
1	Y	529	GLN	CA-C	5.44	1.59	1.52
1	B	697	TYR	CA-C	5.44	1.59	1.52
1	3	646	PRO	C-N	5.44	1.41	1.34
1	7	538	HIS	CA-C	-5.44	1.46	1.52
1	9	100	CYS	C-O	5.44	1.30	1.24
1	p	367	VAL	CA-C	5.44	1.58	1.52
1	s	521	GLN	CA-CB	5.44	1.61	1.53
1	G	133	SER	C-N	5.44	1.40	1.33
1	J	244	GLN	C-N	5.44	1.40	1.33
1	N	191	HIS	CB-CG	5.44	1.57	1.50
1	P	525	GLU	CA-CB	5.44	1.61	1.53
1	X	98	ARG	CA-CB	5.44	1.60	1.53
1	X	191	HIS	N-CA	-5.44	1.40	1.46
1	2	386	LEU	CA-C	5.44	1.59	1.52
1	9	498	TYR	C-N	5.44	1.41	1.33
1	b	395	GLU	C-N	5.44	1.41	1.33
1	m	423	ILE	C-O	-5.44	1.17	1.24
1	w	103	LEU	CB-CG	-5.44	1.42	1.53
1	I	241	ILE	C-N	5.44	1.40	1.33
1	X	694	GLU	CA-CB	5.44	1.61	1.53
1	1	578	VAL	CA-C	5.43	1.58	1.52
1	4	129	SER	C-N	-5.43	1.25	1.33
1	f	565	GLU	CA-CB	5.43	1.61	1.53
1	g	255	ARG	CA-C	5.43	1.59	1.52
1	p	703	ARG	CD-NE	5.43	1.53	1.46
1	r	140	GLY	CA-C	5.43	1.59	1.51
1	B	399	LYS	CA-C	-5.43	1.46	1.52
1	E	350	PHE	C-N	-5.43	1.26	1.33
1	S	492	LEU	C-O	5.43	1.30	1.24
1	T	289	THR	C-N	5.43	1.40	1.33
1	W	97	VAL	CA-CB	5.43	1.61	1.54
1	c	411	ILE	CA-C	-5.43	1.47	1.52
1	d	103	LEU	N-CA	-5.43	1.39	1.46
1	f	124	ILE	CA-C	5.43	1.59	1.52
1	f	321	GLY	CA-C	-5.43	1.44	1.51
1	g	448	THR	CA-CB	5.43	1.61	1.53
1	h	518	SER	N-CA	-5.43	1.39	1.46
1	J	484	GLU	C-N	5.43	1.41	1.34
1	X	450	LEU	C-N	5.43	1.41	1.33
1	Y	480	VAL	N-CA	5.43	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	511	GLN	CA-CB	5.43	1.62	1.53
1	9	655	ARG	NE-CZ	5.43	1.39	1.33
1	n	95	GLN	N-CA	-5.43	1.40	1.46
1	t	632	ALA	C-N	5.43	1.41	1.33
1	w	410	ASP	CA-CB	5.43	1.62	1.53
1	F	419	MET	N-CA	-5.43	1.40	1.46
1	J	276	LEU	CA-C	-5.43	1.45	1.52
1	M	170	ARG	CD-NE	5.43	1.53	1.46
1	1	128	SER	CA-CB	5.43	1.61	1.53
1	3	335	ASN	N-CA	-5.43	1.39	1.46
1	f	201	GLY	C-N	5.43	1.41	1.33
1	g	165	GLU	CA-C	-5.43	1.46	1.52
1	z	98	ARG	CD-NE	5.43	1.53	1.46
1	C	556	ILE	C-N	5.43	1.41	1.34
1	F	308	MET	N-CA	-5.43	1.39	1.46
1	G	459	LYS	CA-CB	5.43	1.62	1.53
1	U	671	GLU	N-CA	5.43	1.52	1.46
1	0	144	PRO	CA-C	-5.43	1.45	1.52
1	3	674	ARG	CD-NE	5.43	1.53	1.46
1	9	393	ILE	CA-CB	5.43	1.60	1.54
1	a	206	HIS	CG-CD2	5.43	1.41	1.35
1	q	467	THR	N-CA	5.43	1.52	1.46
1	r	481	GLU	CA-C	5.43	1.60	1.52
1	u	162	GLN	N-CA	-5.43	1.40	1.45
1	E	257	GLN	N-CA	-5.43	1.38	1.46
1	F	415	GLU	CA-CB	5.43	1.61	1.53
1	J	690	ARG	NE-CZ	5.43	1.39	1.33
1	2	580	CYS	C-O	-5.43	1.17	1.23
1	3	692	LEU	CA-CB	-5.43	1.45	1.53
1	9	270	ILE	CA-CB	5.43	1.60	1.54
1	i	502	GLU	CA-C	-5.43	1.45	1.52
1	i	588	VAL	C-N	5.43	1.41	1.33
1	k	379	ILE	CA-CB	-5.43	1.47	1.54
1	n	369	ARG	CD-NE	5.43	1.53	1.46
1	B	579	PHE	N-CA	-5.43	1.39	1.46
1	E	512	LEU	N-CA	-5.43	1.38	1.46
1	E	695	ARG	CD-NE	5.43	1.53	1.46
1	R	645	ILE	CA-C	5.43	1.58	1.52
1	V	556	ILE	CA-CB	5.43	1.61	1.54
1	Y	428	MET	C-N	5.43	1.40	1.33
1	0	379	ILE	C-N	5.42	1.40	1.33
1	1	689	ARG	CD-NE	5.42	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d	98	ARG	CA-CB	5.42	1.60	1.53
1	j	643	ASN	N-CA	5.42	1.53	1.46
1	u	690	ARG	CA-C	5.42	1.59	1.52
1	w	587	VAL	N-CA	5.42	1.53	1.46
1	F	124	ILE	CA-CB	-5.42	1.47	1.54
1	F	275	ALA	N-CA	-5.42	1.39	1.46
1	J	192	LYS	CA-CB	5.42	1.61	1.53
1	K	290	ILE	CA-C	5.42	1.59	1.52
1	T	349	PHE	N-CA	-5.42	1.40	1.46
1	Z	190	ILE	C-N	5.42	1.41	1.33
1	7	195	ASN	CA-CB	5.42	1.61	1.53
1	a	264	VAL	CA-C	5.42	1.57	1.52
1	e	449	ARG	CA-CB	5.42	1.62	1.53
1	h	679	LEU	CA-CB	5.42	1.60	1.52
1	l	685	THR	CA-C	-5.42	1.45	1.52
1	u	272	THR	N-CA	5.42	1.52	1.46
1	J	366	THR	C-N	5.42	1.39	1.33
1	R	312	ARG	NE-CZ	-5.42	1.27	1.33
1	W	311	VAL	N-CA	5.42	1.53	1.46
1	b	306	SER	CA-CB	5.42	1.61	1.53
1	d	324	ILE	CA-C	-5.42	1.45	1.52
1	i	420	PHE	CA-C	-5.42	1.45	1.52
1	o	301	ARG	CD-NE	5.42	1.53	1.46
1	q	109	ALA	CA-CB	5.42	1.61	1.53
1	F	120	ALA	N-CA	-5.42	1.39	1.46
1	J	499	LYS	CA-C	5.42	1.59	1.52
1	6	530	ALA	N-CA	5.42	1.52	1.46
1	y	348	THR	C-N	5.42	1.40	1.33
1	B	223	ILE	CA-C	5.42	1.59	1.52
1	O	648	ILE	C-N	5.42	1.40	1.33
1	h	264	VAL	CA-CB	-5.42	1.49	1.54
1	i	488	ARG	C-O	5.42	1.30	1.24
1	s	701	GLN	CA-CB	5.42	1.61	1.53
1	t	280	HIS	CD2-NE2	5.42	1.43	1.37
1	t	645	ILE	CA-CB	5.42	1.57	1.54
1	u	557	LYS	C-N	5.42	1.40	1.33
1	w	238	PRO	CA-C	5.42	1.60	1.52
1	F	574	MET	CA-CB	5.42	1.61	1.53
1	I	259	ILE	CA-CB	-5.42	1.47	1.54
1	X	335	ASN	CA-CB	5.42	1.62	1.53
1	k	405	ARG	CA-C	5.42	1.60	1.52
1	p	585	TYR	CA-CB	5.42	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	551	SER	C-N	5.42	1.41	1.34
1	f	539	PHE	C-N	5.42	1.40	1.33
1	m	253	ILE	N-CA	5.42	1.53	1.46
1	C	255	ARG	CA-C	-5.42	1.46	1.52
1	a	578	VAL	N-CA	-5.41	1.39	1.46
1	d	299	MET	CA-C	5.41	1.59	1.52
1	g	411	ILE	CA-C	5.41	1.58	1.52
1	g	491	GLU	C-N	5.41	1.41	1.33
1	k	140	GLY	C-N	5.41	1.42	1.33
1	l	248	LEU	C-N	5.41	1.40	1.33
1	q	403	GLU	N-CA	-5.41	1.40	1.46
1	u	542	PHE	C-N	5.41	1.41	1.33
1	w	557	LYS	C-N	5.41	1.40	1.33
1	x	229	ILE	CA-CB	5.41	1.61	1.54
1	z	546	ASN	CA-CB	5.41	1.61	1.53
1	A	547	GLN	CA-CB	5.41	1.61	1.53
1	H	549	VAL	CA-CB	-5.41	1.47	1.54
1	P	368	PRO	CA-C	5.41	1.57	1.53
1	U	280	HIS	CA-CB	5.41	1.61	1.53
1	U	397	HIS	CB-CG	5.41	1.57	1.50
1	1	559	LYS	CA-CB	5.41	1.61	1.53
1	9	170	ARG	CA-C	-5.41	1.46	1.52
1	l	510	GLN	C-N	5.41	1.41	1.33
1	o	378	LEU	CA-CB	5.41	1.61	1.53
1	w	374	LEU	C-N	5.41	1.40	1.33
1	Q	412	PRO	CA-CB	-5.41	1.46	1.53
1	R	655	ARG	CZ-NH2	-5.41	1.26	1.33
1	3	688	LYS	N-CA	5.41	1.53	1.46
1	h	245	ILE	C-N	5.41	1.41	1.33
1	i	666	MET	CA-C	5.41	1.60	1.52
1	o	222	THR	CA-CB	5.41	1.60	1.53
1	u	93	TYR	N-CA	5.41	1.56	1.46
1	u	461	TRP	NE1-CE2	5.41	1.43	1.37
1	w	112	VAL	N-CA	5.41	1.52	1.46
1	z	216	PRO	N-CD	-5.41	1.40	1.47
1	C	629	HIS	CB-CG	5.41	1.57	1.50
1	G	664	ALA	CA-C	-5.41	1.45	1.52
1	I	272	THR	C-N	5.41	1.41	1.33
1	J	512	LEU	N-CA	5.41	1.53	1.46
1	P	392	GLN	C-N	5.41	1.40	1.33
1	U	201	GLY	CA-C	-5.41	1.44	1.51
1	U	392	GLN	CA-CB	5.41	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c	489	GLY	N-CA	-5.41	1.38	1.45
1	f	520	LEU	CA-C	5.41	1.59	1.52
1	f	556	ILE	CA-CB	-5.41	1.48	1.54
1	f	666	MET	CA-CB	5.41	1.62	1.53
1	k	161	LYS	CA-CB	5.41	1.60	1.53
1	l	708	GLN	C-O	-5.41	1.17	1.24
1	n	389	LEU	CA-CB	5.41	1.61	1.53
1	o	431	GLN	CA-C	5.41	1.60	1.52
1	p	141	VAL	CA-CB	-5.41	1.47	1.54
1	w	397	HIS	C-N	5.41	1.40	1.33
1	D	446	ASN	C-N	5.41	1.40	1.33
1	K	530	ALA	C-N	-5.41	1.27	1.33
1	P	301	ARG	CA-C	-5.41	1.45	1.52
1	P	513	VAL	CA-C	-5.41	1.46	1.52
1	Q	392	GLN	N-CA	-5.41	1.39	1.46
1	S	235	ASP	N-CA	5.41	1.53	1.46
1	T	648	ILE	CA-C	5.41	1.59	1.52
1	U	639	LYS	N-CA	-5.41	1.39	1.46
1	0	635	LEU	N-CA	-5.41	1.40	1.46
1	p	347	ILE	N-CA	5.41	1.53	1.46
1	A	171	ILE	N-CA	-5.41	1.39	1.46
1	O	107	LEU	CA-CB	5.41	1.61	1.53
1	d	108	ARG	NE-CZ	-5.41	1.27	1.33
1	m	633	TYR	CA-C	5.41	1.59	1.52
1	n	499	LYS	C-O	5.41	1.30	1.24
1	C	260	ASN	CA-C	5.41	1.59	1.52
1	M	629	HIS	ND1-CE1	5.41	1.38	1.32
1	O	367	VAL	CA-C	5.41	1.57	1.52
1	S	668	ILE	CA-CB	-5.41	1.47	1.54
1	U	142	ALA	CA-C	5.41	1.58	1.53
1	Y	504	ILE	CA-CB	-5.41	1.47	1.54
1	3	570	LEU	C-O	-5.40	1.17	1.24
1	4	236	ASN	CA-C	-5.40	1.45	1.52
1	c	549	VAL	CA-C	-5.40	1.46	1.52
1	d	116	LEU	N-CA	-5.40	1.39	1.45
1	g	356	PHE	C-O	-5.40	1.17	1.24
1	p	483	TYR	CA-CB	5.40	1.60	1.53
1	t	473	LYS	CA-CB	5.40	1.62	1.53
1	z	228	GLY	CA-C	-5.40	1.44	1.51
1	A	231	ARG	CD-NE	5.40	1.53	1.46
1	A	458	PHE	N-CA	-5.40	1.39	1.46
1	D	347	ILE	C-O	5.40	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Q	703	ARG	N-CA	-5.40	1.39	1.46
1	2	345	LYS	CA-C	5.40	1.59	1.52
1	a	516	ALA	C-N	5.40	1.41	1.34
1	d	190	ILE	CA-CB	-5.40	1.47	1.54
1	d	231	ARG	CA-C	5.40	1.60	1.52
1	g	521	GLN	CA-C	-5.40	1.46	1.52
1	h	405	ARG	CD-NE	5.40	1.53	1.46
1	k	517	LEU	CA-C	5.40	1.60	1.52
1	q	227	PRO	CA-C	5.40	1.58	1.52
1	u	461	TRP	CZ2-CH2	5.40	1.47	1.37
1	G	105	ASP	CA-C	5.40	1.59	1.52
1	N	470	GLN	CA-C	-5.40	1.45	1.52
1	S	210	SER	N-CA	-5.40	1.39	1.46
1	U	194	GLN	CA-C	5.40	1.59	1.52
1	e	267	ASN	C-N	5.40	1.40	1.33
1	i	188	LYS	C-O	-5.40	1.17	1.24
1	l	484	GLU	C-N	5.40	1.41	1.33
1	n	581	GLN	N-CA	5.40	1.49	1.46
1	v	123	VAL	CA-CB	5.40	1.60	1.54
1	D	369	ARG	CZ-NH2	-5.40	1.26	1.33
1	G	696	ILE	N-CA	5.40	1.52	1.46
1	J	231	ARG	CA-C	5.40	1.60	1.52
1	S	329	GLY	N-CA	-5.40	1.38	1.45
1	W	359	LEU	CA-C	-5.40	1.45	1.52
1	j	496	VAL	CA-C	5.40	1.59	1.52
1	C	515	PRO	N-CA	-5.40	1.40	1.47
1	D	626	ILE	CA-CB	5.40	1.61	1.54
1	L	670	GLN	CA-C	5.40	1.60	1.52
1	2	503	ILE	CA-C	5.40	1.59	1.52
1	b	186	VAL	N-CA	5.40	1.52	1.46
1	b	371	ALA	N-CA	-5.40	1.39	1.46
1	b	596	ILE	N-CA	5.40	1.53	1.46
1	f	238	PRO	CA-C	5.40	1.60	1.52
1	f	267	ASN	CA-CB	5.40	1.62	1.53
1	x	522	LYS	CA-C	5.40	1.59	1.52
1	y	502	GLU	CA-C	5.40	1.59	1.52
1	E	385	SER	CA-C	-5.40	1.45	1.52
1	G	167	TRP	C-N	5.40	1.40	1.33
1	G	668	ILE	N-CA	-5.40	1.40	1.46
1	H	706	LEU	N-CA	5.40	1.52	1.46
1	I	210	SER	CA-CB	5.40	1.59	1.53
1	J	228	GLY	N-CA	-5.40	1.40	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	544	ASN	N-CA	-5.40	1.39	1.46
1	3	376	THR	CA-CB	-5.40	1.45	1.53
1	h	703	ARG	CA-C	5.40	1.59	1.52
1	B	93	TYR	N-CA	5.40	1.56	1.46
1	B	426	ILE	CA-C	-5.40	1.45	1.52
1	Z	550	GLN	CA-CB	5.40	1.61	1.53
1	4	206	HIS	CD2-NE2	5.39	1.43	1.37
1	c	191	HIS	CE1-NE2	5.39	1.38	1.32
1	k	96	LYS	C-O	-5.39	1.17	1.23
1	k	369	ARG	CA-CB	5.39	1.61	1.53
1	p	585	TYR	C-N	-5.39	1.26	1.33
1	t	304	GLU	CA-CB	5.39	1.61	1.53
1	F	108	ARG	CD-NE	5.39	1.53	1.46
1	N	497	ASN	N-CA	-5.39	1.39	1.46
1	O	401	THR	CA-C	5.39	1.59	1.52
1	R	582	ASP	N-CA	5.39	1.53	1.46
1	U	271	ALA	CA-CB	5.39	1.61	1.53
1	2	169	GLY	N-CA	5.39	1.53	1.46
1	3	664	ALA	CA-C	5.39	1.60	1.52
1	4	165	GLU	CA-C	5.39	1.59	1.52
1	5	424	GLU	CA-CB	5.39	1.61	1.53
1	7	353	HIS	ND1-CE1	5.39	1.38	1.32
1	e	233	ALA	CA-C	5.39	1.59	1.52
1	f	243	LEU	CA-C	5.39	1.59	1.52
1	x	320	LYS	CA-CB	5.39	1.62	1.53
1	z	375	THR	C-N	5.39	1.40	1.33
1	A	402	GLU	C-O	-5.39	1.17	1.24
1	G	123	VAL	CA-C	5.39	1.59	1.52
1	J	372	GLU	CA-C	5.39	1.59	1.52
1	K	217	GLU	CA-C	-5.39	1.45	1.52
1	K	526	ILE	CA-C	5.39	1.59	1.52
1	R	704	HIS	CA-C	-5.39	1.45	1.52
1	X	574	MET	CG-SD	5.39	1.94	1.80
1	Z	259	ILE	N-CA	-5.39	1.40	1.46
1	6	403	GLU	CA-C	-5.39	1.45	1.52
1	n	328	ARG	CA-C	5.39	1.60	1.52
1	x	204	ILE	N-CA	5.39	1.53	1.46
1	0	242	GLY	N-CA	5.39	1.52	1.45
1	3	175	ASN	CA-CB	5.39	1.61	1.54
1	6	315	THR	CA-C	-5.39	1.45	1.52
1	9	165	GLU	C-N	5.39	1.40	1.33
1	e	254	GLN	C-O	-5.39	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h	433	ILE	CA-CB	5.39	1.61	1.54
1	m	161	LYS	C-N	5.39	1.40	1.33
1	v	487	TYR	CA-CB	5.39	1.62	1.53
1	w	383	GLN	N-CA	5.39	1.52	1.46
1	x	662	GLN	CA-CB	5.39	1.61	1.53
1	F	206	HIS	N-CA	5.39	1.53	1.46
1	F	421	PHE	CA-C	5.39	1.59	1.52
1	J	406	ARG	CA-C	5.39	1.60	1.52
1	R	285	GLU	N-CA	-5.39	1.38	1.45
1	U	374	LEU	C-N	5.39	1.40	1.33
1	U	548	THR	CA-CB	5.39	1.61	1.53
1	D	122	ALA	N-CA	-5.39	1.39	1.46
1	H	369	ARG	CD-NE	5.39	1.53	1.46
1	X	396	SER	C-N	5.39	1.40	1.33
1	3	498	TYR	CA-C	-5.39	1.45	1.52
1	g	406	ARG	CA-CB	5.39	1.62	1.53
1	h	397	HIS	ND1-CE1	5.39	1.38	1.32
1	l	162	GLN	N-CA	5.39	1.51	1.45
1	r	214	THR	C-N	5.39	1.39	1.33
1	t	466	ALA	CA-C	5.39	1.59	1.52
1	E	255	ARG	N-CA	-5.39	1.39	1.46
1	K	181	GLN	CA-C	5.39	1.58	1.53
1	N	244	GLN	C-N	5.39	1.40	1.33
1	R	297	ASP	CA-CB	5.39	1.63	1.53
1	X	299	MET	N-CA	5.39	1.53	1.46
1	0	666	MET	SD-CE	5.38	1.93	1.79
1	6	226	LEU	CA-CB	5.38	1.62	1.52
1	o	252	TYR	C-N	5.38	1.39	1.34
1	r	310	VAL	C-N	5.38	1.40	1.33
1	u	657	ASN	C-N	5.38	1.40	1.33
1	v	202	ARG	CA-C	-5.38	1.45	1.52
1	I	271	ALA	N-CA	-5.38	1.39	1.46
1	N	403	GLU	CA-C	5.38	1.59	1.52
1	P	181	GLN	CA-C	5.38	1.59	1.52
1	S	282	VAL	C-N	-5.38	1.26	1.33
1	U	280	HIS	CG-CD2	5.38	1.41	1.35
1	0	138	LEU	CA-CB	5.38	1.63	1.53
1	6	227	PRO	CA-CB	5.38	1.61	1.53
1	7	659	ASP	CA-CB	5.38	1.62	1.53
1	9	380	MET	C-O	-5.38	1.17	1.24
1	a	596	ILE	CA-C	-5.38	1.46	1.52
1	e	364	SER	C-N	5.38	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l	461	TRP	N-CA	-5.38	1.39	1.46
1	A	178	LEU	CA-CB	5.38	1.60	1.53
1	S	703	ARG	C-N	5.38	1.41	1.33
1	4	657	ASN	CA-CB	5.38	1.61	1.53
1	c	178	LEU	CA-C	5.38	1.58	1.52
1	i	356	PHE	C-N	5.38	1.40	1.33
1	k	356	PHE	CA-CB	5.38	1.61	1.53
1	k	482	LYS	CA-C	-5.38	1.45	1.52
1	v	232	VAL	C-N	5.38	1.41	1.33
1	H	658	GLY	CA-C	-5.38	1.45	1.52
1	W	131	LYS	C-N	5.38	1.41	1.33
1	1	491	GLU	N-CA	5.38	1.53	1.46
1	8	572	PHE	CA-C	5.38	1.59	1.52
1	j	527	ILE	CA-C	-5.38	1.46	1.52
1	s	458	PHE	N-CA	-5.38	1.39	1.46
1	x	131	LYS	CA-CB	5.38	1.61	1.53
1	C	640	ARG	C-N	5.38	1.41	1.33
1	G	421	PHE	CA-C	5.38	1.59	1.52
1	L	273	THR	N-CA	-5.38	1.39	1.46
1	O	351	GLN	CA-C	5.38	1.59	1.52
1	V	198	ALA	C-N	5.38	1.40	1.33
1	1	291	GLY	N-CA	5.38	1.52	1.44
1	3	591	LYS	C-N	5.38	1.40	1.33
1	4	390	GLU	CA-C	5.38	1.59	1.52
1	g	488	ARG	CD-NE	5.38	1.53	1.46
1	i	153	CYS	CA-C	-5.38	1.46	1.52
1	i	217	GLU	C-N	5.38	1.39	1.33
1	j	689	ARG	CD-NE	5.38	1.53	1.46
1	p	598	ASN	CA-CB	5.38	1.64	1.53
1	p	694	GLU	C-O	-5.38	1.18	1.24
1	s	425	LYS	CA-C	5.38	1.60	1.52
1	x	635	LEU	CA-CB	5.38	1.61	1.53
1	E	109	ALA	CA-CB	5.38	1.61	1.53
1	H	655	ARG	CA-CB	5.38	1.61	1.53
1	J	284	PRO	C-O	-5.38	1.17	1.24
1	S	95	GLN	CA-CB	5.38	1.61	1.53
1	S	272	THR	CA-CB	-5.38	1.45	1.53
1	W	567	MET	N-CA	-5.38	1.39	1.46
1	X	687	THR	CA-CB	-5.38	1.45	1.53
1	4	424	GLU	CA-CB	5.38	1.61	1.53
1	7	481	GLU	CA-C	5.38	1.59	1.52
1	b	451	TYR	C-N	5.38	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e	141	VAL	CA-CB	5.38	1.60	1.54
1	u	285	GLU	C-N	5.38	1.40	1.33
1	v	405	ARG	NE-CZ	5.38	1.39	1.33
1	A	128	SER	CA-CB	5.38	1.62	1.53
1	C	263	VAL	C-N	5.38	1.37	1.33
1	H	235	ASP	CA-CB	5.38	1.62	1.53
1	S	677	TRP	CZ2-CH2	5.38	1.47	1.37
1	4	143	LEU	CA-C	5.38	1.58	1.53
1	n	337	LEU	CA-C	5.38	1.58	1.52
1	y	269	ASP	CA-C	5.38	1.59	1.52
1	C	134	VAL	CA-CB	-5.38	1.47	1.54
1	T	527	ILE	C-N	5.38	1.41	1.33
1	2	484	GLU	CA-C	-5.37	1.45	1.52
1	5	211	LEU	N-CA	-5.37	1.39	1.46
1	5	497	ASN	N-CA	-5.37	1.39	1.46
1	7	663	LYS	CA-C	5.37	1.59	1.52
1	j	543	PHE	C-O	-5.37	1.17	1.24
1	n	409	ALA	CA-C	5.37	1.59	1.52
1	p	343	THR	CA-CB	5.37	1.61	1.53
1	u	350	PHE	CA-CB	5.37	1.61	1.53
1	H	533	ASN	CA-CB	5.37	1.61	1.53
1	J	223	ILE	C-N	5.37	1.40	1.33
1	M	361	GLU	CA-C	-5.37	1.45	1.52
1	Y	531	PHE	N-CA	-5.37	1.39	1.46
1	3	107	LEU	C-N	5.37	1.41	1.33
1	4	442	VAL	N-CA	-5.37	1.40	1.46
1	6	573	ARG	CD-NE	5.37	1.53	1.46
1	a	536	LYS	CA-CB	5.37	1.61	1.53
1	b	424	GLU	C-N	5.37	1.41	1.33
1	f	325	VAL	C-N	5.37	1.40	1.33
1	i	103	LEU	CA-CB	5.37	1.61	1.53
1	s	591	LYS	C-N	5.37	1.40	1.34
1	u	627	GLY	CA-C	-5.37	1.44	1.51
1	B	466	ALA	C-N	5.37	1.40	1.33
1	F	227	PRO	N-CA	5.37	1.53	1.47
1	O	464	ILE	N-CA	5.37	1.52	1.46
1	P	476	ILE	CA-CB	5.37	1.61	1.54
1	R	559	LYS	C-O	5.37	1.30	1.24
1	W	591	LYS	C-N	5.37	1.40	1.33
1	X	380	MET	N-CA	-5.37	1.40	1.46
1	5	472	VAL	C-N	5.37	1.41	1.33
1	a	124	ILE	C-O	-5.37	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j	493	LEU	CA-CB	5.37	1.61	1.53
1	n	187	GLU	CA-CB	5.37	1.61	1.53
1	A	118	LEU	CA-C	5.37	1.59	1.52
1	K	252	TYR	C-N	5.37	1.40	1.33
1	K	511	GLN	CA-C	5.37	1.60	1.52
1	3	458	PHE	N-CA	-5.37	1.39	1.46
1	6	331	GLN	C-N	5.37	1.41	1.33
1	9	422	LEU	CB-CG	5.37	1.64	1.53
1	q	413	SER	CA-CB	5.37	1.62	1.53
1	w	387	PRO	C-N	5.37	1.40	1.33
1	y	200	ASN	CA-C	-5.37	1.46	1.53
1	G	234	VAL	CA-C	5.37	1.59	1.52
1	H	405	ARG	CD-NE	5.37	1.53	1.46
1	V	113	GLU	CA-CB	5.37	1.62	1.53
1	1	98	ARG	CA-CB	5.37	1.60	1.53
1	O	460	ASN	CA-CB	5.37	1.62	1.53
1	T	493	LEU	N-CA	-5.37	1.38	1.46
1	U	462	VAL	CA-CB	-5.37	1.47	1.54
1	8	476	ILE	CA-C	-5.37	1.46	1.52
1	j	385	SER	CA-C	-5.37	1.45	1.52
1	w	280	HIS	ND1-CE1	5.37	1.38	1.32
1	y	152	ARG	C-N	5.37	1.39	1.33
1	L	527	ILE	CA-C	5.37	1.59	1.52
1	U	648	ILE	CA-C	5.37	1.59	1.52
1	3	489	GLY	C-N	5.36	1.41	1.33
1	a	423	ILE	N-CA	5.36	1.52	1.46
1	k	538	HIS	CA-CB	5.36	1.61	1.54
1	o	415	GLU	CA-C	5.36	1.59	1.52
1	I	595	GLU	N-CA	5.36	1.52	1.46
1	J	592	VAL	CA-C	5.36	1.59	1.52
1	L	519	MET	N-CA	-5.36	1.39	1.46
1	g	167	TRP	CA-C	-5.36	1.46	1.52
1	w	207	GLU	N-CA	-5.36	1.39	1.46
1	D	641	LEU	C-N	5.36	1.40	1.33
1	V	183	PRO	N-CA	-5.36	1.40	1.47
1	7	570	LEU	N-CA	5.36	1.52	1.46
1	b	380	MET	CA-C	5.36	1.59	1.52
1	j	214	THR	N-CA	-5.36	1.40	1.46
1	j	590	LYS	CA-C	5.36	1.59	1.52
1	l	429	PHE	C-N	5.36	1.41	1.33
1	l	472	VAL	CA-C	5.36	1.59	1.52
1	o	99	PRO	CA-CB	5.36	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	s	122	ALA	CA-CB	5.36	1.60	1.53
1	A	264	VAL	C-N	5.36	1.40	1.33
1	H	128	SER	CA-CB	5.36	1.61	1.53
1	H	691	ILE	CA-C	5.36	1.59	1.52
1	I	657	ASN	CA-CB	5.36	1.61	1.53
1	Y	696	ILE	N-CA	5.36	1.52	1.46
1	l	530	ALA	CA-C	-5.36	1.46	1.52
1	9	691	ILE	CB-CG1	5.36	1.64	1.53
1	c	436	LEU	C-O	-5.36	1.18	1.24
1	f	392	GLN	C-N	5.36	1.40	1.33
1	h	307	VAL	C-N	5.36	1.40	1.33
1	y	436	LEU	CA-C	-5.36	1.45	1.52
1	z	195	ASN	C-N	5.36	1.40	1.33
1	I	166	ALA	CA-C	5.36	1.59	1.52
1	V	489	GLY	N-CA	5.36	1.52	1.45
1	Z	568	ILE	N-CA	5.36	1.52	1.46
1	c	532	ILE	C-O	-5.36	1.18	1.24
1	u	405	ARG	CA-CB	5.36	1.62	1.53
1	G	336	ARG	CD-NE	5.36	1.53	1.46
1	I	318	LEU	N-CA	5.36	1.52	1.46
1	M	531	PHE	N-CA	-5.36	1.40	1.46
1	Q	705	ALA	CA-C	5.36	1.59	1.52
1	R	424	GLU	CA-C	-5.36	1.45	1.52
1	T	369	ARG	C-N	5.36	1.41	1.34
1	U	644	GLN	CA-C	5.36	1.59	1.52
1	V	385	SER	C-N	5.36	1.40	1.33
1	X	259	ILE	C-N	5.36	1.40	1.33
1	X	465	LEU	C-N	5.36	1.41	1.33
1	2	431	GLN	CA-CB	5.36	1.61	1.53
1	2	472	VAL	N-CA	5.36	1.53	1.46
1	5	492	LEU	N-CA	5.36	1.53	1.46
1	b	567	MET	CA-CB	-5.36	1.44	1.53
1	c	297	ASP	CA-C	5.36	1.59	1.52
1	j	658	GLY	CA-C	-5.36	1.46	1.52
1	m	303	THR	N-CA	5.36	1.52	1.46
1	o	232	VAL	CA-C	5.36	1.59	1.52
1	I	704	HIS	ND1-CE1	5.36	1.38	1.32
1	X	144	PRO	N-CA	5.36	1.53	1.47
1	9	388	LEU	CA-CB	5.35	1.61	1.53
1	a	353	HIS	CA-C	5.35	1.58	1.52
1	d	560	HIS	CE1-NE2	-5.35	1.27	1.32
1	h	701	GLN	C-N	5.35	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	n	522	LYS	N-CA	-5.35	1.39	1.46
1	t	688	LYS	CA-C	5.35	1.59	1.52
1	A	144	PRO	CA-CB	5.35	1.60	1.53
1	B	551	SER	CA-CB	5.35	1.62	1.53
1	0	488	ARG	CD-NE	5.35	1.53	1.46
1	h	376	THR	CA-C	5.35	1.59	1.52
1	i	563	LYS	N-CA	5.35	1.52	1.46
1	o	473	LYS	N-CA	-5.35	1.39	1.46
1	w	216	PRO	C-N	5.35	1.41	1.33
1	x	215	SER	N-CA	5.35	1.51	1.46
1	F	492	LEU	CA-CB	5.35	1.61	1.53
1	T	481	GLU	CA-CB	5.35	1.61	1.53
1	W	416	ALA	CA-C	5.35	1.59	1.52
1	0	573	ARG	CD-NE	5.35	1.53	1.46
1	g	145	ARG	CD-NE	5.35	1.53	1.46
1	p	661	LEU	CA-C	5.35	1.59	1.52
1	q	213	ILE	CB-CG1	5.35	1.64	1.53
1	s	345	LYS	C-N	5.35	1.40	1.33
1	w	290	ILE	CA-CB	5.35	1.60	1.54
1	C	294	THR	CA-C	5.35	1.61	1.53
1	Q	460	ASN	CA-CB	5.35	1.61	1.53
1	3	431	GLN	N-CA	-5.35	1.39	1.46
1	4	505	VAL	N-CA	-5.35	1.40	1.46
1	9	415	GLU	CA-CB	5.35	1.61	1.53
1	b	352	THR	C-O	-5.35	1.18	1.24
1	b	361	GLU	CA-C	5.35	1.59	1.52
1	f	570	LEU	C-N	5.35	1.41	1.33
1	g	101	ILE	CB-CG1	5.35	1.64	1.53
1	k	394	ARG	N-CA	-5.35	1.39	1.46
1	o	145	ARG	CA-CB	5.35	1.62	1.53
1	o	380	MET	N-CA	5.35	1.52	1.46
1	o	651	TYR	CA-C	-5.35	1.46	1.52
1	t	253	ILE	N-CA	5.35	1.53	1.46
1	u	560	HIS	CD2-NE2	5.35	1.43	1.37
1	w	305	LYS	CA-C	5.35	1.60	1.52
1	y	489	GLY	C-N	5.35	1.40	1.33
1	G	333	ILE	CA-CB	-5.35	1.48	1.54
1	N	693	LYS	C-O	-5.35	1.18	1.24
1	Q	487	TYR	N-CA	-5.35	1.40	1.46
1	T	700	THR	CA-C	5.35	1.59	1.52
1	Z	213	ILE	N-CA	-5.35	1.39	1.46
1	2	675	TYR	C-N	5.35	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4	190	ILE	CA-C	-5.35	1.46	1.52
1	5	145	ARG	CD-NE	5.35	1.53	1.46
1	5	653	MET	CA-CB	5.35	1.61	1.53
1	b	678	LEU	C-N	5.35	1.40	1.33
1	d	140	GLY	C-N	5.35	1.41	1.33
1	d	231	ARG	NE-CZ	-5.35	1.27	1.33
1	f	555	ASP	CA-CB	5.35	1.61	1.53
1	g	336	ARG	CA-CB	5.35	1.61	1.53
1	h	153	CYS	CA-C	-5.35	1.47	1.52
1	i	704	HIS	C-O	5.35	1.30	1.24
1	j	254	GLN	C-N	5.35	1.40	1.33
1	j	357	ARG	CD-NE	5.35	1.53	1.46
1	p	395	GLU	CA-C	-5.35	1.45	1.52
1	B	472	VAL	CA-CB	5.35	1.60	1.54
1	E	703	ARG	CA-CB	5.35	1.61	1.53
1	M	321	GLY	C-N	5.35	1.40	1.33
1	P	211	LEU	CA-C	5.35	1.58	1.52
1	R	331	GLN	CA-C	5.35	1.59	1.52
1	R	384	LYS	C-N	5.35	1.41	1.33
1	V	636	GLU	N-CA	5.35	1.53	1.46
1	W	418	LYS	C-N	5.35	1.41	1.33
1	l	399	LYS	CA-C	5.35	1.59	1.52
1	d	376	THR	N-CA	-5.35	1.40	1.46
1	t	422	LEU	CA-C	-5.35	1.46	1.52
1	y	104	ILE	CA-C	5.35	1.59	1.52
1	C	528	GLN	C-O	-5.35	1.17	1.24
1	F	344	LYS	C-O	-5.35	1.18	1.24
1	V	502	GLU	CA-C	-5.35	1.46	1.52
1	2	438	GLU	CA-C	-5.34	1.45	1.52
1	9	379	ILE	N-CA	5.34	1.52	1.46
1	9	510	GLN	CA-CB	5.34	1.62	1.53
1	b	226	LEU	CA-CB	5.34	1.61	1.53
1	e	301	ARG	CD-NE	5.34	1.53	1.46
1	h	317	PRO	CA-C	5.34	1.59	1.52
1	i	630	LEU	C-N	5.34	1.41	1.33
1	k	560	HIS	CB-CG	5.34	1.57	1.50
1	t	109	ALA	N-CA	-5.34	1.39	1.46
1	A	265	PRO	CA-CB	5.34	1.60	1.53
1	D	212	GLU	CA-C	5.34	1.59	1.52
1	E	411	ILE	CA-CB	5.34	1.61	1.54
1	G	368	PRO	N-CD	-5.34	1.40	1.47
1	8	260	ASN	CA-C	5.34	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i	689	ARG	CD-NE	5.34	1.53	1.46
1	o	175	ASN	N-CA	-5.34	1.38	1.46
1	u	251	LYS	C-N	5.34	1.41	1.33
1	y	111	GLY	C-O	-5.34	1.18	1.24
1	I	181	GLN	CA-CB	5.34	1.61	1.53
1	M	127	GLN	CA-C	5.34	1.59	1.52
1	o	207	GLU	C-N	5.34	1.41	1.33
1	v	191	HIS	CG-ND1	-5.34	1.32	1.38
1	v	366	THR	N-CA	5.34	1.53	1.46
1	v	393	ILE	C-N	5.34	1.40	1.33
1	x	534	VAL	CA-C	-5.34	1.46	1.52
1	z	373	ARG	CA-C	5.34	1.59	1.52
1	z	549	VAL	C-O	-5.34	1.18	1.24
1	H	397	HIS	CB-CG	-5.34	1.42	1.50
1	J	163	PRO	C-O	-5.34	1.18	1.24
1	N	593	ARG	CA-CB	5.34	1.62	1.53
1	S	123	VAL	CA-C	5.34	1.59	1.52
1	U	704	HIS	C-N	5.34	1.41	1.34
1	j	553	ILE	N-CA	5.34	1.52	1.46
1	m	126	ASP	C-N	5.34	1.40	1.33
1	m	321	GLY	N-CA	5.34	1.55	1.45
1	p	229	ILE	C-N	5.34	1.42	1.33
1	r	629	HIS	ND1-CE1	5.34	1.37	1.32
1	w	191	HIS	CE1-NE2	5.34	1.37	1.32
1	G	633	TYR	CA-CB	5.34	1.61	1.53
1	I	477	HIS	CA-CB	5.34	1.62	1.53
1	N	506	HIS	CA-C	-5.34	1.46	1.52
1	Y	405	ARG	CD-NE	5.34	1.53	1.46
1	Z	435	LYS	CA-CB	5.34	1.61	1.53
1	l	214	THR	CA-C	-5.34	1.46	1.52
1	i	542	PHE	N-CA	-5.34	1.40	1.46
1	p	167	TRP	CA-CB	5.34	1.62	1.53
1	q	706	LEU	C-N	5.34	1.41	1.33
1	D	480	VAL	CA-CB	-5.34	1.47	1.54
1	E	673	ASN	N-CA	-5.34	1.39	1.46
1	H	206	HIS	CB-CG	5.34	1.57	1.50
1	K	466	ALA	C-O	-5.34	1.17	1.24
1	N	652	PHE	N-CA	5.34	1.52	1.46
1	S	646	PRO	C-N	5.34	1.41	1.33
1	T	246	LYS	C-N	5.34	1.41	1.34
1	7	498	TYR	N-CA	-5.34	1.40	1.46
1	9	352	THR	C-N	5.34	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g	560	HIS	CG-ND1	-5.34	1.32	1.38
1	h	348	THR	C-N	5.34	1.40	1.33
1	i	275	ALA	C-N	5.34	1.41	1.33
1	j	653	MET	CA-C	-5.34	1.45	1.52
1	n	179	GLU	N-CA	-5.34	1.38	1.46
1	z	349	PHE	C-N	5.34	1.41	1.33
1	A	492	LEU	CB-CG	5.34	1.64	1.53
1	O	167	TRP	NE1-CE2	-5.34	1.31	1.37
1	Q	217	GLU	C-O	-5.34	1.17	1.24
1	k	158	LYS	CA-CB	5.33	1.60	1.53
1	q	267	ASN	CA-CB	5.33	1.62	1.53
1	u	318	LEU	CA-C	5.33	1.59	1.52
1	P	455	ARG	CD-NE	5.33	1.53	1.46
1	Y	145	ARG	CD-NE	5.33	1.53	1.46
1	Z	381	HIS	CA-C	5.33	1.59	1.52
1	3	544	ASN	CA-C	-5.33	1.45	1.52
1	4	413	SER	C-O	-5.33	1.17	1.24
1	8	204	ILE	C-O	5.33	1.30	1.24
1	c	275	ALA	CA-C	-5.33	1.45	1.52
1	l	333	ILE	CA-C	5.33	1.59	1.52
1	r	187	GLU	CA-C	5.33	1.59	1.52
1	r	691	ILE	CA-C	5.33	1.59	1.52
1	s	655	ARG	CA-C	5.33	1.59	1.52
1	t	493	LEU	CA-C	5.33	1.59	1.52
1	x	545	LEU	CA-CB	5.33	1.61	1.53
1	G	227	PRO	CA-C	5.33	1.59	1.52
1	G	388	LEU	C-N	-5.33	1.26	1.33
1	G	428	MET	C-O	-5.33	1.17	1.24
1	K	408	GLY	CA-C	-5.33	1.44	1.52
1	L	295	LYS	CA-CB	5.33	1.61	1.53
1	M	447	GLU	N-CA	-5.33	1.39	1.46
1	W	356	PHE	C-O	-5.33	1.17	1.24
1	h	392	GLN	CA-CB	5.33	1.61	1.53
1	j	246	LYS	N-CA	5.33	1.52	1.46
1	l	215	SER	C-O	-5.33	1.18	1.24
1	m	573	ARG	CA-C	5.33	1.59	1.52
1	o	382	ILE	C-N	5.33	1.41	1.33
1	y	402	GLU	CA-CB	5.33	1.61	1.53
1	R	245	ILE	CA-C	-5.33	1.46	1.52
1	Y	298	LEU	N-CA	5.33	1.53	1.46
1	f	301	ARG	C-N	5.33	1.41	1.34
1	q	353	HIS	CD2-NE2	5.33	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	s	456	GLU	N-CA	5.33	1.52	1.46
1	y	406	ARG	C-N	5.33	1.40	1.33
1	V	205	SER	N-CA	5.33	1.52	1.46
1	3	657	ASN	CA-CB	5.33	1.61	1.53
1	e	703	ARG	CD-NE	5.33	1.53	1.46
1	f	182	ASP	C-N	5.33	1.40	1.33
1	g	294	THR	CA-CB	5.33	1.64	1.53
1	m	299	MET	CA-CB	5.33	1.61	1.53
1	n	689	ARG	C-N	5.33	1.40	1.33
1	r	147	SER	C-N	5.33	1.40	1.33
1	t	427	LYS	CA-C	5.33	1.59	1.52
1	u	207	GLU	CA-C	5.33	1.59	1.52
1	z	157	LEU	N-CA	-5.33	1.39	1.45
1	E	706	LEU	CA-C	5.33	1.59	1.52
1	J	520	LEU	N-CA	-5.33	1.39	1.46
1	W	426	ILE	CB-CG1	5.33	1.64	1.53
1	Z	475	ILE	CA-CB	5.33	1.61	1.54
1	5	546	ASN	CA-CB	5.33	1.61	1.53
1	d	113	GLU	CA-C	5.33	1.60	1.52
1	C	380	MET	CA-C	5.33	1.59	1.52
1	J	207	GLU	CA-CB	5.33	1.62	1.53
1	K	320	LYS	CA-CB	5.33	1.61	1.53
1	Y	209	ILE	CA-C	5.33	1.59	1.52
1	4	155	LEU	C-O	5.33	1.30	1.24
1	4	451	TYR	N-CA	-5.33	1.39	1.46
1	5	676	SER	CA-C	-5.33	1.45	1.52
1	a	399	LYS	CA-C	5.33	1.59	1.52
1	g	394	ARG	CA-CB	5.33	1.62	1.53
1	h	656	GLU	CA-CB	5.33	1.62	1.53
1	t	345	LYS	CA-C	-5.33	1.45	1.52
1	t	576	GLN	CA-C	-5.33	1.45	1.52
1	t	698	ARG	NE-CZ	-5.33	1.27	1.33
1	J	284	PRO	CA-CB	-5.33	1.46	1.53
1	J	661	LEU	C-N	5.33	1.41	1.33
1	M	103	LEU	N-CA	-5.33	1.40	1.46
1	M	630	LEU	C-O	5.33	1.30	1.24
1	0	277	SER	N-CA	5.32	1.52	1.46
1	b	494	GLY	CA-C	5.32	1.59	1.51
1	p	497	ASN	CA-CB	-5.32	1.46	1.53
1	p	526	ILE	CA-C	-5.32	1.46	1.52
1	r	476	ILE	N-CA	5.32	1.53	1.46
1	s	373	ARG	CD-NE	5.32	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	t	501	PHE	CA-C	5.32	1.59	1.52
1	E	96	LYS	C-N	5.32	1.40	1.33
1	Q	260	ASN	C-O	-5.32	1.17	1.24
1	S	485	LYS	CA-C	5.32	1.59	1.52
1	T	157	LEU	N-CA	-5.32	1.40	1.46
1	Y	457	ASP	N-CA	5.32	1.52	1.46
1	e	242	GLY	C-O	-5.32	1.16	1.23
1	m	474	ASN	CA-C	5.32	1.59	1.52
1	p	665	MET	N-CA	-5.32	1.39	1.46
1	q	627	GLY	CA-C	-5.32	1.46	1.52
1	A	206	HIS	CD2-NE2	5.32	1.43	1.37
1	G	494	GLY	N-CA	5.32	1.52	1.45
1	H	367	VAL	CA-C	5.32	1.58	1.52
1	H	558	VAL	C-N	5.32	1.40	1.33
1	I	256	GLN	N-CA	-5.32	1.39	1.46
1	Z	378	LEU	N-CA	5.32	1.52	1.46
1	l	204	ILE	CA-C	5.32	1.58	1.52
1	y	451	TYR	CA-CB	5.32	1.61	1.53
1	A	205	SER	N-CA	5.32	1.52	1.46
1	J	412	PRO	C-N	5.32	1.41	1.33
1	L	109	ALA	CA-CB	5.32	1.61	1.53
1	M	638	SER	CA-CB	5.32	1.61	1.53
1	O	110	LEU	C-N	5.32	1.40	1.33
1	T	220	ASP	CA-C	5.32	1.59	1.52
1	j	693	LYS	CA-C	-5.32	1.45	1.52
1	m	181	GLN	CA-CB	5.32	1.62	1.53
1	o	451	TYR	N-CA	-5.32	1.40	1.46
1	y	515	PRO	CA-CB	-5.32	1.46	1.53
1	A	126	ASP	CA-CB	5.32	1.60	1.53
1	A	353	HIS	CE1-NE2	5.32	1.37	1.32
1	B	710	SER	CA-CB	5.32	1.62	1.53
1	2	259	ILE	N-CA	-5.32	1.40	1.46
1	5	546	ASN	C-N	5.32	1.41	1.33
1	9	591	LYS	C-N	5.32	1.40	1.33
1	b	225	ASP	CA-C	5.32	1.59	1.52
1	p	425	LYS	CA-C	-5.32	1.45	1.52
1	q	693	LYS	CA-CB	5.32	1.61	1.53
1	v	564	ALA	N-CA	-5.32	1.40	1.46
1	B	372	GLU	CA-C	-5.32	1.46	1.52
1	T	275	ALA	CA-C	5.32	1.59	1.52
1	Y	677	TRP	CA-C	-5.32	1.46	1.52
1	e	317	PRO	N-CD	-5.32	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g	467	THR	C-N	5.32	1.41	1.33
1	q	583	GLN	C-O	-5.32	1.16	1.24
1	r	665	MET	CA-CB	5.32	1.61	1.53
1	x	511	GLN	N-CA	-5.32	1.39	1.46
1	C	164	CYS	C-O	5.32	1.30	1.23
1	I	379	ILE	C-N	5.32	1.41	1.33
1	I	436	LEU	C-O	-5.32	1.17	1.24
1	L	180	LEU	N-CA	5.32	1.53	1.45
1	V	558	VAL	N-CA	5.32	1.53	1.46
1	Z	435	LYS	N-CA	-5.32	1.40	1.46
1	k	393	ILE	C-N	5.31	1.41	1.33
1	v	409	ALA	CA-C	5.31	1.59	1.52
1	U	274	GLU	CA-C	-5.31	1.46	1.52
1	f	466	ALA	CA-CB	5.31	1.61	1.53
1	H	332	GLU	CA-CB	5.31	1.61	1.53
1	H	504	ILE	N-CA	5.31	1.52	1.46
1	M	284	PRO	N-CA	-5.31	1.40	1.47
1	N	567	MET	CA-C	-5.31	1.46	1.52
1	W	549	VAL	CA-C	5.31	1.59	1.52
1	5	520	LEU	CA-CB	-5.31	1.45	1.53
1	u	573	ARG	CD-NE	5.31	1.53	1.46
1	D	472	VAL	N-CA	5.31	1.53	1.46
1	H	391	GLY	CA-C	-5.31	1.46	1.52
1	M	682	GLN	CA-C	-5.31	1.46	1.52
1	S	385	SER	N-CA	5.31	1.53	1.46
1	S	594	GLU	C-N	5.31	1.41	1.34
1	3	405	ARG	CA-CB	5.31	1.61	1.53
1	6	104	ILE	CA-C	5.31	1.59	1.52
1	9	669	LEU	CB-CG	5.31	1.64	1.53
1	i	123	VAL	CA-C	5.31	1.59	1.52
1	k	425	LYS	CA-C	5.31	1.59	1.52
1	p	201	GLY	C-N	5.31	1.40	1.33
1	t	560	HIS	CA-CB	5.31	1.62	1.53
1	z	455	ARG	CZ-NH2	-5.31	1.26	1.33
1	I	697	TYR	C-N	5.31	1.41	1.34
1	L	382	ILE	CA-CB	-5.31	1.47	1.54
1	U	481	GLU	CA-C	-5.31	1.46	1.52
1	U	695	ARG	C-N	5.31	1.40	1.33
1	V	358	VAL	N-CA	-5.31	1.40	1.46
1	Y	117	ALA	CA-CB	5.31	1.59	1.52
1	0	363	GLY	N-CA	5.31	1.53	1.45
1	4	155	LEU	CA-CB	5.31	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	152	ARG	CD-NE	5.31	1.53	1.46
1	a	99	PRO	CA-C	-5.31	1.44	1.52
1	b	255	ARG	CA-CB	5.31	1.62	1.53
1	d	460	ASN	C-N	5.31	1.40	1.33
1	j	596	ILE	CB-CG1	5.31	1.64	1.53
1	k	206	HIS	CG-ND1	-5.31	1.32	1.38
1	m	690	ARG	CA-CB	5.31	1.61	1.53
1	A	255	ARG	CD-NE	5.31	1.53	1.46
1	O	280	HIS	CD2-NE2	5.31	1.43	1.37
1	T	709	PHE	CA-CB	5.31	1.61	1.53
1	U	162	GLN	CA-CB	5.31	1.61	1.53
1	V	493	LEU	CA-CB	5.31	1.61	1.53
1	2	96	LYS	N-CA	5.31	1.52	1.46
1	u	353	HIS	CA-C	5.31	1.59	1.52
1	y	357	ARG	CZ-NH2	5.31	1.40	1.33
1	A	675	TYR	C-N	5.31	1.40	1.33
1	E	274	GLU	C-N	5.31	1.40	1.33
1	K	150	VAL	C-O	5.31	1.30	1.23
1	M	290	ILE	C-N	5.31	1.41	1.33
1	W	318	LEU	CA-C	5.31	1.59	1.52
1	5	406	ARG	CA-CB	5.30	1.61	1.53
1	6	444	ARG	CD-NE	5.30	1.53	1.46
1	8	444	ARG	CD-NE	5.30	1.53	1.46
1	a	357	ARG	N-CA	-5.30	1.40	1.46
1	b	624	THR	CB-OG1	-5.30	1.35	1.43
1	e	443	VAL	N-CA	-5.30	1.40	1.46
1	q	447	GLU	C-N	5.30	1.41	1.33
1	y	522	LYS	C-N	5.30	1.40	1.33
1	C	152	ARG	CA-CB	5.30	1.61	1.54
1	C	338	SER	C-N	5.30	1.41	1.34
1	K	654	LEU	CA-C	-5.30	1.47	1.52
1	V	215	SER	CA-CB	5.30	1.61	1.53
1	V	666	MET	C-N	5.30	1.41	1.33
1	a	538	HIS	ND1-CE1	5.30	1.37	1.32
1	z	687	THR	CA-C	-5.30	1.46	1.52
1	S	287	ASP	CA-C	-5.30	1.45	1.52
1	4	170	ARG	NE-CZ	-5.30	1.27	1.33
1	5	98	ARG	CD-NE	5.30	1.53	1.46
1	5	405	ARG	CZ-NH2	-5.30	1.26	1.33
1	f	261	LEU	CA-C	-5.30	1.46	1.53
1	g	241	ILE	CA-CB	-5.30	1.47	1.54
1	o	176	THR	CA-C	-5.30	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	t	401	THR	N-CA	5.30	1.52	1.46
1	B	180	LEU	CA-CB	-5.30	1.46	1.54
1	B	689	ARG	CD-NE	5.30	1.53	1.46
1	C	135	LEU	C-N	5.30	1.40	1.33
1	E	287	ASP	CA-CB	5.30	1.63	1.53
1	H	133	SER	C-N	5.30	1.40	1.33
1	H	631	ASN	CA-CB	5.30	1.61	1.53
1	K	325	VAL	N-CA	-5.30	1.40	1.46
1	K	381	HIS	CD2-NE2	5.30	1.43	1.37
1	Q	254	GLN	CA-CB	5.30	1.62	1.53
1	V	278	MET	C-N	5.30	1.41	1.33
1	V	482	LYS	C-N	-5.30	1.27	1.34
1	W	652	PHE	CG-CD2	5.30	1.50	1.38
1	1	199	GLY	C-N	5.30	1.41	1.33
1	3	158	LYS	C-N	5.30	1.40	1.33
1	i	525	GLU	CA-CB	5.30	1.61	1.53
1	j	335	ASN	CA-CB	5.30	1.61	1.53
1	s	355	TYR	N-CA	-5.30	1.39	1.46
1	u	188	LYS	C-O	5.30	1.30	1.24
1	u	654	LEU	CA-C	-5.30	1.48	1.52
1	C	218	VAL	C-N	5.30	1.40	1.33
1	E	503	ILE	CA-C	-5.30	1.46	1.52
1	F	194	GLN	N-CA	5.30	1.52	1.46
1	G	623	PHE	N-CA	-5.30	1.40	1.46
1	I	678	LEU	CA-CB	5.30	1.61	1.53
1	L	532	ILE	CA-CB	-5.30	1.48	1.54
1	R	568	ILE	N-CA	5.30	1.52	1.46
1	X	197	MET	CA-C	-5.30	1.45	1.52
1	Y	117	ALA	C-N	5.30	1.40	1.33
1	Z	168	ALA	C-N	5.30	1.40	1.32
1	1	448	THR	CA-C	5.30	1.58	1.52
1	y	450	LEU	CA-C	-5.30	1.45	1.52
1	z	522	LYS	N-CA	-5.30	1.40	1.46
1	K	507	GLN	C-N	5.30	1.41	1.33
1	L	580	CYS	CA-C	5.30	1.59	1.52
1	Q	374	LEU	C-O	5.30	1.30	1.24
1	S	592	VAL	C-N	5.30	1.40	1.33
1	1	283	ASP	C-N	-5.30	1.28	1.34
1	3	317	PRO	C-N	5.30	1.41	1.33
1	7	213	ILE	CB-CG1	5.30	1.64	1.53
1	b	118	LEU	C-N	5.30	1.39	1.33
1	f	649	ILE	C-O	-5.30	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h	568	ILE	CA-CB	-5.30	1.48	1.54
1	l	469	THR	C-O	-5.30	1.18	1.24
1	w	248	LEU	C-N	5.30	1.40	1.33
1	A	539	PHE	CA-CB	5.30	1.62	1.53
1	B	108	ARG	CD-NE	5.30	1.53	1.46
1	D	303	THR	CA-C	5.30	1.59	1.52
1	K	108	ARG	CA-CB	5.30	1.61	1.53
1	T	495	PHE	CA-CB	5.30	1.64	1.53
1	4	386	LEU	C-O	-5.29	1.19	1.24
1	f	646	PRO	C-N	5.29	1.41	1.33
1	p	236	ASN	CA-CB	5.29	1.62	1.53
1	x	684	GLU	CA-C	5.29	1.59	1.52
1	B	672	LYS	N-CA	5.29	1.52	1.46
1	G	402	GLU	C-O	-5.29	1.18	1.24
1	L	424	GLU	CA-C	5.29	1.59	1.52
1	O	149	ILE	C-O	-5.29	1.18	1.24
1	X	380	MET	CA-CB	5.29	1.61	1.53
1	1	98	ARG	CZ-NH1	-5.29	1.25	1.32
1	2	316	TYR	N-CA	5.29	1.52	1.45
1	4	257	GLN	C-N	5.29	1.41	1.33
1	7	360	LEU	C-N	5.29	1.40	1.33
1	b	468	ASN	CA-C	5.29	1.59	1.52
1	b	477	HIS	ND1-CE1	5.29	1.37	1.32
1	f	183	PRO	N-CA	5.29	1.54	1.47
1	i	542	PHE	CA-C	5.29	1.59	1.53
1	l	102	ASP	C-N	5.29	1.41	1.33
1	D	456	GLU	CA-CB	5.29	1.61	1.53
1	E	580	CYS	CA-C	5.29	1.59	1.52
1	F	696	ILE	N-CA	-5.29	1.39	1.46
1	Q	128	SER	CA-C	5.29	1.59	1.52
1	Q	440	GLU	CA-C	5.29	1.59	1.52
1	Q	498	TYR	CB-CG	-5.29	1.40	1.51
1	5	179	GLU	CA-C	5.29	1.59	1.52
1	l	458	PHE	C-N	5.29	1.41	1.34
1	n	163	PRO	N-CD	-5.29	1.40	1.47
1	v	164	CYS	CA-C	5.29	1.60	1.53
1	x	231	ARG	CZ-NH1	-5.29	1.25	1.32
1	y	509	ILE	CA-CB	5.29	1.60	1.54
1	B	289	THR	N-CA	-5.29	1.39	1.46
1	I	657	ASN	CA-C	5.29	1.59	1.52
1	O	162	GLN	CA-CB	5.29	1.61	1.53
1	P	179	GLU	CA-CB	-5.29	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Q	121	ILE	CB-CG1	5.29	1.64	1.53
1	S	177	GLU	CA-CB	5.29	1.61	1.53
1	T	565	GLU	CA-CB	5.29	1.61	1.53
1	U	281	GLU	CA-CB	5.29	1.61	1.53
1	4	554	GLU	C-N	5.29	1.40	1.33
1	a	421	PHE	CA-CB	5.29	1.61	1.53
1	x	679	LEU	CA-CB	5.29	1.62	1.53
1	y	680	GLN	N-CA	-5.29	1.39	1.46
1	D	676	SER	CA-CB	5.29	1.61	1.53
1	T	171	ILE	CA-C	5.29	1.59	1.52
1	5	544	ASN	N-CA	-5.29	1.39	1.46
1	6	270	ILE	C-N	5.29	1.41	1.33
1	b	474	ASN	CA-C	5.29	1.59	1.52
1	c	559	LYS	C-N	5.29	1.41	1.33
1	d	688	LYS	C-O	-5.29	1.17	1.24
1	f	278	MET	CA-C	5.29	1.59	1.52
1	o	465	LEU	C-N	5.29	1.40	1.33
1	y	404	LEU	CA-CB	5.29	1.62	1.53
1	y	518	SER	CA-C	5.29	1.59	1.52
1	z	187	GLU	CA-CB	5.29	1.61	1.53
1	B	303	THR	CA-C	5.29	1.59	1.52
1	C	687	THR	CA-C	5.29	1.59	1.52
1	F	487	TYR	CA-CB	5.29	1.61	1.53
1	K	187	GLU	CA-CB	5.29	1.62	1.53
1	O	313	ASN	CA-C	5.29	1.59	1.52
1	O	647	PHE	CA-CB	5.29	1.61	1.53
1	U	472	VAL	N-CA	5.29	1.52	1.46
1	V	400	ALA	CA-C	5.29	1.59	1.52
1	V	575	GLU	CA-CB	5.29	1.62	1.53
1	d	307	VAL	CA-CB	5.29	1.61	1.54
1	r	477	HIS	CB-CG	5.29	1.57	1.50
1	Z	645	ILE	CA-C	5.29	1.57	1.52
1	6	246	LYS	C-N	5.29	1.40	1.33
1	6	586	SER	CA-CB	5.29	1.61	1.53
1	b	644	GLN	N-CA	5.29	1.52	1.46
1	c	651	TYR	N-CA	-5.29	1.40	1.46
1	e	451	TYR	CA-C	5.29	1.59	1.52
1	f	305	LYS	N-CA	5.29	1.52	1.46
1	g	455	ARG	C-O	5.29	1.30	1.24
1	k	283	ASP	C-N	5.29	1.40	1.34
1	u	243	LEU	C-O	-5.29	1.18	1.24
1	u	279	ALA	N-CA	-5.29	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	255	ARG	CD-NE	5.29	1.53	1.46
1	V	252	TYR	CA-CB	5.29	1.61	1.53
1	X	565	GLU	CA-C	5.29	1.59	1.52
1	0	261	LEU	N-CA	-5.28	1.40	1.46
1	3	224	ILE	C-N	5.28	1.41	1.33
1	5	133	SER	C-O	-5.28	1.17	1.24
1	9	107	LEU	C-N	5.28	1.40	1.33
1	h	637	THR	CA-C	5.28	1.59	1.52
1	i	691	ILE	C-N	5.28	1.40	1.33
1	l	259	ILE	N-CA	-5.28	1.40	1.46
1	l	438	GLU	CA-CB	5.28	1.61	1.53
1	p	171	ILE	N-CA	-5.28	1.40	1.46
1	v	685	THR	N-CA	-5.28	1.40	1.46
1	x	174	ARG	N-CA	-5.28	1.39	1.46
1	Q	511	GLN	N-CA	5.28	1.52	1.46
1	0	110	LEU	C-O	-5.28	1.16	1.23
1	i	366	THR	C-N	5.28	1.39	1.33
1	v	231	ARG	CD-NE	5.28	1.53	1.46
1	C	378	LEU	N-CA	-5.28	1.39	1.46
1	D	702	ALA	N-CA	-5.28	1.40	1.46
1	V	629	HIS	CE1-NE2	5.28	1.37	1.32
1	l	316	TYR	C-O	-5.28	1.18	1.25
1	4	159	LEU	N-CA	5.28	1.52	1.46
1	i	648	ILE	CA-CB	5.28	1.60	1.54
1	j	202	ARG	CA-C	5.28	1.60	1.52
1	r	283	ASP	N-CA	-5.28	1.41	1.46
1	v	306	SER	CA-CB	5.28	1.61	1.53
1	w	415	GLU	CA-CB	5.28	1.61	1.53
1	B	127	GLN	N-CA	-5.28	1.39	1.46
1	D	422	LEU	N-CA	5.28	1.53	1.46
1	H	395	GLU	CA-CB	5.28	1.61	1.53
1	H	545	LEU	CA-C	-5.28	1.46	1.52
1	I	333	ILE	C-O	-5.28	1.18	1.24
1	K	228	GLY	C-N	5.28	1.40	1.33
1	L	575	GLU	CA-C	5.28	1.59	1.52
1	3	482	LYS	CA-C	-5.28	1.46	1.52
1	b	410	ASP	C-N	5.28	1.40	1.33
1	d	208	LEU	CA-C	5.28	1.59	1.52
1	q	459	LYS	CA-CB	5.28	1.61	1.53
1	s	676	SER	N-CA	5.28	1.52	1.46
1	u	225	ASP	CA-CB	5.28	1.60	1.53
1	E	676	SER	C-N	-5.28	1.26	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	R	580	CYS	N-CA	-5.28	1.39	1.45
1	Y	96	LYS	C-N	5.28	1.39	1.34
1	2	190	ILE	CA-CB	5.28	1.61	1.54
1	3	412	PRO	C-N	5.28	1.40	1.33
1	9	335	ASN	CA-C	5.28	1.60	1.52
1	d	149	ILE	N-CA	5.28	1.52	1.46
1	i	394	ARG	CA-CB	5.28	1.61	1.53
1	m	179	GLU	N-CA	5.28	1.52	1.46
1	n	462	VAL	C-N	5.28	1.40	1.33
1	n	523	ALA	N-CA	-5.28	1.39	1.46
1	n	630	LEU	N-CA	5.28	1.52	1.46
1	t	526	ILE	CA-C	5.28	1.59	1.52
1	v	680	GLN	CA-CB	5.28	1.60	1.53
1	y	295	LYS	CA-CB	5.28	1.61	1.53
1	z	682	GLN	CA-C	5.28	1.59	1.52
1	C	234	VAL	C-N	5.28	1.39	1.32
1	C	373	ARG	CA-C	-5.28	1.46	1.52
1	E	668	ILE	CA-CB	5.28	1.61	1.54
1	F	190	ILE	N-CA	5.28	1.52	1.46
1	H	593	ARG	CA-CB	5.28	1.61	1.53
1	I	588	VAL	N-CA	-5.28	1.40	1.46
1	K	366	THR	N-CA	5.28	1.53	1.46
1	Q	494	GLY	N-CA	5.28	1.51	1.45
1	T	484	GLU	CA-CB	5.28	1.62	1.53
1	8	106	SER	CA-CB	5.28	1.61	1.53
1	c	127	GLN	C-O	-5.28	1.17	1.24
1	j	237	GLN	C-O	-5.28	1.19	1.24
1	k	145	ARG	CA-CB	5.28	1.61	1.53
1	k	445	GLU	CA-CB	5.28	1.61	1.53
1	B	361	GLU	CA-C	-5.28	1.45	1.52
1	B	554	GLU	N-CA	-5.28	1.40	1.46
1	I	170	ARG	CZ-NH1	-5.28	1.25	1.32
1	J	506	HIS	CE1-NE2	5.28	1.37	1.32
1	L	353	HIS	CG-ND1	-5.28	1.32	1.38
1	R	378	LEU	CA-CB	5.28	1.62	1.53
1	T	96	LYS	CA-C	5.28	1.58	1.53
1	4	193	ALA	N-CA	-5.27	1.40	1.46
1	6	577	MET	N-CA	-5.27	1.39	1.46
1	7	433	ILE	N-CA	5.27	1.52	1.46
1	B	547	GLN	C-N	5.27	1.40	1.33
1	E	93	TYR	N-CA	5.27	1.56	1.46
1	E	704	HIS	N-CA	-5.27	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	259	ILE	CA-CB	-5.27	1.47	1.54
1	M	506	HIS	ND1-CE1	5.27	1.37	1.32
1	f	216	PRO	N-CA	-5.27	1.40	1.47
1	m	423	ILE	N-CA	-5.27	1.40	1.46
1	m	440	GLU	C-N	5.27	1.40	1.33
1	q	397	HIS	CB-CG	5.27	1.57	1.50
1	r	700	THR	CA-CB	5.27	1.61	1.53
1	t	159	LEU	CA-CB	5.27	1.61	1.53
1	v	125	GLY	C-N	5.27	1.40	1.33
1	x	304	GLU	C-N	5.27	1.40	1.33
1	B	192	LYS	CA-CB	5.27	1.61	1.53
1	B	312	ARG	CA-CB	5.27	1.62	1.53
1	R	350	PHE	N-CA	5.27	1.52	1.46
1	W	281	GLU	C-N	5.27	1.40	1.34
1	0	255	ARG	CD-NE	5.27	1.53	1.46
1	c	488	ARG	CD-NE	5.27	1.53	1.46
1	f	502	GLU	CA-C	-5.27	1.46	1.52
1	r	710	SER	CA-C	5.27	1.59	1.52
1	x	173	TYR	N-CA	-5.27	1.39	1.46
1	U	137	ALA	N-CA	-5.27	1.40	1.46
1	5	560	HIS	CB-CG	-5.27	1.42	1.50
1	7	164	CYS	N-CA	-5.27	1.39	1.46
1	7	535	ALA	N-CA	-5.27	1.40	1.46
1	7	708	GLN	CA-C	5.27	1.59	1.52
1	d	179	GLU	CA-CB	5.27	1.62	1.53
1	h	412	PRO	N-CA	-5.27	1.40	1.47
1	i	655	ARG	NE-CZ	-5.27	1.27	1.33
1	k	199	GLY	CA-C	-5.27	1.44	1.51
1	l	379	ILE	CA-C	-5.27	1.46	1.52
1	n	115	ASP	CA-C	-5.27	1.45	1.52
1	n	692	LEU	CA-C	5.27	1.59	1.52
1	t	565	GLU	CA-C	5.27	1.59	1.52
1	y	124	ILE	CA-CB	5.27	1.60	1.54
1	B	592	VAL	CA-CB	5.27	1.60	1.54
1	B	640	ARG	CA-C	-5.27	1.46	1.52
1	B	704	HIS	CD2-NE2	5.27	1.43	1.37
1	C	441	GLU	CA-C	5.27	1.59	1.52
1	E	668	ILE	N-CA	-5.27	1.39	1.46
1	G	167	TRP	NE1-CE2	5.27	1.43	1.37
1	L	661	LEU	CA-C	-5.27	1.45	1.52
1	R	170	ARG	CA-C	5.27	1.59	1.52
1	V	660	SER	N-CA	-5.27	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	291	GLY	CA-C	-5.27	1.48	1.52
1	2	484	GLU	CA-CB	5.27	1.61	1.53
1	f	162	GLN	CA-C	5.27	1.59	1.52
1	g	686	ALA	CA-C	-5.27	1.46	1.52
1	G	228	GLY	CA-C	-5.27	1.47	1.52
1	J	191	HIS	ND1-CE1	5.27	1.37	1.32
1	M	185	GLN	C-N	5.27	1.40	1.33
1	R	405	ARG	CD-NE	5.27	1.53	1.46
1	T	328	ARG	CD-NE	5.27	1.53	1.46
1	T	546	ASN	N-CA	-5.27	1.40	1.46
1	U	266	CYS	CA-CB	5.27	1.61	1.53
1	V	705	ALA	C-N	5.27	1.41	1.33
1	4	464	ILE	CA-CB	-5.27	1.48	1.54
1	p	423	ILE	C-N	5.27	1.41	1.33
1	K	538	HIS	CA-CB	5.27	1.61	1.54
1	O	152	ARG	CZ-NH2	-5.27	1.26	1.33
1	S	459	LYS	N-CA	-5.27	1.39	1.46
1	U	346	GLU	N-CA	-5.27	1.40	1.46
1	X	592	VAL	CA-C	5.27	1.59	1.52
1	2	164	CYS	C-N	5.26	1.40	1.33
1	5	133	SER	N-CA	5.26	1.52	1.46
1	e	669	LEU	CA-C	5.26	1.60	1.52
1	h	465	LEU	CA-CB	5.26	1.61	1.53
1	l	231	ARG	CD-NE	5.26	1.53	1.46
1	o	150	VAL	CA-CB	5.26	1.62	1.54
1	p	261	LEU	CA-C	-5.26	1.46	1.52
1	t	594	GLU	CA-C	5.26	1.59	1.52
1	z	191	HIS	CG-ND1	-5.26	1.32	1.38
1	D	197	MET	C-N	5.26	1.41	1.34
1	G	417	ASP	CA-CB	5.26	1.62	1.53
1	Q	642	ALA	C-N	-5.26	1.27	1.33
1	S	541	GLU	CA-CB	5.26	1.62	1.53
1	T	546	ASN	CA-C	5.26	1.59	1.52
1	T	630	LEU	CA-CB	5.26	1.61	1.53
1	d	684	GLU	N-CA	-5.26	1.40	1.46
1	g	424	GLU	CA-C	5.26	1.59	1.52
1	k	577	MET	CA-CB	5.26	1.61	1.53
1	A	432	ASP	CA-CB	5.26	1.61	1.53
1	D	274	GLU	CG-CD	5.26	1.65	1.52
1	D	439	GLY	CA-C	-5.26	1.44	1.51
1	J	143	LEU	CA-C	5.26	1.59	1.52
1	N	449	ARG	NE-CZ	-5.26	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	T	355	TYR	CA-CB	5.26	1.61	1.53
1	V	160	LYS	CA-CB	5.26	1.61	1.53
1	l	357	ARG	CA-CB	5.26	1.61	1.53
1	a	519	MET	CA-CB	5.26	1.61	1.53
1	a	590	LYS	CA-C	5.26	1.59	1.52
1	g	508	TYR	C-N	-5.26	1.27	1.33
1	q	550	GLN	C-N	5.26	1.40	1.33
1	D	174	ARG	CA-C	5.26	1.59	1.52
1	S	250	LYS	C-N	5.26	1.41	1.34
1	X	486	GLN	CA-C	-5.26	1.47	1.52
1	l	518	SER	CA-C	5.26	1.59	1.52
1	7	589	LEU	CA-C	5.26	1.59	1.52
1	f	188	LYS	N-CA	-5.26	1.40	1.46
1	j	308	MET	C-O	-5.26	1.18	1.24
1	k	525	GLU	C-O	-5.26	1.18	1.24
1	l	340	ALA	N-CA	5.26	1.52	1.46
1	m	388	LEU	C-N	5.26	1.40	1.33
1	G	238	PRO	CA-C	-5.26	1.47	1.52
1	G	531	PHE	C-N	5.26	1.40	1.33
1	G	551	SER	C-N	5.26	1.40	1.33
1	N	624	THR	N-CA	-5.26	1.40	1.46
1	O	153	CYS	C-O	5.26	1.29	1.24
1	Y	506	HIS	CB-CG	5.26	1.57	1.50
1	Y	699	LEU	C-O	-5.26	1.18	1.24
1	3	217	GLU	N-CA	-5.26	1.40	1.46
1	9	351	GLN	CA-CB	5.26	1.62	1.53
1	p	360	LEU	CA-C	-5.26	1.45	1.52
1	u	494	GLY	CA-C	5.26	1.59	1.51
1	v	556	ILE	C-N	5.26	1.40	1.33
1	w	450	LEU	CA-CB	5.26	1.61	1.53
1	z	147	SER	CA-CB	5.26	1.61	1.53
1	I	570	LEU	CA-C	-5.26	1.46	1.52
1	J	505	VAL	CA-C	5.26	1.59	1.52
1	Q	596	ILE	CA-C	5.26	1.59	1.52
1	R	199	GLY	C-N	5.26	1.41	1.33
1	7	371	ALA	C-N	5.26	1.40	1.33
1	e	366	THR	N-CA	5.26	1.52	1.46
1	g	667	GLN	CA-CB	5.26	1.62	1.53
1	h	331	GLN	C-N	5.26	1.40	1.33
1	u	374	LEU	CA-CB	5.26	1.61	1.53
1	w	368	PRO	CA-C	5.26	1.59	1.52
1	E	480	VAL	CA-C	5.26	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	647	PHE	C-N	5.26	1.40	1.33
1	J	525	GLU	CA-C	5.26	1.59	1.52
1	R	663	LYS	C-N	5.26	1.41	1.34
1	j	663	LYS	N-CA	5.25	1.52	1.46
1	A	442	VAL	CA-CB	-5.25	1.48	1.54
1	G	142	ALA	CA-C	5.25	1.59	1.52
1	H	172	SER	CA-CB	5.25	1.61	1.53
1	J	221	LEU	CA-C	5.25	1.59	1.52
1	Q	477	HIS	CG-CD2	5.25	1.41	1.35
1	0	163	PRO	C-N	5.25	1.41	1.33
1	2	458	PHE	CA-CB	5.25	1.62	1.53
1	8	581	GLN	CA-C	-5.25	1.46	1.52
1	8	634	PHE	CA-CB	5.25	1.62	1.53
1	9	645	ILE	CA-C	5.25	1.57	1.52
1	b	179	GLU	N-CA	-5.25	1.39	1.46
1	e	344	LYS	CA-CB	5.25	1.61	1.53
1	M	480	VAL	C-N	5.25	1.41	1.34
1	T	485	LYS	CA-C	5.25	1.59	1.52
1	T	696	ILE	CA-CB	-5.25	1.48	1.54
1	V	380	MET	CA-C	-5.25	1.45	1.52
1	X	292	ILE	CA-CB	-5.25	1.47	1.54
1	Y	681	GLU	CA-CB	5.25	1.62	1.53
1	7	280	HIS	ND1-CE1	5.25	1.37	1.32
1	9	629	HIS	CE1-NE2	5.25	1.37	1.32
1	a	367	VAL	CA-C	5.25	1.58	1.52
1	b	442	VAL	CA-C	5.25	1.59	1.52
1	b	538	HIS	C-N	5.25	1.41	1.33
1	d	103	LEU	CA-CB	5.25	1.61	1.53
1	m	369	ARG	CA-CB	5.25	1.60	1.53
1	p	397	HIS	CG-CD2	5.25	1.41	1.35
1	r	229	ILE	CA-CB	5.25	1.60	1.54
1	x	245	ILE	CA-C	5.25	1.59	1.52
1	E	640	ARG	N-CA	-5.25	1.40	1.46
1	I	195	ASN	CA-C	5.25	1.59	1.52
1	N	220	ASP	CA-CB	5.25	1.61	1.53
1	N	391	GLY	CA-C	-5.25	1.46	1.52
1	X	503	ILE	N-CA	5.25	1.52	1.46
1	f	199	GLY	N-CA	5.25	1.52	1.45
1	h	649	ILE	CA-CB	-5.25	1.48	1.54
1	j	295	LYS	CA-CB	5.25	1.61	1.53
1	x	535	ALA	N-CA	-5.25	1.40	1.46
1	W	193	ALA	N-CA	-5.25	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	124	ILE	C-N	5.25	1.41	1.33
1	0	582	ASP	N-CA	5.25	1.52	1.46
1	3	353	HIS	CA-C	5.25	1.59	1.52
1	6	159	LEU	CA-C	-5.25	1.46	1.52
1	8	380	MET	C-N	5.25	1.40	1.33
1	8	487	TYR	C-N	5.25	1.41	1.33
1	f	243	LEU	N-CA	-5.25	1.40	1.46
1	k	395	GLU	C-O	-5.25	1.18	1.24
1	r	209	ILE	C-N	5.25	1.41	1.33
1	s	157	LEU	N-CA	-5.25	1.40	1.46
1	x	403	GLU	CA-C	5.25	1.59	1.52
1	G	525	GLU	C-N	5.25	1.40	1.33
1	L	704	HIS	ND1-CE1	5.25	1.37	1.32
1	Q	225	ASP	CA-CB	5.25	1.59	1.53
1	X	110	LEU	N-CA	5.25	1.52	1.46
1	5	560	HIS	CG-ND1	-5.25	1.32	1.38
1	f	409	ALA	CA-C	5.25	1.59	1.52
1	h	209	ILE	C-N	5.25	1.40	1.33
1	j	489	GLY	C-N	-5.25	1.26	1.33
1	n	170	ARG	CD-NE	5.25	1.53	1.46
1	F	686	ALA	C-N	5.25	1.40	1.33
1	L	387	PRO	C-N	5.25	1.41	1.33
1	O	290	ILE	C-O	-5.25	1.18	1.24
1	4	263	VAL	N-CA	-5.25	1.40	1.46
1	8	558	VAL	C-N	5.25	1.40	1.33
1	L	545	LEU	N-CA	-5.25	1.40	1.46
1	1	248	LEU	CA-C	5.24	1.59	1.52
1	9	665	MET	C-N	5.24	1.41	1.33
1	g	170	ARG	CD-NE	5.24	1.53	1.46
1	o	472	VAL	C-N	5.24	1.40	1.33
1	D	160	LYS	CA-CB	5.24	1.61	1.53
1	J	115	ASP	CA-CB	5.24	1.61	1.53
1	Q	563	LYS	C-O	-5.24	1.18	1.24
1	K	384	LYS	CA-CB	5.24	1.61	1.53
1	L	301	ARG	NE-CZ	-5.24	1.27	1.33
1	0	583	GLN	N-CA	-5.24	1.39	1.46
1	1	218	VAL	CA-CB	-5.24	1.47	1.54
1	a	326	LYS	CA-C	5.24	1.59	1.52
1	a	479	GLU	C-N	-5.24	1.27	1.33
1	i	332	GLU	C-N	5.24	1.40	1.33
1	i	403	GLU	CA-CB	5.24	1.61	1.53
1	l	624	THR	N-CA	5.24	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	s	206	HIS	CD2-NE2	5.24	1.43	1.37
1	v	278	MET	CA-C	-5.24	1.46	1.52
1	w	334	THR	CA-C	5.24	1.59	1.52
1	z	99	PRO	N-CA	-5.24	1.40	1.47
1	z	371	ALA	CA-CB	5.24	1.61	1.53
1	z	502	GLU	CA-C	5.24	1.59	1.52
1	A	133	SER	CA-CB	5.24	1.61	1.53
1	O	116	LEU	CA-CB	5.24	1.61	1.53
1	P	194	GLN	CA-CB	5.24	1.61	1.53
1	P	337	LEU	C-O	-5.24	1.17	1.23
1	R	237	GLN	CA-C	5.24	1.59	1.52
1	V	242	GLY	CA-C	-5.24	1.44	1.51
1	W	253	ILE	CB-CG1	5.24	1.64	1.53
1	4	704	HIS	CG-ND1	5.24	1.44	1.38
1	6	186	VAL	CA-C	-5.24	1.46	1.52
1	b	165	GLU	CA-CB	5.24	1.62	1.53
1	c	438	GLU	CA-C	-5.24	1.45	1.52
1	m	416	ALA	N-CA	-5.24	1.40	1.46
1	q	589	LEU	CA-CB	5.24	1.61	1.53
1	y	445	GLU	CA-C	-5.24	1.45	1.52
1	C	391	GLY	CA-C	-5.24	1.46	1.52
1	K	655	ARG	CA-CB	5.24	1.61	1.53
1	L	511	GLN	C-N	5.24	1.41	1.34
1	N	360	LEU	CA-C	5.24	1.59	1.52
1	Z	682	GLN	CA-CB	5.24	1.61	1.53
1	7	678	LEU	C-O	-5.24	1.18	1.24
1	f	331	GLN	C-O	-5.24	1.18	1.23
1	f	363	GLY	CA-C	5.24	1.59	1.51
1	k	652	PHE	CA-CB	5.24	1.61	1.53
1	r	150	VAL	CA-C	5.24	1.59	1.52
1	z	121	ILE	C-N	-5.24	1.26	1.33
1	F	211	LEU	C-N	5.24	1.40	1.33
1	K	690	ARG	N-CA	5.24	1.52	1.46
1	L	300	ASP	N-CA	-5.24	1.39	1.46
1	X	680	GLN	CA-CB	5.24	1.61	1.53
1	d	280	HIS	CG-ND1	5.24	1.44	1.38
1	p	136	GLU	C-O	5.24	1.30	1.24
1	p	257	GLN	CA-CB	5.24	1.61	1.53
1	r	352	THR	CA-C	-5.24	1.45	1.52
1	s	237	GLN	CA-C	5.24	1.59	1.52
1	J	172	SER	CA-C	5.24	1.59	1.52
1	M	271	ALA	N-CA	-5.24	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	710	SER	C-N	5.24	1.40	1.33
1	0	481	GLU	CA-C	5.23	1.59	1.52
1	f	571	GLN	CA-C	5.23	1.59	1.52
1	F	179	GLU	N-CA	-5.23	1.39	1.46
1	J	381	HIS	ND1-CE1	5.23	1.37	1.32
1	P	189	GLU	CA-CB	5.23	1.61	1.53
1	0	485	LYS	N-CA	5.23	1.53	1.46
1	3	153	CYS	CA-C	-5.23	1.47	1.52
1	5	154	PRO	CA-CB	-5.23	1.46	1.53
1	5	349	PHE	C-O	-5.23	1.18	1.24
1	c	486	GLN	CA-C	-5.23	1.45	1.52
1	e	457	ASP	C-O	-5.23	1.17	1.24
1	i	341	GLU	C-O	-5.23	1.17	1.24
1	k	451	TYR	N-CA	5.23	1.52	1.46
1	m	322	TYR	CA-CB	5.23	1.62	1.54
1	u	240	ASP	CA-CB	5.23	1.64	1.53
1	Q	672	LYS	N-CA	5.23	1.53	1.46
1	T	162	GLN	CA-C	-5.23	1.45	1.52
1	V	475	ILE	CA-CB	-5.23	1.48	1.54
1	3	583	GLN	CA-C	5.23	1.59	1.52
1	f	640	ARG	CA-C	-5.23	1.46	1.52
1	i	541	GLU	CA-C	5.23	1.59	1.52
1	i	698	ARG	C-N	5.23	1.40	1.33
1	j	704	HIS	CA-C	5.23	1.59	1.52
1	o	162	GLN	CA-CB	5.23	1.61	1.54
1	r	698	ARG	C-N	5.23	1.40	1.33
1	y	405	ARG	CZ-NH2	-5.23	1.26	1.33
1	J	247	ALA	N-CA	5.23	1.52	1.46
1	M	184	GLY	C-N	5.23	1.41	1.33
1	T	528	GLN	C-O	-5.23	1.18	1.24
1	2	232	VAL	C-O	5.23	1.28	1.23
1	7	120	ALA	CA-CB	-5.23	1.44	1.53
1	a	670	GLN	N-CA	-5.23	1.39	1.46
1	k	219	PRO	N-CD	-5.23	1.40	1.47
1	l	698	ARG	CD-NE	5.23	1.53	1.46
1	n	274	GLU	CA-CB	5.23	1.61	1.53
1	p	704	HIS	CD2-NE2	5.23	1.43	1.37
1	G	389	LEU	N-CA	5.23	1.52	1.46
1	3	285	GLU	CA-CB	5.23	1.61	1.53
1	d	200	ASN	CA-CB	5.23	1.62	1.53
1	e	344	LYS	C-N	5.23	1.40	1.33
1	i	316	TYR	C-N	5.23	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l	500	THR	C-N	5.23	1.40	1.33
1	r	225	ASP	N-CA	-5.23	1.39	1.46
1	D	95	GLN	CA-C	5.23	1.59	1.52
1	K	94	GLU	N-CA	5.23	1.52	1.46
1	L	458	PHE	CA-CB	5.23	1.61	1.53
1	U	106	SER	C-O	-5.23	1.18	1.24
1	d	263	VAL	C-N	5.23	1.39	1.33
1	t	692	LEU	N-CA	5.23	1.52	1.46
1	x	376	THR	CA-C	5.23	1.59	1.52
1	E	218	VAL	C-N	5.23	1.46	1.33
1	P	387	PRO	C-N	5.23	1.41	1.33
1	S	410	ASP	C-N	5.23	1.39	1.33
1	U	171	ILE	CA-C	-5.23	1.46	1.52
1	Z	525	GLU	C-N	5.23	1.40	1.33
1	0	121	ILE	N-CA	-5.22	1.39	1.46
1	9	381	HIS	CG-ND1	5.22	1.44	1.38
1	b	416	ALA	CA-C	-5.22	1.46	1.53
1	b	420	PHE	C-N	5.22	1.41	1.33
1	j	237	GLN	CA-CB	5.22	1.60	1.53
1	l	243	LEU	C-N	5.22	1.41	1.34
1	n	357	ARG	N-CA	-5.22	1.39	1.46
1	o	560	HIS	C-N	5.22	1.41	1.33
1	C	235	ASP	CA-CB	5.22	1.63	1.52
1	H	191	HIS	C-N	5.22	1.40	1.33
1	O	127	GLN	C-N	5.22	1.41	1.33
1	P	452	ASN	N-CA	-5.22	1.39	1.46
1	Z	369	ARG	CD-NE	5.22	1.53	1.46
1	0	453	LYS	CA-CB	5.22	1.61	1.53
1	1	365	ALA	N-CA	-5.22	1.39	1.46
1	1	685	THR	C-N	5.22	1.40	1.33
1	5	347	ILE	C-N	5.22	1.41	1.34
1	a	264	VAL	N-CA	-5.22	1.41	1.45
1	v	477	HIS	CG-ND1	5.22	1.44	1.38
1	y	684	GLU	CA-CB	5.22	1.61	1.53
1	B	432	ASP	CA-CB	5.22	1.61	1.53
1	E	415	GLU	N-CA	5.22	1.53	1.46
1	G	585	TYR	N-CA	5.22	1.52	1.46
1	R	353	HIS	CE1-NE2	5.22	1.37	1.32
1	V	255	ARG	CA-C	5.22	1.59	1.52
1	V	626	ILE	CA-CB	-5.22	1.47	1.54
1	X	517	LEU	CA-C	5.22	1.59	1.52
1	3	240	ASP	CA-CB	5.22	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	x	447	GLU	CA-C	5.22	1.60	1.53
1	0	144	PRO	C-N	5.22	1.41	1.33
1	0	238	PRO	CA-CB	5.22	1.62	1.53
1	1	342	ALA	C-N	5.22	1.40	1.33
1	f	126	ASP	N-CA	5.22	1.52	1.45
1	i	413	SER	C-N	5.22	1.40	1.33
1	o	400	ALA	N-CA	-5.22	1.40	1.46
1	r	703	ARG	N-CA	-5.22	1.40	1.46
1	t	534	VAL	CA-C	-5.22	1.46	1.52
1	z	453	LYS	C-N	5.22	1.40	1.33
1	z	503	ILE	N-CA	5.22	1.52	1.46
1	C	587	VAL	C-N	5.22	1.40	1.33
1	J	562	ALA	C-N	5.22	1.41	1.33
1	P	449	ARG	CA-C	5.22	1.59	1.52
1	R	451	TYR	CA-CB	5.22	1.61	1.53
1	u	260	ASN	CA-C	5.22	1.59	1.52
1	w	472	VAL	C-N	5.22	1.41	1.33
1	D	164	CYS	CA-C	-5.22	1.46	1.52
1	D	554	GLU	CA-C	5.22	1.59	1.52
1	Y	158	LYS	CA-C	5.22	1.59	1.52
1	6	328	ARG	CA-CB	5.22	1.62	1.53
1	6	501	PHE	C-N	5.22	1.40	1.33
1	a	528	GLN	CA-CB	5.22	1.61	1.53
1	e	553	ILE	CA-C	-5.22	1.46	1.52
1	g	544	ASN	N-CA	-5.22	1.40	1.46
1	h	292	ILE	CA-C	-5.22	1.46	1.52
1	l	201	GLY	N-CA	5.22	1.49	1.44
1	w	331	GLN	C-N	5.22	1.41	1.33
1	x	587	VAL	C-N	5.22	1.40	1.33
1	y	557	LYS	C-N	5.22	1.40	1.33
1	G	373	ARG	C-N	5.22	1.40	1.33
1	I	136	GLU	C-N	5.22	1.40	1.33
1	K	364	SER	C-N	5.22	1.40	1.33
1	L	525	GLU	N-CA	-5.22	1.40	1.46
1	V	514	GLU	CA-C	5.22	1.59	1.52
1	1	630	LEU	N-CA	5.21	1.52	1.46
1	3	531	PHE	CA-CB	5.21	1.61	1.53
1	8	330	GLN	CA-CB	5.21	1.61	1.53
1	9	362	GLU	CA-CB	5.21	1.61	1.54
1	9	412	PRO	CA-CB	5.21	1.60	1.53
1	g	481	GLU	C-N	5.21	1.40	1.33
1	k	674	ARG	CA-C	-5.21	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	y	678	LEU	C-N	5.21	1.41	1.33
1	F	368	PRO	CA-CB	-5.21	1.48	1.53
1	M	189	GLU	CA-C	-5.21	1.46	1.52
1	Y	510	GLN	C-N	5.21	1.41	1.33
1	5	700	THR	CA-C	5.21	1.59	1.52
1	i	129	SER	CA-CB	5.21	1.62	1.53
1	X	332	GLU	CA-CB	5.21	1.61	1.53
1	6	301	ARG	CZ-NH2	-5.21	1.26	1.33
1	7	249	ILE	C-N	5.21	1.40	1.33
1	7	280	HIS	CB-CG	5.21	1.57	1.50
1	8	283	ASP	C-N	5.21	1.40	1.34
1	c	280	HIS	ND1-CE1	5.21	1.37	1.32
1	c	308	MET	CA-CB	5.21	1.61	1.53
1	i	161	LYS	CA-C	5.21	1.58	1.52
1	i	707	CYS	CA-CB	5.21	1.61	1.53
1	m	580	CYS	N-CA	5.21	1.52	1.46
1	o	448	THR	C-N	5.21	1.40	1.33
1	x	191	HIS	N-CA	5.21	1.52	1.46
1	z	231	ARG	CD-NE	5.21	1.53	1.46
1	H	127	GLN	CA-CB	5.21	1.61	1.53
1	J	149	ILE	CA-CB	5.21	1.61	1.54
1	L	219	PRO	N-CD	-5.21	1.40	1.47
1	N	568	ILE	N-CA	5.21	1.52	1.46
1	O	524	MET	CA-CB	5.21	1.61	1.53
1	R	131	LYS	CA-C	5.21	1.59	1.52
1	T	316	TYR	CZ-OH	5.21	1.49	1.38
1	W	646	PRO	CA-C	5.21	1.59	1.52
1	s	566	ASN	C-O	-5.21	1.18	1.24
1	S	392	GLN	C-N	5.21	1.40	1.33
1	S	695	ARG	CD-NE	5.21	1.53	1.46
1	7	518	SER	CA-CB	5.21	1.61	1.53
1	8	253	ILE	C-O	-5.21	1.17	1.24
1	8	422	LEU	C-N	5.21	1.40	1.33
1	e	389	LEU	C-N	5.21	1.40	1.33
1	j	105	ASP	CA-CB	5.21	1.61	1.53
1	k	704	HIS	N-CA	-5.21	1.40	1.46
1	l	467	THR	C-N	5.21	1.41	1.33
1	x	369	ARG	CD-NE	5.21	1.53	1.46
1	y	649	ILE	N-CA	-5.21	1.40	1.46
1	F	468	ASN	CA-CB	5.21	1.61	1.53
1	G	491	GLU	CA-CB	5.21	1.61	1.53
1	G	710	SER	CA-CB	5.21	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	353	HIS	CG-CD2	5.21	1.41	1.35
1	I	518	SER	CA-C	5.21	1.59	1.52
1	L	339	LEU	CA-CB	5.21	1.61	1.53
1	M	351	GLN	CA-C	5.21	1.59	1.52
1	V	494	GLY	CA-C	5.21	1.56	1.52
1	V	586	SER	C-N	5.21	1.39	1.33
1	7	248	LEU	CB-CG	5.21	1.63	1.53
1	9	550	GLN	CA-C	-5.21	1.46	1.52
1	d	113	GLU	N-CA	5.21	1.52	1.46
1	d	695	ARG	CD-NE	5.21	1.53	1.46
1	h	670	GLN	N-CA	5.21	1.52	1.46
1	i	189	GLU	CA-C	-5.21	1.46	1.52
1	m	290	ILE	CA-CB	5.21	1.61	1.54
1	m	519	MET	CA-C	5.21	1.59	1.52
1	n	708	GLN	CA-CB	5.21	1.61	1.53
1	q	320	LYS	CA-C	-5.21	1.45	1.52
1	t	150	VAL	CA-CB	5.21	1.61	1.54
1	t	582	ASP	CA-CB	5.21	1.62	1.53
1	u	202	ARG	CA-CB	5.21	1.59	1.52
1	w	637	THR	CA-CB	-5.21	1.45	1.53
1	E	214	THR	CA-CB	5.21	1.61	1.53
1	G	249	ILE	CA-CB	5.21	1.60	1.54
1	L	555	ASP	CA-CB	5.21	1.61	1.53
1	M	490	LYS	CA-CB	5.21	1.62	1.53
1	N	560	HIS	C-N	5.21	1.40	1.33
1	U	358	VAL	CA-C	5.21	1.59	1.52
1	V	301	ARG	C-N	5.21	1.40	1.33
1	b	323	MET	C-N	5.21	1.40	1.33
1	w	220	ASP	C-N	5.21	1.40	1.33
1	C	671	GLU	CA-CB	5.21	1.61	1.53
1	L	329	GLY	C-O	-5.21	1.17	1.23
1	U	206	HIS	CA-C	5.21	1.59	1.52
1	U	346	GLU	C-N	5.21	1.40	1.33
1	Y	486	GLN	CA-C	-5.21	1.45	1.52
1	3	417	ASP	CA-CB	5.20	1.60	1.54
1	4	141	VAL	CA-CB	-5.20	1.48	1.54
1	4	305	LYS	C-N	5.20	1.40	1.33
1	5	511	GLN	CA-C	5.20	1.59	1.52
1	7	164	CYS	C-N	5.20	1.40	1.33
1	g	105	ASP	N-CA	-5.20	1.40	1.46
1	h	179	GLU	CA-CB	5.20	1.61	1.53
1	k	666	MET	C-O	-5.20	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	o	538	HIS	CE1-NE2	5.20	1.37	1.32
1	N	569	GLN	CA-C	5.20	1.59	1.52
1	P	440	GLU	CA-C	5.20	1.60	1.52
1	R	671	GLU	CA-C	5.20	1.59	1.52
1	S	701	GLN	CA-CB	5.20	1.61	1.53
1	U	567	MET	N-CA	5.20	1.52	1.46
1	d	593	ARG	CA-CB	5.20	1.61	1.53
1	g	462	VAL	N-CA	-5.20	1.39	1.46
1	H	152	ARG	CA-CB	5.20	1.62	1.53
1	Z	158	LYS	CA-CB	5.20	1.60	1.53
1	4	231	ARG	CD-NE	5.20	1.53	1.46
1	7	195	ASN	CA-C	5.20	1.59	1.52
1	b	272	THR	N-CA	5.20	1.52	1.46
1	c	369	ARG	CA-C	5.20	1.59	1.52
1	c	442	VAL	C-O	5.20	1.29	1.24
1	n	643	ASN	CA-CB	5.20	1.61	1.53
1	p	118	LEU	CA-C	5.20	1.59	1.52
1	q	380	MET	CA-C	5.20	1.59	1.52
1	t	137	ALA	CA-C	5.20	1.59	1.52
1	w	169	GLY	C-O	5.20	1.30	1.23
1	z	373	ARG	CD-NE	5.20	1.53	1.46
1	z	400	ALA	CA-CB	5.20	1.61	1.53
1	E	671	GLU	CA-C	5.20	1.59	1.52
1	N	253	ILE	CA-CB	-5.20	1.49	1.54
1	P	703	ARG	N-CA	-5.20	1.40	1.46
1	V	437	VAL	CA-CB	-5.20	1.48	1.54
1	Z	564	ALA	N-CA	-5.20	1.40	1.46
1	2	585	TYR	N-CA	-5.20	1.40	1.46
1	2	704	HIS	CD2-NE2	5.20	1.43	1.37
1	5	308	MET	C-O	-5.20	1.18	1.24
1	6	449	ARG	CA-C	5.20	1.59	1.52
1	c	640	ARG	CD-NE	5.20	1.53	1.46
1	e	414	GLN	N-CA	5.20	1.52	1.45
1	n	370	LEU	CA-CB	5.20	1.61	1.53
1	v	114	GLN	CA-CB	5.20	1.61	1.53
1	w	695	ARG	CA-CB	5.20	1.61	1.53
1	x	235	ASP	C-N	5.20	1.41	1.33
1	x	240	ASP	CA-CB	-5.20	1.43	1.53
1	z	100	CYS	C-N	-5.20	1.27	1.33
1	O	194	GLN	N-CA	-5.20	1.40	1.46
1	O	520	LEU	N-CA	-5.20	1.40	1.46
1	V	101	ILE	CA-CB	5.20	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h	299	MET	CA-CB	5.20	1.62	1.53
1	l	192	LYS	CA-CB	5.20	1.61	1.53
1	t	546	ASN	C-N	5.20	1.40	1.33
1	x	308	MET	CA-C	5.20	1.59	1.52
1	L	296	PRO	C-O	-5.20	1.17	1.24
1	Z	185	GLN	CA-CB	5.20	1.62	1.53
1	2	339	LEU	N-CA	-5.20	1.40	1.46
1	7	163	PRO	C-N	5.20	1.40	1.33
1	b	491	GLU	CA-CB	5.20	1.61	1.53
1	e	394	ARG	CD-NE	5.20	1.53	1.46
1	f	382	ILE	CA-C	5.20	1.59	1.52
1	f	491	GLU	CA-CB	5.20	1.60	1.53
1	j	685	THR	CA-CB	5.20	1.61	1.53
1	k	563	LYS	CA-CB	5.20	1.61	1.53
1	s	348	THR	CA-CB	5.20	1.61	1.53
1	s	543	PHE	CA-CB	5.20	1.61	1.53
1	v	322	TYR	C-N	5.20	1.41	1.33
1	B	360	LEU	C-O	-5.20	1.19	1.23
1	D	384	LYS	N-CA	-5.20	1.39	1.46
1	E	668	ILE	CA-C	-5.20	1.46	1.52
1	H	412	PRO	C-O	5.20	1.30	1.23
1	I	317	PRO	CA-C	-5.20	1.47	1.53
1	M	192	LYS	CA-C	5.20	1.59	1.52
1	N	697	TYR	C-O	5.20	1.30	1.24
1	U	134	VAL	CA-C	5.20	1.59	1.52
1	Z	312	ARG	NE-CZ	5.20	1.38	1.33
1	0	173	TYR	CA-CB	5.19	1.61	1.53
1	7	658	GLY	N-CA	5.19	1.52	1.45
1	8	506	HIS	ND1-CE1	5.19	1.37	1.32
1	K	250	LYS	C-N	5.19	1.40	1.33
1	R	328	ARG	C-N	5.19	1.39	1.33
1	0	557	LYS	C-O	-5.19	1.18	1.24
1	7	656	GLU	C-N	5.19	1.40	1.33
1	9	162	GLN	C-N	-5.19	1.28	1.34
1	9	513	VAL	N-CA	5.19	1.52	1.46
1	9	593	ARG	CA-C	5.19	1.59	1.52
1	c	405	ARG	CA-CB	5.19	1.61	1.53
1	h	263	VAL	C-N	5.19	1.37	1.33
1	i	242	GLY	N-CA	5.19	1.52	1.45
1	i	370	LEU	C-N	5.19	1.41	1.33
1	j	687	THR	CA-CB	5.19	1.61	1.53
1	m	95	GLN	CA-C	5.19	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	p	539	PHE	N-CA	-5.19	1.39	1.46
1	q	307	VAL	CA-CB	-5.19	1.48	1.54
1	r	461	TRP	NE1-CE2	5.19	1.43	1.37
1	I	147	SER	N-CA	5.19	1.52	1.46
1	L	208	LEU	N-CA	-5.19	1.39	1.46
1	O	172	SER	CA-CB	5.19	1.61	1.53
1	S	336	ARG	CD-NE	5.19	1.53	1.46
1	U	496	VAL	CA-CB	5.19	1.61	1.54
1	3	98	ARG	CZ-NH1	-5.19	1.25	1.32
1	6	295	LYS	C-N	5.19	1.38	1.33
1	7	219	PRO	CA-C	5.19	1.58	1.52
1	r	170	ARG	N-CA	-5.19	1.39	1.46
1	u	161	LYS	CA-C	-5.19	1.46	1.52
1	v	455	ARG	C-O	-5.19	1.17	1.24
1	B	660	SER	CA-CB	5.19	1.61	1.53
1	L	173	TYR	C-N	5.19	1.41	1.33
1	R	209	ILE	CA-CB	-5.19	1.48	1.54
1	V	317	PRO	N-CA	-5.19	1.40	1.47
1	Y	590	LYS	C-N	5.19	1.40	1.33
1	k	125	GLY	N-CA	5.19	1.51	1.45
1	1	174	ARG	NE-CZ	-5.19	1.27	1.33
1	5	212	GLU	CA-CB	5.19	1.61	1.53
1	e	146	GLY	C-N	-5.19	1.26	1.33
1	f	525	GLU	C-N	-5.19	1.27	1.33
1	g	107	LEU	CB-CG	5.19	1.63	1.53
1	g	707	CYS	N-CA	5.19	1.52	1.46
1	l	280	HIS	CD2-NE2	5.19	1.43	1.37
1	l	538	HIS	C-O	-5.19	1.17	1.24
1	q	279	ALA	CA-C	5.19	1.59	1.52
1	z	276	LEU	C-N	5.19	1.41	1.33
1	A	531	PHE	N-CA	-5.19	1.40	1.46
1	C	172	SER	C-N	5.19	1.41	1.33
1	K	555	ASP	N-CA	5.19	1.52	1.46
1	L	518	SER	CA-CB	5.19	1.61	1.53
1	O	322	TYR	CA-CB	5.19	1.61	1.53
1	Q	586	SER	CA-C	-5.19	1.46	1.52
1	0	218	VAL	CA-C	5.19	1.58	1.52
1	1	388	LEU	CB-CG	5.19	1.63	1.53
1	4	267	ASN	C-N	5.19	1.40	1.33
1	6	535	ALA	CA-C	5.19	1.59	1.52
1	h	538	HIS	ND1-CE1	5.19	1.37	1.32
1	l	632	ALA	C-N	5.19	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	t	476	ILE	CB-CG1	5.19	1.63	1.53
1	A	295	LYS	C-N	5.19	1.38	1.33
1	Y	526	ILE	CA-CB	-5.19	1.47	1.54
1	6	324	ILE	CA-CB	-5.18	1.48	1.54
1	8	488	ARG	CZ-NH2	-5.18	1.26	1.33
1	d	145	ARG	CD-NE	5.18	1.53	1.46
1	e	218	VAL	CA-CB	-5.18	1.47	1.54
1	g	108	ARG	CD-NE	5.18	1.53	1.46
1	i	212	GLU	C-N	5.18	1.40	1.33
1	v	343	THR	CA-C	5.18	1.59	1.52
1	I	490	LYS	CA-C	5.18	1.59	1.52
1	O	506	HIS	CE1-NE2	-5.18	1.27	1.32
1	Y	690	ARG	N-CA	5.18	1.52	1.46
1	Z	406	ARG	CA-C	5.18	1.59	1.52
1	8	572	PHE	CA-CB	5.18	1.61	1.53
1	a	655	ARG	CD-NE	5.18	1.53	1.46
1	c	369	ARG	CD-NE	5.18	1.53	1.46
1	f	262	VAL	N-CA	-5.18	1.40	1.46
1	f	681	GLU	CA-CB	5.18	1.61	1.53
1	h	702	ALA	N-CA	-5.18	1.39	1.46
1	m	332	GLU	C-N	5.18	1.39	1.33
1	n	407	CYS	N-CA	5.18	1.52	1.46
1	w	526	ILE	CA-C	5.18	1.59	1.52
1	J	123	VAL	CA-C	5.18	1.58	1.52
1	K	422	LEU	CA-CB	5.18	1.61	1.53
1	M	94	GLU	CA-C	5.18	1.59	1.52
1	Q	557	LYS	CA-CB	5.18	1.61	1.53
1	U	704	HIS	CG-ND1	5.18	1.44	1.38
1	V	185	GLN	N-CA	-5.18	1.39	1.46
1	Y	283	ASP	CA-CB	5.18	1.61	1.53
1	7	287	ASP	CA-CB	5.18	1.62	1.53
1	9	709	PHE	N-CA	5.18	1.52	1.46
1	S	268	VAL	CA-CB	-5.18	1.48	1.54
1	T	325	VAL	CA-C	-5.18	1.46	1.52
1	2	388	LEU	N-CA	5.18	1.52	1.46
1	5	544	ASN	CA-C	5.18	1.59	1.52
1	6	217	GLU	N-CA	5.18	1.52	1.46
1	6	688	LYS	N-CA	-5.18	1.40	1.46
1	a	593	ARG	N-CA	-5.18	1.38	1.45
1	c	625	GLU	CA-C	-5.18	1.46	1.52
1	m	683	SER	CA-C	5.18	1.59	1.52
1	u	560	HIS	ND1-CE1	5.18	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	371	ALA	CA-C	5.18	1.59	1.52
1	I	364	SER	CA-CB	5.18	1.62	1.53
1	O	177	GLU	CA-CB	5.18	1.61	1.53
1	7	529	GLN	CA-CB	5.18	1.61	1.53
1	9	427	LYS	CA-CB	5.18	1.61	1.53
1	e	571	GLN	CA-C	5.18	1.59	1.52
1	g	578	VAL	CA-CB	-5.18	1.47	1.54
1	n	168	ALA	C-N	5.18	1.41	1.33
1	n	260	ASN	CA-CB	5.18	1.60	1.53
1	w	182	ASP	C-N	-5.18	1.29	1.34
1	y	526	ILE	C-N	5.18	1.40	1.33
1	B	704	HIS	CE1-NE2	5.18	1.37	1.32
1	D	312	ARG	CA-C	5.18	1.59	1.52
1	H	98	ARG	CZ-NH2	-5.18	1.26	1.33
1	0	103	LEU	CB-CG	5.18	1.63	1.53
1	0	309	ASN	C-N	5.18	1.40	1.33
1	0	464	ILE	C-N	5.18	1.40	1.33
1	1	465	LEU	CA-CB	5.18	1.61	1.53
1	9	509	ILE	N-CA	5.18	1.52	1.46
1	n	100	CYS	C-N	5.18	1.40	1.33
1	n	230	THR	C-N	5.18	1.41	1.33
1	o	335	ASN	CA-CB	5.18	1.61	1.53
1	t	160	LYS	C-O	-5.18	1.18	1.24
1	w	205	SER	CA-C	5.18	1.58	1.52
1	x	104	ILE	CA-CB	5.18	1.60	1.54
1	A	463	GLY	C-N	5.18	1.40	1.33
1	A	625	GLU	C-O	-5.18	1.18	1.24
1	I	532	ILE	N-CA	5.18	1.52	1.46
1	M	143	LEU	CA-C	5.18	1.58	1.53
1	N	306	SER	CA-CB	5.18	1.61	1.53
1	O	355	TYR	CA-CB	5.18	1.61	1.53
1	O	588	VAL	CA-C	-5.18	1.46	1.52
1	Q	161	LYS	CA-CB	5.18	1.61	1.53
1	2	244	GLN	C-N	5.17	1.40	1.33
1	8	561	THR	CA-CB	5.17	1.61	1.53
1	a	475	ILE	N-CA	-5.17	1.39	1.45
1	b	428	MET	N-CA	-5.17	1.40	1.46
1	c	382	ILE	N-CA	5.17	1.52	1.46
1	h	420	PHE	N-CA	-5.17	1.40	1.46
1	i	704	HIS	CG-ND1	5.17	1.44	1.38
1	l	470	GLN	C-N	5.17	1.40	1.33
1	l	710	SER	CA-C	5.17	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	r	205	SER	C-N	5.17	1.40	1.33
1	t	508	TYR	CA-C	5.17	1.59	1.52
1	w	223	ILE	C-N	5.17	1.40	1.33
1	y	116	LEU	N-CA	5.17	1.52	1.46
1	E	341	GLU	C-N	5.17	1.40	1.33
1	L	206	HIS	CG-CD2	5.17	1.41	1.35
1	P	314	LEU	C-N	5.17	1.40	1.33
1	U	684	GLU	CA-CB	5.17	1.61	1.53
1	9	264	VAL	CA-CB	-5.17	1.48	1.54
1	e	453	LYS	N-CA	-5.17	1.40	1.46
1	i	694	GLU	N-CA	-5.17	1.40	1.46
1	Z	584	ILE	CA-C	5.17	1.59	1.52
1	4	340	ALA	N-CA	5.17	1.52	1.46
1	6	332	GLU	CA-C	-5.17	1.45	1.52
1	l	225	ASP	CA-C	5.17	1.59	1.52
1	u	487	TYR	CB-CG	-5.17	1.40	1.51
1	u	631	ASN	CG-ND2	5.17	1.44	1.33
1	x	528	GLN	N-CA	-5.17	1.40	1.46
1	G	671	GLU	C-N	5.17	1.40	1.33
1	J	321	GLY	CA-C	-5.17	1.44	1.52
1	U	173	TYR	C-N	5.17	1.41	1.33
1	U	422	LEU	CA-C	5.17	1.59	1.52
1	W	709	PHE	N-CA	-5.17	1.40	1.46
1	3	152	ARG	C-O	-5.17	1.18	1.24
1	5	412	PRO	CA-CB	5.17	1.59	1.54
1	7	103	LEU	CA-C	5.17	1.59	1.52
1	e	217	GLU	C-O	5.17	1.30	1.24
1	e	529	GLN	C-N	5.17	1.40	1.33
1	h	154	PRO	N-CA	-5.17	1.40	1.47
1	q	589	LEU	C-N	5.17	1.40	1.34
1	t	662	GLN	CA-CB	5.17	1.61	1.53
1	u	472	VAL	CA-C	5.17	1.60	1.52
1	u	700	THR	N-CA	-5.17	1.39	1.46
1	C	259	ILE	CA-CB	5.17	1.60	1.54
1	E	371	ALA	CA-C	5.17	1.59	1.52
1	I	499	LYS	CA-CB	5.17	1.61	1.53
1	K	389	LEU	C-N	5.17	1.40	1.33
1	P	428	MET	N-CA	-5.17	1.40	1.46
1	3	540	GLY	C-O	-5.17	1.17	1.23
1	7	699	LEU	CA-C	-5.17	1.46	1.52
1	b	262	VAL	CA-C	5.17	1.58	1.52
1	d	545	LEU	C-N	5.17	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f	143	LEU	CA-C	5.17	1.59	1.53
1	j	187	GLU	CA-CB	5.17	1.61	1.53
1	y	165	GLU	CA-CB	5.17	1.61	1.53
1	A	253	ILE	C-N	5.17	1.40	1.33
1	P	202	ARG	CZ-NH1	-5.17	1.25	1.32
1	P	249	ILE	CA-CB	-5.17	1.48	1.54
1	4	542	PHE	C-N	5.17	1.40	1.33
1	6	422	LEU	C-N	5.17	1.40	1.34
1	a	513	VAL	CA-CB	-5.17	1.48	1.54
1	d	466	ALA	C-N	5.17	1.40	1.33
1	e	182	ASP	C-O	5.17	1.30	1.23
1	i	552	THR	N-CA	5.17	1.52	1.46
1	j	572	PHE	C-O	5.17	1.30	1.24
1	o	385	SER	C-N	5.17	1.40	1.33
1	r	286	GLY	N-CA	5.17	1.52	1.45
1	D	430	ASN	CA-CB	5.17	1.61	1.53
1	E	373	ARG	C-N	5.17	1.40	1.33
1	L	267	ASN	CA-CB	5.17	1.61	1.53
1	N	336	ARG	C-N	5.17	1.40	1.33
1	P	561	THR	CA-CB	5.17	1.61	1.53
1	U	579	PHE	N-CA	-5.17	1.39	1.45
1	V	141	VAL	CA-CB	5.17	1.62	1.54
1	W	186	VAL	CA-CB	5.17	1.60	1.54
1	9	504	ILE	CA-CB	5.17	1.61	1.54
1	f	266	CYS	CA-C	5.17	1.59	1.52
1	i	149	ILE	CA-C	5.17	1.58	1.52
1	p	97	VAL	C-O	5.17	1.30	1.24
1	p	240	ASP	C-N	5.17	1.40	1.33
1	v	450	LEU	CA-C	-5.17	1.46	1.52
1	w	376	THR	CB-OG1	-5.17	1.35	1.43
1	E	203	GLY	CA-C	5.17	1.59	1.51
1	K	665	MET	C-N	5.17	1.41	1.33
1	M	442	VAL	C-O	-5.17	1.18	1.24
1	3	478	GLU	CA-C	5.16	1.59	1.52
1	g	125	GLY	N-CA	5.16	1.51	1.45
1	g	508	TYR	CA-CB	5.16	1.61	1.53
1	h	229	ILE	CA-C	5.16	1.58	1.52
1	q	264	VAL	C-N	-5.16	1.27	1.33
1	r	298	LEU	CA-CB	5.16	1.61	1.53
1	y	172	SER	N-CA	-5.16	1.39	1.45
1	y	398	GLN	CA-C	5.16	1.59	1.52
1	y	706	LEU	N-CA	5.16	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	564	ALA	CA-C	-5.16	1.46	1.52
1	J	107	LEU	N-CA	-5.16	1.40	1.46
1	R	158	LYS	CA-C	5.16	1.58	1.52
1	V	705	ALA	N-CA	5.16	1.52	1.46
1	0	103	LEU	N-CA	5.16	1.52	1.46
1	1	471	LYS	N-CA	5.16	1.52	1.46
1	2	415	GLU	N-CA	5.16	1.52	1.46
1	s	328	ARG	CZ-NH2	-5.16	1.26	1.33
1	F	546	ASN	CA-C	-5.16	1.46	1.52
1	7	356	PHE	N-CA	5.16	1.52	1.46
1	7	473	LYS	C-N	5.16	1.40	1.33
1	i	416	ALA	CA-C	5.16	1.59	1.52
1	B	407	CYS	CA-C	5.16	1.59	1.53
1	F	459	LYS	CA-C	5.16	1.59	1.52
1	Q	225	ASP	C-N	5.16	1.40	1.33
1	U	424	GLU	CA-C	5.16	1.59	1.52
1	V	631	ASN	N-CA	-5.16	1.40	1.46
1	X	432	ASP	CA-CB	5.16	1.61	1.53
1	3	277	SER	C-N	5.16	1.40	1.33
1	3	331	GLN	C-N	5.16	1.40	1.33
1	7	178	LEU	C-N	5.16	1.40	1.33
1	c	346	GLU	C-O	-5.16	1.18	1.24
1	k	630	LEU	C-N	5.16	1.40	1.33
1	o	141	VAL	CA-C	5.16	1.59	1.52
1	p	260	ASN	C-O	-5.16	1.17	1.24
1	w	640	ARG	CD-NE	5.16	1.53	1.46
1	x	350	PHE	CA-C	-5.16	1.46	1.52
1	y	528	GLN	CA-C	-5.16	1.46	1.52
1	M	301	ARG	CD-NE	5.16	1.53	1.46
1	W	589	LEU	CA-CB	5.16	1.61	1.53
1	g	354	PRO	C-O	5.16	1.30	1.24
1	D	266	CYS	N-CA	-5.16	1.40	1.46
1	M	655	ARG	N-CA	-5.16	1.40	1.46
1	O	509	ILE	N-CA	-5.16	1.40	1.46
1	0	297	ASP	N-CA	-5.16	1.40	1.46
1	1	596	ILE	CA-C	-5.16	1.46	1.52
1	2	632	ALA	C-N	5.16	1.41	1.33
1	3	237	GLN	N-CA	-5.16	1.41	1.46
1	6	192	LYS	C-N	-5.16	1.26	1.33
1	8	627	GLY	C-N	5.16	1.40	1.33
1	b	336	ARG	NE-CZ	-5.16	1.27	1.33
1	e	357	ARG	C-N	5.16	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f	144	PRO	C-N	5.16	1.40	1.33
1	i	286	GLY	C-N	5.16	1.40	1.33
1	m	248	LEU	C-N	5.16	1.40	1.34
1	C	108	ARG	CD-NE	5.16	1.53	1.46
1	I	546	ASN	CA-C	5.16	1.59	1.52
1	K	463	GLY	CA-C	5.16	1.57	1.52
1	N	297	ASP	CA-C	-5.16	1.45	1.52
1	Q	378	LEU	CA-C	5.16	1.59	1.52
1	Y	358	VAL	C-O	5.16	1.30	1.24
1	8	248	LEU	C-N	5.15	1.40	1.34
1	c	431	GLN	N-CA	5.15	1.52	1.46
1	m	220	ASP	C-O	5.15	1.29	1.23
1	r	550	GLN	CA-CB	5.15	1.61	1.53
1	z	476	ILE	N-CA	5.15	1.53	1.46
1	E	657	ASN	CA-CB	-5.15	1.45	1.53
1	H	344	LYS	CA-CB	5.15	1.61	1.53
1	3	359	LEU	C-O	-5.15	1.18	1.24
1	e	434	GLU	N-CA	-5.15	1.40	1.46
1	i	346	GLU	C-O	-5.15	1.18	1.24
1	m	225	ASP	CA-CB	5.15	1.59	1.52
1	o	156	VAL	CA-CB	-5.15	1.48	1.53
1	p	443	VAL	CA-C	5.15	1.58	1.52
1	s	95	GLN	CA-C	5.15	1.59	1.52
1	A	124	ILE	CA-C	5.15	1.59	1.52
1	D	325	VAL	CA-CB	-5.15	1.47	1.54
1	F	179	GLU	C-N	5.15	1.41	1.33
1	G	674	ARG	CA-CB	5.15	1.62	1.53
1	I	202	ARG	CD-NE	5.15	1.53	1.46
1	M	318	LEU	CA-CB	5.15	1.61	1.53
1	O	157	LEU	CB-CG	5.15	1.63	1.53
1	T	497	ASN	CA-CB	5.15	1.61	1.53
1	T	633	TYR	CA-CB	5.15	1.61	1.53
1	V	104	ILE	C-N	5.15	1.40	1.33
1	V	534	VAL	CA-C	5.15	1.59	1.52
1	0	463	GLY	CA-C	5.15	1.58	1.51
1	3	232	VAL	CA-C	5.15	1.58	1.52
1	5	688	LYS	CA-C	5.15	1.59	1.52
1	8	460	ASN	C-N	5.15	1.40	1.33
1	d	381	HIS	ND1-CE1	5.15	1.37	1.32
1	f	191	HIS	CG-CD2	5.15	1.41	1.35
1	f	218	VAL	CA-C	5.15	1.57	1.52
1	h	161	LYS	CA-CB	5.15	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j	164	CYS	C-N	5.15	1.40	1.33
1	m	221	LEU	C-N	5.15	1.41	1.33
1	w	398	GLN	CA-CB	5.15	1.61	1.53
1	A	696	ILE	CA-C	-5.15	1.46	1.52
1	E	109	ALA	C-N	5.15	1.40	1.33
1	E	683	SER	C-O	-5.15	1.18	1.24
1	F	453	LYS	N-CA	-5.15	1.40	1.46
1	N	695	ARG	CD-NE	5.15	1.53	1.46
1	Z	585	TYR	CA-C	5.15	1.59	1.52
1	3	632	ALA	CA-C	5.15	1.59	1.52
1	4	498	TYR	C-N	5.15	1.40	1.33
1	6	389	LEU	CA-CB	5.15	1.61	1.53
1	a	280	HIS	CG-CD2	5.15	1.41	1.35
1	j	464	ILE	N-CA	5.15	1.52	1.46
1	m	177	GLU	CA-CB	5.15	1.59	1.53
1	u	406	ARG	CZ-NH2	5.15	1.40	1.33
1	U	518	SER	C-N	5.15	1.40	1.33
1	0	442	VAL	CA-CB	-5.15	1.47	1.54
1	6	311	VAL	N-CA	5.15	1.52	1.46
1	8	279	ALA	C-N	5.15	1.40	1.33
1	a	154	PRO	CA-CB	5.15	1.61	1.53
1	a	198	ALA	CA-CB	5.15	1.60	1.53
1	g	94	GLU	CA-C	5.15	1.59	1.52
1	g	442	VAL	CA-C	-5.15	1.46	1.52
1	i	145	ARG	N-CA	-5.15	1.39	1.46
1	k	239	ARG	CD-NE	5.15	1.53	1.46
1	q	231	ARG	CD-NE	5.15	1.53	1.46
1	s	525	GLU	CA-C	5.15	1.59	1.52
1	u	514	GLU	C-N	5.15	1.40	1.34
1	H	436	LEU	CA-CB	5.15	1.61	1.53
1	9	663	LYS	C-N	5.15	1.41	1.33
1	q	593	ARG	CD-NE	5.15	1.53	1.46
1	w	103	LEU	C-N	5.15	1.40	1.34
1	E	432	ASP	C-N	5.15	1.40	1.33
1	0	474	ASN	CA-CB	5.14	1.61	1.53
1	2	551	SER	CA-CB	5.14	1.61	1.53
1	a	624	THR	CA-C	-5.14	1.46	1.52
1	h	211	LEU	CA-C	5.14	1.58	1.52
1	k	202	ARG	CA-CB	5.14	1.60	1.52
1	l	381	HIS	C-N	-5.14	1.27	1.33
1	m	509	ILE	C-N	5.14	1.40	1.33
1	q	183	PRO	N-CA	5.14	1.53	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	633	TYR	CA-CB	5.14	1.61	1.53
1	K	648	ILE	C-N	5.14	1.40	1.33
1	P	160	LYS	CA-CB	5.14	1.62	1.53
1	P	415	GLU	CA-CB	5.14	1.62	1.53
1	Q	181	GLN	CA-C	5.14	1.59	1.52
1	R	488	ARG	CD-NE	5.14	1.53	1.46
1	U	463	GLY	C-N	5.14	1.40	1.33
1	9	454	ILE	CA-CB	-5.14	1.48	1.54
1	c	498	TYR	CA-C	5.14	1.59	1.52
1	p	475	ILE	C-N	5.14	1.40	1.33
1	t	530	ALA	C-N	5.14	1.40	1.33
1	w	426	ILE	N-CA	5.14	1.52	1.46
1	x	114	GLN	CA-CB	5.14	1.61	1.53
1	y	96	LYS	CA-C	5.14	1.59	1.52
1	C	414	GLN	CA-CB	5.14	1.60	1.53
1	N	468	ASN	CA-CB	5.14	1.62	1.53
1	P	117	ALA	CA-C	5.14	1.59	1.52
1	Y	247	ALA	C-N	5.14	1.40	1.33
1	2	409	ALA	CA-C	5.14	1.58	1.52
1	6	109	ALA	C-O	-5.14	1.18	1.24
1	a	542	PHE	CA-C	5.14	1.58	1.52
1	Z	177	GLU	CA-C	5.14	1.58	1.52
1	1	253	ILE	CA-C	-5.14	1.46	1.52
1	9	253	ILE	CB-CG1	5.14	1.63	1.53
1	a	165	GLU	N-CA	5.14	1.52	1.46
1	a	250	LYS	CA-CB	5.14	1.61	1.53
1	g	506	HIS	CE1-NE2	-5.14	1.27	1.32
1	m	315	THR	CA-C	5.14	1.59	1.52
1	H	110	LEU	CA-CB	5.14	1.61	1.53
1	O	156	VAL	CA-CB	-5.14	1.47	1.53
1	V	628	ILE	CA-CB	-5.14	1.47	1.54
1	W	373	ARG	CD-NE	5.14	1.53	1.46
1	W	410	ASP	C-N	-5.14	1.27	1.33
1	7	212	GLU	N-CA	5.14	1.52	1.46
1	9	696	ILE	C-N	-5.14	1.26	1.33
1	a	666	MET	C-N	5.14	1.41	1.34
1	h	214	THR	N-CA	5.14	1.52	1.46
1	j	526	ILE	CB-CG1	5.14	1.63	1.53
1	y	355	TYR	CA-CB	5.14	1.61	1.53
1	A	404	LEU	CA-C	-5.14	1.45	1.52
1	O	109	ALA	CA-C	5.14	1.59	1.52
1	T	536	LYS	N-CA	-5.14	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2	697	TYR	CA-C	5.14	1.59	1.52
1	3	460	ASN	N-CA	5.14	1.52	1.46
1	8	316	TYR	CG-CD2	5.14	1.50	1.39
1	a	349	PHE	CA-CB	5.14	1.61	1.53
1	e	449	ARG	C-O	5.14	1.30	1.23
1	t	395	GLU	C-O	-5.14	1.18	1.24
1	v	160	LYS	N-CA	-5.14	1.40	1.46
1	w	490	LYS	CA-CB	5.14	1.61	1.53
1	y	206	HIS	CB-CG	5.14	1.57	1.50
1	B	483	TYR	CA-C	5.14	1.57	1.52
1	E	585	TYR	CA-CB	5.14	1.61	1.53
1	G	312	ARG	CA-C	5.14	1.59	1.52
1	H	455	ARG	C-N	5.14	1.40	1.34
1	J	149	ILE	CA-C	5.14	1.59	1.52
1	Z	488	ARG	CA-CB	5.14	1.61	1.53
1	5	474	ASN	N-CA	5.13	1.52	1.46
1	8	530	ALA	N-CA	5.13	1.52	1.46
1	e	393	ILE	CA-CB	-5.13	1.47	1.54
1	h	551	SER	N-CA	5.13	1.52	1.46
1	s	420	PHE	C-N	5.13	1.41	1.33
1	s	486	GLN	CA-C	5.13	1.59	1.52
1	u	456	GLU	CA-CB	5.13	1.61	1.53
1	y	640	ARG	NE-CZ	5.13	1.38	1.33
1	H	437	VAL	CA-CB	-5.13	1.47	1.54
1	I	455	ARG	CD-NE	5.13	1.53	1.46
1	T	671	GLU	CA-C	5.13	1.59	1.52
1	T	675	TYR	N-CA	5.13	1.52	1.46
1	Y	538	HIS	C-N	5.13	1.40	1.33
1	k	133	SER	CA-CB	5.13	1.62	1.53
1	s	101	ILE	CA-C	-5.13	1.46	1.52
1	A	139	SER	CA-CB	5.13	1.63	1.54
1	C	237	GLN	CA-C	5.13	1.59	1.53
1	U	288	ARG	CZ-NH2	-5.13	1.26	1.33
1	Y	359	LEU	CA-CB	5.13	1.61	1.53
1	7	533	ASN	C-N	5.13	1.40	1.33
1	7	651	TYR	C-N	5.13	1.41	1.33
1	e	137	ALA	C-N	-5.13	1.27	1.33
1	q	412	PRO	C-N	5.13	1.41	1.34
1	w	408	GLY	N-CA	5.13	1.52	1.45
1	O	639	LYS	C-N	5.13	1.41	1.34
1	V	131	LYS	CA-CB	5.13	1.62	1.53
1	X	240	ASP	C-N	5.13	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Y	626	ILE	C-O	5.13	1.29	1.24
1	h	689	ARG	CA-CB	-5.13	1.45	1.53
1	m	160	LYS	CA-C	5.13	1.58	1.52
1	o	528	GLN	CA-C	5.13	1.59	1.52
1	z	202	ARG	N-CA	-5.13	1.40	1.46
1	B	198	ALA	C-N	5.13	1.41	1.33
1	F	449	ARG	N-CA	5.13	1.52	1.46
1	M	368	PRO	C-N	5.13	1.41	1.33
1	9	675	TYR	C-N	-5.13	1.26	1.34
1	e	149	ILE	C-N	5.13	1.38	1.33
1	l	553	ILE	CA-CB	-5.13	1.48	1.54
1	t	94	GLU	C-N	5.13	1.40	1.33
1	C	342	ALA	C-N	5.13	1.40	1.33
1	C	710	SER	CA-C	5.13	1.60	1.52
1	E	183	PRO	CA-C	-5.13	1.45	1.52
1	E	279	ALA	C-O	-5.13	1.18	1.24
1	F	306	SER	CA-CB	5.13	1.61	1.53
1	J	695	ARG	CA-CB	5.13	1.61	1.53
1	R	695	ARG	C-N	5.13	1.40	1.33
1	T	245	ILE	CA-CB	-5.13	1.47	1.54
1	T	375	THR	N-CA	5.13	1.52	1.46
1	V	582	ASP	N-CA	5.13	1.53	1.46
1	0	163	PRO	CA-CB	5.13	1.61	1.53
1	0	288	ARG	CA-C	-5.13	1.46	1.52
1	5	156	VAL	CA-C	-5.13	1.47	1.52
1	b	227	PRO	CA-C	5.13	1.59	1.52
1	d	597	PHE	CA-CB	5.13	1.61	1.53
1	l	433	ILE	C-N	5.13	1.40	1.33
1	p	538	HIS	CD2-NE2	5.13	1.43	1.37
1	q	292	ILE	CB-CG1	5.13	1.63	1.53
1	D	265	PRO	CA-C	5.13	1.58	1.52
1	H	236	ASN	N-CA	-5.13	1.39	1.46
1	I	188	LYS	CA-CB	5.13	1.61	1.53
1	N	233	ALA	CA-CB	5.13	1.62	1.53
1	O	499	LYS	CA-C	5.13	1.59	1.52
1	Q	264	VAL	C-O	-5.13	1.18	1.24
1	R	287	ASP	CA-CB	5.13	1.61	1.53
1	U	155	LEU	C-N	5.13	1.40	1.33
1	U	367	VAL	N-CA	-5.13	1.41	1.46
1	7	655	ARG	N-CA	-5.12	1.40	1.46
1	8	573	ARG	CD-NE	5.12	1.53	1.46
1	b	665	MET	CA-CB	5.12	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c	394	ARG	CZ-NH2	-5.12	1.26	1.33
1	i	524	MET	CA-CB	5.12	1.61	1.53
1	j	356	PHE	C-N	5.12	1.40	1.33
1	l	316	TYR	C-O	5.12	1.29	1.25
1	o	119	PRO	C-N	5.12	1.39	1.33
1	o	461	TRP	N-CA	-5.12	1.40	1.46
1	G	328	ARG	CA-CB	5.12	1.62	1.53
1	G	545	LEU	N-CA	-5.12	1.40	1.46
1	I	253	ILE	N-CA	5.12	1.53	1.46
1	L	593	ARG	CA-CB	5.12	1.61	1.53
1	M	116	LEU	C-N	5.12	1.40	1.33
1	S	369	ARG	CD-NE	5.12	1.53	1.46
1	2	477	HIS	CB-CG	-5.12	1.43	1.50
1	6	578	VAL	N-CA	5.12	1.52	1.46
1	a	211	LEU	CA-C	5.12	1.58	1.52
1	a	281	GLU	N-CA	5.12	1.52	1.46
1	a	523	ALA	N-CA	-5.12	1.40	1.46
1	e	278	MET	C-O	5.12	1.30	1.24
1	g	334	THR	CA-CB	5.12	1.61	1.53
1	j	361	GLU	CA-CB	5.12	1.61	1.53
1	l	403	GLU	CA-C	5.12	1.59	1.52
1	p	123	VAL	C-N	-5.12	1.26	1.33
1	p	488	ARG	CA-CB	5.12	1.61	1.53
1	s	567	MET	C-O	-5.12	1.18	1.24
1	v	670	GLN	C-N	5.12	1.40	1.33
1	A	94	GLU	CA-CB	5.12	1.61	1.53
1	D	389	LEU	C-N	5.12	1.40	1.33
1	L	255	ARG	CZ-NH2	-5.12	1.26	1.33
1	M	215	SER	CA-CB	5.12	1.61	1.53
1	P	497	ASN	CA-CB	5.12	1.60	1.53
1	1	475	ILE	CA-C	5.12	1.59	1.52
1	6	592	VAL	CA-CB	5.12	1.61	1.54
1	8	268	VAL	CA-C	5.12	1.58	1.52
1	c	506	HIS	ND1-CE1	5.12	1.37	1.32
1	f	372	GLU	C-N	5.12	1.40	1.33
1	i	688	LYS	CA-CB	5.12	1.61	1.53
1	n	413	SER	CA-CB	5.12	1.61	1.53
1	p	584	ILE	CA-CB	5.12	1.60	1.54
1	r	456	GLU	CA-CB	5.12	1.61	1.53
1	s	191	HIS	CG-CD2	5.12	1.41	1.35
1	u	271	ALA	C-N	5.12	1.40	1.33
1	y	260	ASN	C-O	5.12	1.29	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	708	GLN	CA-C	5.12	1.59	1.52
1	P	177	GLU	N-CA	-5.12	1.39	1.46
1	S	235	ASP	CA-CB	5.12	1.62	1.53
1	Y	114	GLN	CA-C	5.12	1.59	1.52
1	l	178	LEU	CB-CG	5.12	1.63	1.53
1	d	655	ARG	CD-NE	5.12	1.53	1.46
1	p	147	SER	CA-C	-5.12	1.46	1.52
1	v	218	VAL	C-N	5.12	1.40	1.33
1	E	698	ARG	C-N	5.12	1.40	1.33
1	J	259	ILE	C-O	-5.12	1.18	1.24
1	L	155	LEU	CA-C	5.12	1.59	1.52
1	N	379	ILE	CA-CB	5.12	1.60	1.54
1	N	588	VAL	N-CA	5.12	1.52	1.46
1	6	686	ALA	CA-C	5.12	1.59	1.52
1	e	309	ASN	CA-CB	5.12	1.61	1.53
1	k	99	PRO	N-CA	-5.12	1.40	1.47
1	p	651	TYR	N-CA	-5.12	1.41	1.46
1	s	666	MET	N-CA	5.12	1.53	1.46
1	s	686	ALA	CA-CB	-5.12	1.44	1.53
1	u	638	SER	C-N	5.12	1.40	1.33
1	I	105	ASP	C-N	5.12	1.40	1.33
1	I	532	ILE	CA-C	-5.12	1.46	1.52
1	L	199	GLY	C-N	5.12	1.40	1.33
1	O	288	ARG	C-N	5.12	1.42	1.33
1	Q	698	ARG	CA-CB	5.12	1.61	1.53
1	l	325	VAL	N-CA	5.12	1.52	1.46
1	2	450	LEU	N-CA	5.12	1.52	1.46
1	5	642	ALA	C-N	5.12	1.40	1.33
1	7	122	ALA	C-N	5.12	1.40	1.33
1	e	435	LYS	C-N	5.12	1.40	1.33
1	q	389	LEU	CA-C	-5.12	1.46	1.52
1	v	328	ARG	CA-C	5.12	1.59	1.52
1	z	231	ARG	C-N	5.12	1.41	1.33
1	I	213	ILE	C-N	5.12	1.40	1.33
1	M	170	ARG	N-CA	-5.12	1.39	1.45
1	T	295	LYS	CA-C	5.12	1.57	1.53
1	Z	106	SER	CA-CB	5.12	1.61	1.53
1	0	194	GLN	CA-CB	5.12	1.61	1.53
1	5	514	GLU	N-CA	-5.12	1.41	1.46
1	7	236	ASN	CA-C	5.12	1.59	1.52
1	b	177	GLU	CA-C	5.12	1.59	1.52
1	b	636	GLU	CA-CB	5.12	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c	324	ILE	C-O	5.12	1.29	1.24
1	d	679	LEU	C-N	5.12	1.41	1.33
1	e	173	TYR	CA-CB	5.12	1.61	1.53
1	o	274	GLU	C-N	5.12	1.40	1.34
1	o	307	VAL	CA-CB	-5.12	1.48	1.54
1	t	101	ILE	CA-CB	-5.12	1.47	1.54
1	w	219	PRO	N-CD	5.12	1.54	1.47
1	C	400	ALA	N-CA	-5.12	1.40	1.46
1	H	335	ASN	CA-CB	5.12	1.61	1.53
1	K	573	ARG	CD-NE	5.12	1.53	1.46
1	N	459	LYS	N-CA	5.12	1.52	1.46
1	P	623	PHE	CA-CB	5.12	1.61	1.53
1	T	207	GLU	N-CA	5.12	1.52	1.46
1	0	533	ASN	CA-C	5.11	1.59	1.52
1	2	629	HIS	ND1-CE1	5.11	1.37	1.32
1	6	299	MET	CA-CB	5.11	1.61	1.53
1	9	200	ASN	C-N	5.11	1.41	1.32
1	k	419	MET	CA-CB	5.11	1.61	1.53
1	n	454	ILE	CA-CB	-5.11	1.47	1.54
1	v	245	ILE	CA-CB	-5.11	1.48	1.54
1	D	255	ARG	CA-CB	5.11	1.62	1.53
1	G	429	PHE	N-CA	-5.11	1.40	1.46
1	I	165	GLU	CA-CB	5.11	1.62	1.53
1	L	379	ILE	C-N	5.11	1.40	1.33
1	L	527	ILE	N-CA	5.11	1.52	1.46
1	T	214	THR	CA-C	-5.11	1.46	1.52
1	T	659	ASP	C-N	5.11	1.41	1.34
1	U	633	TYR	C-N	5.11	1.40	1.33
1	4	167	TRP	CA-C	5.11	1.58	1.52
1	8	125	GLY	N-CA	5.11	1.50	1.45
1	g	551	SER	CA-CB	5.11	1.61	1.53
1	j	344	LYS	C-N	-5.11	1.27	1.33
1	k	459	LYS	N-CA	-5.11	1.40	1.46
1	l	97	VAL	C-N	5.11	1.40	1.33
1	l	303	THR	CA-C	-5.11	1.46	1.52
1	p	371	ALA	C-N	5.11	1.41	1.33
1	w	683	SER	CA-CB	5.11	1.61	1.53
1	y	657	ASN	N-CA	-5.11	1.40	1.46
1	z	703	ARG	C-O	-5.11	1.18	1.24
1	K	108	ARG	C-N	5.11	1.40	1.33
1	M	194	GLN	CA-CB	5.11	1.61	1.53
1	P	375	THR	N-CA	5.11	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	V	459	LYS	N-CA	5.11	1.52	1.46
1	l	580	CYS	CA-CB	5.11	1.62	1.53
1	l	665	MET	N-CA	-5.11	1.39	1.46
1	e	317	PRO	CA-CB	5.11	1.60	1.53
1	f	389	LEU	CA-CB	5.11	1.61	1.53
1	h	230	THR	CA-C	-5.11	1.45	1.52
1	i	387	PRO	N-CD	5.11	1.54	1.47
1	k	372	GLU	CA-C	-5.11	1.46	1.52
1	q	466	ALA	CA-CB	5.11	1.61	1.53
1	y	710	SER	CA-CB	5.11	1.62	1.53
1	E	197	MET	CA-CB	5.11	1.62	1.53
1	J	173	TYR	CA-CB	5.11	1.58	1.53
1	K	283	ASP	CA-C	5.11	1.58	1.52
1	L	106	SER	N-CA	-5.11	1.40	1.46
1	L	575	GLU	CA-CB	5.11	1.62	1.53
1	Q	185	GLN	C-O	-5.11	1.17	1.24
1	Q	534	VAL	C-N	-5.11	1.26	1.33
1	U	446	ASN	N-CA	5.11	1.53	1.46
1	5	192	LYS	CA-CB	5.11	1.61	1.53
1	c	656	GLU	CA-CB	5.11	1.62	1.53
1	n	113	GLU	C-N	5.11	1.40	1.33
1	J	246	LYS	CA-CB	5.11	1.61	1.53
1	N	458	PHE	CA-C	-5.11	1.45	1.52
1	P	109	ALA	CA-C	5.11	1.59	1.52
1	0	192	LYS	N-CA	-5.11	1.39	1.46
1	4	565	GLU	CA-C	5.11	1.59	1.52
1	9	553	ILE	C-O	-5.11	1.18	1.24
1	c	575	GLU	C-O	-5.11	1.17	1.24
1	e	536	LYS	CA-CB	5.11	1.61	1.53
1	m	558	VAL	N-CA	5.11	1.52	1.46
1	t	538	HIS	C-N	5.11	1.40	1.33
1	x	509	ILE	C-N	5.11	1.40	1.33
1	z	341	GLU	C-N	5.11	1.40	1.33
1	F	147	SER	CA-C	5.11	1.58	1.52
1	W	431	GLN	CA-CB	5.11	1.61	1.53
1	X	475	ILE	CA-C	-5.11	1.46	1.52
1	Z	187	GLU	C-N	5.11	1.40	1.33
1	Z	339	LEU	CA-CB	5.11	1.61	1.53
1	Z	500	THR	N-CA	-5.11	1.40	1.46
1	8	264	VAL	N-CA	-5.11	1.42	1.46
1	b	296	PRO	N-CA	5.11	1.54	1.47
1	c	97	VAL	N-CA	5.11	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h	298	LEU	N-CA	-5.11	1.39	1.46
1	j	170	ARG	CA-CB	5.11	1.62	1.53
1	I	354	PRO	CA-CB	-5.11	1.46	1.53
1	L	263	VAL	CA-C	-5.11	1.46	1.52
1	M	563	LYS	CA-CB	5.11	1.61	1.53
1	N	273	THR	CA-CB	5.11	1.59	1.53
1	N	362	GLU	C-N	5.11	1.41	1.33
1	P	543	PHE	C-N	5.11	1.41	1.33
1	S	231	ARG	N-CA	5.11	1.52	1.46
1	U	280	HIS	C-N	-5.11	1.27	1.33
1	X	473	LYS	N-CA	5.11	1.52	1.46
1	3	483	TYR	C-N	5.10	1.40	1.33
1	7	235	ASP	CA-C	5.10	1.59	1.52
1	9	487	TYR	CA-C	-5.10	1.45	1.52
1	m	460	ASN	C-N	5.10	1.40	1.33
1	u	417	ASP	CA-CB	5.10	1.61	1.53
1	B	540	GLY	CA-C	-5.10	1.46	1.52
1	G	580	CYS	N-CA	-5.10	1.40	1.47
1	J	699	LEU	N-CA	5.10	1.52	1.46
1	Q	163	PRO	CA-C	-5.10	1.44	1.52
1	8	398	GLN	CA-C	-5.10	1.46	1.52
1	b	303	THR	C-N	5.10	1.41	1.33
1	d	586	SER	C-N	5.10	1.40	1.33
1	k	708	GLN	C-N	5.10	1.40	1.33
1	o	313	ASN	C-N	5.10	1.41	1.33
1	o	362	GLU	C-N	5.10	1.40	1.33
1	p	400	ALA	C-N	5.10	1.40	1.33
1	p	415	GLU	N-CA	-5.10	1.40	1.46
1	t	530	ALA	CA-C	5.10	1.59	1.52
1	D	406	ARG	CA-CB	5.10	1.61	1.53
1	E	252	TYR	CA-CB	5.10	1.61	1.53
1	I	661	LEU	CB-CG	5.10	1.63	1.53
1	T	135	LEU	CA-CB	5.10	1.61	1.53
1	W	123	VAL	N-CA	5.10	1.52	1.46
1	8	310	VAL	CA-CB	-5.10	1.48	1.54
1	m	295	LYS	CA-C	5.10	1.59	1.52
1	y	125	GLY	CA-C	-5.10	1.44	1.51
1	y	501	PHE	C-N	5.10	1.40	1.33
1	O	543	PHE	C-N	5.10	1.40	1.33
1	5	704	HIS	ND1-CE1	5.10	1.37	1.32
1	8	128	SER	C-N	5.10	1.40	1.34
1	8	640	ARG	CA-C	5.10	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8	696	ILE	CA-CB	-5.10	1.48	1.54
1	9	106	SER	C-O	5.10	1.29	1.24
1	9	523	ALA	C-N	5.10	1.40	1.33
1	a	313	ASN	C-N	5.10	1.40	1.33
1	f	690	ARG	CA-C	5.10	1.59	1.52
1	h	134	VAL	C-O	-5.10	1.18	1.24
1	i	672	LYS	CA-CB	5.10	1.61	1.53
1	j	640	ARG	CD-NE	5.10	1.53	1.46
1	p	681	GLU	C-N	5.10	1.40	1.34
1	s	279	ALA	CA-C	5.10	1.59	1.52
1	v	253	ILE	C-N	5.10	1.40	1.33
1	H	368	PRO	N-CA	5.10	1.51	1.47
1	O	652	PHE	C-N	5.10	1.41	1.33
1	Q	151	THR	CA-C	5.10	1.59	1.52
1	T	316	TYR	CA-CB	-5.10	1.46	1.53
1	X	256	GLN	C-N	5.10	1.41	1.33
1	X	314	LEU	CB-CG	5.10	1.63	1.53
1	Y	249	ILE	CA-CB	-5.10	1.48	1.54
1	5	492	LEU	CA-C	5.10	1.59	1.52
1	5	690	ARG	CZ-NH1	-5.10	1.25	1.32
1	7	554	GLU	CA-CB	5.10	1.61	1.53
1	b	159	LEU	CA-CB	5.10	1.60	1.53
1	b	285	GLU	C-N	5.10	1.40	1.33
1	h	704	HIS	CD2-NE2	5.10	1.43	1.37
1	i	573	ARG	CZ-NH1	-5.10	1.25	1.32
1	p	644	GLN	CA-CB	5.10	1.61	1.53
1	q	109	ALA	C-N	5.10	1.40	1.33
1	q	468	ASN	CA-C	-5.10	1.45	1.52
1	q	477	HIS	CG-ND1	5.10	1.43	1.38
1	B	194	GLN	N-CA	5.10	1.52	1.46
1	B	337	LEU	CA-CB	5.10	1.60	1.53
1	C	376	THR	CA-CB	5.10	1.61	1.53
1	C	413	SER	CA-C	5.10	1.60	1.53
1	F	629	HIS	CA-C	5.10	1.59	1.52
1	F	663	LYS	N-CA	5.10	1.52	1.46
1	J	327	CYS	N-CA	5.10	1.52	1.45
1	K	205	SER	CA-C	-5.10	1.46	1.52
1	L	319	LYS	C-O	5.10	1.30	1.24
1	L	500	THR	C-N	5.10	1.40	1.33
1	N	195	ASN	C-N	5.10	1.40	1.33
1	O	312	ARG	CZ-NH2	-5.10	1.26	1.33
1	V	183	PRO	N-CD	-5.10	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	V	532	ILE	N-CA	5.10	1.52	1.46
1	W	183	PRO	N-CA	-5.10	1.41	1.47
1	W	539	PHE	CA-CB	-5.10	1.45	1.53
1	Y	200	ASN	CA-C	-5.10	1.46	1.53
1	Y	656	GLU	CA-C	5.10	1.59	1.52
1	i	209	ILE	CA-C	-5.10	1.46	1.52
1	E	121	ILE	C-O	-5.10	1.18	1.24
1	P	125	GLY	N-CA	5.10	1.50	1.45
1	Q	317	PRO	C-N	5.10	1.40	1.33
1	1	356	PHE	CA-CB	5.09	1.61	1.53
1	6	233	ALA	CA-CB	5.09	1.61	1.53
1	7	196	VAL	CA-CB	-5.09	1.48	1.54
1	e	211	LEU	CA-CB	5.09	1.62	1.53
1	f	436	LEU	CA-C	5.09	1.59	1.52
1	i	145	ARG	CD-NE	5.09	1.53	1.46
1	i	393	ILE	CA-C	5.09	1.59	1.52
1	m	434	GLU	C-O	-5.09	1.18	1.24
1	s	208	LEU	N-CA	-5.09	1.39	1.46
1	A	317	PRO	CA-C	5.09	1.57	1.52
1	C	293	LEU	CA-C	5.09	1.59	1.52
1	D	632	ALA	CA-CB	5.09	1.61	1.53
1	J	514	GLU	C-N	5.09	1.40	1.34
1	N	408	GLY	CA-C	5.09	1.60	1.52
1	U	258	THR	CA-C	-5.09	1.46	1.52
1	U	528	GLN	CA-C	5.09	1.59	1.52
1	V	100	CYS	C-N	5.09	1.40	1.33
1	X	286	GLY	N-CA	5.09	1.52	1.45
1	X	515	PRO	CA-CB	-5.09	1.46	1.53
1	Z	594	GLU	C-N	-5.09	1.27	1.33
1	2	190	ILE	C-O	-5.09	1.17	1.24
1	k	367	VAL	CA-C	5.09	1.57	1.52
1	l	369	ARG	N-CA	5.09	1.52	1.46
1	v	422	LEU	C-N	5.09	1.40	1.33
1	y	397	HIS	CE1-NE2	-5.09	1.27	1.32
1	I	238	PRO	N-CD	5.09	1.54	1.47
1	N	591	LYS	C-O	5.09	1.30	1.24
1	Z	592	VAL	CA-C	-5.09	1.46	1.52
1	a	464	ILE	CB-CG1	5.09	1.63	1.53
1	e	697	TYR	C-N	5.09	1.40	1.33
1	i	346	GLU	C-N	5.09	1.40	1.33
1	i	394	ARG	C-N	5.09	1.40	1.33
1	n	640	ARG	CA-C	5.09	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	o	705	ALA	C-N	5.09	1.40	1.33
1	p	298	LEU	N-CA	-5.09	1.39	1.46
1	x	259	ILE	C-O	-5.09	1.18	1.24
1	C	593	ARG	N-CA	-5.09	1.39	1.46
1	D	635	LEU	N-CA	-5.09	1.40	1.46
1	G	538	HIS	ND1-CE1	5.09	1.37	1.32
1	L	639	LYS	CA-C	5.09	1.59	1.52
1	R	370	LEU	CA-C	5.09	1.59	1.52
1	Y	159	LEU	CA-C	5.09	1.58	1.52
1	e	227	PRO	C-N	5.09	1.41	1.33
1	o	110	LEU	N-CA	-5.09	1.40	1.46
1	o	246	LYS	CA-CB	5.09	1.61	1.53
1	r	369	ARG	CD-NE	5.09	1.53	1.46
1	u	231	ARG	CD-NE	5.09	1.53	1.46
1	J	191	HIS	C-N	5.09	1.40	1.33
1	Q	580	CYS	N-CA	-5.09	1.39	1.46
1	S	509	ILE	CA-C	-5.09	1.46	1.52
1	U	118	LEU	C-O	5.09	1.26	1.23
1	X	654	LEU	N-CA	-5.09	1.40	1.46
1	6	227	PRO	C-O	-5.09	1.17	1.24
1	e	171	ILE	N-CA	5.09	1.52	1.46
1	f	505	VAL	C-N	5.09	1.40	1.33
1	l	401	THR	N-CA	-5.09	1.40	1.46
1	G	141	VAL	CA-C	-5.09	1.46	1.52
1	N	400	ALA	N-CA	-5.09	1.40	1.46
1	R	164	CYS	C-N	5.09	1.40	1.33
1	1	342	ALA	CA-CB	5.09	1.61	1.53
1	6	629	HIS	C-N	-5.09	1.27	1.33
1	7	456	GLU	N-CA	-5.09	1.40	1.46
1	8	435	LYS	C-N	5.09	1.40	1.34
1	b	193	ALA	C-N	5.09	1.40	1.33
1	d	216	PRO	CA-CB	5.09	1.60	1.53
1	e	633	TYR	N-CA	-5.09	1.40	1.46
1	g	633	TYR	C-N	5.09	1.40	1.33
1	k	260	ASN	CA-CB	5.09	1.60	1.53
1	m	478	GLU	N-CA	-5.09	1.40	1.46
1	p	357	ARG	NE-CZ	-5.09	1.27	1.33
1	s	353	HIS	CD2-NE2	5.09	1.43	1.37
1	A	375	THR	C-N	5.09	1.40	1.33
1	D	116	LEU	C-N	5.09	1.40	1.33
1	M	517	LEU	CA-CB	5.09	1.61	1.53
1	Q	444	ARG	N-CA	5.09	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Y	548	THR	CA-C	5.09	1.59	1.52
1	Z	285	GLU	CA-C	-5.09	1.45	1.52
1	0	535	ALA	CA-C	5.08	1.59	1.52
1	0	695	ARG	CA-CB	5.08	1.61	1.53
1	5	434	GLU	CA-CB	5.08	1.61	1.53
1	q	393	ILE	CA-CB	-5.08	1.49	1.54
1	E	247	ALA	N-CA	-5.08	1.40	1.46
1	G	290	ILE	C-N	5.08	1.36	1.33
1	O	135	LEU	CA-CB	5.08	1.61	1.53
1	O	539	PHE	CA-C	5.08	1.59	1.52
1	X	272	THR	C-N	5.08	1.40	1.33
1	1	485	LYS	N-CA	-5.08	1.39	1.46
1	e	456	GLU	N-CA	5.08	1.52	1.46
1	f	371	ALA	N-CA	-5.08	1.40	1.46
1	g	486	GLN	CA-C	5.08	1.59	1.52
1	j	343	THR	C-N	5.08	1.40	1.33
1	n	401	THR	CA-C	5.08	1.59	1.52
1	q	594	GLU	C-O	5.08	1.30	1.24
1	D	396	SER	N-CA	-5.08	1.39	1.46
1	D	427	LYS	CA-CB	5.08	1.61	1.53
1	J	504	ILE	CA-C	5.08	1.59	1.52
1	L	284	PRO	N-CA	-5.08	1.41	1.47
1	N	153	CYS	C-N	5.08	1.39	1.33
1	O	194	GLN	CA-C	5.08	1.59	1.52
1	0	504	ILE	C-O	-5.08	1.17	1.24
1	1	266	CYS	C-N	5.08	1.41	1.33
1	3	308	MET	CA-C	5.08	1.59	1.52
1	6	506	HIS	CD2-NE2	5.08	1.43	1.37
1	b	520	LEU	N-CA	5.08	1.52	1.46
1	d	245	ILE	N-CA	-5.08	1.40	1.46
1	i	531	PHE	CA-CB	5.08	1.61	1.53
1	n	191	HIS	CG-CD2	5.08	1.41	1.35
1	n	303	THR	C-N	5.08	1.40	1.33
1	o	558	VAL	CA-CB	-5.08	1.48	1.54
1	o	624	THR	N-CA	-5.08	1.40	1.46
1	u	207	GLU	CA-CB	5.08	1.60	1.53
1	u	327	CYS	CA-CB	5.08	1.62	1.53
1	v	492	LEU	N-CA	5.08	1.52	1.46
1	A	162	GLN	CA-C	5.08	1.57	1.52
1	D	396	SER	C-N	5.08	1.40	1.33
1	E	157	LEU	CA-CB	5.08	1.59	1.53
1	F	388	LEU	CA-C	5.08	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	157	LEU	N-CA	5.08	1.52	1.46
1	M	293	LEU	C-O	-5.08	1.18	1.24
1	R	449	ARG	CA-CB	5.08	1.61	1.53
1	R	536	LYS	CA-C	-5.08	1.46	1.52
1	V	348	THR	N-CA	5.08	1.52	1.46
1	X	353	HIS	ND1-CE1	5.08	1.37	1.32
1	X	414	GLN	C-N	-5.08	1.27	1.33
1	Z	121	ILE	CA-C	-5.08	1.46	1.52
1	v	252	TYR	CA-CB	5.08	1.61	1.53
1	F	108	ARG	NE-CZ	5.08	1.38	1.33
1	I	394	ARG	CD-NE	5.08	1.53	1.46
1	M	295	LYS	CA-C	5.08	1.59	1.52
1	R	308	MET	CA-CB	5.08	1.61	1.53
1	l	568	ILE	CA-C	5.08	1.59	1.52
1	9	205	SER	N-CA	-5.08	1.39	1.46
1	b	248	LEU	C-O	5.08	1.30	1.24
1	d	127	GLN	CA-C	5.08	1.59	1.52
1	i	177	GLU	C-N	5.08	1.40	1.33
1	m	674	ARG	CD-NE	5.08	1.53	1.46
1	r	547	GLN	N-CA	-5.08	1.40	1.46
1	D	451	TYR	C-N	5.08	1.40	1.33
1	J	131	LYS	C-N	5.08	1.41	1.33
1	J	317	PRO	CA-CB	5.08	1.60	1.53
1	Q	313	ASN	CA-CB	5.08	1.61	1.53
1	T	120	ALA	C-O	-5.08	1.17	1.23
1	8	296	PRO	N-CA	5.08	1.54	1.47
1	8	632	ALA	CA-CB	5.08	1.61	1.53
1	d	696	ILE	CA-C	5.08	1.60	1.52
1	m	689	ARG	CZ-NH1	-5.08	1.25	1.32
1	n	294	THR	N-CA	5.08	1.52	1.45
1	A	183	PRO	N-CA	-5.08	1.40	1.47
1	W	175	ASN	CA-CB	5.08	1.62	1.53
1	W	570	LEU	CB-CG	5.08	1.63	1.53
1	0	653	MET	N-CA	-5.08	1.39	1.46
1	9	699	LEU	C-N	5.08	1.40	1.33
1	d	358	VAL	C-O	5.08	1.30	1.24
1	f	302	GLY	C-N	-5.08	1.27	1.33
1	l	421	PHE	N-CA	5.08	1.52	1.46
1	m	206	HIS	ND1-CE1	5.08	1.37	1.32
1	s	145	ARG	CD-NE	5.08	1.53	1.46
1	s	528	GLN	CA-CB	5.08	1.61	1.53
1	v	282	VAL	CA-CB	-5.08	1.48	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	128	SER	C-N	5.08	1.41	1.34
1	H	149	ILE	CA-C	-5.08	1.46	1.52
1	H	465	LEU	CA-C	5.08	1.59	1.52
1	P	430	ASN	N-CA	5.08	1.52	1.46
1	S	224	ILE	CA-CB	5.08	1.59	1.53
1	T	448	THR	N-CA	5.08	1.52	1.45
1	W	704	HIS	CA-C	5.08	1.59	1.52
1	Z	254	GLN	N-CA	-5.08	1.40	1.46
1	2	144	PRO	CA-CB	5.07	1.60	1.53
1	7	322	TYR	N-CA	5.07	1.52	1.45
1	7	523	ALA	CA-CB	5.07	1.61	1.53
1	d	276	LEU	CA-CB	5.07	1.61	1.53
1	h	364	SER	CA-CB	5.07	1.62	1.53
1	h	705	ALA	N-CA	-5.07	1.40	1.46
1	i	101	ILE	C-N	5.07	1.40	1.33
1	l	485	LYS	CA-C	-5.07	1.46	1.52
1	p	124	ILE	CA-C	5.07	1.58	1.52
1	w	237	GLN	C-N	5.07	1.40	1.34
1	w	529	GLN	CA-C	5.07	1.59	1.52
1	D	133	SER	N-CA	5.07	1.52	1.46
1	F	583	GLN	C-N	5.07	1.40	1.34
1	K	158	LYS	CA-CB	5.07	1.60	1.53
1	L	703	ARG	CZ-NH2	-5.07	1.26	1.33
1	R	345	LYS	CA-CB	5.07	1.61	1.53
1	R	641	LEU	N-CA	5.07	1.52	1.46
1	X	429	PHE	C-N	5.07	1.40	1.34
1	X	640	ARG	CD-NE	5.07	1.53	1.46
1	Z	396	SER	CA-CB	5.07	1.62	1.53
1	4	260	ASN	CA-CB	5.07	1.60	1.53
1	j	219	PRO	CA-C	5.07	1.58	1.52
1	u	215	SER	C-N	5.07	1.40	1.34
1	B	352	THR	CA-CB	5.07	1.62	1.53
1	K	275	ALA	CA-C	5.07	1.59	1.52
1	3	255	ARG	CD-NE	5.07	1.53	1.46
1	5	640	ARG	CD-NE	5.07	1.53	1.46
1	6	293	LEU	CA-CB	5.07	1.62	1.53
1	e	162	GLN	CA-C	5.07	1.58	1.52
1	q	149	ILE	CA-CB	5.07	1.60	1.53
1	s	334	THR	N-CA	5.07	1.52	1.46
1	v	235	ASP	CA-CB	5.07	1.62	1.53
1	E	506	HIS	CB-CG	5.07	1.57	1.50
1	E	521	GLN	CA-CB	5.07	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	341	GLU	N-CA	5.07	1.52	1.46
1	V	161	LYS	CA-C	5.07	1.59	1.52
1	Y	689	ARG	CD-NE	5.07	1.53	1.46
1	Z	169	GLY	CA-C	5.07	1.57	1.51
1	5	271	ALA	C-N	5.07	1.40	1.33
1	s	684	GLU	CA-CB	5.07	1.61	1.53
1	u	476	ILE	N-CA	5.07	1.52	1.46
1	H	313	ASN	CA-C	5.07	1.59	1.52
1	P	218	VAL	CA-CB	5.07	1.60	1.54
1	R	421	PHE	C-N	5.07	1.40	1.33
1	4	672	LYS	N-CA	5.07	1.52	1.46
1	b	299	MET	CA-C	5.07	1.59	1.52
1	k	268	VAL	N-CA	5.07	1.52	1.46
1	k	421	PHE	C-N	5.07	1.40	1.33
1	l	690	ARG	NE-CZ	5.07	1.38	1.33
1	s	338	SER	CA-CB	5.07	1.62	1.53
1	t	377	GLU	CA-CB	5.07	1.61	1.53
1	y	368	PRO	CA-CB	5.07	1.60	1.53
1	J	657	ASN	C-N	5.07	1.41	1.33
1	N	263	VAL	C-N	5.07	1.38	1.33
1	Q	655	ARG	C-N	5.07	1.41	1.34
1	R	262	VAL	N-CA	5.07	1.52	1.46
1	R	502	GLU	C-N	-5.07	1.27	1.33
1	2	550	GLN	N-CA	5.07	1.52	1.46
1	c	307	VAL	C-O	-5.07	1.18	1.24
1	j	523	ALA	CA-CB	5.07	1.61	1.53
1	l	388	LEU	N-CA	-5.07	1.40	1.46
1	m	457	ASP	CA-CB	5.07	1.61	1.53
1	s	508	TYR	N-CA	-5.07	1.40	1.46
1	v	116	LEU	CA-CB	-5.07	1.45	1.53
1	F	125	GLY	N-CA	-5.07	1.38	1.45
1	P	289	THR	CA-C	-5.07	1.46	1.52
1	U	222	THR	C-O	-5.07	1.17	1.24
1	4	246	LYS	C-N	5.06	1.40	1.33
1	7	407	CYS	CA-C	5.06	1.59	1.52
1	9	478	GLU	CA-C	5.06	1.59	1.52
1	b	203	GLY	N-CA	5.06	1.51	1.45
1	b	538	HIS	ND1-CE1	5.06	1.37	1.32
1	l	529	GLN	CA-C	-5.06	1.46	1.52
1	p	505	VAL	N-CA	-5.06	1.40	1.46
1	R	504	ILE	C-N	5.06	1.40	1.33
1	7	235	ASP	CA-CB	5.06	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7	468	ASN	C-N	5.06	1.40	1.33
1	9	317	PRO	CA-C	-5.06	1.48	1.53
1	e	454	ILE	CA-C	5.06	1.58	1.52
1	f	694	GLU	CA-CB	5.06	1.61	1.53
1	g	222	THR	CA-CB	5.06	1.61	1.53
1	g	320	LYS	CA-CB	5.06	1.59	1.53
1	h	352	THR	C-N	5.06	1.41	1.33
1	i	645	ILE	CA-C	5.06	1.58	1.52
1	k	357	ARG	CD-NE	5.06	1.53	1.46
1	l	330	GLN	C-O	-5.06	1.17	1.24
1	s	433	ILE	N-CA	5.06	1.52	1.46
1	z	314	LEU	CA-CB	5.06	1.62	1.53
1	C	263	VAL	N-CA	-5.06	1.40	1.46
1	D	133	SER	CA-C	5.06	1.59	1.52
1	H	671	GLU	N-CA	-5.06	1.40	1.46
1	R	288	ARG	CD-NE	5.06	1.53	1.46
1	V	179	GLU	CA-CB	5.06	1.59	1.53
1	W	195	ASN	C-N	5.06	1.40	1.33
1	g	437	VAL	CA-C	5.06	1.58	1.52
1	q	195	ASN	CA-CB	5.06	1.61	1.53
1	t	339	LEU	C-N	5.06	1.40	1.33
1	M	289	THR	CA-C	5.06	1.58	1.52
1	R	432	ASP	CA-C	5.06	1.59	1.52
1	U	208	LEU	CA-CB	5.06	1.60	1.53
1	Z	256	GLN	CA-CB	5.06	1.61	1.53
1	8	389	LEU	CA-CB	5.06	1.61	1.53
1	d	304	GLU	C-N	5.06	1.41	1.33
1	d	431	GLN	N-CA	-5.06	1.40	1.46
1	e	697	TYR	N-CA	-5.06	1.40	1.46
1	h	196	VAL	N-CA	-5.06	1.40	1.46
1	u	161	LYS	C-N	5.06	1.38	1.33
1	v	681	GLU	CA-CB	5.06	1.61	1.53
1	F	514	GLU	N-CA	-5.06	1.41	1.46
1	K	353	HIS	CB-CG	5.06	1.57	1.50
1	L	235	ASP	C-N	5.06	1.40	1.33
1	M	172	SER	CA-CB	5.06	1.61	1.53
1	N	520	LEU	CA-C	-5.06	1.46	1.52
1	S	703	ARG	CA-C	-5.06	1.46	1.52
1	T	473	LYS	C-N	5.06	1.40	1.33
1	Y	166	ALA	C-O	-5.06	1.17	1.23
1	4	569	GLN	CA-C	5.06	1.59	1.52
1	e	139	SER	CA-C	-5.06	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g	415	GLU	C-N	5.06	1.40	1.33
1	k	493	LEU	C-N	5.06	1.40	1.33
1	u	180	LEU	C-N	5.06	1.40	1.33
1	C	359	LEU	C-N	5.06	1.40	1.33
1	N	237	GLN	N-CA	5.06	1.51	1.46
1	S	191	HIS	CG-ND1	5.06	1.43	1.38
1	Z	705	ALA	CA-CB	-5.06	1.45	1.53
1	6	378	LEU	CB-CG	5.06	1.63	1.53
1	8	166	ALA	C-N	5.06	1.39	1.33
1	b	661	LEU	C-N	5.06	1.40	1.33
1	e	406	ARG	CD-NE	5.06	1.53	1.46
1	g	501	PHE	C-O	-5.06	1.18	1.24
1	i	141	VAL	CA-C	5.06	1.58	1.52
1	q	141	VAL	CA-CB	5.06	1.60	1.54
1	F	159	LEU	CA-C	5.06	1.58	1.52
1	I	259	ILE	C-N	5.06	1.42	1.33
1	J	494	GLY	N-CA	5.06	1.52	1.45
1	J	581	GLN	N-CA	5.06	1.49	1.46
1	N	661	LEU	CB-CG	5.06	1.63	1.53
1	T	625	GLU	CA-C	5.06	1.59	1.52
1	W	693	LYS	C-N	5.06	1.40	1.33
1	3	239	ARG	CD-NE	5.05	1.53	1.46
1	5	433	ILE	CA-CB	-5.05	1.48	1.54
1	5	493	LEU	C-O	-5.05	1.17	1.23
1	8	689	ARG	CD-NE	5.05	1.53	1.46
1	a	106	SER	N-CA	-5.05	1.40	1.46
1	c	437	VAL	CA-C	5.05	1.59	1.52
1	g	248	LEU	C-O	-5.05	1.17	1.24
1	g	517	LEU	CA-CB	5.05	1.61	1.53
1	o	132	SER	C-N	5.05	1.40	1.33
1	p	690	ARG	CD-NE	5.05	1.53	1.46
1	s	401	THR	N-CA	5.05	1.52	1.46
1	t	111	GLY	C-N	5.05	1.40	1.33
1	t	124	ILE	CB-CG1	5.05	1.63	1.53
1	v	244	GLN	CA-C	5.05	1.59	1.52
1	v	483	TYR	CE1-CZ	5.05	1.50	1.38
1	w	373	ARG	N-CA	-5.05	1.40	1.46
1	z	373	ARG	CA-CB	5.05	1.61	1.53
1	D	251	LYS	CA-C	5.05	1.59	1.52
1	E	438	GLU	CA-CB	5.05	1.61	1.53
1	I	134	VAL	CA-CB	-5.05	1.48	1.54
1	L	365	ALA	CA-C	5.05	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	157	LEU	CA-C	-5.05	1.46	1.52
1	M	248	LEU	CA-CB	5.05	1.61	1.53
1	Q	557	LYS	C-N	5.05	1.40	1.33
1	1	595	GLU	C-N	5.05	1.40	1.33
1	p	402	GLU	CA-C	-5.05	1.46	1.52
1	C	547	GLN	C-N	5.05	1.40	1.33
1	G	295	LYS	C-N	5.05	1.39	1.34
1	5	383	GLN	CA-CB	5.05	1.61	1.53
1	c	254	GLN	CA-CB	5.05	1.62	1.53
1	c	381	HIS	CD2-NE2	5.05	1.43	1.37
1	g	443	VAL	N-CA	-5.05	1.40	1.46
1	i	705	ALA	CA-C	5.05	1.59	1.52
1	n	174	ARG	CA-CB	5.05	1.61	1.53
1	s	141	VAL	N-CA	5.05	1.52	1.46
1	t	657	ASN	CA-C	5.05	1.59	1.52
1	w	202	ARG	N-CA	-5.05	1.39	1.46
1	L	239	ARG	CA-CB	5.05	1.63	1.53
1	O	375	THR	N-CA	5.05	1.52	1.46
1	Q	485	LYS	CA-CB	5.05	1.61	1.53
1	S	475	ILE	CA-CB	5.05	1.60	1.54
1	2	299	MET	N-CA	-5.05	1.40	1.46
1	5	482	LYS	C-O	5.05	1.30	1.24
1	a	217	GLU	CA-CB	5.05	1.61	1.53
1	i	630	LEU	CA-C	-5.05	1.46	1.52
1	j	588	VAL	C-O	-5.05	1.18	1.24
1	k	255	ARG	N-CA	-5.05	1.39	1.46
1	k	510	GLN	CA-C	-5.05	1.46	1.52
1	D	498	TYR	CA-C	5.05	1.59	1.52
1	E	545	LEU	C-O	-5.05	1.18	1.24
1	G	480	VAL	CA-CB	5.05	1.60	1.54
1	I	411	ILE	N-CA	5.05	1.52	1.46
1	Q	219	PRO	C-O	-5.05	1.17	1.24
1	b	350	PHE	CA-C	-5.05	1.46	1.52
1	c	398	GLN	CA-CB	5.05	1.61	1.53
1	d	354	PRO	N-CD	5.05	1.54	1.47
1	s	274	GLU	N-CA	-5.05	1.40	1.46
1	u	653	MET	C-O	-5.05	1.17	1.24
1	w	510	GLN	CA-CB	5.05	1.61	1.53
1	y	361	GLU	CA-CB	5.05	1.61	1.53
1	z	339	LEU	CA-CB	5.05	1.62	1.53
1	D	436	LEU	N-CA	-5.05	1.40	1.46
1	I	525	GLU	N-CA	-5.05	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	650	GLN	CA-CB	5.05	1.61	1.53
1	W	312	ARG	NE-CZ	-5.05	1.27	1.33
1	3	494	GLY	CA-C	5.05	1.59	1.52
1	k	131	LYS	C-N	5.05	1.40	1.33
1	k	560	HIS	CG-CD2	5.05	1.41	1.35
1	p	643	ASN	C-N	5.05	1.40	1.33
1	r	378	LEU	N-CA	-5.05	1.40	1.46
1	r	526	ILE	N-CA	5.05	1.52	1.46
1	w	452	ASN	CA-C	5.05	1.59	1.52
1	y	142	ALA	N-CA	5.05	1.52	1.46
1	C	410	ASP	C-O	-5.05	1.19	1.23
1	G	137	ALA	CA-C	5.05	1.59	1.52
1	G	293	LEU	CB-CG	5.05	1.63	1.53
1	L	301	ARG	CD-NE	5.05	1.53	1.46
1	L	703	ARG	C-O	5.05	1.29	1.24
1	O	401	THR	N-CA	5.05	1.52	1.46
1	P	670	GLN	C-N	5.05	1.40	1.33
1	R	482	LYS	CA-C	-5.05	1.46	1.52
1	T	549	VAL	C-O	-5.05	1.18	1.24
1	Z	278	MET	CA-CB	5.05	1.61	1.53
1	2	179	GLU	CA-C	5.04	1.59	1.52
1	g	196	VAL	CA-CB	-5.04	1.48	1.54
1	l	358	VAL	CA-CB	5.04	1.61	1.54
1	n	385	SER	C-N	5.04	1.40	1.33
1	G	262	VAL	CA-CB	-5.04	1.48	1.54
1	J	215	SER	CA-CB	5.04	1.61	1.54
1	S	521	GLN	N-CA	-5.04	1.40	1.46
1	1	333	ILE	CA-C	5.04	1.58	1.52
1	1	506	HIS	N-CA	5.04	1.52	1.46
1	2	674	ARG	CA-C	5.04	1.59	1.52
1	3	119	PRO	C-N	5.04	1.39	1.33
1	7	174	ARG	NE-CZ	5.04	1.38	1.33
1	e	98	ARG	N-CA	-5.04	1.41	1.46
1	e	241	ILE	C-N	5.04	1.40	1.33
1	q	433	ILE	N-CA	-5.04	1.40	1.46
1	t	564	ALA	CA-C	5.04	1.59	1.52
1	v	161	LYS	CA-CB	5.04	1.60	1.53
1	v	428	MET	CA-C	-5.04	1.46	1.52
1	D	541	GLU	C-N	5.04	1.42	1.33
1	M	703	ARG	CA-C	5.04	1.59	1.52
1	P	637	THR	N-CA	5.04	1.52	1.46
1	Y	629	HIS	ND1-CE1	5.04	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8	545	LEU	N-CA	-5.04	1.40	1.46
1	9	173	TYR	CA-C	-5.04	1.45	1.52
1	9	657	ASN	CA-CB	5.04	1.61	1.53
1	a	292	ILE	C-O	-5.04	1.19	1.24
1	d	560	HIS	CG-CD2	-5.04	1.30	1.35
1	e	179	GLU	N-CA	5.04	1.52	1.46
1	j	683	SER	CA-CB	5.04	1.63	1.53
1	r	312	ARG	CA-C	5.04	1.59	1.52
1	t	191	HIS	ND1-CE1	5.04	1.37	1.32
1	w	595	GLU	C-N	5.04	1.40	1.33
1	P	322	TYR	CB-CG	5.04	1.62	1.51
1	Q	249	ILE	C-O	5.04	1.30	1.24
1	T	419	MET	C-N	5.04	1.40	1.33
1	U	643	ASN	C-N	5.04	1.40	1.33
1	U	648	ILE	N-CA	-5.04	1.40	1.46
1	V	451	TYR	CE1-CZ	5.04	1.50	1.38
1	X	629	HIS	ND1-CE1	5.04	1.37	1.32
1	h	534	VAL	CA-C	5.04	1.59	1.52
1	q	483	TYR	CA-CB	5.04	1.61	1.53
1	r	587	VAL	CA-CB	-5.04	1.48	1.54
1	L	456	GLU	CA-CB	5.04	1.62	1.53
1	Y	182	ASP	N-CA	5.04	1.51	1.45
1	8	159	LEU	N-CA	-5.04	1.40	1.46
1	9	473	LYS	C-N	-5.04	1.27	1.33
1	b	220	ASP	CA-C	5.04	1.58	1.53
1	c	161	LYS	C-O	-5.04	1.18	1.23
1	e	208	LEU	C-N	5.04	1.39	1.33
1	e	233	ALA	CA-CB	5.04	1.59	1.53
1	g	406	ARG	C-N	5.04	1.40	1.33
1	m	477	HIS	ND1-CE1	5.04	1.37	1.32
1	m	658	GLY	CA-C	5.04	1.57	1.51
1	o	493	LEU	CA-C	5.04	1.59	1.52
1	p	485	LYS	C-N	-5.04	1.27	1.33
1	q	450	LEU	N-CA	-5.04	1.40	1.46
1	w	354	PRO	N-CA	5.04	1.54	1.47
1	x	345	LYS	C-N	5.04	1.40	1.33
1	x	477	HIS	C-N	5.04	1.40	1.33
1	y	357	ARG	CA-C	-5.04	1.46	1.52
1	C	444	ARG	CD-NE	5.04	1.53	1.46
1	D	513	VAL	CA-CB	-5.04	1.48	1.54
1	F	181	GLN	CA-CB	5.04	1.61	1.53
1	H	374	LEU	CA-C	5.04	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	641	LEU	C-N	-5.04	1.26	1.33
1	K	543	PHE	CA-C	5.04	1.59	1.52
1	R	373	ARG	CD-NE	5.04	1.53	1.46
1	1	164	CYS	C-N	5.04	1.40	1.33
1	6	562	ALA	CA-C	-5.04	1.46	1.52
1	b	328	ARG	CA-C	5.04	1.59	1.52
1	D	333	ILE	CA-C	-5.04	1.47	1.52
1	D	341	GLU	C-N	5.04	1.40	1.33
1	H	698	ARG	CD-NE	5.04	1.53	1.46
1	P	584	ILE	CA-CB	-5.04	1.47	1.54
1	Q	386	LEU	CA-CB	5.04	1.61	1.53
1	R	650	GLN	C-N	5.04	1.40	1.33
1	2	149	ILE	C-N	5.04	1.39	1.33
1	b	101	ILE	CA-C	5.04	1.59	1.52
1	f	316	TYR	C-O	-5.04	1.18	1.24
1	f	661	LEU	C-N	5.04	1.40	1.33
1	h	380	MET	C-N	5.04	1.41	1.33
1	l	333	ILE	N-CA	5.04	1.52	1.46
1	m	153	CYS	CA-CB	5.04	1.61	1.54
1	n	491	GLU	C-N	5.04	1.41	1.33
1	s	517	LEU	CA-CB	5.04	1.61	1.53
1	t	406	ARG	CA-C	5.04	1.59	1.52
1	u	696	ILE	C-O	-5.04	1.18	1.24
1	w	174	ARG	CA-CB	5.04	1.61	1.53
1	I	449	ARG	C-O	-5.04	1.17	1.23
1	J	268	VAL	N-CA	-5.04	1.40	1.46
1	L	628	ILE	C-N	5.04	1.40	1.33
1	P	281	GLU	CA-C	5.04	1.59	1.52
1	S	683	SER	CA-C	-5.04	1.46	1.52
1	T	279	ALA	N-CA	-5.04	1.40	1.46
1	0	234	VAL	C-N	5.03	1.40	1.33
1	e	274	GLU	CA-C	-5.03	1.46	1.52
1	f	480	VAL	N-CA	-5.03	1.40	1.46
1	j	405	ARG	CA-C	-5.03	1.46	1.52
1	k	550	GLN	CA-CB	5.03	1.61	1.53
1	o	328	ARG	CZ-NH2	-5.03	1.26	1.33
1	q	499	LYS	C-O	-5.03	1.17	1.24
1	z	452	ASN	CA-CB	5.03	1.62	1.53
1	C	595	GLU	CA-C	5.03	1.59	1.52
1	N	265	PRO	C-N	5.03	1.40	1.34
1	N	434	GLU	C-O	-5.03	1.18	1.24
1	Q	595	GLU	CA-CB	5.03	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	R	529	GLN	CA-CB	5.03	1.61	1.53
1	j	355	TYR	C-N	5.03	1.40	1.33
1	j	499	LYS	N-CA	5.03	1.52	1.46
1	u	110	LEU	C-N	5.03	1.40	1.33
1	w	369	ARG	CD-NE	5.03	1.53	1.46
1	C	424	GLU	N-CA	5.03	1.52	1.46
1	D	406	ARG	C-O	5.03	1.29	1.24
1	L	532	ILE	N-CA	-5.03	1.40	1.46
1	V	682	GLN	C-N	5.03	1.40	1.33
1	5	280	HIS	CD2-NE2	5.03	1.43	1.37
1	b	464	ILE	CA-C	5.03	1.58	1.52
1	o	360	LEU	CA-C	5.03	1.59	1.52
1	w	191	HIS	CD2-NE2	5.03	1.43	1.37
1	C	210	SER	CA-C	-5.03	1.46	1.52
1	E	370	LEU	CA-C	-5.03	1.46	1.52
1	G	498	TYR	CA-C	5.03	1.59	1.52
1	G	707	CYS	CA-CB	5.03	1.61	1.53
1	U	179	GLU	C-O	5.03	1.29	1.24
1	U	347	ILE	CB-CG1	5.03	1.63	1.53
1	5	455	ARG	CA-CB	5.03	1.62	1.53
1	9	658	GLY	CA-C	5.03	1.57	1.52
1	g	500	THR	C-N	5.03	1.40	1.33
1	p	346	GLU	C-O	-5.03	1.18	1.24
1	p	459	LYS	CA-CB	5.03	1.61	1.53
1	q	695	ARG	CZ-NH2	-5.03	1.26	1.33
1	B	485	LYS	CA-CB	5.03	1.61	1.53
1	D	381	HIS	CB-CG	-5.03	1.43	1.50
1	T	346	GLU	C-N	5.03	1.40	1.33
1	0	564	ALA	N-CA	-5.03	1.40	1.46
1	1	301	ARG	C-N	5.03	1.40	1.33
1	3	292	ILE	CB-CG1	5.03	1.63	1.53
1	3	556	ILE	N-CA	-5.03	1.40	1.46
1	a	465	LEU	CA-CB	5.03	1.61	1.53
1	c	136	GLU	C-O	-5.03	1.18	1.24
1	g	147	SER	C-O	5.03	1.30	1.24
1	g	229	ILE	C-N	5.03	1.40	1.33
1	j	214	THR	C-N	5.03	1.39	1.33
1	o	573	ARG	CZ-NH1	-5.03	1.25	1.32
1	u	638	SER	CA-C	5.03	1.59	1.52
1	x	397	HIS	CA-C	5.03	1.59	1.52
1	C	435	LYS	CA-CB	5.03	1.61	1.53
1	G	95	GLN	CA-C	5.03	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	S	566	ASN	C-N	-5.03	1.27	1.33
1	X	132	SER	N-CA	5.03	1.52	1.46
1	Y	699	LEU	CA-C	5.03	1.59	1.52
1	1	397	HIS	ND1-CE1	5.03	1.37	1.32
1	1	543	PHE	C-N	5.03	1.40	1.33
1	2	290	ILE	N-CA	-5.03	1.40	1.46
1	4	581	GLN	CA-CB	5.03	1.62	1.54
1	b	525	GLU	C-N	5.03	1.40	1.33
1	c	504	ILE	N-CA	5.03	1.52	1.46
1	e	278	MET	CA-CB	5.03	1.61	1.53
1	i	359	LEU	N-CA	-5.03	1.40	1.46
1	l	134	VAL	C-O	-5.03	1.18	1.24
1	t	225	ASP	CA-CB	5.03	1.60	1.53
1	y	247	ALA	C-O	-5.03	1.17	1.24
1	T	488	ARG	CD-NE	5.03	1.53	1.46
1	U	670	GLN	CA-C	5.03	1.59	1.52
1	Z	378	LEU	C-O	-5.03	1.18	1.24
1	q	393	ILE	C-N	5.02	1.40	1.33
1	z	635	LEU	N-CA	-5.02	1.40	1.46
1	P	388	LEU	C-N	5.02	1.40	1.33
1	S	320	LYS	N-CA	-5.02	1.40	1.46
1	2	368	PRO	C-N	5.02	1.40	1.33
1	4	631	ASN	CA-C	5.02	1.59	1.52
1	5	455	ARG	CZ-NH2	-5.02	1.26	1.33
1	d	667	GLN	CA-C	5.02	1.59	1.52
1	j	212	GLU	C-O	-5.02	1.17	1.23
1	j	215	SER	CA-CB	5.02	1.61	1.54
1	j	525	GLU	N-CA	-5.02	1.40	1.46
1	u	513	VAL	CA-C	5.02	1.59	1.52
1	w	653	MET	CA-C	-5.02	1.45	1.52
1	z	568	ILE	C-N	-5.02	1.27	1.33
1	A	380	MET	SD-CE	5.02	1.92	1.79
1	A	522	LYS	C-O	-5.02	1.18	1.24
1	A	663	LYS	CA-CB	5.02	1.61	1.53
1	B	409	ALA	CA-CB	5.02	1.61	1.53
1	E	322	TYR	C-N	5.02	1.40	1.33
1	I	155	LEU	CA-C	-5.02	1.46	1.52
1	O	126	ASP	N-CA	-5.02	1.39	1.46
1	P	177	GLU	C-O	-5.02	1.17	1.23
1	R	394	ARG	CD-NE	5.02	1.53	1.46
1	S	298	LEU	CA-C	5.02	1.60	1.52
1	U	324	ILE	C-N	5.02	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	V	295	LYS	CA-C	5.02	1.59	1.52
1	X	556	ILE	CA-CB	5.02	1.60	1.54
1	7	265	PRO	CA-C	5.02	1.58	1.52
1	y	127	GLN	CA-CB	5.02	1.61	1.53
1	H	684	GLU	CA-CB	5.02	1.61	1.53
1	J	244	GLN	CA-CB	5.02	1.61	1.53
1	Y	175	ASN	C-N	5.02	1.40	1.33
1	Y	508	TYR	CG-CD2	5.02	1.49	1.39
1	e	95	GLN	CA-CB	5.02	1.61	1.53
1	g	497	ASN	CA-C	5.02	1.58	1.52
1	i	398	GLN	CA-CB	5.02	1.61	1.53
1	D	374	LEU	CA-CB	5.02	1.61	1.53
1	G	646	PRO	C-N	5.02	1.40	1.33
1	I	654	LEU	C-O	5.02	1.30	1.24
1	R	405	ARG	CZ-NH1	-5.02	1.25	1.32
1	U	204	ILE	CA-C	5.02	1.58	1.52
1	5	643	ASN	N-CA	-5.02	1.39	1.46
1	c	701	GLN	CA-C	5.02	1.59	1.52
1	f	135	LEU	CB-CG	5.02	1.63	1.53
1	i	479	GLU	C-N	5.02	1.40	1.33
1	s	246	LYS	C-O	-5.02	1.18	1.24
1	y	101	ILE	CB-CG1	5.02	1.63	1.53
1	B	191	HIS	ND1-CE1	5.02	1.37	1.32
1	G	298	LEU	CA-CB	5.02	1.61	1.53
1	G	654	LEU	C-N	5.02	1.40	1.33
1	I	381	HIS	C-N	5.02	1.40	1.33
1	K	417	ASP	CA-CB	5.02	1.61	1.53
1	K	566	ASN	CA-CB	5.02	1.61	1.53
1	P	475	ILE	C-O	-5.02	1.18	1.24
1	T	145	ARG	N-CA	-5.02	1.39	1.46
1	U	221	LEU	CB-CG	-5.02	1.43	1.53
1	U	351	GLN	CA-C	5.02	1.59	1.52
1	g	111	GLY	CA-C	-5.02	1.45	1.51
1	g	624	THR	CA-C	-5.02	1.45	1.52
1	i	417	ASP	C-N	5.02	1.40	1.33
1	E	174	ARG	N-CA	-5.02	1.40	1.46
1	G	245	ILE	CA-C	5.02	1.58	1.52
1	I	353	HIS	CD2-NE2	5.02	1.43	1.37
1	J	629	HIS	CB-CG	-5.02	1.43	1.50
1	P	702	ALA	N-CA	-5.02	1.40	1.46
1	Q	585	TYR	C-N	5.02	1.40	1.33
1	V	583	GLN	C-N	5.02	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	272	THR	CA-CB	5.01	1.61	1.53
1	2	663	LYS	N-CA	-5.01	1.39	1.46
1	3	148	GLY	N-CA	5.01	1.52	1.45
1	3	229	ILE	CA-CB	-5.01	1.48	1.54
1	6	526	ILE	CB-CG1	5.01	1.63	1.53
1	o	394	ARG	CA-C	5.01	1.59	1.52
1	v	640	ARG	N-CA	-5.01	1.40	1.46
1	D	494	GLY	C-N	5.01	1.40	1.33
1	H	368	PRO	C-N	5.01	1.40	1.33
1	N	150	VAL	CA-C	5.01	1.59	1.52
1	Q	655	ARG	CD-NE	5.01	1.53	1.46
1	R	182	ASP	CA-CB	5.01	1.61	1.53
1	R	573	ARG	CA-CB	-5.01	1.45	1.53
1	2	381	HIS	ND1-CE1	5.01	1.37	1.32
1	i	525	GLU	C-N	5.01	1.40	1.33
1	l	536	LYS	CA-C	-5.01	1.46	1.52
1	n	154	PRO	CA-CB	5.01	1.60	1.53
1	D	313	ASN	CA-CB	5.01	1.61	1.53
1	H	101	ILE	CA-C	-5.01	1.46	1.52
1	H	326	LYS	CA-CB	5.01	1.61	1.53
1	O	595	GLU	C-N	5.01	1.40	1.33
1	Q	154	PRO	C-N	5.01	1.41	1.33
1	R	426	ILE	C-O	-5.01	1.18	1.24
1	U	149	ILE	CB-CG1	5.01	1.63	1.53
1	0	577	MET	CA-C	5.01	1.59	1.52
1	4	345	LYS	CA-C	5.01	1.59	1.52
1	d	190	ILE	CA-C	5.01	1.59	1.52
1	e	105	ASP	CA-C	5.01	1.59	1.52
1	n	428	MET	CA-C	5.01	1.59	1.52
1	o	130	GLY	C-N	5.01	1.40	1.34
1	u	426	ILE	C-O	-5.01	1.18	1.24
1	B	503	ILE	N-CA	-5.01	1.40	1.46
1	E	547	GLN	CA-C	5.01	1.59	1.52
1	F	344	LYS	N-CA	5.01	1.52	1.46
1	F	577	MET	N-CA	-5.01	1.39	1.46
1	H	703	ARG	CZ-NH2	-5.01	1.26	1.33
1	M	218	VAL	CA-C	5.01	1.57	1.52
1	Q	554	GLU	CA-CB	5.01	1.61	1.53
1	Z	144	PRO	N-CD	-5.01	1.40	1.47
1	7	627	GLY	N-CA	5.01	1.52	1.45
1	b	220	ASP	C-N	5.01	1.40	1.33
1	f	120	ALA	C-N	5.01	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i	628	ILE	C-N	5.01	1.40	1.33
1	n	682	GLN	N-CA	-5.01	1.40	1.46
1	r	669	LEU	CA-C	5.01	1.60	1.52
1	x	508	TYR	CZ-OH	5.01	1.48	1.38
1	y	566	ASN	CA-CB	5.01	1.61	1.53
1	A	121	ILE	N-CA	5.01	1.52	1.46
1	C	486	GLN	CA-C	5.01	1.59	1.52
1	D	514	GLU	C-N	-5.01	1.26	1.33
1	E	187	GLU	CA-C	5.01	1.59	1.52
1	E	623	PHE	CA-CB	5.01	1.61	1.53
1	F	154	PRO	CA-C	5.01	1.58	1.52
1	H	551	SER	CA-C	5.01	1.59	1.52
1	H	669	LEU	CA-C	5.01	1.59	1.52
1	L	513	VAL	N-CA	5.01	1.52	1.46
1	Q	197	MET	C-N	5.01	1.40	1.33
1	Q	709	PHE	CA-CB	5.01	1.61	1.53
1	R	264	VAL	C-N	-5.01	1.27	1.33
1	0	189	GLU	CA-C	-5.01	1.47	1.52
1	0	562	ALA	N-CA	-5.01	1.40	1.46
1	5	163	PRO	CA-C	-5.01	1.44	1.52
1	n	103	LEU	C-N	-5.01	1.27	1.33
1	w	108	ARG	CD-NE	5.01	1.53	1.46
1	w	498	TYR	N-CA	-5.01	1.40	1.46
1	D	464	ILE	CA-CB	-5.01	1.48	1.54
1	M	206	HIS	ND1-CE1	5.01	1.37	1.32
1	Q	517	LEU	CA-C	5.01	1.59	1.52
1	2	629	HIS	CD2-NE2	5.01	1.43	1.37
1	5	655	ARG	CA-CB	5.01	1.61	1.53
1	7	95	GLN	N-CA	-5.01	1.39	1.46
1	c	553	ILE	CA-CB	-5.01	1.49	1.54
1	d	629	HIS	C-O	-5.01	1.18	1.24
1	f	358	VAL	N-CA	-5.01	1.40	1.46
1	l	174	ARG	CA-C	-5.01	1.46	1.52
1	r	237	GLN	CA-C	5.01	1.58	1.52
1	y	367	VAL	CA-CB	-5.01	1.47	1.54
1	L	126	ASP	CA-CB	5.01	1.60	1.53
1	L	167	TRP	CA-C	5.01	1.58	1.52
1	O	305	LYS	N-CA	-5.01	1.40	1.46
1	P	413	SER	CA-CB	5.01	1.61	1.53
1	T	649	ILE	N-CA	-5.01	1.40	1.46
1	V	381	HIS	CA-CB	5.01	1.61	1.53
1	X	705	ALA	C-O	5.01	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a	128	SER	C-N	5.00	1.40	1.33
1	c	121	ILE	CA-CB	5.00	1.60	1.54
1	h	577	MET	C-N	5.00	1.39	1.33
1	l	640	ARG	N-CA	5.00	1.52	1.46
1	P	623	PHE	N-CA	-5.00	1.40	1.46
1	R	638	SER	N-CA	-5.00	1.40	1.46
1	l	294	THR	CA-C	-5.00	1.46	1.52
1	4	709	PHE	C-N	5.00	1.40	1.33
1	7	337	LEU	C-N	5.00	1.40	1.33
1	b	145	ARG	CZ-NH1	-5.00	1.25	1.32
1	b	677	TRP	CA-C	-5.00	1.46	1.52
1	e	645	ILE	CA-CB	5.00	1.57	1.54
1	g	281	GLU	N-CA	5.00	1.52	1.46
1	j	584	ILE	CA-C	-5.00	1.45	1.52
1	l	101	ILE	CA-C	-5.00	1.45	1.52
1	l	428	MET	CA-CB	5.00	1.61	1.53
1	m	426	ILE	N-CA	-5.00	1.40	1.46
1	r	700	THR	C-O	-5.00	1.18	1.24
1	w	626	ILE	CA-C	5.00	1.59	1.52
1	y	159	LEU	CA-CB	5.00	1.60	1.53
1	y	160	LYS	N-CA	5.00	1.52	1.46
1	z	539	PHE	C-N	-5.00	1.27	1.33
1	z	585	TYR	CA-CB	5.00	1.61	1.53
1	F	263	VAL	C-N	5.00	1.39	1.33
1	G	190	ILE	N-CA	5.00	1.52	1.46
1	I	475	ILE	CA-C	5.00	1.59	1.52
1	J	387	PRO	C-N	5.00	1.40	1.33
1	J	591	LYS	N-CA	-5.00	1.40	1.46
1	R	584	ILE	C-N	5.00	1.40	1.33
1	5	402	GLU	CA-CB	5.00	1.61	1.53
1	i	301	ARG	CD-NE	5.00	1.53	1.46
1	j	256	GLN	C-O	-5.00	1.17	1.24
1	n	357	ARG	CA-C	-5.00	1.46	1.52
1	n	658	GLY	N-CA	5.00	1.52	1.45
1	p	592	VAL	C-N	5.00	1.40	1.33
1	u	699	LEU	CA-CB	5.00	1.61	1.53
1	v	165	GLU	CA-C	5.00	1.58	1.52
1	x	246	LYS	CA-CB	5.00	1.61	1.53
1	B	578	VAL	CA-CB	5.00	1.59	1.54
1	E	560	HIS	CD2-NE2	5.00	1.43	1.37
1	G	299	MET	CA-CB	5.00	1.61	1.53
1	T	638	SER	CA-C	-5.00	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	U	409	ALA	CA-C	5.00	1.58	1.52
1	V	183	PRO	CA-CB	5.00	1.60	1.53
1	W	632	ALA	C-O	-5.00	1.18	1.24
1	Y	493	LEU	N-CA	-5.00	1.39	1.46

All (24062) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	645	ILE	N-CA-CB	18.00	121.84	110.50
1	L	111	GLY	O-C-N	-16.90	109.53	122.71
1	m	560	HIS	CA-CB-CG	-16.45	97.35	113.80
1	Q	597	PHE	N-CA-C	15.81	130.08	111.11
1	S	493	LEU	CA-C-N	15.44	133.60	122.33
1	S	493	LEU	C-N-CA	15.44	133.60	122.33
1	R	645	ILE	N-CA-CB	15.15	120.67	110.52
1	o	488	ARG	NE-CZ-NH2	-14.58	106.08	119.20
1	h	162	GLN	O-C-N	-13.82	111.56	121.65
1	e	672	LYS	N-CA-C	13.80	126.33	111.28
1	f	312	ARG	NE-CZ-NH2	13.79	131.61	119.20
1	A	94	GLU	N-CA-C	13.77	127.55	111.71
1	6	593	ARG	NE-CZ-NH1	13.73	135.23	121.50
1	B	145	ARG	NE-CZ-NH1	13.69	135.19	121.50
1	F	278	MET	N-CA-C	13.65	127.40	111.71
1	K	186	VAL	N-CA-C	13.57	124.61	110.36
1	P	357	ARG	NE-CZ-NH2	-13.57	106.99	119.20
1	G	174	ARG	NE-CZ-NH2	13.47	131.32	119.20
1	z	382	ILE	N-CA-CB	13.36	124.64	110.62
1	Z	682	GLN	N-CA-C	13.34	127.47	111.33
1	5	674	ARG	NE-CZ-NH2	-13.31	107.22	119.20
1	P	394	ARG	NE-CZ-NH2	-13.16	107.36	119.20
1	L	539	PHE	CA-CB-CG	-13.16	100.64	113.80
1	1	309	ASN	CA-CB-CG	13.04	125.64	112.60
1	q	281	GLU	N-CA-C	12.96	124.94	111.07
1	0	269	ASP	CA-C-N	12.96	137.75	120.77
1	0	269	ASP	C-N-CA	12.96	137.75	120.77
1	t	695	ARG	NE-CZ-NH2	12.95	130.86	119.20
1	U	492	LEU	CA-C-N	12.88	141.61	122.68
1	U	492	LEU	C-N-CA	12.88	141.61	122.68
1	J	581	GLN	CA-C-O	12.79	125.36	117.94
1	5	479	GLU	N-CA-C	12.66	124.62	111.07
1	R	503	ILE	N-CA-C	12.65	122.56	110.42
1	e	186	VAL	N-CA-C	12.39	122.31	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	449	ARG	NE-CZ-NH1	12.39	133.89	121.50
1	P	353	HIS	O-C-N	-12.37	110.38	121.39
1	t	682	GLN	N-CA-C	12.33	126.24	111.33
1	I	640	ARG	NE-CZ-NH2	12.24	130.21	119.20
1	4	329	GLY	N-CA-C	12.18	125.72	112.33
1	y	532	ILE	N-CA-C	12.16	123.03	110.62
1	O	182	ASP	O-C-N	-12.12	110.52	121.30
1	i	566	ASN	CA-CB-CG	-12.07	100.53	112.60
1	r	357	ARG	NE-CZ-NH2	-11.97	108.43	119.20
1	v	398	GLN	N-CA-C	11.91	125.40	111.11
1	5	215	SER	O-C-N	-11.89	112.56	121.83
1	u	539	PHE	CA-C-N	11.83	133.28	120.03
1	u	539	PHE	C-N-CA	11.83	133.28	120.03
1	L	234	VAL	CA-C-N	11.83	136.26	120.65
1	L	234	VAL	C-N-CA	11.83	136.26	120.65
1	T	309	ASN	CA-CB-CG	11.83	124.43	112.60
1	J	312	ARG	NE-CZ-NH2	-11.78	108.59	119.20
1	4	143	LEU	N-CA-C	11.78	123.15	109.60
1	H	359	LEU	N-CA-C	11.68	124.09	111.36
1	7	655	ARG	N-CA-C	11.67	125.11	111.11
1	C	528	GLN	N-CA-C	11.61	125.38	111.33
1	d	571	GLN	OE1-CD-NE2	-11.58	111.02	122.60
1	8	291	GLY	O-C-N	-11.57	114.79	123.35
1	F	535	ALA	CA-C-N	11.55	136.13	120.54
1	F	535	ALA	C-N-CA	11.55	136.13	120.54
1	l	456	GLU	N-CA-C	11.53	125.28	111.33
1	z	564	ALA	N-CA-C	11.51	123.90	111.36
1	T	300	ASP	CA-CB-CG	11.50	124.10	112.60
1	5	309	ASN	CA-CB-CG	11.50	124.10	112.60
1	L	312	ARG	NE-CZ-NH1	11.49	132.99	121.50
1	d	174	ARG	NE-CZ-NH1	11.46	132.96	121.50
1	a	209	ILE	N-CA-CB	11.42	122.98	110.53
1	s	553	ILE	CA-C-O	-11.41	109.55	121.41
1	7	571	GLN	N-CA-C	11.38	123.68	111.28
1	y	169	GLY	O-C-N	-11.38	114.62	123.27
1	i	487	TYR	N-CA-C	11.36	123.66	111.28
1	8	674	ARG	NE-CZ-NH1	11.32	132.82	121.50
1	Q	307	VAL	N-CA-C	11.31	122.16	110.62
1	5	554	GLU	N-CA-C	11.30	123.59	111.28
1	N	301	ARG	CA-C-N	11.25	132.42	119.94
1	N	301	ARG	C-N-CA	11.25	132.42	119.94
1	N	631	ASN	CA-CB-CG	11.23	123.83	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	644	GLN	N-CA-C	11.23	123.52	111.28
1	W	579	PHE	CA-CB-CG	11.22	125.02	113.80
1	M	525	GLU	N-CA-C	11.22	124.57	111.11
1	S	529	GLN	N-CA-C	11.19	123.17	110.97
1	6	597	PHE	CA-CB-CG	-11.19	102.61	113.80
1	r	698	ARG	NE-CZ-NH2	-11.18	109.14	119.20
1	z	566	ASN	CA-CB-CG	11.18	123.78	112.60
1	h	97	VAL	N-CA-C	11.17	122.00	110.72
1	l	94	GLU	N-CA-C	11.17	123.54	111.36
1	r	655	ARG	N-CA-C	11.17	123.02	111.07
1	h	655	ARG	N-CA-C	11.16	123.01	111.07
1	v	324	ILE	CA-C-N	11.16	138.50	122.99
1	v	324	ILE	C-N-CA	11.16	138.50	122.99
1	M	516	ALA	N-CA-C	11.14	123.50	111.36
1	B	198	ALA	N-CA-C	11.14	124.81	111.33
1	V	476	ILE	N-CA-C	11.14	121.11	110.42
1	t	270	ILE	N-CA-C	11.13	123.31	110.62
1	L	428	MET	N-CA-C	11.13	122.98	111.07
1	6	476	ILE	N-CA-C	11.13	121.97	110.62
1	i	672	LYS	N-CA-C	11.13	123.41	111.28
1	P	660	SER	N-CA-C	11.13	123.41	111.28
1	L	640	ARG	NE-CZ-NH1	11.10	132.60	121.50
1	h	583	GLN	N-CA-C	11.09	122.93	111.07
1	h	468	ASN	CA-CB-CG	-11.08	101.52	112.60
1	7	691	ILE	N-CA-C	11.06	121.98	110.36
1	R	444	ARG	NE-CZ-NH2	-11.05	109.25	119.20
1	l	598	ASN	CA-CB-CG	11.04	123.64	112.60
1	w	478	GLU	N-CA-C	11.01	123.28	111.28
1	h	639	LYS	N-CA-C	11.00	124.31	111.11
1	5	341	GLU	N-CA-C	10.98	123.25	111.28
1	b	539	PHE	CA-CB-CG	-10.97	102.83	113.80
1	o	644	GLN	CA-C-N	10.95	129.09	120.33
1	o	644	GLN	C-N-CA	10.95	129.09	120.33
1	9	94	GLU	N-CA-C	10.94	123.20	111.28
1	2	410	ASP	CA-CB-CG	10.93	123.53	112.60
1	g	278	MET	N-CA-C	10.92	122.76	111.07
1	s	542	PHE	CA-CB-CG	-10.92	102.88	113.80
1	r	543	PHE	N-CA-C	10.89	122.91	111.14
1	0	455	ARG	NE-CZ-NH1	10.89	132.39	121.50
1	F	145	ARG	NE-CZ-NH1	10.89	132.39	121.50
1	W	189	GLU	N-CA-C	10.88	122.71	111.07
1	8	674	ARG	NE-CZ-NH2	-10.88	109.41	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	189	GLU	N-CA-C	10.87	123.13	111.28
1	u	300	ASP	CA-CB-CG	10.87	123.47	112.60
1	Z	280	HIS	N-CA-C	10.84	123.09	111.28
1	r	336	ARG	NE-CZ-NH1	10.84	132.34	121.50
1	Z	560	HIS	CA-CB-CG	-10.83	102.97	113.80
1	Q	426	ILE	N-CA-C	10.82	121.66	110.62
1	t	237	GLN	CA-C-N	10.82	130.93	119.89
1	t	237	GLN	C-N-CA	10.82	130.93	119.89
1	2	114	GLN	OE1-CD-NE2	-10.80	111.80	122.60
1	f	425	LYS	N-CA-C	10.80	123.05	111.28
1	V	682	GLN	N-CA-C	10.79	123.04	111.28
1	T	566	ASN	CA-CB-CG	10.78	123.38	112.60
1	k	483	TYR	N-CA-C	10.76	124.02	111.11
1	I	560	HIS	CA-CB-CG	-10.75	103.05	113.80
1	b	625	GLU	N-CA-C	10.75	123.00	111.28
1	g	287	ASP	CA-CB-CG	10.74	123.34	112.60
1	g	586	SER	N-CA-C	10.73	122.97	111.28
1	x	414	GLN	CA-C-N	10.73	136.91	120.82
1	x	414	GLN	C-N-CA	10.73	136.91	120.82
1	n	682	GLN	N-CA-C	10.72	122.96	111.28
1	P	560	HIS	CA-CB-CG	-10.71	103.09	113.80
1	g	582	ASP	CA-CB-CG	-10.71	101.89	112.60
1	j	640	ARG	NE-CZ-NH2	-10.70	109.57	119.20
1	I	707	CYS	N-CA-C	10.70	122.94	111.28
1	q	657	ASN	CA-C-N	10.70	131.77	120.00
1	q	657	ASN	C-N-CA	10.70	131.77	120.00
1	u	194	GLN	OE1-CD-NE2	-10.69	111.91	122.60
1	y	542	PHE	CA-C-N	10.69	134.33	120.44
1	y	542	PHE	C-N-CA	10.69	134.33	120.44
1	d	330	GLN	OE1-CD-NE2	-10.68	111.92	122.60
1	M	522	LYS	N-CA-C	10.68	123.93	111.11
1	b	241	ILE	CA-C-N	10.68	131.83	119.98
1	b	241	ILE	C-N-CA	10.68	131.83	119.98
1	P	682	GLN	N-CA-C	10.68	122.50	111.07
1	B	689	ARG	NE-CZ-NH1	10.67	132.17	121.50
1	i	470	GLN	CA-C-N	10.66	134.57	120.28
1	i	470	GLN	C-N-CA	10.66	134.57	120.28
1	w	206	HIS	CA-CB-CG	10.63	124.43	113.80
1	l	709	PHE	CA-CB-CG	10.62	124.42	113.80
1	H	430	ASN	CA-CB-CG	10.61	123.21	112.60
1	t	190	ILE	CA-C-O	10.60	132.23	120.46
1	4	145	ARG	NE-CZ-NH2	-10.59	109.67	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	421	PHE	CA-CB-CG	-10.59	103.21	113.80
1	7	708	GLN	N-CA-C	10.59	122.40	111.07
1	w	597	PHE	N-CA-C	10.57	122.38	111.07
1	l	129	SER	N-CA-C	10.56	123.78	111.11
1	S	453	LYS	N-CA-C	10.54	122.35	111.07
1	b	543	PHE	CA-CB-CG	-10.53	103.27	113.80
1	e	494	GLY	O-C-N	-10.53	113.34	122.92
1	f	682	GLN	N-CA-C	10.53	122.84	111.36
1	c	406	ARG	NE-CZ-NH1	10.52	132.02	121.50
1	i	312	ARG	NE-CZ-NH2	-10.52	109.74	119.20
1	v	166	ALA	N-CA-C	10.52	125.07	110.24
1	7	503	ILE	O-C-N	-10.51	111.61	121.91
1	q	689	ARG	NE-CZ-NH1	10.49	131.99	121.50
1	G	301	ARG	NE-CZ-NH2	-10.49	109.76	119.20
1	9	645	ILE	N-CA-CB	10.48	117.10	110.50
1	C	357	ARG	NE-CZ-NH2	-10.48	109.77	119.20
1	c	443	VAL	N-CA-CB	10.47	121.94	110.53
1	U	442	VAL	N-CA-C	10.45	122.54	110.62
1	N	430	ASN	CA-CB-CG	-10.43	102.17	112.60
1	u	672	LYS	N-CA-C	10.42	122.64	111.28
1	v	192	LYS	N-CA-C	10.42	122.63	111.28
1	v	328	ARG	NH1-CZ-NH2	-10.42	105.76	119.30
1	q	406	ARG	NE-CZ-NH1	10.40	131.91	121.50
1	c	117	ALA	N-CA-C	10.40	122.62	111.28
1	x	641	LEU	N-CA-C	10.40	123.89	111.82
1	J	266	CYS	N-CA-C	10.40	122.20	111.07
1	s	597	PHE	CA-CB-CG	-10.39	103.41	113.80
1	h	98	ARG	NE-CZ-NH1	10.39	131.89	121.50
1	T	459	LYS	CA-C-N	10.39	134.20	120.28
1	T	459	LYS	C-N-CA	10.39	134.20	120.28
1	Y	94	GLU	N-CA-C	10.38	122.60	111.28
1	O	488	ARG	CA-C-N	10.38	131.51	119.98
1	O	488	ARG	C-N-CA	10.38	131.51	119.98
1	l	427	LYS	N-CA-C	10.37	122.58	111.28
1	t	572	PHE	CA-CB-CG	-10.36	103.44	113.80
1	8	118	LEU	CA-C-O	-10.36	111.48	119.46
1	V	670	GLN	N-CA-C	10.36	122.57	111.28
1	l	597	PHE	N-CA-C	10.36	122.15	111.07
1	h	227	PRO	CA-C-N	10.34	130.16	120.34
1	h	227	PRO	C-N-CA	10.34	130.16	120.34
1	T	143	LEU	CA-C-O	-10.33	110.04	119.75
1	d	557	LYS	N-CA-C	10.33	122.12	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	598	ASN	CA-CB-CG	10.32	122.92	112.60
1	r	420	PHE	CA-CB-CG	-10.32	103.48	113.80
1	k	651	TYR	N-CA-C	10.31	123.49	111.11
1	F	665	MET	N-CA-C	10.31	122.52	111.28
1	H	526	ILE	O-C-N	-10.31	111.21	121.83
1	U	365	ALA	O-C-N	-10.31	113.25	123.46
1	c	280	HIS	CA-CB-CG	10.31	124.11	113.80
1	g	235	ASP	N-CA-C	10.30	123.47	111.11
1	v	684	GLU	N-CA-C	10.30	122.26	111.14
1	9	698	ARG	NE-CZ-NH2	-10.30	109.93	119.20
1	V	391	GLY	O-C-N	10.29	132.07	122.19
1	r	315	THR	CA-C-O	10.29	131.45	120.55
1	8	128	SER	CA-C-N	10.28	135.08	120.28
1	8	128	SER	C-N-CA	10.28	135.08	120.28
1	g	283	ASP	O-C-N	-10.26	112.92	121.44
1	H	596	ILE	N-CA-C	10.26	121.09	110.62
1	f	241	ILE	CA-C-N	10.26	131.52	120.03
1	f	241	ILE	C-N-CA	10.26	131.52	120.03
1	M	300	ASP	CA-CB-CG	10.26	122.86	112.60
1	I	95	GLN	N-CA-C	10.25	125.88	113.16
1	b	582	ASP	CA-C-O	-10.25	109.44	120.92
1	I	564	ALA	CA-C-N	10.24	134.01	120.28
1	I	564	ALA	C-N-CA	10.24	134.01	120.28
1	z	682	GLN	N-CA-C	10.24	122.52	111.36
1	a	394	ARG	NE-CZ-NH2	-10.22	110.00	119.20
1	T	263	VAL	CB-CA-C	10.22	123.33	110.96
1	i	444	ARG	NE-CZ-NH1	10.22	131.72	121.50
1	x	196	VAL	O-C-N	-10.22	111.95	121.87
1	u	630	LEU	N-CA-C	10.22	122.42	111.28
1	a	437	VAL	N-CA-C	10.21	120.22	110.42
1	t	477	HIS	CA-CB-CG	-10.21	103.59	113.80
1	v	310	VAL	N-CA-CB	10.21	124.43	110.54
1	O	698	ARG	NE-CZ-NH1	10.21	131.71	121.50
1	F	112	VAL	CA-C-N	10.20	134.31	120.44
1	F	112	VAL	C-N-CA	10.20	134.31	120.44
1	l	223	ILE	O-C-N	-10.19	112.06	123.07
1	t	689	ARG	NE-CZ-NH1	10.19	131.69	121.50
1	r	316	TYR	CA-C-O	-10.19	109.30	119.69
1	v	280	HIS	CA-CB-CG	10.19	123.99	113.80
1	j	696	ILE	N-CA-C	10.18	120.19	110.42
1	x	391	GLY	CA-C-N	10.18	133.67	120.44
1	x	391	GLY	C-N-CA	10.18	133.67	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	f	414	GLN	CA-C-N	10.17	133.91	120.28
1	f	414	GLN	C-N-CA	10.17	133.91	120.28
1	0	444	ARG	NE-CZ-NH1	10.17	131.67	121.50
1	C	336	ARG	NE-CZ-NH1	10.17	131.67	121.50
1	C	513	VAL	O-C-N	-10.17	111.95	121.91
1	j	288	ARG	NE-CZ-NH1	10.16	131.66	121.50
1	X	392	GLN	CA-C-N	10.14	133.34	120.56
1	X	392	GLN	C-N-CA	10.14	133.34	120.56
1	o	488	ARG	NE-CZ-NH1	10.14	131.64	121.50
1	p	145	ARG	NE-CZ-NH1	10.13	131.63	121.50
1	u	470	GLN	OE1-CD-NE2	-10.13	112.47	122.60
1	w	280	HIS	CA-CB-CG	10.13	123.93	113.80
1	N	476	ILE	N-CA-C	10.12	120.98	110.36
1	d	472	VAL	N-CA-CB	10.11	122.38	110.55
1	z	421	PHE	CA-CB-CG	-10.11	103.69	113.80
1	9	191	HIS	N-CA-C	10.09	123.54	111.33
1	k	542	PHE	CA-CB-CG	-10.09	103.71	113.80
1	r	200	ASN	OD1-CG-ND2	-10.09	112.51	122.60
1	w	543	PHE	O-C-N	-10.08	111.69	122.07
1	x	449	ARG	NE-CZ-NH2	10.07	128.26	119.20
1	6	312	ARG	NE-CZ-NH2	-10.06	110.15	119.20
1	w	689	ARG	NE-CZ-NH1	10.06	131.56	121.50
1	J	394	ARG	N-CA-C	10.05	122.24	111.28
1	T	202	ARG	NE-CZ-NH1	10.06	131.56	121.50
1	p	452	ASN	CA-CB-CG	-10.05	102.55	112.60
1	a	312	ARG	NE-CZ-NH2	-10.04	110.16	119.20
1	s	464	ILE	N-CA-CB	10.04	121.66	110.51
1	5	682	GLN	N-CA-C	10.03	121.80	111.07
1	C	367	VAL	CA-C-O	-10.03	112.56	119.38
1	q	540	GLY	CA-C-N	10.02	134.07	120.54
1	q	540	GLY	C-N-CA	10.02	134.07	120.54
1	f	703	ARG	NE-CZ-NH2	10.02	128.22	119.20
1	A	698	ARG	N-CA-C	10.01	122.19	111.28
1	1	328	ARG	NE-CZ-NH1	10.01	131.51	121.50
1	F	650	GLN	OE1-CD-NE2	-10.01	112.59	122.60
1	Q	435	LYS	O-C-N	-10.01	111.51	122.12
1	J	350	PHE	N-CA-C	10.01	122.19	111.28
1	N	441	GLU	CA-C-N	10.00	133.91	120.50
1	N	441	GLU	C-N-CA	10.00	133.91	120.50
1	1	162	GLN	O-C-N	-10.00	115.31	121.71
1	Q	98	ARG	O-C-N	-10.00	111.12	120.92
1	6	487	TYR	N-CA-C	9.98	123.41	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	640	ARG	NE-CZ-NH1	9.98	131.48	121.50
1	W	566	ASN	CA-CB-CG	9.97	122.57	112.60
1	L	693	LYS	O-C-N	9.97	132.46	122.09
1	B	574	MET	N-CA-C	9.96	123.38	111.33
1	J	198	ALA	N-CA-C	9.95	125.22	113.18
1	l	695	ARG	NE-CZ-NH1	9.95	131.45	121.50
1	F	460	ASN	CA-C-N	9.94	134.00	120.38
1	F	460	ASN	C-N-CA	9.94	134.00	120.38
1	b	477	HIS	CA-CB-CG	9.94	123.74	113.80
1	g	655	ARG	N-CA-C	9.94	121.71	111.07
1	R	645	ILE	O-C-N	-9.94	114.06	120.42
1	i	273	THR	CA-C-N	9.94	133.99	120.38
1	i	273	THR	C-N-CA	9.94	133.99	120.38
1	G	569	GLN	OE1-CD-NE2	-9.94	112.67	122.60
1	I	130	GLY	CA-C-N	9.93	133.35	120.44
1	I	130	GLY	C-N-CA	9.93	133.35	120.44
1	h	504	ILE	O-C-N	-9.93	111.60	121.83
1	j	504	ILE	N-CA-C	9.93	120.75	110.72
1	o	501	PHE	N-CA-C	9.93	121.69	111.07
1	T	138	LEU	CA-C-N	9.93	133.94	120.44
1	T	138	LEU	C-N-CA	9.93	133.94	120.44
1	l	390	GLU	N-CA-C	9.93	123.13	111.02
1	c	241	ILE	CA-C-N	9.92	131.15	120.03
1	c	241	ILE	C-N-CA	9.92	131.15	120.03
1	m	390	GLU	O-C-N	-9.92	111.85	122.07
1	r	507	GLN	N-CA-C	9.92	122.10	111.28
1	Q	97	VAL	N-CA-C	9.92	120.73	110.62
1	e	312	ARG	NE-CZ-NH1	9.91	131.41	121.50
1	i	98	ARG	NE-CZ-NH1	9.91	131.41	121.50
1	N	218	VAL	N-CA-CB	9.91	119.30	110.08
1	S	532	ILE	N-CA-C	9.91	119.94	110.42
1	D	436	LEU	N-CA-C	9.91	121.67	111.07
1	v	145	ARG	NE-CZ-NH2	9.90	128.11	119.20
1	y	689	ARG	NE-CZ-NH1	9.90	131.40	121.50
1	4	386	LEU	CA-C-N	9.89	129.68	119.19
1	4	386	LEU	C-N-CA	9.89	129.68	119.19
1	T	561	THR	CA-C-N	9.89	133.89	120.54
1	T	561	THR	C-N-CA	9.89	133.89	120.54
1	2	303	THR	N-CA-C	9.89	121.65	111.07
1	R	309	ASN	OD1-CG-ND2	-9.89	112.71	122.60
1	g	215	SER	CA-C-O	-9.89	110.87	120.26
1	n	139	SER	N-CA-C	9.89	122.06	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	l	240	ASP	CA-C-N	9.88	133.01	120.56
1	l	240	ASP	C-N-CA	9.88	133.01	120.56
1	d	657	ASN	CA-C-N	9.88	130.86	120.00
1	d	657	ASN	C-N-CA	9.88	130.86	120.00
1	p	365	ALA	CA-C-N	9.87	134.31	120.29
1	p	365	ALA	C-N-CA	9.87	134.31	120.29
1	W	593	ARG	N-CA-C	9.87	122.04	111.28
1	a	489	GLY	O-C-N	9.87	131.76	122.19
1	W	510	GLN	CA-C-O	9.86	131.28	120.63
1	0	126	ASP	CA-CB-CG	9.86	122.45	112.60
1	3	682	GLN	N-CA-C	9.86	121.61	111.07
1	6	255	ARG	NE-CZ-NH2	-9.85	110.33	119.20
1	H	573	ARG	NE-CZ-NH2	9.84	128.06	119.20
1	6	254	GLN	OE1-CD-NE2	-9.84	112.76	122.60
1	M	507	GLN	OE1-CD-NE2	-9.83	112.77	122.60
1	I	314	LEU	N-CA-C	9.83	122.41	110.91
1	h	295	LYS	CA-C-N	9.83	129.61	119.19
1	h	295	LYS	C-N-CA	9.83	129.61	119.19
1	B	269	ASP	CA-CB-CG	9.83	122.43	112.60
1	i	252	TYR	N-CA-C	9.82	122.06	111.36
1	y	104	ILE	N-CA-CB	9.82	123.14	110.57
1	u	264	VAL	CA-C-O	-9.81	114.84	119.94
1	0	222	THR	N-CA-CB	9.81	125.95	110.65
1	T	463	GLY	N-CA-C	9.80	124.50	112.73
1	D	215	SER	O-C-N	-9.80	112.79	121.71
1	v	226	LEU	CA-C-N	9.80	132.09	119.84
1	v	226	LEU	C-N-CA	9.80	132.09	119.84
1	x	182	ASP	CA-C-N	9.80	132.09	119.84
1	x	182	ASP	C-N-CA	9.80	132.09	119.84
1	O	358	VAL	N-CA-C	9.80	119.83	110.42
1	b	450	LEU	CA-C-N	9.79	133.41	120.28
1	b	450	LEU	C-N-CA	9.79	133.41	120.28
1	R	703	ARG	NE-CZ-NH2	9.79	128.01	119.20
1	n	213	ILE	O-C-N	-9.79	112.69	123.26
1	Y	530	ALA	N-CA-C	9.79	123.17	111.33
1	K	487	TYR	N-CA-C	9.79	121.95	111.28
1	W	494	GLY	O-C-N	-9.78	112.26	123.61
1	E	645	ILE	N-CA-CB	9.78	118.08	110.45
1	V	103	LEU	N-CA-C	9.78	121.54	111.07
1	E	93	TYR	CA-C-N	9.78	133.38	120.28
1	E	93	TYR	C-N-CA	9.78	133.38	120.28
1	x	110	LEU	CA-C-O	9.76	131.09	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	260	ASN	OD1-CG-ND2	-9.75	112.85	122.60
1	w	357	ARG	N-CA-C	9.75	121.50	111.07
1	V	95	GLN	N-CA-C	9.75	121.91	111.28
1	2	554	GLU	N-CA-C	9.75	121.91	111.28
1	w	269	ASP	CA-CB-CG	9.74	122.34	112.60
1	Y	538	HIS	CA-CB-CG	-9.74	104.06	113.80
1	p	682	GLN	N-CA-C	9.73	122.90	111.71
1	s	584	ILE	N-CA-C	9.72	120.54	110.62
1	R	269	ASP	CA-CB-CG	9.72	122.32	112.60
1	i	410	ASP	N-CA-C	9.72	121.47	111.07
1	J	682	GLN	N-CA-C	9.71	121.46	111.07
1	q	100	CYS	CA-C-O	9.71	130.84	120.55
1	h	682	GLN	N-CA-C	9.70	121.45	111.07
1	P	655	ARG	NE-CZ-NH1	9.70	131.20	121.50
1	c	336	ARG	NE-CZ-NH1	9.70	131.20	121.50
1	S	330	GLN	CA-C-N	9.70	133.28	120.28
1	S	330	GLN	C-N-CA	9.70	133.28	120.28
1	R	670	GLN	N-CA-C	9.70	121.85	111.28
1	i	267	ASN	CA-CB-CG	9.69	122.29	112.60
1	i	127	GLN	N-CA-C	9.69	121.84	111.28
1	z	215	SER	O-C-N	-9.69	114.27	121.83
1	o	644	GLN	N-CA-C	9.69	121.43	111.07
1	P	596	ILE	O-C-N	-9.69	110.46	122.57
1	m	566	ASN	OD1-CG-ND2	-9.68	112.92	122.60
1	n	566	ASN	CA-CB-CG	9.68	122.28	112.60
1	O	264	VAL	O-C-N	-9.68	115.59	121.69
1	p	581	GLN	OE1-CD-NE2	-9.68	112.92	122.60
1	G	539	PHE	CA-CB-CG	-9.68	104.12	113.80
1	K	208	LEU	N-CA-C	9.67	123.88	110.24
1	v	428	MET	N-CA-C	9.67	121.82	111.28
1	4	106	SER	N-CA-C	9.67	122.71	111.11
1	H	433	ILE	N-CA-C	9.67	119.70	110.42
1	Q	288	ARG	NE-CZ-NH1	9.66	131.16	121.50
1	t	623	PHE	CA-C-O	9.66	131.08	119.97
1	S	350	PHE	CA-CB-CG	-9.65	104.14	113.80
1	f	471	LYS	N-CA-C	9.65	121.80	111.28
1	n	166	ALA	N-CA-C	9.65	124.48	110.10
1	5	239	ARG	CA-C-N	9.65	139.07	121.70
1	5	239	ARG	C-N-CA	9.65	139.07	121.70
1	m	631	ASN	OD1-CG-ND2	-9.65	112.95	122.60
1	M	279	ALA	O-C-N	-9.65	110.41	122.27
1	0	649	ILE	N-CA-C	9.64	119.68	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	187	GLU	N-CA-C	9.64	122.68	111.11
1	B	476	ILE	O-C-N	-9.63	112.45	121.89
1	c	232	VAL	O-C-N	-9.63	112.80	123.10
1	c	231	ARG	NE-CZ-NH2	9.63	127.86	119.20
1	c	689	ARG	NE-CZ-NH2	9.62	127.86	119.20
1	F	106	SER	CA-C-N	9.62	133.18	120.28
1	F	106	SER	C-N-CA	9.62	133.18	120.28
1	O	386	LEU	CA-C-O	-9.62	109.48	118.33
1	n	105	ASP	CA-C-N	9.62	133.52	120.44
1	n	105	ASP	C-N-CA	9.62	133.52	120.44
1	h	595	GLU	N-CA-C	9.61	121.76	111.28
1	t	328	ARG	NE-CZ-NH1	9.61	131.11	121.50
1	v	280	HIS	N-CA-C	9.61	122.76	111.71
1	P	645	ILE	O-C-N	-9.61	113.25	120.07
1	Z	101	ILE	N-CA-CB	9.61	122.87	110.57
1	6	312	ARG	N-CA-C	9.61	122.76	111.71
1	f	677	TRP	N-CA-C	9.61	121.83	111.36
1	l	290	ILE	N-CA-CB	9.60	124.66	111.41
1	I	336	ARG	NH1-CZ-NH2	-9.60	106.82	119.30
1	w	573	ARG	CA-C-N	9.60	132.92	120.44
1	w	573	ARG	C-N-CA	9.60	132.92	120.44
1	L	661	LEU	O-C-N	-9.60	112.11	122.09
1	9	185	GLN	CA-C-N	9.60	132.98	120.60
1	9	185	GLN	C-N-CA	9.60	132.98	120.60
1	o	340	ALA	N-CA-C	9.60	121.34	111.07
1	l	573	ARG	NE-CZ-NH1	9.58	131.08	121.50
1	m	139	SER	N-CA-C	9.58	121.80	111.36
1	y	288	ARG	NE-CZ-NH1	9.57	131.07	121.50
1	6	240	ASP	CA-CB-CG	9.56	122.16	112.60
1	f	218	VAL	N-CA-CB	9.56	119.83	109.99
1	t	358	VAL	N-CA-C	9.56	119.59	110.42
1	3	405	ARG	NE-CZ-NH1	9.55	131.05	121.50
1	V	661	LEU	N-CA-C	9.55	121.69	111.28
1	R	579	PHE	N-CA-C	9.55	124.36	110.42
1	N	686	ALA	N-CA-C	9.54	121.68	111.28
1	o	501	PHE	CA-C-O	9.54	130.84	120.82
1	W	200	ASN	CA-CB-CG	-9.54	103.06	112.60
1	b	455	ARG	O-C-N	-9.54	109.21	122.37
1	l	494	GLY	CA-C-N	9.54	138.86	121.70
1	l	494	GLY	C-N-CA	9.54	138.86	121.70
1	U	703	ARG	NE-CZ-NH2	9.53	127.78	119.20
1	C	165	GLU	N-CA-C	9.53	123.69	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	593	ARG	N-CA-C	9.52	122.86	111.82
1	l	573	ARG	N-CA-C	9.52	121.66	111.28
1	z	694	GLU	N-CA-C	9.52	121.26	111.07
1	Y	186	VAL	N-CA-C	9.52	120.33	110.62
1	3	377	GLU	CA-C-N	9.51	133.38	120.54
1	3	377	GLU	C-N-CA	9.51	133.38	120.54
1	G	131	LYS	N-CA-C	9.51	121.64	111.28
1	n	516	ALA	N-CA-C	9.51	121.64	111.28
1	4	514	GLU	CA-C-O	-9.50	109.42	118.73
1	9	295	LYS	O-C-N	-9.50	110.39	121.32
1	c	662	GLN	N-CA-C	9.50	121.64	111.28
1	5	662	GLN	O-C-N	-9.50	112.05	122.12
1	Y	102	ASP	CA-CB-CG	-9.49	103.11	112.60
1	b	426	ILE	N-CA-C	9.49	120.30	110.62
1	c	406	ARG	NE-CZ-NH2	-9.49	110.66	119.20
1	a	286	GLY	CA-C-N	9.48	133.76	120.29
1	a	286	GLY	C-N-CA	9.48	133.76	120.29
1	l	379	ILE	CA-C-N	9.48	132.77	120.44
1	l	379	ILE	C-N-CA	9.48	132.77	120.44
1	Q	503	ILE	N-CA-C	9.48	119.53	110.42
1	l	97	VAL	N-CA-C	9.47	120.29	110.72
1	v	690	ARG	NE-CZ-NH1	9.47	130.97	121.50
1	L	565	GLU	CA-C-N	9.47	132.75	120.44
1	L	565	GLU	C-N-CA	9.47	132.75	120.44
1	c	114	GLN	N-CA-C	9.47	123.96	110.23
1	n	624	THR	N-CA-C	9.47	121.20	111.07
1	4	265	PRO	CA-C-N	9.46	134.69	120.31
1	4	265	PRO	C-N-CA	9.46	134.69	120.31
1	a	373	ARG	CA-C-N	9.46	132.96	120.28
1	a	373	ARG	C-N-CA	9.46	132.96	120.28
1	c	572	PHE	N-CA-C	9.46	122.46	111.11
1	l	485	LYS	N-CA-C	9.46	121.67	111.36
1	M	425	LYS	N-CA-C	9.46	121.59	111.28
1	y	316	TYR	N-CA-C	9.46	120.48	109.60
1	F	468	ASN	CA-CB-CG	-9.45	103.15	112.60
1	Z	240	ASP	CA-CB-CG	9.45	122.05	112.60
1	F	267	ASN	CA-CB-CG	9.45	122.05	112.60
1	X	271	ALA	N-CA-C	9.45	121.66	111.36
1	F	98	ARG	O-C-N	-9.44	112.92	120.38
1	k	626	ILE	N-CA-C	-9.44	102.71	111.67
1	r	218	VAL	N-CA-C	9.43	117.79	109.02
1	H	639	LYS	N-CA-C	9.43	121.56	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	328	ARG	NE-CZ-NH2	-9.43	110.71	119.20
1	I	309	ASN	N-CA-C	9.43	121.64	111.36
1	H	523	ALA	O-C-N	-9.42	112.14	122.12
1	U	640	ARG	NE-CZ-NH1	9.42	130.92	121.50
1	x	431	GLN	N-CA-C	9.42	121.54	111.28
1	R	494	GLY	O-C-N	-9.42	110.46	122.70
1	z	504	ILE	N-CA-C	9.41	119.45	110.42
1	G	202	ARG	NE-CZ-NH1	9.40	130.90	121.50
1	O	640	ARG	NE-CZ-NH1	9.40	130.90	121.50
1	U	328	ARG	NE-CZ-NH2	-9.40	110.74	119.20
1	2	282	VAL	CA-C-O	9.40	129.22	119.91
1	W	224	ILE	O-C-N	-9.39	112.11	123.10
1	b	660	SER	N-CA-C	9.39	121.52	111.28
1	e	345	LYS	N-CA-C	9.39	122.38	111.11
1	U	240	ASP	CA-C-N	9.39	132.71	120.60
1	U	240	ASP	C-N-CA	9.39	132.71	120.60
1	h	675	TYR	N-CA-C	9.38	121.11	111.07
1	H	182	ASP	CA-CB-CG	9.38	121.98	112.60
1	X	644	GLN	CA-C-N	9.38	126.15	120.24
1	X	644	GLN	C-N-CA	9.38	126.15	120.24
1	F	634	PHE	CA-CB-CG	9.38	123.18	113.80
1	u	162	GLN	O-C-N	-9.38	115.71	121.71
1	H	703	ARG	N-CA-C	9.38	121.58	111.36
1	2	382	ILE	N-CA-C	9.37	120.20	110.36
1	y	420	PHE	CA-C-N	9.36	132.61	120.44
1	y	420	PHE	C-N-CA	9.36	132.61	120.44
1	k	391	GLY	CA-C-O	-9.36	111.11	120.75
1	S	379	ILE	CA-C-N	9.36	132.82	120.28
1	S	379	ILE	C-N-CA	9.36	132.82	120.28
1	N	645	ILE	N-CA-CB	9.36	117.75	110.45
1	8	125	GLY	O-C-N	-9.36	114.94	123.92
1	q	410	ASP	N-CA-C	9.36	121.48	111.28
1	i	454	ILE	CA-C-O	9.35	130.58	120.57
1	u	188	LYS	N-CA-C	9.35	121.55	111.36
1	S	544	ASN	CA-CB-CG	-9.35	103.25	112.60
1	y	394	ARG	N-CA-C	9.35	121.47	111.28
1	p	261	LEU	O-C-N	-9.34	112.43	123.27
1	T	308	MET	CA-C-O	9.34	130.45	120.55
1	T	633	TYR	N-CA-C	9.34	121.46	111.28
1	F	644	GLN	CA-C-N	9.34	127.80	120.33
1	F	644	GLN	C-N-CA	9.34	127.80	120.33
1	H	426	ILE	N-CA-C	9.34	120.14	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	194	GLN	N-CA-C	9.33	121.06	111.07
1	K	97	VAL	N-CA-C	9.33	120.15	110.72
1	G	572	PHE	CA-CB-CG	-9.33	104.47	113.80
1	R	230	THR	N-CA-C	9.33	122.62	111.33
1	B	684	GLU	N-CA-C	9.33	121.05	111.07
1	x	189	GLU	N-CA-C	9.32	121.44	111.28
1	2	569	GLN	CA-C-O	9.32	130.61	120.82
1	a	162	GLN	CA-C-N	9.32	129.53	119.28
1	a	162	GLN	C-N-CA	9.32	129.53	119.28
1	h	361	GLU	O-C-N	-9.32	112.24	122.12
1	F	286	GLY	CA-C-N	9.32	133.15	120.38
1	F	286	GLY	C-N-CA	9.32	133.15	120.38
1	A	202	ARG	NE-CZ-NH1	9.31	130.81	121.50
1	D	657	ASN	CA-C-N	9.31	130.31	119.98
1	D	657	ASN	C-N-CA	9.31	130.31	119.98
1	G	507	GLN	N-CA-C	9.30	121.42	111.28
1	S	574	MET	N-CA-C	9.30	121.42	111.28
1	l	453	LYS	N-CA-C	9.30	121.49	111.36
1	A	330	GLN	CA-C-N	9.29	132.73	120.28
1	A	330	GLN	C-N-CA	9.29	132.73	120.28
1	n	581	GLN	N-CA-C	9.29	116.40	108.78
1	O	175	ASN	CA-CB-CG	-9.28	103.32	112.60
1	N	586	SER	CA-C-N	9.28	132.25	120.56
1	N	586	SER	C-N-CA	9.28	132.25	120.56
1	8	300	ASP	CA-CB-CG	9.28	121.88	112.60
1	j	585	TYR	O-C-N	-9.28	112.29	122.12
1	G	194	GLN	OE1-CD-NE2	-9.28	113.33	122.60
1	C	96	LYS	CA-C-N	9.27	132.43	120.56
1	C	96	LYS	C-N-CA	9.27	132.43	120.56
1	b	309	ASN	O-C-N	-9.27	112.45	122.09
1	R	505	VAL	CA-C-N	9.27	133.08	120.38
1	R	505	VAL	C-N-CA	9.27	133.08	120.38
1	n	260	ASN	OD1-CG-ND2	-9.27	113.33	122.60
1	q	118	LEU	O-C-N	-9.27	110.66	121.32
1	s	386	LEU	O-C-N	-9.26	112.23	120.48
1	o	174	ARG	NE-CZ-NH2	-9.26	110.87	119.20
1	A	410	ASP	N-CA-C	9.26	121.14	111.14
1	c	530	ALA	N-CA-C	9.26	120.97	111.07
1	0	544	ASN	N-CA-C	9.25	120.97	111.07
1	n	120	ALA	N-CA-C	9.25	122.26	110.24
1	w	625	GLU	N-CA-C	9.24	121.36	111.28
1	3	380	MET	CA-C-N	9.24	132.66	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3	380	MET	C-N-CA	9.24	132.66	120.28
1	s	559	LYS	N-CA-C	9.24	121.35	111.28
1	F	215	SER	O-C-N	-9.24	115.38	121.85
1	M	278	MET	CA-C-O	9.24	130.21	120.42
1	R	190	ILE	N-CA-C	9.24	119.29	110.42
1	0	236	ASN	OD1-CG-ND2	-9.24	113.36	122.60
1	a	378	LEU	N-CA-C	9.23	121.43	111.36
1	o	247	ALA	N-CA-C	9.23	121.43	111.36
1	r	582	ASP	CA-C-N	9.23	133.03	120.38
1	r	582	ASP	C-N-CA	9.23	133.03	120.38
1	P	376	THR	O-C-N	-9.23	112.56	122.07
1	1	703	ARG	NE-CZ-NH1	9.23	130.73	121.50
1	8	297	ASP	CA-CB-CG	9.23	121.83	112.60
1	r	494	GLY	O-C-N	-9.23	110.70	122.70
1	A	312	ARG	NE-CZ-NH2	-9.23	110.89	119.20
1	C	660	SER	N-CA-C	9.23	122.32	111.71
1	C	126	ASP	CA-CB-CG	9.22	121.83	112.60
1	Q	193	ALA	CA-C-O	9.22	130.33	120.55
1	S	400	ALA	N-CA-C	9.22	120.94	111.07
1	9	206	HIS	CA-CB-CG	9.22	123.02	113.80
1	m	315	THR	CA-C-N	9.22	134.71	120.60
1	m	315	THR	C-N-CA	9.22	134.71	120.60
1	0	197	MET	N-CA-C	9.21	121.09	111.14
1	6	251	LYS	N-CA-C	9.22	121.33	111.28
1	h	483	TYR	N-CA-C	9.21	120.93	111.07
1	b	454	ILE	N-CA-C	9.21	120.02	110.62
1	2	631	ASN	CA-CB-CG	-9.21	103.39	112.60
1	4	425	LYS	N-CA-C	9.21	121.32	111.28
1	k	629	HIS	CE1-NE2-CD2	-9.21	99.79	109.00
1	s	131	LYS	CA-C-N	9.21	132.99	120.38
1	s	131	LYS	C-N-CA	9.21	132.99	120.38
1	u	525	GLU	N-CA-C	9.21	120.92	111.07
1	b	573	ARG	NE-CZ-NH1	9.20	130.70	121.50
1	u	393	ILE	N-CA-CB	9.20	121.32	110.55
1	i	340	ALA	CA-C-O	9.20	130.17	120.42
1	D	430	ASN	CA-C-N	9.20	132.61	120.28
1	D	430	ASN	C-N-CA	9.20	132.61	120.28
1	k	428	MET	N-CA-C	9.20	121.31	111.28
1	A	264	VAL	O-C-N	-9.20	110.61	121.10
1	P	162	GLN	O-C-N	-9.20	115.41	121.85
1	1	417	ASP	CA-CB-CG	-9.20	103.40	112.60
1	4	186	VAL	CA-C-O	9.20	130.60	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	645	ILE	CA-C-O	-9.20	111.03	118.85
1	j	696	ILE	O-C-N	-9.19	112.90	121.91
1	R	682	GLN	N-CA-C	9.20	121.30	111.28
1	E	202	ARG	NE-CZ-NH2	-9.19	110.93	119.20
1	2	557	LYS	N-CA-C	9.19	121.30	111.28
1	B	236	ASN	OD1-CG-ND2	9.19	131.79	122.60
1	B	340	ALA	N-CA-C	9.19	120.90	111.07
1	S	425	LYS	N-CA-C	9.19	121.30	111.28
1	o	565	GLU	N-CA-C	9.19	122.13	111.11
1	D	680	GLN	CA-C-N	9.19	133.75	120.71
1	D	680	GLN	C-N-CA	9.19	133.75	120.71
1	H	655	ARG	N-CA-C	9.19	120.90	111.07
1	u	644	GLN	N-CA-C	9.19	121.29	111.28
1	7	380	MET	N-CA-C	9.18	121.29	111.28
1	f	239	ARG	CA-C-N	9.18	138.23	121.70
1	f	239	ARG	C-N-CA	9.18	138.23	121.70
1	g	262	VAL	O-C-N	-9.18	113.54	123.18
1	x	301	ARG	CA-C-N	9.18	131.91	120.34
1	x	301	ARG	C-N-CA	9.18	131.91	120.34
1	z	650	GLN	N-CA-C	9.18	121.29	111.28
1	u	102	ASP	CA-CB-CG	9.18	121.78	112.60
1	q	301	ARG	NE-CZ-NH2	-9.18	110.94	119.20
1	O	264	VAL	N-CA-C	-9.18	101.67	109.19
1	d	494	GLY	O-C-N	-9.17	110.77	122.70
1	Z	432	ASP	CA-C-N	9.17	132.12	120.56
1	Z	432	ASP	C-N-CA	9.17	132.12	120.56
1	7	247	ALA	N-CA-C	9.17	120.88	111.07
1	T	278	MET	N-CA-C	9.17	120.88	111.07
1	o	479	GLU	N-CA-C	9.16	121.27	111.28
1	Z	698	ARG	N-CA-C	9.16	120.87	111.07
1	l	485	LYS	CA-C-N	9.16	132.90	120.44
1	l	485	LYS	C-N-CA	9.16	132.90	120.44
1	2	644	GLN	N-CA-C	9.16	121.26	111.28
1	V	98	ARG	CA-C-N	9.15	128.83	118.85
1	V	98	ARG	C-N-CA	9.15	128.83	118.85
1	C	185	GLN	N-CA-C	9.15	124.23	112.89
1	I	480	VAL	N-CA-C	9.15	119.95	110.62
1	N	404	LEU	CA-C-N	9.15	132.54	120.28
1	N	404	LEU	C-N-CA	9.15	132.54	120.28
1	Z	435	LYS	N-CA-C	9.15	122.09	111.11
1	U	281	GLU	N-CA-C	9.15	122.40	111.33
1	W	477	HIS	CA-CB-CG	9.15	122.95	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	334	THR	N-CA-C	9.14	122.08	111.11
1	q	644	GLN	N-CA-C	9.14	121.25	111.28
1	U	558	VAL	N-CA-C	9.14	119.95	110.62
1	N	240	ASP	CA-CB-CG	9.14	121.74	112.60
1	2	652	PHE	N-CA-C	9.14	120.85	111.07
1	3	283	ASP	CA-C-N	9.14	128.81	118.85
1	3	283	ASP	C-N-CA	9.14	128.81	118.85
1	h	568	ILE	O-C-N	-9.14	112.80	121.94
1	M	162	GLN	CA-C-O	-9.14	111.93	120.34
1	C	655	ARG	NE-CZ-NH1	9.14	130.64	121.50
1	S	280	HIS	CA-CB-CG	9.14	122.94	113.80
1	n	573	ARG	CA-C-N	9.13	132.31	120.44
1	n	573	ARG	C-N-CA	9.13	132.31	120.44
1	v	328	ARG	NE-CZ-NH1	9.13	130.63	121.50
1	s	644	GLN	N-CA-C	9.13	122.41	111.82
1	V	397	HIS	CA-CB-CG	9.13	122.93	113.80
1	y	420	PHE	N-CA-C	9.12	120.83	111.07
1	F	249	ILE	CA-C-N	9.12	132.86	120.54
1	F	249	ILE	C-N-CA	9.12	132.86	120.54
1	c	689	ARG	NH1-CZ-NH2	-9.12	107.44	119.30
1	F	145	ARG	NH1-CZ-NH2	-9.12	107.44	119.30
1	D	508	TYR	N-CA-C	9.12	121.22	111.28
1	9	449	ARG	NE-CZ-NH2	9.12	127.41	119.20
1	a	403	GLU	N-CA-C	9.12	121.22	111.28
1	x	540	GLY	CA-C-O	9.12	130.26	119.50
1	R	650	GLN	O-C-N	-9.12	112.68	122.07
1	a	523	ALA	N-CA-C	9.12	120.82	111.07
1	I	271	ALA	N-CA-C	9.11	121.22	111.28
1	l	265	PRO	N-CA-CB	9.11	111.27	103.25
1	A	357	ARG	CA-C-N	9.11	133.36	120.42
1	A	357	ARG	C-N-CA	9.11	133.36	120.42
1	J	662	GLN	CA-C-O	9.11	130.21	120.55
1	X	192	LYS	N-CA-C	9.11	120.81	111.07
1	s	153	CYS	CA-C-N	9.11	131.22	119.84
1	s	153	CYS	C-N-CA	9.11	131.22	119.84
1	s	480	VAL	O-C-N	-9.11	112.99	121.91
1	i	480	VAL	N-CA-C	9.10	119.91	110.72
1	z	695	ARG	NE-CZ-NH1	9.10	130.60	121.50
1	C	412	PRO	N-CA-CB	-9.10	93.70	103.25
1	y	526	ILE	N-CA-C	9.09	119.89	110.62
1	l	534	VAL	N-CA-C	9.09	119.89	110.62
1	d	415	GLU	N-CA-C	9.09	120.79	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	i	474	ASN	CA-CB-CG	-9.08	103.52	112.60
1	u	143	LEU	CA-C-N	9.08	129.17	119.90
1	u	143	LEU	C-N-CA	9.08	129.17	119.90
1	V	293	LEU	O-C-N	-9.08	112.03	122.93
1	l	698	ARG	CA-C-N	9.08	132.45	120.28
1	l	698	ARG	C-N-CA	9.08	132.45	120.28
1	N	527	ILE	CA-C-N	9.08	132.45	120.28
1	N	527	ILE	C-N-CA	9.08	132.45	120.28
1	f	336	ARG	NE-CZ-NH1	9.08	130.58	121.50
1	x	110	LEU	CA-C-N	9.08	131.26	122.27
1	x	110	LEU	C-N-CA	9.08	131.26	122.27
1	K	312	ARG	CA-C-N	9.08	132.24	120.44
1	K	312	ARG	C-N-CA	9.08	132.24	120.44
1	P	231	ARG	NE-CZ-NH2	-9.08	111.03	119.20
1	F	420	PHE	CA-CB-CG	-9.07	104.72	113.80
1	l	366	THR	N-CA-C	9.07	122.00	111.11
1	7	111	GLY	N-CA-C	9.07	122.31	112.33
1	7	504	ILE	CA-C-O	-9.07	111.52	120.95
1	S	328	ARG	CA-C-N	9.07	130.32	120.44
1	S	328	ARG	C-N-CA	9.07	130.32	120.44
1	3	525	GLU	N-CA-C	9.06	121.16	111.28
1	2	336	ARG	NE-CZ-NH1	9.06	130.56	121.50
1	R	476	ILE	N-CA-C	9.06	119.12	110.42
1	u	98	ARG	NE-CZ-NH1	9.06	130.56	121.50
1	I	508	TYR	CA-C-N	9.06	131.97	120.56
1	I	508	TYR	C-N-CA	9.06	131.97	120.56
1	B	200	ASN	OD1-CG-ND2	-9.06	113.54	122.60
1	B	480	VAL	CA-C-N	9.05	132.41	120.28
1	B	480	VAL	C-N-CA	9.05	132.41	120.28
1	J	240	ASP	CA-C-N	9.05	131.96	120.56
1	J	240	ASP	C-N-CA	9.05	131.96	120.56
1	S	598	ASN	CA-CB-CG	-9.05	103.55	112.60
1	q	156	VAL	CA-C-O	9.04	130.21	120.53
1	R	528	GLN	O-C-N	-9.04	112.75	122.07
1	E	373	ARG	CA-C-N	9.04	132.40	120.28
1	E	373	ARG	C-N-CA	9.04	132.40	120.28
1	L	437	VAL	CA-C-N	9.04	132.40	120.28
1	L	437	VAL	C-N-CA	9.04	132.40	120.28
1	C	625	GLU	N-CA-C	9.04	120.90	111.14
1	V	388	LEU	CA-C-N	9.04	133.36	120.79
1	V	388	LEU	C-N-CA	9.04	133.36	120.79
1	p	682	GLN	O-C-N	-9.04	111.65	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	99	PRO	CA-C-N	9.04	133.35	120.79
1	J	99	PRO	C-N-CA	9.04	133.35	120.79
1	5	393	ILE	N-CA-C	9.03	119.09	110.42
1	y	195	ASN	OD1-CG-ND2	-9.03	113.57	122.60
1	B	689	ARG	NE-CZ-NH2	-9.03	111.07	119.20
1	2	185	GLN	OE1-CD-NE2	-9.03	113.57	122.60
1	4	534	VAL	N-CA-C	9.03	119.09	110.42
1	o	102	ASP	CA-CB-CG	9.03	121.63	112.60
1	K	143	LEU	CA-C-N	9.03	129.11	119.90
1	K	143	LEU	C-N-CA	9.03	129.11	119.90
1	g	273	THR	N-CA-C	9.03	122.97	110.24
1	Y	494	GLY	O-C-N	-9.02	110.97	122.70
1	w	328	ARG	NE-CZ-NH1	9.02	130.52	121.50
1	q	482	LYS	CA-C-N	9.02	132.16	120.44
1	q	482	LYS	C-N-CA	9.02	132.16	120.44
1	q	543	PHE	N-CA-C	9.02	120.72	111.07
1	J	477	HIS	N-CA-C	9.01	123.83	113.01
1	p	541	GLU	N-CA-C	9.01	122.27	111.82
1	W	352	THR	N-CA-C	9.01	122.27	111.82
1	j	494	GLY	CA-C-N	9.01	137.91	121.70
1	j	494	GLY	C-N-CA	9.01	137.91	121.70
1	4	312	ARG	NE-CZ-NH2	-9.01	111.10	119.20
1	b	182	ASP	CA-CB-CG	9.01	121.61	112.60
1	s	535	ALA	N-CA-C	9.01	121.09	111.28
1	N	523	ALA	CA-C-N	9.01	132.15	120.44
1	N	523	ALA	C-N-CA	9.01	132.15	120.44
1	3	208	LEU	N-CA-C	9.00	124.07	109.76
1	P	476	ILE	O-C-N	-9.00	113.07	121.89
1	P	477	HIS	CA-C-N	9.00	132.15	120.44
1	P	477	HIS	C-N-CA	9.00	132.15	120.44
1	3	359	LEU	O-C-N	-9.00	112.73	122.09
1	8	288	ARG	NE-CZ-NH2	9.00	127.30	119.20
1	6	708	GLN	N-CA-C	9.00	121.91	111.11
1	Z	196	VAL	CA-C-N	9.00	133.07	120.29
1	Z	196	VAL	C-N-CA	9.00	133.07	120.29
1	b	463	GLY	CA-C-N	8.99	131.89	120.56
1	b	463	GLY	C-N-CA	8.99	131.89	120.56
1	q	392	GLN	CA-C-N	8.99	132.55	120.77
1	q	392	GLN	C-N-CA	8.99	132.55	120.77
1	w	306	SER	CA-C-N	8.99	132.07	120.56
1	w	306	SER	C-N-CA	8.99	132.07	120.56
1	G	585	TYR	O-C-N	8.99	131.65	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8	397	HIS	CA-C-N	8.99	132.33	120.28
1	8	397	HIS	C-N-CA	8.99	132.33	120.28
1	i	501	PHE	O-C-N	-8.99	112.81	122.07
1	q	627	GLY	N-CA-C	8.99	124.28	112.77
1	A	431	GLN	N-CA-C	8.99	121.16	111.36
1	P	664	ALA	N-CA-C	8.99	122.05	111.71
1	V	376	THR	CA-C-O	8.99	130.26	120.82
1	E	663	LYS	CA-C-N	8.99	132.12	120.44
1	E	663	LYS	C-N-CA	8.99	132.12	120.44
1	V	555	ASP	O-C-N	-8.99	112.59	122.12
1	b	703	ARG	CD-NE-CZ	8.98	136.98	124.40
1	G	698	ARG	NE-CZ-NH1	8.98	130.48	121.50
1	Y	644	GLN	N-CA-C	8.98	120.84	111.14
1	o	394	ARG	N-CA-C	8.98	121.15	111.36
1	y	309	ASN	CA-CB-CG	-8.98	103.62	112.60
1	U	335	ASN	CA-CB-CG	-8.97	103.62	112.60
1	R	586	SER	N-CA-C	8.97	120.67	111.07
1	2	335	ASN	CA-CB-CG	8.96	121.56	112.60
1	7	283	ASP	CA-CB-CG	8.96	121.56	112.60
1	G	597	PHE	N-CA-C	8.96	121.05	111.28
1	d	674	ARG	CA-C-N	8.96	132.63	120.54
1	d	674	ARG	C-N-CA	8.96	132.63	120.54
1	X	306	SER	N-CA-C	8.96	121.04	111.28
1	j	460	ASN	CA-C-N	8.95	132.08	120.44
1	j	460	ASN	C-N-CA	8.95	132.08	120.44
1	E	225	ASP	CA-CB-CG	-8.95	103.65	112.60
1	5	596	ILE	O-C-N	-8.95	115.05	121.85
1	I	441	GLU	N-CA-C	8.95	123.48	110.42
1	Q	566	ASN	CA-CB-CG	8.95	121.55	112.60
1	R	319	LYS	N-CA-C	-8.95	102.09	113.72
1	q	250	LYS	CB-CA-C	8.94	125.63	110.79
1	v	461	TRP	O-C-N	-8.94	112.86	122.07
1	f	291	GLY	O-C-N	-8.94	117.72	123.35
1	e	695	ARG	O-C-N	-8.94	112.87	122.07
1	Z	643	ASN	CA-CB-CG	-8.94	103.67	112.60
1	o	707	CYS	N-CA-C	8.93	121.01	111.28
1	I	239	ARG	N-CA-C	8.93	122.32	110.53
1	Q	239	ARG	CA-C-N	8.93	137.77	121.70
1	Q	239	ARG	C-N-CA	8.93	137.77	121.70
1	c	381	HIS	CA-CB-CG	-8.93	104.87	113.80
1	k	410	ASP	N-CA-C	8.93	121.01	111.28
1	k	629	HIS	ND1-CE1-NE2	8.93	117.33	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	s	195	ASN	N-CA-C	8.92	120.62	111.07
1	L	132	SER	N-CA-C	8.92	122.17	111.82
1	k	288	ARG	N-CA-C	-8.92	98.55	111.30
1	8	488	ARG	NE-CZ-NH2	-8.92	111.17	119.20
1	j	399	LYS	CA-C-N	8.92	132.42	120.65
1	j	399	LYS	C-N-CA	8.92	132.42	120.65
1	D	271	ALA	N-CA-C	8.92	121.00	111.28
1	x	313	ASN	CA-CB-CG	8.91	121.51	112.60
1	I	689	ARG	NE-CZ-NH1	8.91	130.41	121.50
1	V	496	VAL	O-C-N	-8.91	113.21	122.75
1	z	454	ILE	CA-C-N	8.91	132.22	120.28
1	z	454	ILE	C-N-CA	8.91	132.22	120.28
1	L	312	ARG	NE-CZ-NH2	-8.91	111.18	119.20
1	B	145	ARG	NE-CZ-NH2	-8.91	111.18	119.20
1	T	301	ARG	NE-CZ-NH2	-8.91	111.19	119.20
1	T	430	ASN	N-CA-C	8.91	122.11	111.33
1	K	264	VAL	CA-C-O	8.90	124.57	119.94
1	R	162	GLN	CA-C-N	8.90	129.47	119.32
1	R	162	GLN	C-N-CA	8.90	129.47	119.32
1	X	105	ASP	CA-CB-CG	8.90	121.50	112.60
1	C	642	ALA	O-C-N	-8.90	110.75	122.59
1	0	631	ASN	N-CA-C	8.90	120.98	111.28
1	5	655	ARG	NE-CZ-NH2	8.90	127.21	119.20
1	x	689	ARG	NE-CZ-NH1	8.90	130.40	121.50
1	P	118	LEU	CA-C-N	8.90	130.96	119.84
1	P	118	LEU	C-N-CA	8.90	130.96	119.84
1	0	550	GLN	N-CA-C	8.89	120.97	111.28
1	e	511	GLN	O-C-N	-8.89	111.81	122.22
1	M	563	LYS	N-CA-C	8.89	120.97	111.28
1	C	233	ALA	CA-C-N	8.89	132.41	120.50
1	C	233	ALA	C-N-CA	8.89	132.41	120.50
1	J	529	GLN	OE1-CD-NE2	-8.89	113.71	122.60
1	N	220	ASP	CA-CB-CG	-8.89	103.71	112.60
1	W	316	TYR	N-CA-C	8.89	119.82	109.60
1	1	630	LEU	O-C-N	-8.88	112.71	122.12
1	E	662	GLN	N-CA-C	8.88	120.96	111.28
1	K	103	LEU	CB-CA-C	-8.88	96.94	110.88
1	M	278	MET	N-CA-C	8.88	121.04	111.36
1	n	582	ASP	CA-C-N	8.88	132.17	120.28
1	n	582	ASP	C-N-CA	8.88	132.17	120.28
1	z	294	THR	CA-C-N	8.88	131.62	123.10
1	z	294	THR	C-N-CA	8.88	131.62	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	539	PHE	CA-CB-CG	8.88	122.67	113.80
1	J	269	ASP	CA-C-N	8.88	131.74	120.56
1	J	269	ASP	C-N-CA	8.88	131.74	120.56
1	l	478	GLU	N-CA-C	8.87	121.03	111.36
1	U	170	ARG	CA-C-O	8.87	130.28	120.70
1	3	481	GLU	CA-C-N	8.87	132.69	120.63
1	3	481	GLU	C-N-CA	8.87	132.69	120.63
1	X	527	ILE	CA-C-N	8.87	131.97	120.44
1	X	527	ILE	C-N-CA	8.87	131.97	120.44
1	5	108	ARG	NE-CZ-NH1	8.87	130.37	121.50
1	x	335	ASN	CA-CB-CG	-8.87	103.73	112.60
1	4	186	VAL	O-C-N	-8.86	112.70	121.83
1	w	328	ARG	NE-CZ-NH2	-8.86	111.22	119.20
1	b	657	ASN	CA-C-N	8.86	129.77	119.94
1	b	657	ASN	C-N-CA	8.86	129.77	119.94
1	T	127	GLN	OE1-CD-NE2	-8.86	113.74	122.60
1	e	656	GLU	CA-C-N	8.86	131.95	120.44
1	e	656	GLU	C-N-CA	8.86	131.95	120.44
1	i	356	PHE	CA-CB-CG	-8.86	104.94	113.80
1	D	455	ARG	NE-CZ-NH1	8.86	130.35	121.50
1	X	581	GLN	OE1-CD-NE2	-8.86	113.75	122.60
1	h	357	ARG	NE-CZ-NH2	-8.85	111.23	119.20
1	w	645	ILE	CA-C-O	-8.85	111.98	118.71
1	6	458	PHE	CA-CB-CG	-8.85	104.95	113.80
1	q	98	ARG	NE-CZ-NH2	-8.85	111.24	119.20
1	v	423	ILE	O-C-N	-8.85	113.29	121.87
1	A	622	SER	N-CA-CB	8.85	125.54	110.50
1	V	369	ARG	NE-CZ-NH2	-8.85	111.24	119.20
1	P	705	ALA	CA-C-O	8.84	129.92	120.55
1	f	190	ILE	N-CA-C	8.84	118.90	110.42
1	l	690	ARG	NH1-CZ-NH2	-8.84	107.81	119.30
1	r	571	GLN	N-CA-C	8.84	120.91	111.28
1	A	499	LYS	CA-C-N	8.84	131.93	120.44
1	A	499	LYS	C-N-CA	8.84	131.93	120.44
1	E	402	GLU	N-CA-C	8.84	120.91	111.28
1	B	548	THR	CA-C-N	8.84	131.87	120.56
1	B	548	THR	C-N-CA	8.84	131.87	120.56
1	v	309	ASN	O-C-N	-8.83	112.76	122.12
1	z	208	LEU	CA-C-O	8.83	131.12	121.05
1	X	657	ASN	CA-C-N	8.83	129.79	119.98
1	X	657	ASN	C-N-CA	8.83	129.79	119.98
1	S	336	ARG	NE-CZ-NH2	8.83	127.15	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	414	GLN	CA-C-N	8.83	132.47	120.38
1	4	414	GLN	C-N-CA	8.83	132.47	120.38
1	d	655	ARG	N-CA-C	8.83	120.51	111.07
1	s	317	PRO	N-CA-CB	8.83	109.17	102.73
1	F	109	ALA	O-C-N	-8.83	112.98	122.07
1	7	155	LEU	N-CA-CB	-8.82	96.88	110.65
1	u	280	HIS	CE1-NE2-CD2	-8.82	100.18	109.00
1	y	98	ARG	NE-CZ-NH2	-8.82	111.26	119.20
1	v	269	ASP	CA-CB-CG	8.82	121.42	112.60
1	2	337	LEU	CA-C-N	8.82	138.38	121.54
1	2	337	LEU	C-N-CA	8.82	138.38	121.54
1	g	453	LYS	N-CA-C	8.82	120.50	111.07
1	j	249	ILE	N-CA-C	8.82	118.88	110.42
1	P	231	ARG	NE-CZ-NH1	8.82	130.32	121.50
1	l	431	GLN	N-CA-C	8.81	120.89	111.28
1	L	657	ASN	CA-CB-CG	8.81	121.41	112.60
1	R	452	ASN	O-C-N	-8.81	112.99	122.07
1	U	239	ARG	CA-C-N	8.81	137.56	121.70
1	U	239	ARG	C-N-CA	8.81	137.56	121.70
1	c	174	ARG	NH1-CZ-NH2	-8.81	107.85	119.30
1	i	543	PHE	N-CA-C	8.81	120.50	111.07
1	j	681	GLU	CA-C-N	8.81	132.45	120.38
1	j	681	GLU	C-N-CA	8.81	132.45	120.38
1	F	438	GLU	O-C-N	-8.81	110.88	122.59
1	I	595	GLU	N-CA-C	8.81	120.50	111.07
1	P	557	LYS	N-CA-C	8.81	121.68	111.11
1	p	419	MET	O-C-N	-8.80	112.93	122.09
1	M	525	GLU	CA-C-N	8.80	132.94	120.53
1	M	525	GLU	C-N-CA	8.80	132.94	120.53
1	6	593	ARG	NH1-CZ-NH2	-8.80	107.86	119.30
1	d	166	ALA	N-CA-C	8.80	122.32	110.35
1	G	185	GLN	CA-C-N	8.80	131.65	120.56
1	G	185	GLN	C-N-CA	8.80	131.65	120.56
1	I	547	GLN	OE1-CD-NE2	8.80	131.40	122.60
1	o	474	ASN	CA-CB-CG	-8.80	103.80	112.60
1	v	117	ALA	N-CA-C	8.80	120.95	111.36
1	K	560	HIS	N-CA-C	8.80	121.83	111.71
1	8	338	SER	O-C-N	-8.79	112.46	122.75
1	Y	643	ASN	N-CA-C	-8.79	101.23	112.93
1	m	367	VAL	CA-C-O	-8.79	112.78	119.20
1	F	655	ARG	NE-CZ-NH1	8.79	130.29	121.50
1	N	248	LEU	N-CA-C	8.79	120.48	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	v	241	ILE	N-CA-C	8.79	120.64	110.62
1	3	689	ARG	CA-C-N	8.79	131.86	120.44
1	3	689	ARG	C-N-CA	8.79	131.86	120.44
1	g	110	LEU	O-C-N	-8.79	112.81	122.12
1	w	195	ASN	O-C-N	-8.79	112.80	122.12
1	r	349	PHE	CA-CB-CG	8.79	122.59	113.80
1	b	129	SER	N-CA-C	8.79	120.94	111.36
1	e	153	CYS	CA-C-O	-8.79	111.23	120.28
1	h	218	VAL	N-CA-C	8.78	118.62	108.96
1	Q	507	GLN	N-CA-C	8.79	120.86	111.28
1	M	361	GLU	N-CA-C	8.78	121.65	111.11
1	s	508	TYR	N-CA-C	8.78	120.47	111.07
1	v	397	HIS	CA-CB-CG	8.78	122.58	113.80
1	w	689	ARG	NE-CZ-NH2	-8.78	111.30	119.20
1	k	185	GLN	CA-C-N	8.78	131.92	120.60
1	k	185	GLN	C-N-CA	8.78	131.92	120.60
1	e	96	LYS	CA-C-O	8.78	128.70	119.05
1	e	344	LYS	N-CA-C	8.78	120.46	111.07
1	m	268	VAL	CA-C-N	8.78	133.17	120.71
1	m	268	VAL	C-N-CA	8.78	133.17	120.71
1	o	519	MET	CA-C-O	8.78	130.06	119.97
1	2	693	LYS	N-CA-C	8.77	121.72	111.02
1	z	632	ALA	O-C-N	-8.77	112.82	122.12
1	U	286	GLY	CA-C-N	8.77	132.91	120.28
1	U	286	GLY	C-N-CA	8.77	132.91	120.28
1	x	506	HIS	CE1-NE2-CD2	-8.77	100.23	109.00
1	5	519	MET	N-CA-C	8.77	121.94	111.33
1	n	392	GLN	OE1-CD-NE2	-8.77	113.83	122.60
1	p	105	ASP	CA-C-N	8.77	131.84	120.44
1	p	105	ASP	C-N-CA	8.77	131.84	120.44
1	N	394	ARG	NE-CZ-NH2	-8.77	111.31	119.20
1	j	259	ILE	N-CA-C	8.76	120.25	109.30
1	L	153	CYS	N-CA-C	-8.76	100.33	108.22
1	1	483	TYR	CB-CG-CD2	-8.76	107.66	120.80
1	p	554	GLU	N-CA-C	8.76	121.62	111.11
1	M	140	GLY	CA-C-O	8.76	127.28	119.83
1	2	652	PHE	CA-CB-CG	-8.76	105.04	113.80
1	b	302	GLY	CA-C-O	8.76	129.93	120.30
1	R	649	ILE	O-C-N	-8.76	112.81	121.83
1	8	94	GLU	N-CA-C	8.75	120.44	111.07
1	z	191	HIS	CE1-NE2-CD2	-8.75	100.25	109.00
1	c	112	VAL	N-CA-CB	8.75	120.53	110.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	p	241	ILE	N-CA-C	8.75	119.55	110.36
1	E	639	LYS	N-CA-C	8.75	120.81	111.28
1	m	483	TYR	N-CA-C	8.75	120.81	111.28
1	U	592	VAL	O-C-N	-8.74	113.39	121.87
1	s	174	ARG	NE-CZ-NH1	8.74	130.24	121.50
1	S	503	ILE	N-CA-C	8.74	119.54	110.62
1	5	521	GLN	CA-C-O	8.74	130.00	120.82
1	2	275	ALA	N-CA-C	8.74	121.90	111.33
1	6	308	MET	CA-C-N	8.74	131.80	120.44
1	6	308	MET	C-N-CA	8.74	131.80	120.44
1	h	161	LYS	O-C-N	-8.74	112.82	123.04
1	w	533	ASN	N-CA-C	8.74	121.59	111.11
1	j	237	GLN	N-CA-C	8.73	124.63	112.75
1	l	509	ILE	N-CA-C	8.73	119.53	110.62
1	W	595	GLU	N-CA-C	8.73	120.80	111.28
1	6	540	GLY	CA-C-N	8.73	131.98	120.28
1	6	540	GLY	C-N-CA	8.73	131.98	120.28
1	n	97	VAL	N-CA-CB	8.73	121.74	110.57
1	I	492	LEU	N-CA-C	8.73	123.43	111.39
1	n	425	LYS	N-CA-C	8.72	120.41	111.07
1	L	568	ILE	O-C-N	-8.72	113.22	121.94
1	N	353	HIS	CE1-NE2-CD2	-8.72	100.28	109.00
1	2	406	ARG	NE-CZ-NH2	8.72	127.05	119.20
1	7	369	ARG	NE-CZ-NH2	-8.72	111.35	119.20
1	t	190	ILE	N-CA-C	-8.72	102.34	111.58
1	M	360	LEU	N-CA-C	8.72	120.40	111.07
1	b	111	GLY	O-C-N	-8.72	115.91	122.71
1	8	117	ALA	CA-C-N	8.71	133.40	121.20
1	8	117	ALA	C-N-CA	8.71	133.40	121.20
1	F	690	ARG	CA-C-N	8.72	131.59	120.70
1	F	690	ARG	C-N-CA	8.72	131.59	120.70
1	T	381	HIS	CE1-NE2-CD2	-8.71	100.29	109.00
1	W	514	GLU	CA-C-O	-8.71	110.61	118.63
1	2	126	ASP	CA-C-N	8.71	132.90	120.79
1	2	126	ASP	C-N-CA	8.71	132.90	120.79
1	k	457	ASP	N-CA-C	8.71	121.73	111.71
1	E	175	ASN	CA-CB-CG	-8.71	103.89	112.60
1	g	154	PRO	CA-C-O	-8.71	111.52	121.36
1	o	304	GLU	CA-C-N	8.71	131.95	120.28
1	o	304	GLU	C-N-CA	8.71	131.95	120.28
1	J	442	VAL	CA-C-N	8.71	132.82	120.98
1	J	442	VAL	C-N-CA	8.71	132.82	120.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	215	SER	CA-C-O	-8.70	112.33	120.34
1	U	349	PHE	CA-CB-CG	-8.70	105.10	113.80
1	v	661	LEU	N-CA-C	8.70	120.38	111.07
1	y	698	ARG	NH1-CZ-NH2	-8.70	107.99	119.30
1	z	684	GLU	CA-C-N	8.70	131.94	120.28
1	z	684	GLU	C-N-CA	8.70	131.94	120.28
1	K	433	ILE	CA-C-O	-8.70	110.85	120.25
1	a	308	MET	N-CA-C	8.70	120.76	111.28
1	r	410	ASP	CA-CB-CG	8.70	121.30	112.60
1	c	297	ASP	CA-C-N	8.70	132.80	120.28
1	c	297	ASP	C-N-CA	8.70	132.80	120.28
1	r	442	VAL	CA-C-O	8.70	130.28	121.58
1	v	652	PHE	N-CA-C	8.69	120.84	111.36
1	Z	526	ILE	N-CA-C	8.70	118.77	110.42
1	g	315	THR	CA-C-N	8.69	132.47	120.39
1	g	315	THR	C-N-CA	8.69	132.47	120.39
1	v	239	ARG	NE-CZ-NH1	8.69	130.19	121.50
1	c	597	PHE	O-C-N	-8.69	112.24	122.15
1	q	305	LYS	O-C-N	-8.69	111.58	122.27
1	w	231	ARG	NE-CZ-NH2	8.69	127.02	119.20
1	U	236	ASN	OD1-CG-ND2	-8.69	113.91	122.60
1	t	585	TYR	N-CA-C	8.69	121.84	111.33
1	B	523	ALA	O-C-N	-8.69	112.91	122.12
1	Z	455	ARG	N-CA-C	8.69	121.90	111.82
1	g	635	LEU	N-CA-C	8.68	120.36	111.07
1	o	288	ARG	NH1-CZ-NH2	-8.68	108.01	119.30
1	G	622	SER	CA-C-N	8.68	132.26	120.54
1	G	622	SER	C-N-CA	8.68	132.26	120.54
1	l	328	ARG	NE-CZ-NH1	8.68	130.18	121.50
1	t	154	PRO	N-CA-CB	-8.68	95.80	103.35
1	P	521	GLN	CA-C-N	8.68	131.72	120.44
1	P	521	GLN	C-N-CA	8.68	131.72	120.44
1	R	497	ASN	CA-C-N	8.68	132.27	120.38
1	R	497	ASN	C-N-CA	8.68	132.27	120.38
1	Z	639	LYS	N-CA-C	8.68	120.36	111.07
1	q	698	ARG	N-CA-C	8.68	120.74	111.28
1	r	665	MET	N-CA-C	8.68	121.83	111.33
1	G	486	GLN	CA-C-O	8.67	125.84	119.68
1	7	543	PHE	CA-CB-CG	8.67	122.47	113.80
1	8	516	ALA	N-CA-C	8.67	121.82	111.33
1	F	625	GLU	N-CA-C	8.67	120.73	111.28
1	L	370	LEU	N-CA-C	8.67	120.73	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	250	LYS	N-CA-C	8.67	121.82	111.33
1	Y	648	ILE	CA-C-N	8.67	131.49	120.56
1	Y	648	ILE	C-N-CA	8.67	131.49	120.56
1	N	382	ILE	N-CA-C	8.67	120.50	110.62
1	C	299	MET	N-CA-C	8.67	122.72	110.50
1	4	295	LYS	CA-C-N	8.66	128.88	119.87
1	4	295	LYS	C-N-CA	8.66	128.88	119.87
1	8	312	ARG	NE-CZ-NH2	-8.66	111.40	119.20
1	9	552	THR	CB-CA-C	-8.66	96.12	110.85
1	k	315	THR	O-C-N	-8.66	112.08	122.22
1	E	464	ILE	N-CA-C	8.66	119.45	110.62
1	k	131	LYS	N-CA-C	8.66	123.26	112.87
1	F	209	ILE	O-C-N	-8.66	114.31	123.14
1	Z	563	LYS	N-CA-C	8.66	120.33	111.07
1	a	494	GLY	CA-C-N	8.65	137.28	121.70
1	a	494	GLY	C-N-CA	8.65	137.28	121.70
1	8	330	GLN	N-CA-C	8.65	120.71	111.28
1	8	468	ASN	CA-C-N	8.65	131.87	120.28
1	8	468	ASN	C-N-CA	8.65	131.87	120.28
1	5	487	TYR	N-CA-C	8.65	120.71	111.28
1	C	484	GLU	CA-C-N	8.65	133.45	120.31
1	C	484	GLU	C-N-CA	8.65	133.45	120.31
1	P	444	ARG	NE-CZ-NH1	8.65	130.15	121.50
1	h	303	THR	CA-C-N	8.64	132.19	120.44
1	h	303	THR	C-N-CA	8.64	132.19	120.44
1	A	269	ASP	CA-C-N	8.64	132.30	120.46
1	A	269	ASP	C-N-CA	8.64	132.30	120.46
1	2	163	PRO	N-CA-CB	-8.64	94.18	103.25
1	5	397	HIS	CA-CB-CG	8.63	122.43	113.80
1	i	626	ILE	CA-C-N	8.63	129.75	119.99
1	i	626	ILE	C-N-CA	8.63	129.75	119.99
1	w	112	VAL	N-CA-C	8.63	122.76	109.12
1	z	204	ILE	CB-CA-C	8.63	121.86	110.12
1	R	583	GLN	N-CA-C	8.64	120.31	111.07
1	A	573	ARG	N-CA-C	8.63	120.31	111.07
1	P	504	ILE	N-CA-C	8.63	119.43	110.62
1	4	162	GLN	CA-C-O	-8.63	112.56	120.50
1	G	152	ARG	NE-CZ-NH2	-8.63	111.43	119.20
1	4	531	PHE	N-CA-C	8.63	121.77	111.33
1	l	241	ILE	N-CA-C	8.63	118.70	110.42
1	L	273	THR	CA-C-N	8.63	131.84	120.28
1	L	273	THR	C-N-CA	8.63	131.84	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	246	LYS	N-CA-C	8.63	120.69	111.28
1	j	506	HIS	CA-CB-CG	8.63	122.43	113.80
1	Z	433	ILE	O-C-N	-8.63	113.46	121.91
1	1	162	GLN	N-CA-C	8.63	122.01	108.55
1	g	162	GLN	N-CA-C	-8.62	100.46	108.22
1	3	197	MET	N-CA-C	8.62	120.30	111.07
1	b	255	ARG	CA-C-N	8.62	131.84	120.28
1	b	255	ARG	C-N-CA	8.62	131.84	120.28
1	u	543	PHE	CA-C-N	8.62	132.19	120.38
1	u	543	PHE	C-N-CA	8.62	132.19	120.38
1	a	301	ARG	NE-CZ-NH2	-8.62	111.44	119.20
1	C	645	ILE	N-CA-CB	8.62	115.93	110.50
1	2	415	GLU	N-CA-C	8.61	120.67	111.28
1	b	195	ASN	CA-CB-CG	-8.61	103.99	112.60
1	O	707	CYS	N-CA-C	8.61	120.67	111.28
1	W	256	GLN	N-CA-C	8.61	120.29	111.07
1	J	488	ARG	NE-CZ-NH1	-8.61	112.89	121.50
1	l	444	ARG	NE-CZ-NH1	8.61	130.11	121.50
1	y	657	ASN	N-CA-C	8.61	120.66	111.28
1	L	434	GLU	CA-C-N	8.61	132.51	120.29
1	L	434	GLU	C-N-CA	8.61	132.51	120.29
1	R	420	PHE	CA-CB-CG	-8.61	105.19	113.80
1	f	130	GLY	CA-C-N	8.60	131.81	120.28
1	f	130	GLY	C-N-CA	8.60	131.81	120.28
1	H	523	ALA	CA-C-O	8.60	129.67	120.55
1	C	160	LYS	CB-CA-C	-8.60	99.93	110.94
1	E	663	LYS	O-C-N	-8.60	110.81	122.33
1	3	705	ALA	CA-C-N	8.60	132.66	120.28
1	3	705	ALA	C-N-CA	8.60	132.66	120.28
1	d	250	LYS	N-CA-C	8.60	121.79	111.82
1	l	131	LYS	O-C-N	-8.60	113.01	122.12
1	S	202	ARG	NE-CZ-NH1	8.59	130.09	121.50
1	A	559	LYS	N-CA-C	8.59	120.64	111.28
1	d	145	ARG	NH1-CZ-NH2	-8.59	108.13	119.30
1	g	494	GLY	O-C-N	-8.59	116.01	122.71
1	f	98	ARG	NH1-CZ-NH2	-8.59	108.13	119.30
1	q	511	GLN	OE1-CD-NE2	-8.59	114.01	122.60
1	F	640	ARG	NE-CZ-NH2	-8.59	111.47	119.20
1	O	494	GLY	O-C-N	-8.59	116.01	122.71
1	y	142	ALA	CA-C-N	8.59	132.96	120.51
1	y	142	ALA	C-N-CA	8.59	132.96	120.51
1	Z	397	HIS	CB-CG-CD2	-8.59	120.03	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	165	GLU	CA-C-N	8.59	133.33	121.05
1	2	165	GLU	C-N-CA	8.59	133.33	121.05
1	y	704	HIS	CE1-NE2-CD2	-8.59	100.41	109.00
1	Q	645	ILE	N-CA-CB	-8.59	105.09	110.50
1	c	307	VAL	N-CA-C	8.58	119.37	110.36
1	h	299	MET	N-CA-C	8.58	122.02	110.35
1	j	298	LEU	N-CA-C	8.58	120.64	111.28
1	I	533	ASN	OD1-CG-ND2	-8.58	114.02	122.60
1	v	554	GLU	O-C-N	-8.58	113.23	122.07
1	J	565	GLU	CA-C-N	8.58	131.78	120.28
1	J	565	GLU	C-N-CA	8.58	131.78	120.28
1	0	381	HIS	CA-CB-CG	-8.58	105.22	113.80
1	t	382	ILE	N-CA-C	8.58	119.36	110.36
1	G	307	VAL	N-CA-C	8.58	119.36	110.36
1	x	215	SER	N-CA-C	-8.57	100.44	108.07
1	4	116	LEU	N-CA-C	8.57	122.33	110.24
1	i	237	GLN	N-CA-C	8.57	121.91	110.08
1	D	685	THR	CA-C-N	8.57	131.58	120.44
1	D	685	THR	C-N-CA	8.57	131.58	120.44
1	J	564	ALA	O-C-N	-8.57	113.18	122.09
1	U	699	LEU	CA-C-N	8.57	131.58	120.44
1	U	699	LEU	C-N-CA	8.57	131.58	120.44
1	j	409	ALA	CA-C-N	8.57	137.12	121.70
1	j	409	ALA	C-N-CA	8.57	137.12	121.70
1	l	110	LEU	CA-C-N	8.57	130.21	120.53
1	l	110	LEU	C-N-CA	8.57	130.21	120.53
1	F	331	GLN	OE1-CD-NE2	-8.57	114.03	122.60
1	8	203	GLY	CA-C-O	-8.56	112.94	121.76
1	b	685	THR	N-CA-CB	8.56	122.71	110.12
1	x	693	LYS	O-C-N	-8.56	113.25	122.07
1	3	234	VAL	CA-C-N	8.56	132.11	120.38
1	3	234	VAL	C-N-CA	8.56	132.11	120.38
1	d	513	VAL	N-CA-C	8.56	118.64	110.42
1	B	638	SER	N-CA-C	8.56	120.61	111.28
1	K	388	LEU	CA-C-N	8.56	132.11	120.38
1	K	388	LEU	C-N-CA	8.56	132.11	120.38
1	1	643	ASN	CA-CB-CG	-8.56	104.04	112.60
1	7	202	ARG	NE-CZ-NH2	8.56	126.90	119.20
1	s	169	GLY	O-C-N	-8.56	113.36	123.55
1	C	110	LEU	CA-C-N	8.56	130.20	120.53
1	C	110	LEU	C-N-CA	8.56	130.20	120.53
1	C	707	CYS	N-CA-C	8.56	121.55	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	97	VAL	CA-C-N	8.56	131.73	120.26
1	X	97	VAL	C-N-CA	8.56	131.73	120.26
1	H	274	GLU	CA-C-N	8.56	131.56	120.44
1	H	274	GLU	C-N-CA	8.56	131.56	120.44
1	X	574	MET	CA-C-N	8.55	132.87	120.38
1	X	574	MET	C-N-CA	8.55	132.87	120.38
1	o	567	MET	O-C-N	-8.55	113.05	122.12
1	3	386	LEU	O-C-N	-8.55	113.62	120.38
1	9	597	PHE	N-CA-C	8.55	120.38	111.14
1	d	100	CYS	N-CA-C	8.55	120.60	111.28
1	E	189	GLU	N-CA-C	8.55	120.60	111.28
1	F	387	PRO	CA-C-N	8.55	131.56	120.44
1	F	387	PRO	C-N-CA	8.55	131.56	120.44
1	N	200	ASN	CA-CB-CG	-8.55	104.05	112.60
1	y	666	MET	CA-C-N	8.55	131.74	120.28
1	y	666	MET	C-N-CA	8.55	131.74	120.28
1	k	482	LYS	CA-C-O	8.55	129.48	120.42
1	Q	349	PHE	CA-CB-CG	-8.55	105.25	113.80
1	h	622	SER	CA-C-N	8.54	131.73	120.28
1	h	622	SER	C-N-CA	8.54	131.73	120.28
1	r	260	ASN	CA-CB-CG	-8.54	104.06	112.60
1	D	310	VAL	N-CA-CB	8.54	122.16	110.54
1	K	649	ILE	N-CA-C	8.54	118.62	110.42
1	d	544	ASN	CA-CB-CG	-8.54	104.06	112.60
1	g	646	PRO	CA-C-N	8.54	131.54	120.44
1	g	646	PRO	C-N-CA	8.54	131.54	120.44
1	N	572	PHE	CA-CB-CG	-8.54	105.27	113.80
1	w	554	GLU	N-CA-C	8.53	120.58	111.28
1	x	529	GLN	OE1-CD-NE2	-8.53	114.07	122.60
1	m	488	ARG	NE-CZ-NH2	-8.53	111.52	119.20
1	q	464	ILE	N-CA-C	-8.53	103.52	111.45
1	h	162	GLN	CA-C-N	8.53	128.17	119.56
1	h	162	GLN	C-N-CA	8.53	128.17	119.56
1	L	406	ARG	N-CA-C	8.53	120.66	111.36
1	u	548	THR	CA-C-N	8.53	131.30	120.56
1	u	548	THR	C-N-CA	8.53	131.30	120.56
1	H	690	ARG	NE-CZ-NH2	-8.53	111.53	119.20
1	v	225	ASP	CA-CB-CG	-8.53	104.08	112.60
1	j	573	ARG	NE-CZ-NH2	-8.52	111.53	119.20
1	F	452	ASN	CA-CB-CG	8.52	121.12	112.60
1	u	133	SER	CA-C-N	8.52	131.30	120.56
1	u	133	SER	C-N-CA	8.52	131.30	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	501	PHE	CA-C-N	8.52	131.52	120.44
1	T	501	PHE	C-N-CA	8.52	131.52	120.44
1	z	187	GLU	N-CA-C	8.52	120.56	111.28
1	Y	311	VAL	N-CA-C	8.52	119.30	110.36
1	3	464	ILE	CA-C-N	8.52	131.69	120.28
1	3	464	ILE	C-N-CA	8.52	131.69	120.28
1	B	589	LEU	CA-C-N	8.52	131.69	120.28
1	B	589	LEU	C-N-CA	8.52	131.69	120.28
1	G	468	ASN	N-CA-C	8.52	120.56	111.28
1	V	496	VAL	CA-C-O	8.52	131.25	121.28
1	U	354	PRO	CB-CA-C	8.52	126.60	113.06
1	u	683	SER	N-CA-C	8.51	120.56	111.28
1	K	432	ASP	CA-CB-CG	-8.51	104.09	112.60
1	R	698	ARG	CA-C-N	8.51	131.69	120.28
1	R	698	ARG	C-N-CA	8.51	131.69	120.28
1	u	444	ARG	NE-CZ-NH1	8.51	130.01	121.50
1	q	251	LYS	N-CA-C	8.51	121.62	111.33
1	C	634	PHE	CA-C-N	8.51	131.68	120.28
1	C	634	PHE	C-N-CA	8.51	131.68	120.28
1	G	308	MET	CA-C-O	8.51	129.76	119.97
1	I	95	GLN	OE1-CD-NE2	-8.51	114.09	122.60
1	R	286	GLY	O-C-N	-8.51	114.83	122.57
1	T	444	ARG	NE-CZ-NH2	8.51	126.86	119.20
1	7	541	GLU	N-CA-C	8.51	121.49	111.71
1	v	568	ILE	O-C-N	-8.51	113.62	121.87
1	y	145	ARG	NE-CZ-NH1	8.51	130.01	121.50
1	Z	632	ALA	N-CA-C	8.51	120.55	111.28
1	o	181	GLN	OE1-CD-NE2	-8.50	114.10	122.60
1	r	507	GLN	CA-C-N	8.50	131.49	120.44
1	r	507	GLN	C-N-CA	8.50	131.49	120.44
1	s	573	ARG	N-CA-C	8.50	120.55	111.28
1	0	405	ARG	NE-CZ-NH1	8.50	130.00	121.50
1	v	434	GLU	N-CA-C	8.50	120.55	111.28
1	I	516	ALA	O-C-N	-8.50	112.46	122.15
1	S	264	VAL	O-C-N	-8.50	113.76	121.41
1	V	216	PRO	CA-C-N	8.50	132.00	120.44
1	V	216	PRO	C-N-CA	8.50	132.00	120.44
1	t	357	ARG	NE-CZ-NH2	-8.49	111.55	119.20
1	K	652	PHE	N-CA-C	8.49	120.54	111.28
1	N	389	LEU	CA-C-N	8.49	131.48	120.44
1	N	389	LEU	C-N-CA	8.49	131.48	120.44
1	n	213	ILE	N-CA-CB	8.49	123.12	111.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5	580	CYS	N-CA-C	-8.49	96.21	108.60
1	n	203	GLY	N-CA-C	8.49	123.40	112.54
1	B	640	ARG	NE-CZ-NH2	-8.49	111.56	119.20
1	n	496	VAL	O-C-N	-8.49	115.18	122.65
1	5	295	LYS	CA-C-N	8.48	128.18	119.19
1	5	295	LYS	C-N-CA	8.48	128.18	119.19
1	J	647	PHE	N-CA-CB	8.48	122.58	109.94
1	R	523	ALA	N-CA-C	8.48	121.29	111.11
1	i	213	ILE	O-C-N	-8.48	114.10	123.26
1	x	533	ASN	CA-CB-CG	8.48	121.08	112.60
1	R	263	VAL	CA-C-O	8.48	129.83	120.59
1	1	561	THR	N-CA-C	-8.48	102.12	111.36
1	r	557	LYS	N-CA-C	8.48	120.52	111.28
1	G	631	ASN	CA-CB-CG	8.47	121.08	112.60
1	J	228	GLY	N-CA-C	8.47	121.28	111.36
1	W	510	GLN	OE1-CD-NE2	-8.47	114.13	122.60
1	n	245	ILE	N-CA-C	8.47	119.25	110.36
1	T	645	ILE	N-CA-CB	8.47	115.84	110.50
1	s	287	ASP	CA-CB-CG	8.47	121.07	112.60
1	y	98	ARG	NE-CZ-NH1	8.47	129.97	121.50
1	4	342	ALA	N-CA-C	8.47	120.13	111.07
1	0	297	ASP	CA-C-N	8.46	131.62	120.28
1	0	297	ASP	C-N-CA	8.46	131.62	120.28
1	o	288	ARG	NE-CZ-NH1	8.46	129.97	121.50
1	Z	267	ASN	CA-CB-CG	8.46	121.06	112.60
1	1	477	HIS	CE1-NE2-CD2	-8.46	100.54	109.00
1	s	474	ASN	N-CA-C	8.46	121.27	111.11
1	V	655	ARG	N-CA-C	8.46	120.50	111.28
1	R	707	CYS	N-CA-CB	8.46	122.55	109.94
1	m	597	PHE	N-CA-C	8.46	120.58	111.36
1	X	626	ILE	CA-C-N	8.46	130.96	120.22
1	X	626	ILE	C-N-CA	8.46	130.96	120.22
1	e	701	GLN	CA-C-N	8.46	131.61	120.28
1	e	701	GLN	C-N-CA	8.46	131.61	120.28
1	S	296	PRO	CA-C-N	8.46	132.46	120.28
1	S	296	PRO	C-N-CA	8.46	132.46	120.28
1	d	429	PHE	O-C-N	-8.45	113.36	122.07
1	p	420	PHE	CA-CB-CG	-8.45	105.35	113.80
1	d	572	PHE	N-CA-C	8.45	120.57	111.36
1	f	237	GLN	N-CA-C	8.45	124.23	113.25
1	M	334	THR	CA-CB-OG1	8.45	122.28	109.60
1	Z	623	PHE	CA-CB-CG	8.45	122.25	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	416	ALA	N-CA-C	8.45	120.11	111.07
1	k	419	MET	N-CA-C	8.45	120.11	111.07
1	u	410	ASP	N-CA-C	8.45	120.11	111.07
1	9	403	GLU	CA-C-N	8.44	131.42	120.44
1	9	403	GLU	C-N-CA	8.44	131.42	120.44
1	x	123	VAL	N-CA-CB	8.44	119.92	110.72
1	G	673	ASN	CA-C-O	8.45	129.50	120.55
1	3	700	THR	CA-C-N	8.44	131.59	120.28
1	3	700	THR	C-N-CA	8.44	131.59	120.28
1	4	428	MET	N-CA-C	8.44	120.10	111.07
1	5	230	THR	N-CA-C	8.44	120.48	111.28
1	9	195	ASN	OD1-CG-ND2	-8.44	114.16	122.60
1	D	677	TRP	N-CA-C	8.44	120.48	111.28
1	N	162	GLN	CA-C-O	-8.44	112.29	120.64
1	X	490	LYS	N-CA-C	8.44	121.54	111.33
1	Y	543	PHE	CA-C-O	8.44	129.68	120.82
1	c	206	HIS	CA-CB-CG	8.44	122.24	113.80
1	o	449	ARG	CA-C-N	8.44	131.41	120.44
1	o	449	ARG	C-N-CA	8.44	131.41	120.44
1	t	392	GLN	N-CA-C	8.44	120.10	111.07
1	v	682	GLN	O-C-N	-8.44	112.35	122.22
1	U	270	ILE	CA-C-N	8.44	131.94	120.38
1	U	270	ILE	C-N-CA	8.44	131.94	120.38
1	s	556	ILE	CA-C-N	8.43	131.93	120.54
1	s	556	ILE	C-N-CA	8.43	131.93	120.54
1	I	239	ARG	CA-C-N	8.43	136.88	121.70
1	I	239	ARG	C-N-CA	8.43	136.88	121.70
1	f	359	LEU	N-CA-C	8.43	120.55	111.36
1	y	204	ILE	O-C-N	-8.43	113.69	123.05
1	I	493	LEU	CA-C-N	8.43	128.11	120.10
1	I	493	LEU	C-N-CA	8.43	128.11	120.10
1	4	288	ARG	NE-CZ-NH1	8.43	129.93	121.50
1	e	215	SER	O-C-N	-8.43	114.04	121.71
1	B	420	PHE	O-C-N	-8.43	113.33	122.09
1	E	544	ASN	O-C-N	-8.43	113.19	122.12
1	X	570	LEU	CA-C-N	8.43	131.57	120.28
1	X	570	LEU	C-N-CA	8.43	131.57	120.28
1	a	328	ARG	NE-CZ-NH2	-8.43	111.62	119.20
1	q	547	GLN	N-CA-C	8.43	120.46	111.28
1	J	530	ALA	N-CA-C	8.42	120.46	111.28
1	8	523	ALA	CA-C-O	8.42	129.48	120.55
1	m	689	ARG	NE-CZ-NH2	-8.42	111.62	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	o	390	GLU	CA-C-N	8.42	129.33	119.98
1	o	390	GLU	C-N-CA	8.42	129.33	119.98
1	4	652	PHE	CA-CB-CG	-8.42	105.38	113.80
1	j	202	ARG	NE-CZ-NH1	8.42	129.92	121.50
1	z	572	PHE	N-CA-C	8.42	120.45	111.28
1	7	279	ALA	CA-C-N	8.41	131.91	120.38
1	7	279	ALA	C-N-CA	8.41	131.91	120.38
1	e	475	ILE	N-CA-C	8.41	119.20	110.62
1	f	399	LYS	CA-C-N	8.41	131.38	120.44
1	f	399	LYS	C-N-CA	8.41	131.38	120.44
1	7	573	ARG	NE-CZ-NH1	8.41	129.91	121.50
1	E	506	HIS	CA-CB-CG	8.41	122.21	113.80
1	c	334	THR	N-CA-CB	8.41	122.61	110.16
1	G	468	ASN	O-C-N	-8.41	113.20	122.12
1	M	560	HIS	CE1-NE2-CD2	-8.41	100.59	109.00
1	J	698	ARG	NE-CZ-NH2	8.41	126.77	119.20
1	r	487	TYR	O-C-N	-8.41	113.21	122.12
1	A	457	ASP	N-CA-C	8.41	120.44	111.28
1	1	457	ASP	N-CA-C	8.41	120.06	111.07
1	7	109	ALA	N-CA-C	8.41	120.52	111.36
1	c	236	ASN	CA-C-O	8.41	129.87	119.95
1	V	212	GLU	CA-C-N	8.41	134.71	123.11
1	V	212	GLU	C-N-CA	8.41	134.71	123.11
1	B	131	LYS	CA-C-N	8.40	131.37	120.44
1	B	131	LYS	C-N-CA	8.40	131.37	120.44
1	T	281	GLU	N-CA-C	8.40	120.44	111.28
1	G	703	ARG	N-CA-CB	8.40	122.19	110.01
1	N	464	ILE	N-CA-C	8.40	118.49	110.42
1	W	419	MET	N-CA-C	8.40	120.44	111.28
1	B	449	ARG	NE-CZ-NH2	8.40	126.76	119.20
1	H	510	GLN	N-CA-C	8.40	121.56	111.82
1	8	209	ILE	O-C-N	-8.40	114.36	123.18
1	G	142	ALA	N-CA-C	8.40	119.03	108.45
1	z	312	ARG	N-CA-C	8.39	121.18	111.11
1	2	700	THR	CA-CB-CG2	8.39	124.77	110.50
1	T	369	ARG	NE-CZ-NH2	-8.39	111.65	119.20
1	d	467	THR	CA-C-N	8.39	132.21	120.29
1	d	467	THR	C-N-CA	8.39	132.21	120.29
1	J	576	GLN	N-CA-C	8.39	121.55	111.82
1	e	436	LEU	CA-C-N	8.39	131.95	120.46
1	e	436	LEU	C-N-CA	8.39	131.95	120.46
1	q	637	THR	N-CA-C	8.39	120.42	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	y	380	MET	N-CA-C	8.39	120.05	111.07
1	J	477	HIS	CA-CB-CG	8.39	122.19	113.80
1	L	644	GLN	N-CA-C	8.39	120.11	110.97
1	P	347	ILE	CA-C-N	8.39	131.34	120.44
1	W	94	GLU	N-CA-C	8.39	120.04	111.07
1	4	705	ALA	CA-C-O	8.38	129.44	120.55
1	a	349	PHE	CA-CB-CG	8.38	122.19	113.80
1	P	347	ILE	C-N-CA	8.39	131.34	120.44
1	o	359	LEU	CA-C-N	8.38	131.72	120.65
1	o	359	LEU	C-N-CA	8.38	131.72	120.65
1	T	534	VAL	N-CA-C	8.38	119.17	110.62
1	L	97	VAL	CA-CB-CG2	8.38	124.65	110.40
1	n	632	ALA	CA-C-O	-8.38	111.67	120.55
1	D	410	ASP	CA-CB-CG	8.38	120.98	112.60
1	X	136	GLU	N-CA-CB	8.38	122.44	110.12
1	6	477	HIS	CA-CB-CG	-8.37	105.43	113.80
1	R	347	ILE	O-C-N	-8.37	113.75	121.87
1	Y	486	GLN	CA-C-N	8.37	132.61	120.38
1	Y	486	GLN	C-N-CA	8.37	132.61	120.38
1	i	476	ILE	N-CA-CB	8.37	120.34	110.55
1	t	349	PHE	CA-C-N	8.37	131.32	120.44
1	t	349	PHE	C-N-CA	8.37	131.32	120.44
1	y	357	ARG	NE-CZ-NH2	-8.37	111.67	119.20
1	H	379	ILE	O-C-N	-8.37	113.75	121.87
1	S	701	GLN	CA-C-N	8.37	131.32	120.44
1	S	701	GLN	C-N-CA	8.37	131.32	120.44
1	n	458	PHE	CA-C-N	8.37	132.17	120.29
1	n	458	PHE	C-N-CA	8.37	132.17	120.29
1	W	652	PHE	N-CA-C	8.37	120.03	111.07
1	t	695	ARG	NH1-CZ-NH2	-8.37	108.42	119.30
1	W	581	GLN	CA-C-N	8.37	133.03	120.31
1	W	581	GLN	C-N-CA	8.37	133.03	120.31
1	a	155	LEU	CA-C-N	8.37	133.89	122.01
1	a	155	LEU	C-N-CA	8.37	133.89	122.01
1	n	368	PRO	N-CA-CB	8.37	108.34	102.65
1	4	186	VAL	N-CA-C	8.36	119.17	110.72
1	t	131	LYS	CA-C-N	8.36	131.84	120.38
1	t	131	LYS	C-N-CA	8.36	131.84	120.38
1	w	282	VAL	CA-C-O	8.36	126.90	118.96
1	E	231	ARG	NE-CZ-NH2	-8.36	111.68	119.20
1	L	502	GLU	N-CA-C	8.36	120.39	111.28
1	U	253	ILE	O-C-N	-8.36	114.03	122.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	704	HIS	N-CA-C	8.36	121.14	111.11
1	9	270	ILE	N-CA-C	8.36	118.44	110.42
1	u	269	ASP	CA-CB-CG	8.36	120.95	112.60
1	z	462	VAL	CA-C-N	8.36	129.22	119.94
1	z	462	VAL	C-N-CA	8.36	129.22	119.94
1	N	238	PRO	CA-C-O	-8.36	111.87	121.56
1	7	647	PHE	CA-CB-CG	8.35	122.15	113.80
1	A	521	GLN	N-CA-C	8.35	120.38	111.28
1	D	593	ARG	NH1-CZ-NH2	-8.35	108.44	119.30
1	R	196	VAL	O-C-N	-8.35	113.72	121.91
1	2	260	ASN	OD1-CG-ND2	-8.35	114.25	122.60
1	a	264	VAL	CA-C-O	-8.35	115.60	119.94
1	A	249	ILE	N-CA-C	8.35	119.13	110.36
1	d	636	GLU	N-CA-C	8.35	120.38	111.28
1	j	206	HIS	CA-CB-CG	8.35	122.15	113.80
1	k	413	SER	N-CA-C	8.35	120.38	111.28
1	Y	355	TYR	CB-CG-CD1	-8.35	108.28	120.80
1	u	231	ARG	NE-CZ-NH2	-8.35	111.69	119.20
1	P	444	ARG	NE-CZ-NH2	-8.35	111.69	119.20
1	e	709	PHE	O-C-N	-8.35	113.47	122.07
1	0	444	ARG	NH1-CZ-NH2	-8.34	108.45	119.30
1	2	684	GLU	N-CA-C	8.34	120.38	111.28
1	5	280	HIS	O-C-N	-8.34	113.28	122.12
1	l	309	ASN	CA-CB-CG	8.34	120.94	112.60
1	s	315	THR	N-CA-C	8.34	120.37	111.28
1	w	464	ILE	N-CA-C	8.34	118.43	110.42
1	F	288	ARG	NE-CZ-NH1	8.34	129.84	121.50
1	S	591	LYS	O-C-N	-8.34	113.42	122.09
1	7	569	GLN	OE1-CD-NE2	-8.34	114.26	122.60
1	a	501	PHE	N-CA-C	8.34	120.37	111.28
1	f	312	ARG	NH1-CZ-NH2	-8.34	108.46	119.30
1	G	362	GLU	CA-C-N	8.34	129.17	120.00
1	G	362	GLU	C-N-CA	8.34	129.17	120.00
1	T	126	ASP	CA-C-N	8.34	131.46	120.28
1	T	126	ASP	C-N-CA	8.34	131.46	120.28
1	2	247	ALA	N-CA-C	8.34	121.11	111.11
1	a	195	ASN	N-CA-C	8.34	120.14	111.14
1	m	137	ALA	N-CA-C	8.34	121.30	111.71
1	z	255	ARG	NE-CZ-NH2	-8.34	111.70	119.20
1	z	694	GLU	CA-C-N	8.34	131.28	120.44
1	z	694	GLU	C-N-CA	8.34	131.28	120.44
1	S	675	TYR	N-CA-C	8.33	119.99	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	381	HIS	CE1-NE2-CD2	-8.33	100.67	109.00
1	f	623	PHE	CA-CB-CG	8.33	122.13	113.80
1	r	394	ARG	N-CA-C	8.33	119.98	111.07
1	A	338	SER	CA-C-N	8.33	131.79	120.54
1	A	338	SER	C-N-CA	8.33	131.79	120.54
1	4	584	ILE	CA-C-N	8.33	131.44	120.28
1	4	584	ILE	C-N-CA	8.33	131.44	120.28
1	5	131	LYS	N-CA-C	8.33	121.29	111.71
1	J	667	GLN	OE1-CD-NE2	-8.33	114.27	122.60
1	g	663	LYS	CA-C-O	8.33	129.38	120.55
1	l	197	MET	N-CA-C	8.33	120.36	111.28
1	r	111	GLY	O-C-N	-8.33	114.20	123.11
1	y	239	ARG	CA-C-N	8.33	136.69	121.70
1	y	239	ARG	C-N-CA	8.33	136.69	121.70
1	r	708	GLN	N-CA-C	8.32	119.98	111.07
1	y	573	ARG	NE-CZ-NH2	-8.32	111.71	119.20
1	C	220	ASP	CA-CB-CG	8.32	120.92	112.60
1	b	659	ASP	CA-CB-CG	8.32	120.92	112.60
1	h	632	ALA	O-C-N	-8.32	113.30	122.12
1	C	382	ILE	N-CA-C	8.32	119.10	110.36
1	a	405	ARG	CA-C-N	8.32	131.43	120.28
1	a	405	ARG	C-N-CA	8.32	131.43	120.28
1	k	231	ARG	NE-CZ-NH1	8.32	129.82	121.50
1	P	134	VAL	N-CA-C	8.32	118.41	110.42
1	F	494	GLY	O-C-N	-8.32	113.20	122.60
1	l	420	PHE	N-CA-C	8.31	119.97	111.07
1	m	595	GLU	O-C-N	-8.31	111.95	122.34
1	u	431	GLN	OE1-CD-NE2	-8.31	114.28	122.60
1	p	356	PHE	N-CA-C	8.31	121.39	111.33
1	d	394	ARG	NE-CZ-NH1	8.31	129.81	121.50
1	l	690	ARG	NE-CZ-NH1	8.31	129.81	121.50
1	p	503	ILE	O-C-N	8.31	130.39	121.83
1	z	680	GLN	N-CA-C	8.31	122.28	110.23
1	S	190	ILE	N-CA-CB	8.31	120.27	110.55
1	8	404	LEU	N-CA-C	8.31	119.96	111.07
1	a	306	SER	CA-C-N	8.31	131.03	120.56
1	a	306	SER	C-N-CA	8.31	131.03	120.56
1	O	206	HIS	CA-CB-CG	8.31	122.11	113.80
1	6	560	HIS	CA-CB-CG	-8.30	105.50	113.80
1	t	544	ASN	OD1-CG-ND2	-8.30	114.30	122.60
1	l	329	GLY	CA-C-O	-8.30	116.50	122.23
1	d	652	PHE	N-CA-C	8.30	120.10	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	p	518	SER	O-C-N	-8.30	113.52	122.07
1	w	644	GLN	CA-C-N	8.30	128.40	120.43
1	w	644	GLN	C-N-CA	8.30	128.40	120.43
1	X	98	ARG	CA-C-O	-8.30	110.59	118.73
1	Z	241	ILE	N-CA-C	8.30	118.39	110.42
1	k	206	HIS	CE1-NE2-CD2	-8.30	100.70	109.00
1	9	578	VAL	N-CA-C	8.30	120.57	109.37
1	d	554	GLU	N-CA-C	8.30	120.40	111.36
1	U	661	LEU	N-CA-C	8.29	120.32	111.28
1	X	267	ASN	OD1-CG-ND2	-8.29	114.31	122.60
1	o	329	GLY	N-CA-C	8.29	121.45	112.33
1	p	236	ASN	CA-CB-CG	-8.29	104.31	112.60
1	B	463	GLY	CA-C-N	8.29	131.01	120.56
1	B	463	GLY	C-N-CA	8.29	131.01	120.56
1	V	493	LEU	CA-C-N	8.29	127.98	120.10
1	V	493	LEU	C-N-CA	8.29	127.98	120.10
1	Y	312	ARG	NE-CZ-NH2	8.29	126.66	119.20
1	l	501	PHE	O-C-N	-8.29	113.33	122.12
1	u	450	LEU	N-CA-C	8.29	121.36	111.33
1	C	398	GLN	OE1-CD-NE2	-8.29	114.31	122.60
1	L	299	MET	N-CA-C	8.29	122.45	110.10
1	l	164	CYS	CA-C-N	8.29	133.26	120.75
1	l	164	CYS	C-N-CA	8.29	133.26	120.75
1	p	623	PHE	CA-CB-CG	-8.29	105.52	113.80
1	J	370	LEU	O-C-N	-8.29	112.58	122.11
1	q	348	THR	N-CA-C	8.28	119.93	111.07
1	q	413	SER	N-CA-C	8.29	121.43	111.82
1	x	373	ARG	NE-CZ-NH2	8.29	126.66	119.20
1	O	449	ARG	N-CA-C	8.29	121.62	110.35
1	s	241	ILE	CA-C-N	8.28	129.31	120.03
1	s	241	ILE	C-N-CA	8.28	129.31	120.03
1	s	514	GLU	CA-C-O	-8.28	110.61	118.73
1	P	213	ILE	CB-CA-C	-8.29	98.28	110.62
1	t	206	HIS	CA-C-N	8.28	132.50	120.82
1	t	206	HIS	C-N-CA	8.28	132.50	120.82
1	Y	426	ILE	CA-C-N	8.28	131.21	120.44
1	Y	426	ILE	C-N-CA	8.28	131.21	120.44
1	R	432	ASP	CA-CB-CG	8.28	120.88	112.60
1	2	331	GLN	CA-C-N	8.28	132.04	120.29
1	2	331	GLN	C-N-CA	8.28	132.04	120.29
1	L	454	ILE	CA-C-N	8.28	131.20	120.44
1	L	454	ILE	C-N-CA	8.28	131.20	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	588	VAL	N-CA-C	8.28	118.37	110.42
1	m	360	LEU	N-CA-C	8.28	119.92	111.07
1	g	381	HIS	O-C-N	-8.27	112.54	122.22
1	h	93	TYR	CA-C-N	8.27	131.36	120.28
1	h	93	TYR	C-N-CA	8.27	131.36	120.28
1	i	239	ARG	O-C-N	-8.27	113.67	123.27
1	o	538	HIS	CE1-NE2-CD2	-8.27	100.73	109.00
1	M	533	ASN	CA-CB-CG	-8.27	104.33	112.60
1	M	598	ASN	OD1-CG-ND2	-8.27	114.33	122.60
1	X	637	THR	N-CA-C	8.27	119.92	111.07
1	5	581	GLN	CA-C-N	8.27	131.36	120.28
1	5	581	GLN	C-N-CA	8.27	131.36	120.28
1	6	435	LYS	N-CA-C	8.27	120.29	111.28
1	6	98	ARG	NE-CZ-NH1	8.27	129.77	121.50
1	j	571	GLN	O-C-N	-8.27	113.36	122.12
1	C	493	LEU	N-CA-C	8.27	122.65	111.24
1	E	706	LEU	O-C-N	-8.26	113.36	122.12
1	X	195	ASN	CA-CB-CG	8.26	120.86	112.60
1	3	361	GLU	N-CA-C	8.26	121.40	111.82
1	e	390	GLU	CA-C-N	8.26	129.32	119.99
1	e	390	GLU	C-N-CA	8.26	129.32	119.99
1	h	417	ASP	CA-C-O	8.26	129.54	119.38
1	s	239	ARG	NE-CZ-NH1	8.26	129.76	121.50
1	K	237	GLN	N-CA-C	8.26	119.10	109.60
1	T	674	ARG	O-C-N	-8.26	111.06	122.46
1	6	103	LEU	N-CA-C	8.26	119.91	111.07
1	b	381	HIS	CA-CB-CG	-8.26	105.54	113.80
1	A	188	LYS	N-CA-C	8.26	120.28	111.28
1	a	494	GLY	O-C-N	-8.26	111.97	122.70
1	4	544	ASN	N-CA-C	8.25	119.90	111.07
1	T	473	LYS	O-C-N	-8.25	113.37	122.12
1	6	406	ARG	N-CA-C	8.25	120.27	111.28
1	o	332	GLU	N-CA-C	8.25	120.27	111.28
1	k	443	VAL	N-CA-C	8.25	120.51	109.37
1	M	638	SER	CA-C-N	8.25	132.00	120.29
1	M	638	SER	C-N-CA	8.25	132.00	120.29
1	P	111	GLY	O-C-N	-8.25	115.72	122.81
1	V	407	CYS	CA-C-N	8.25	129.51	122.17
1	V	407	CYS	C-N-CA	8.25	129.51	122.17
1	j	661	LEU	N-CA-C	8.25	120.27	111.28
1	c	684	GLU	O-C-N	-8.25	113.58	122.07
1	A	311	VAL	N-CA-C	8.25	118.34	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	689	ARG	NE-CZ-NH1	8.25	129.75	121.50
1	4	520	LEU	O-C-N	-8.24	113.19	122.09
1	8	277	SER	CA-C-N	8.24	131.33	120.28
1	8	277	SER	C-N-CA	8.24	131.33	120.28
1	a	328	ARG	NE-CZ-NH1	8.24	129.74	121.50
1	d	521	GLN	CA-C-N	8.24	131.99	120.29
1	d	521	GLN	C-N-CA	8.24	131.99	120.29
1	d	525	GLU	N-CA-C	8.24	120.26	111.28
1	j	710	SER	N-CA-CB	8.24	122.09	109.97
1	X	479	GLU	N-CA-C	8.24	120.26	111.28
1	Y	543	PHE	O-C-N	-8.24	113.58	122.07
1	1	403	GLU	CA-C-N	8.24	132.15	120.28
1	1	403	GLU	C-N-CA	8.24	132.15	120.28
1	B	573	ARG	N-CA-C	8.24	121.00	111.11
1	1	578	VAL	N-CA-C	8.24	120.05	108.93
1	q	426	ILE	CA-C-N	8.24	131.15	120.44
1	q	426	ILE	C-N-CA	8.24	131.15	120.44
1	q	451	TYR	CA-C-N	8.24	131.66	120.54
1	q	451	TYR	C-N-CA	8.24	131.66	120.54
1	S	582	ASP	CA-CB-CG	8.24	120.84	112.60
1	B	116	LEU	CA-C-N	8.23	131.31	120.28
1	B	116	LEU	C-N-CA	8.23	131.31	120.28
1	U	572	PHE	CA-CB-CG	-8.23	105.56	113.80
1	J	429	PHE	CA-CB-CG	-8.23	105.57	113.80
1	R	338	SER	O-C-N	-8.23	113.84	123.22
1	v	682	GLN	N-CA-C	8.23	121.17	111.71
1	u	224	ILE	CA-C-O	8.23	130.28	120.74
1	Q	573	ARG	NE-CZ-NH2	-8.23	111.80	119.20
1	0	289	THR	CA-C-O	8.22	129.24	120.36
1	r	697	TYR	CA-C-N	8.22	131.30	120.28
1	2	196	VAL	N-CA-C	8.22	118.31	110.42
1	a	549	VAL	N-CA-C	8.22	118.31	110.42
1	r	697	TYR	C-N-CA	8.22	131.30	120.28
1	v	240	ASP	CA-CB-CG	8.22	120.82	112.60
1	z	539	PHE	CA-CB-CG	-8.22	105.58	113.80
1	A	639	LYS	N-CA-C	8.22	121.17	111.71
1	3	316	TYR	CB-CA-C	8.22	119.30	110.17
1	7	257	GLN	OE1-CD-NE2	-8.22	114.38	122.60
1	p	239	ARG	CA-C-N	8.22	136.50	121.70
1	p	239	ARG	C-N-CA	8.22	136.50	121.70
1	G	328	ARG	NE-CZ-NH2	-8.22	111.80	119.20
1	N	294	THR	O-C-N	-8.22	113.30	122.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	269	ASP	CA-C-N	8.22	131.72	120.46
1	U	269	ASP	C-N-CA	8.22	131.72	120.46
1	h	121	ILE	CB-CA-C	8.22	120.90	110.96
1	m	639	LYS	N-CA-C	8.22	120.24	111.28
1	M	444	ARG	NE-CZ-NH2	-8.22	111.80	119.20
1	V	657	ASN	CA-C-N	8.22	129.28	119.99
1	V	657	ASN	C-N-CA	8.22	129.28	119.99
1	r	243	LEU	N-CA-C	8.22	120.23	111.28
1	E	327	CYS	N-CA-C	8.22	121.27	111.33
1	P	100	CYS	O-C-N	-8.21	113.55	122.09
1	R	659	ASP	CA-CB-CG	8.21	120.81	112.60
1	o	208	LEU	CA-C-N	8.21	131.50	120.50
1	o	208	LEU	C-N-CA	8.21	131.50	120.50
1	s	582	ASP	CA-CB-CG	-8.21	104.39	112.60
1	A	117	ALA	N-CA-C	8.21	120.23	111.28
1	E	241	ILE	CA-C-N	8.21	129.23	120.03
1	E	241	ILE	C-N-CA	8.21	129.23	120.03
1	e	645	ILE	N-CA-CB	8.21	116.85	110.45
1	n	173	TYR	O-C-N	8.21	132.36	122.26
1	x	248	LEU	CA-C-N	8.21	131.71	120.46
1	x	248	LEU	C-N-CA	8.21	131.71	120.46
1	4	243	LEU	CA-C-N	8.21	131.62	120.38
1	4	243	LEU	C-N-CA	8.21	131.62	120.38
1	o	666	MET	N-CA-C	8.21	121.15	111.71
1	h	257	GLN	N-CA-C	8.21	122.25	111.75
1	j	401	THR	N-CA-C	8.21	120.23	111.28
1	D	418	LYS	CA-C-N	8.21	132.10	120.28
1	D	418	LYS	C-N-CA	8.21	132.10	120.28
1	Z	281	GLU	N-CA-C	8.20	120.95	111.11
1	A	102	ASP	CA-CB-CG	-8.20	104.40	112.60
1	5	357	ARG	CA-C-N	8.20	131.69	120.46
1	5	357	ARG	C-N-CA	8.20	131.69	120.46
1	c	232	VAL	CA-C-O	8.20	129.86	120.67
1	N	682	GLN	O-C-N	-8.20	113.62	122.07
1	9	283	ASP	CB-CA-C	-8.20	101.30	110.98
1	S	650	GLN	N-CA-C	8.20	120.22	111.28
1	Z	267	ASN	OD1-CG-ND2	-8.20	114.40	122.60
1	9	276	LEU	CA-C-O	8.19	129.24	120.55
1	b	505	VAL	O-C-N	-8.20	113.92	121.87
1	h	664	ALA	CA-C-O	8.19	129.47	119.31
1	j	328	ARG	O-C-N	-8.20	112.81	122.15
1	q	187	GLU	N-CA-C	8.19	120.94	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	u	400	ALA	N-CA-C	8.20	120.21	111.28
1	0	546	ASN	CA-CB-CG	8.19	120.79	112.60
1	7	704	HIS	CE1-NE2-CD2	-8.19	100.81	109.00
1	9	111	GLY	N-CA-C	8.19	121.35	111.93
1	a	226	LEU	CA-C-O	-8.19	111.87	120.23
1	v	590	LYS	CA-C-N	8.19	131.26	120.28
1	v	590	LYS	C-N-CA	8.19	131.26	120.28
1	M	701	GLN	OE1-CD-NE2	-8.19	114.41	122.60
1	P	468	ASN	CA-CB-CG	-8.19	104.41	112.60
1	Q	531	PHE	N-CA-C	8.19	120.21	111.28
1	O	560	HIS	CE1-NE2-CD2	-8.19	100.81	109.00
1	Z	275	ALA	N-CA-C	8.19	120.21	111.28
1	v	372	GLU	CA-C-O	8.19	129.10	120.42
1	O	540	GLY	O-C-N	8.19	130.62	122.19
1	a	528	GLN	OE1-CD-NE2	-8.19	114.41	122.60
1	w	396	SER	CA-C-N	8.19	131.08	120.44
1	w	396	SER	C-N-CA	8.19	131.08	120.44
1	o	208	LEU	N-CA-C	8.18	121.58	108.41
1	s	652	PHE	N-CA-C	8.18	120.11	111.03
1	B	336	ARG	N-CA-C	8.18	121.78	110.24
1	V	543	PHE	N-CA-C	8.18	120.93	111.11
1	0	640	ARG	NH1-CZ-NH2	-8.18	108.67	119.30
1	4	187	GLU	O-C-N	-8.18	113.45	122.12
1	d	574	MET	N-CA-C	8.18	120.20	111.28
1	Z	662	GLN	OE1-CD-NE2	-8.18	114.42	122.60
1	c	258	THR	N-CA-CB	8.18	122.20	109.69
1	x	691	ILE	N-CA-C	8.18	118.27	110.42
1	Z	473	LYS	N-CA-C	8.18	120.92	111.11
1	7	347	ILE	CA-C-N	8.17	131.23	120.28
1	7	347	ILE	C-N-CA	8.17	131.23	120.28
1	n	475	ILE	CA-C-N	8.17	130.86	120.56
1	n	475	ILE	C-N-CA	8.17	130.86	120.56
1	H	697	TYR	N-CA-C	8.17	120.27	111.36
1	q	289	THR	CA-C-N	8.17	134.39	123.11
1	q	289	THR	C-N-CA	8.17	134.39	123.11
1	m	265	PRO	CA-C-N	8.17	131.23	120.28
1	m	265	PRO	C-N-CA	8.17	131.23	120.28
1	0	590	LYS	CA-C-N	8.17	131.89	120.29
1	0	590	LYS	C-N-CA	8.17	131.89	120.29
1	1	519	MET	N-CA-C	8.17	120.18	111.28
1	6	637	THR	CA-C-N	8.17	131.57	120.38
1	6	637	THR	C-N-CA	8.17	131.57	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	f	239	ARG	O-C-N	-8.17	109.93	123.00
1	l	209	ILE	O-C-N	-8.17	114.36	123.18
1	D	591	LYS	CA-C-O	8.17	129.12	120.70
1	G	291	GLY	O-C-N	-8.17	118.20	123.35
1	b	394	ARG	NE-CZ-NH1	8.17	129.67	121.50
1	g	362	GLU	CA-C-N	8.17	128.99	120.00
1	g	362	GLU	C-N-CA	8.17	128.99	120.00
1	b	667	GLN	CA-C-N	8.17	131.65	120.46
1	b	667	GLN	C-N-CA	8.17	131.65	120.46
1	h	315	THR	N-CA-CB	8.17	121.85	110.01
1	o	375	THR	CA-C-N	8.17	131.22	120.28
1	o	375	THR	C-N-CA	8.17	131.22	120.28
1	K	672	LYS	N-CA-C	8.17	120.18	111.28
1	s	308	MET	O-C-N	-8.16	113.47	122.12
1	B	589	LEU	N-CA-C	8.16	120.18	111.28
1	R	565	GLU	CA-C-N	8.16	131.22	120.28
1	R	565	GLU	C-N-CA	8.16	131.22	120.28
1	2	160	LYS	CA-C-N	8.16	134.39	121.66
1	2	160	LYS	C-N-CA	8.16	134.39	121.66
1	n	363	GLY	N-CA-C	8.16	117.64	110.21
1	w	631	ASN	OD1-CG-ND2	-8.16	114.44	122.60
1	T	445	GLU	N-CA-C	8.16	121.59	109.59
1	X	234	VAL	O-C-N	-8.16	114.21	122.62
1	Z	662	GLN	N-CA-C	8.16	119.80	111.07
1	4	625	GLU	N-CA-C	8.16	120.17	111.28
1	Y	581	GLN	OE1-CD-NE2	-8.16	114.44	122.60
1	D	417	ASP	N-CA-C	8.16	122.58	112.47
1	3	425	LYS	CA-C-N	8.15	132.00	120.42
1	3	425	LYS	C-N-CA	8.15	132.00	120.42
1	i	413	SER	O-C-N	-8.15	111.74	122.59
1	q	109	ALA	N-CA-C	8.15	120.17	111.28
1	o	175	ASN	OD1-CG-ND2	-8.15	114.45	122.60
1	G	639	LYS	N-CA-C	8.15	119.79	111.07
1	W	476	ILE	N-CA-C	8.15	118.93	110.62
1	6	663	LYS	N-CA-C	8.15	120.16	111.28
1	I	357	ARG	NE-CZ-NH1	8.15	129.65	121.50
1	a	453	LYS	N-CA-C	8.14	120.23	111.36
1	v	332	GLU	N-CA-C	8.14	120.83	110.24
1	x	540	GLY	O-C-N	-8.14	113.48	122.68
1	F	586	SER	N-CA-CB	8.14	122.90	110.28
1	X	328	ARG	NH1-CZ-NH2	-8.14	108.71	119.30
1	3	631	ASN	CA-CB-CG	8.14	120.74	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8	559	LYS	N-CA-C	8.14	119.78	111.07
1	l	399	LYS	O-C-N	-8.14	113.62	122.09
1	F	288	ARG	NH1-CZ-NH2	-8.14	108.72	119.30
1	W	143	LEU	N-CA-C	8.14	121.27	109.71
1	S	689	ARG	NE-CZ-NH1	8.14	129.64	121.50
1	p	680	GLN	N-CA-C	8.14	122.03	110.23
1	H	695	ARG	NE-CZ-NH1	8.14	129.64	121.50
1	q	366	THR	N-CA-CB	8.14	121.87	110.07
1	6	218	VAL	N-CA-C	8.14	116.59	109.02
1	f	550	GLN	N-CA-C	8.13	119.78	111.07
1	t	538	HIS	CE1-NE2-CD2	-8.14	100.86	109.00
1	x	239	ARG	NE-CZ-NH2	8.13	126.52	119.20
1	E	290	ILE	N-CA-CB	8.13	122.51	112.10
1	8	642	ALA	N-CA-C	8.13	121.17	111.33
1	C	166	ALA	N-CA-C	8.13	120.81	110.24
1	C	414	GLN	N-CA-C	8.13	120.82	110.33
1	H	481	GLU	N-CA-C	8.13	121.17	111.33
1	f	494	GLY	CA-C-N	8.13	136.33	121.70
1	f	494	GLY	C-N-CA	8.13	136.33	121.70
1	l	441	GLU	N-CA-CB	8.13	122.10	109.83
1	v	196	VAL	N-CA-C	8.13	118.93	110.72
1	Y	576	GLN	N-CA-C	8.13	120.14	111.28
1	d	467	THR	O-C-N	-8.13	113.51	122.12
1	y	406	ARG	CA-C-N	8.13	131.00	120.44
1	y	406	ARG	C-N-CA	8.13	131.00	120.44
1	J	510	GLN	OE1-CD-NE2	8.13	130.73	122.60
1	e	418	LYS	O-C-N	-8.13	113.70	122.07
1	v	652	PHE	O-C-N	-8.12	112.89	122.15
1	x	199	GLY	CA-C-N	8.12	133.65	122.19
1	x	199	GLY	C-N-CA	8.12	133.65	122.19
1	N	394	ARG	N-CA-C	8.12	120.86	111.11
1	R	626	ILE	CA-C-N	8.12	129.00	119.98
1	R	626	ILE	C-N-CA	8.12	129.00	119.98
1	X	278	MET	CA-C-N	8.12	131.51	120.38
1	X	278	MET	C-N-CA	8.12	131.51	120.38
1	d	178	LEU	CA-C-N	8.12	132.40	120.87
1	d	178	LEU	C-N-CA	8.12	132.40	120.87
1	C	592	VAL	CB-CA-C	8.12	123.43	112.22
1	h	396	SER	N-CA-C	8.12	120.13	111.28
1	E	419	MET	N-CA-C	8.12	119.76	111.07
1	H	640	ARG	NE-CZ-NH2	-8.12	111.89	119.20
1	I	98	ARG	CA-C-O	-8.12	110.46	118.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	436	LEU	CA-C-O	-8.12	112.29	120.82
1	S	202	ARG	NE-CZ-NH2	-8.12	111.89	119.20
1	T	239	ARG	NH1-CZ-NH2	-8.12	108.74	119.30
1	a	425	LYS	CA-C-N	8.12	131.07	120.60
1	a	425	LYS	C-N-CA	8.12	131.07	120.60
1	b	270	ILE	N-CA-C	8.12	122.37	111.17
1	y	375	THR	O-C-N	-8.12	113.65	122.09
1	R	444	ARG	NE-CZ-NH1	8.12	129.62	121.50
1	e	478	GLU	N-CA-C	8.12	120.21	111.36
1	w	683	SER	CA-C-O	-8.11	111.95	120.55
1	S	191	HIS	CG-CD2-NE2	8.11	115.31	107.20
1	W	150	VAL	O-C-N	-8.12	114.03	123.04
1	Y	374	LEU	N-CA-C	8.11	119.75	111.07
1	Z	389	LEU	CA-C-N	8.12	131.15	120.28
1	Z	389	LEU	C-N-CA	8.12	131.15	120.28
1	2	194	GLN	N-CA-C	8.11	120.12	111.28
1	8	356	PHE	N-CA-C	8.11	120.12	111.28
1	k	349	PHE	CA-CB-CG	8.11	121.91	113.80
1	m	708	GLN	N-CA-C	8.11	120.12	111.28
1	s	307	VAL	O-C-N	-8.11	112.64	121.80
1	I	150	VAL	CA-C-N	8.11	134.21	121.56
1	I	150	VAL	C-N-CA	8.11	134.21	121.56
1	N	682	GLN	N-CA-C	8.11	119.75	111.07
1	N	641	LEU	CA-C-N	8.11	131.96	120.28
1	N	641	LEU	C-N-CA	8.11	131.96	120.28
1	X	515	PRO	N-CA-C	-8.11	102.95	113.57
1	S	597	PHE	CA-CB-CG	-8.11	105.69	113.80
1	l	98	ARG	O-C-N	-8.11	113.09	120.71
1	o	316	TYR	CA-C-O	-8.11	113.30	120.60
1	v	167	TRP	O-C-N	-8.11	114.75	123.42
1	W	663	LYS	N-CA-C	8.11	120.11	111.28
1	5	420	PHE	CA-CB-CG	-8.10	105.70	113.80
1	o	417	ASP	CA-CB-CG	-8.10	104.50	112.60
1	J	283	ASP	CB-CA-C	8.10	118.59	110.33
1	h	215	SER	CA-C-N	8.10	127.68	118.85
1	h	215	SER	C-N-CA	8.10	127.68	118.85
1	v	451	TYR	N-CA-C	8.10	119.74	111.07
1	q	202	ARG	NE-CZ-NH2	-8.10	111.91	119.20
1	P	120	ALA	O-C-N	-8.10	114.76	123.26
1	W	625	GLU	N-CA-C	8.10	119.73	111.07
1	w	440	GLU	CA-C-N	8.10	132.21	120.71
1	w	440	GLU	C-N-CA	8.10	132.21	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	143	LEU	CA-C-N	8.10	128.57	119.83
1	Y	143	LEU	C-N-CA	8.10	128.57	119.83
1	0	503	ILE	N-CA-CB	8.10	120.59	110.47
1	7	682	GLN	N-CA-C	8.10	119.73	111.07
1	c	654	LEU	CA-C-N	8.10	132.04	120.79
1	c	654	LEU	C-N-CA	8.10	132.04	120.79
1	w	359	LEU	CA-C-N	8.10	131.34	120.65
1	w	359	LEU	C-N-CA	8.10	131.34	120.65
1	X	674	ARG	NH1-CZ-NH2	-8.10	108.78	119.30
1	4	593	ARG	N-CA-C	8.09	120.10	111.28
1	B	405	ARG	NE-CZ-NH2	-8.09	111.92	119.20
1	R	338	SER	CA-C-O	8.09	129.02	120.36
1	V	503	ILE	N-CA-C	8.09	118.88	110.62
1	X	328	ARG	NE-CZ-NH2	8.09	126.48	119.20
1	l	189	GLU	CA-C-N	8.09	130.75	120.56
1	l	189	GLU	C-N-CA	8.09	130.75	120.56
1	t	281	GLU	CA-C-O	8.09	129.24	120.10
1	w	643	ASN	CA-CB-CG	8.09	120.69	112.60
1	E	367	VAL	N-CA-C	-8.09	98.51	107.73
1	o	538	HIS	CG-CD2-NE2	8.09	115.29	107.20
1	Q	562	ALA	CA-C-N	8.09	130.96	120.44
1	Q	562	ALA	C-N-CA	8.09	130.96	120.44
1	U	160	LYS	O-C-N	-8.09	113.54	123.33
1	3	449	ARG	NE-CZ-NH2	8.09	126.48	119.20
1	6	152	ARG	NE-CZ-NH2	8.09	126.48	119.20
1	k	555	ASP	CA-CB-CG	8.09	120.69	112.60
1	n	452	ASN	CA-C-N	8.09	131.93	120.28
1	n	452	ASN	C-N-CA	8.09	131.93	120.28
1	s	546	ASN	CA-CB-CG	8.09	120.69	112.60
1	v	676	SER	N-CA-C	8.09	120.09	111.28
1	F	437	VAL	N-CA-C	8.09	118.85	110.36
1	d	567	MET	N-CA-C	8.08	119.72	111.07
1	P	349	PHE	N-CA-C	8.08	120.09	111.28
1	2	202	ARG	NE-CZ-NH2	-8.08	111.93	119.20
1	q	170	ARG	NE-CZ-NH2	-8.08	111.93	119.20
1	p	508	TYR	N-CA-C	8.08	119.71	111.07
1	C	504	ILE	N-CA-C	8.08	118.88	110.72
1	4	420	PHE	N-CA-C	8.08	119.71	111.07
1	l	622	SER	CA-C-N	8.08	131.10	120.28
1	l	622	SER	C-N-CA	8.08	131.10	120.28
1	F	462	VAL	CA-C-N	8.08	129.12	119.99
1	F	462	VAL	C-N-CA	8.08	129.12	119.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	107	LEU	N-CA-C	8.08	120.08	111.28
1	Y	564	ALA	O-C-N	-8.08	113.56	122.12
1	0	577	MET	N-CA-CB	8.07	122.44	110.49
1	V	239	ARG	CA-C-N	8.07	136.24	121.70
1	V	239	ARG	C-N-CA	8.07	136.24	121.70
1	p	194	GLN	N-CA-C	8.07	120.16	111.36
1	G	124	ILE	O-C-N	-8.07	113.09	122.94
1	2	328	ARG	NE-CZ-NH2	-8.07	111.94	119.20
1	d	180	LEU	CA-C-O	-8.07	110.17	119.05
1	s	548	THR	CA-C-N	8.07	130.73	120.56
1	s	548	THR	C-N-CA	8.07	130.73	120.56
1	s	497	ASN	CA-CB-CG	8.07	120.67	112.60
1	z	344	LYS	N-CA-C	8.07	120.08	111.28
1	L	528	GLN	CA-C-N	8.07	130.93	120.44
1	L	528	GLN	C-N-CA	8.07	130.93	120.44
1	e	108	ARG	NE-CZ-NH1	8.07	129.57	121.50
1	g	667	GLN	CA-C-N	8.07	131.51	120.46
1	g	667	GLN	C-N-CA	8.07	131.51	120.46
1	p	663	LYS	O-C-N	-8.07	113.76	122.07
1	x	158	LYS	CA-C-N	8.07	133.50	122.77
1	x	158	LYS	C-N-CA	8.07	133.50	122.77
1	C	444	ARG	NE-CZ-NH2	8.07	126.46	119.20
1	Q	510	GLN	CA-C-O	8.07	129.22	120.10
1	U	127	GLN	CG-CD-NE2	8.07	128.50	116.40
1	S	396	SER	CA-C-N	8.06	130.93	120.44
1	S	396	SER	C-N-CA	8.06	130.93	120.44
1	d	199	GLY	CA-C-O	8.06	129.03	119.19
1	J	417	ASP	CA-CB-CG	-8.06	104.54	112.60
1	R	488	ARG	N-CA-C	8.06	121.09	111.33
1	S	484	GLU	N-CA-C	8.06	120.15	111.36
1	v	99	PRO	CA-C-N	8.06	131.42	120.54
1	v	99	PRO	C-N-CA	8.06	131.42	120.54
1	x	534	VAL	CA-C-N	8.06	130.91	120.44
1	x	534	VAL	C-N-CA	8.06	130.91	120.44
1	y	401	THR	N-CA-CB	8.06	121.97	110.12
1	Q	634	PHE	CA-CB-CG	8.06	121.86	113.80
1	Y	632	ALA	O-C-N	-8.06	113.01	122.20
1	6	323	MET	CA-C-N	8.05	132.44	122.37
1	6	323	MET	C-N-CA	8.05	132.44	122.37
1	l	241	ILE	O-C-N	-8.05	114.02	121.91
1	p	477	HIS	CE1-NE2-CD2	-8.06	100.94	109.00
1	r	124	ILE	O-C-N	-8.06	114.56	123.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	309	ASN	CA-CB-CG	-8.06	104.54	112.60
1	r	568	ILE	CA-C-N	8.05	130.91	120.44
1	r	568	ILE	C-N-CA	8.05	130.91	120.44
1	z	573	ARG	N-CA-C	8.05	120.06	111.28
1	J	129	SER	N-CA-C	8.05	122.92	113.18
1	K	206	HIS	CA-CB-CG	-8.05	105.75	113.80
1	4	301	ARG	CA-C-N	8.05	130.20	120.14
1	4	301	ARG	C-N-CA	8.05	130.20	120.14
1	7	273	THR	CA-C-N	8.05	132.55	120.31
1	7	273	THR	C-N-CA	8.05	132.55	120.31
1	t	527	ILE	O-C-N	-8.05	113.53	121.90
1	H	361	GLU	N-CA-C	8.05	120.06	111.28
1	Z	648	ILE	O-C-N	-8.05	113.54	121.83
1	P	657	ASN	OD1-CG-ND2	-8.05	114.55	122.60
1	a	402	GLU	O-C-N	-8.05	113.78	122.07
1	F	590	LYS	CA-C-N	8.04	131.06	120.28
1	F	590	LYS	C-N-CA	8.04	131.06	120.28
1	K	506	HIS	CE1-NE2-CD2	-8.04	100.95	109.00
1	0	207	GLU	N-CA-C	8.04	122.06	110.24
1	a	491	GLU	N-CA-C	-8.04	103.55	112.72
1	g	287	ASP	N-CA-C	8.04	120.05	111.28
1	o	460	ASN	O-C-N	-8.04	112.98	122.15
1	i	143	LEU	CA-C-N	8.04	129.89	119.84
1	i	143	LEU	C-N-CA	8.04	129.89	119.84
1	y	154	PRO	N-CA-C	8.04	124.37	111.26
1	Q	488	ARG	NE-CZ-NH2	-8.04	111.96	119.20
1	b	414	GLN	OE1-CD-NE2	-8.04	114.56	122.60
1	m	688	LYS	N-CA-C	8.04	120.04	111.28
1	H	229	ILE	O-C-N	-8.04	114.47	122.67
1	R	631	ASN	CA-CB-CG	8.04	120.64	112.60
1	7	660	SER	N-CA-C	8.04	120.04	111.28
1	0	127	GLN	CA-C-N	8.03	130.88	120.44
1	0	127	GLN	C-N-CA	8.03	130.88	120.44
1	Q	206	HIS	CG-CD2-NE2	8.04	115.23	107.20
1	R	494	GLY	CA-C-N	8.04	136.16	121.70
1	R	494	GLY	C-N-CA	8.04	136.16	121.70
1	9	260	ASN	OD1-CG-ND2	-8.03	114.57	122.60
1	c	295	LYS	CA-C-N	8.03	127.75	119.64
1	c	295	LYS	C-N-CA	8.03	127.75	119.64
1	E	592	VAL	N-CA-C	8.03	118.81	110.62
1	H	386	LEU	O-C-N	-8.03	112.08	121.32
1	H	440	GLU	O-C-N	-8.03	113.34	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	97	VAL	CA-C-O	8.03	126.04	119.29
1	I	477	HIS	CE1-NE2-CD2	-8.03	100.97	109.00
1	Y	554	GLU	N-CA-C	8.03	120.11	111.36
1	3	414	GLN	OE1-CD-NE2	-8.03	114.57	122.60
1	o	438	GLU	N-CA-C	-8.03	103.48	113.28
1	f	432	ASP	O-C-N	-8.03	112.40	122.27
1	L	525	GLU	N-CA-C	8.03	120.03	111.28
1	H	438	GLU	O-C-N	-8.03	113.80	122.07
1	h	449	ARG	NH1-CZ-NH2	-8.03	108.87	119.30
1	m	549	VAL	N-CA-CB	8.03	120.84	110.57
1	K	374	LEU	N-CA-C	8.03	119.66	111.07
1	N	537	LYS	N-CA-C	8.03	120.11	111.36
1	T	490	LYS	N-CA-C	8.03	120.74	111.11
1	U	643	ASN	CA-CB-CG	8.03	120.63	112.60
1	D	482	LYS	N-CA-C	8.02	119.66	111.07
1	d	631	ASN	CA-CB-CG	8.02	120.62	112.60
1	E	689	ARG	NE-CZ-NH1	8.02	129.52	121.50
1	T	98	ARG	NE-CZ-NH2	-8.02	111.98	119.20
1	3	270	ILE	CA-C-O	8.02	128.40	119.42
1	c	311	VAL	CB-CA-C	8.02	122.23	111.97
1	P	139	SER	N-CA-C	8.02	119.65	111.07
1	t	574	MET	N-CA-C	8.02	120.02	111.28
1	G	698	ARG	N-CA-C	8.02	120.02	111.28
1	O	530	ALA	N-CA-C	8.02	120.02	111.28
1	P	170	ARG	CA-C-O	8.02	129.70	120.80
1	P	551	SER	O-C-N	-8.02	113.75	122.09
1	Q	232	VAL	N-CA-CB	8.02	119.93	110.95
1	o	166	ALA	N-CA-C	8.01	122.04	110.10
1	C	443	VAL	CA-C-N	8.01	136.84	121.54
1	C	443	VAL	C-N-CA	8.01	136.84	121.54
1	G	103	LEU	N-CA-C	8.01	119.64	111.07
1	G	295	LYS	CB-CA-C	-8.01	104.03	111.00
1	S	564	ALA	N-CA-C	8.01	120.09	111.36
1	l	369	ARG	CA-C-O	8.01	128.85	119.32
1	o	115	ASP	CA-CB-CG	-8.01	104.59	112.60
1	B	153	CYS	O-C-N	-8.01	114.91	121.80
1	r	414	GLN	CA-C-N	8.01	131.01	120.28
1	r	414	GLN	C-N-CA	8.01	131.01	120.28
1	r	644	GLN	OE1-CD-NE2	-8.01	114.59	122.60
1	u	218	VAL	CA-C-N	8.01	129.85	119.84
1	u	218	VAL	C-N-CA	8.01	129.85	119.84
1	S	149	ILE	CA-C-O	8.01	130.79	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	570	LEU	O-C-N	-8.01	113.63	122.12
1	2	570	LEU	N-CA-C	8.01	119.64	111.07
1	n	514	GLU	O-C-N	-8.01	113.19	120.71
1	H	630	LEU	CA-C-O	8.01	128.91	120.42
1	e	225	ASP	CA-CB-CG	-8.00	104.60	112.60
1	g	410	ASP	N-CA-C	8.00	119.78	111.14
1	u	582	ASP	N-CA-C	8.00	121.99	111.75
1	K	396	SER	CA-C-N	8.00	130.84	120.44
1	K	396	SER	C-N-CA	8.00	130.84	120.44
1	i	649	ILE	CA-C-N	8.00	130.84	120.44
1	i	649	ILE	C-N-CA	8.00	130.84	120.44
1	J	189	GLU	N-CA-C	8.00	119.78	111.14
1	J	624	THR	N-CA-C	8.00	120.71	111.11
1	6	255	ARG	NE-CZ-NH1	8.00	129.50	121.50
1	c	308	MET	N-CA-C	8.00	120.71	111.11
1	D	682	GLN	N-CA-C	8.00	121.01	111.33
1	T	510	GLN	O-C-N	-8.00	113.64	122.12
1	l	167	TRP	CB-CG-CD2	-8.00	115.61	126.80
1	Q	645	ILE	O-C-N	-8.00	114.39	120.07
1	U	210	SER	CA-C-O	8.00	128.72	120.24
1	Y	690	ARG	NE-CZ-NH2	-8.00	112.00	119.20
1	a	458	PHE	CA-C-O	8.00	129.16	119.97
1	e	191	HIS	CA-CB-CG	7.99	121.79	113.80
1	0	511	GLN	OE1-CD-NE2	-7.99	114.61	122.60
1	v	673	ASN	CA-CB-CG	7.99	120.59	112.60
1	J	239	ARG	CA-C-N	7.99	136.08	121.70
1	J	239	ARG	C-N-CA	7.99	136.08	121.70
1	P	255	ARG	NE-CZ-NH2	-7.99	112.01	119.20
1	i	548	THR	CA-C-N	7.99	130.63	120.56
1	i	548	THR	C-N-CA	7.99	130.63	120.56
1	E	380	MET	N-CA-C	7.99	120.07	111.36
1	I	453	LYS	O-C-N	-7.99	113.84	122.07
1	J	301	ARG	NE-CZ-NH2	-7.99	112.01	119.20
1	M	584	ILE	CA-C-N	7.99	131.32	120.38
1	M	584	ILE	C-N-CA	7.99	131.32	120.38
1	S	650	GLN	OE1-CD-NE2	-7.99	114.61	122.60
1	8	560	HIS	CA-CB-CG	-7.99	105.81	113.80
1	b	239	ARG	CA-C-N	7.99	136.07	121.70
1	b	239	ARG	C-N-CA	7.99	136.07	121.70
1	R	352	THR	N-CA-C	7.99	119.61	111.07
1	X	229	ILE	CA-C-O	7.99	129.73	120.71
1	b	305	LYS	CA-C-N	7.98	131.32	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	305	LYS	C-N-CA	7.98	131.32	120.54
1	V	228	GLY	O-C-N	-7.98	114.62	122.84
1	6	378	LEU	CA-C-O	7.98	129.01	120.55
1	s	105	ASP	N-CA-C	7.98	119.98	111.28
1	u	591	LYS	N-CA-C	7.98	120.89	111.71
1	x	689	ARG	N-CA-C	7.98	119.98	111.28
1	J	442	VAL	N-CA-CB	7.98	119.80	112.06
1	V	624	THR	N-CA-C	7.98	119.61	111.07
1	E	346	GLU	CA-C-O	7.98	129.20	120.82
1	R	347	ILE	CA-C-O	7.98	129.25	120.95
1	U	685	THR	N-CA-C	7.98	119.98	111.28
1	3	231	ARG	CA-C-N	7.98	133.08	123.19
1	3	231	ARG	C-N-CA	7.98	133.08	123.19
1	n	280	HIS	N-CA-C	7.98	120.98	111.33
1	b	144	PRO	N-CA-CB	-7.98	96.62	103.32
1	S	585	TYR	N-CA-C	7.98	119.97	111.28
1	4	278	MET	N-CA-C	7.97	120.05	111.36
1	t	280	HIS	CE1-NE2-CD2	-7.97	101.03	109.00
1	L	305	LYS	N-CA-C	7.97	119.97	111.28
1	X	264	VAL	O-C-N	-7.97	113.06	121.11
1	m	272	THR	N-CA-C	7.97	120.68	111.11
1	p	705	ALA	O-C-N	-7.97	112.46	122.27
1	o	503	ILE	N-CA-CB	7.97	119.87	110.55
1	s	280	HIS	CA-C-N	7.97	131.30	120.38
1	s	280	HIS	C-N-CA	7.97	131.30	120.38
1	x	96	LYS	N-CA-C	7.97	121.49	111.69
1	O	364	SER	N-CA-C	7.97	120.98	108.79
1	V	375	THR	N-CA-CB	7.97	121.95	110.16
1	6	633	TYR	N-CA-C	7.97	119.96	111.28
1	b	381	HIS	CB-CG-CD2	-7.97	120.84	131.20
1	o	353	HIS	CA-CB-CG	-7.97	105.83	113.80
1	t	514	GLU	CA-C-N	7.97	127.69	119.64
1	t	514	GLU	C-N-CA	7.97	127.69	119.64
1	v	409	ALA	CA-C-N	7.97	136.04	121.70
1	v	409	ALA	C-N-CA	7.97	136.04	121.70
1	4	532	ILE	O-C-N	-7.96	113.63	121.83
1	5	309	ASN	CA-C-O	7.96	129.18	120.82
1	q	640	ARG	NE-CZ-NH1	7.96	129.47	121.50
1	V	674	ARG	NE-CZ-NH1	7.96	129.47	121.50
1	g	101	ILE	N-CA-C	7.96	118.74	110.62
1	t	196	VAL	O-C-N	-7.96	114.15	121.87
1	u	261	LEU	O-C-N	-7.96	113.37	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	235	ASP	N-CA-C	7.96	120.97	111.33
1	p	474	ASN	CA-C-N	7.96	130.59	120.56
1	p	474	ASN	C-N-CA	7.96	130.59	120.56
1	O	247	ALA	N-CA-C	7.96	119.96	111.28
1	h	224	ILE	CA-C-O	7.96	129.24	120.48
1	s	657	ASN	CA-CB-CG	7.96	120.56	112.60
1	C	376	THR	N-CA-C	7.96	119.59	111.07
1	h	226	LEU	CA-C-N	7.96	129.79	119.84
1	h	226	LEU	C-N-CA	7.96	129.79	119.84
1	i	277	SER	CA-C-N	7.96	131.59	120.29
1	i	277	SER	C-N-CA	7.96	131.59	120.29
1	i	419	MET	N-CA-C	7.96	120.03	111.36
1	m	546	ASN	CA-C-N	7.96	132.40	120.31
1	m	546	ASN	C-N-CA	7.96	132.40	120.31
1	S	627	GLY	N-CA-C	7.96	122.28	112.73
1	V	170	ARG	NE-CZ-NH2	7.96	126.36	119.20
1	N	100	CYS	O-C-N	-7.96	113.08	122.15
1	b	688	LYS	N-CA-C	7.95	119.95	111.28
1	I	521	GLN	CA-C-O	7.95	129.35	121.00
1	0	375	THR	O-C-N	-7.95	113.08	122.15
1	t	708	GLN	N-CA-C	7.95	119.95	111.28
1	R	471	LYS	N-CA-C	7.95	119.58	111.07
1	1	508	TYR	CA-C-N	7.95	133.34	120.30
1	1	508	TYR	C-N-CA	7.95	133.34	120.30
1	N	352	THR	N-CA-C	7.95	119.94	111.28
1	1	100	CYS	N-CA-C	7.95	119.72	111.14
1	a	336	ARG	NE-CZ-NH1	7.95	129.45	121.50
1	p	98	ARG	NE-CZ-NH1	7.95	129.45	121.50
1	J	513	VAL	N-CA-C	7.95	118.71	110.36
1	8	383	GLN	OE1-CD-NE2	-7.95	114.65	122.60
1	l	499	LYS	N-CA-C	7.95	120.02	111.36
1	L	702	ALA	CA-C-N	7.95	131.27	120.54
1	L	702	ALA	C-N-CA	7.95	131.27	120.54
1	O	245	ILE	N-CA-C	7.95	118.05	110.42
1	6	675	TYR	N-CA-C	7.94	120.85	111.71
1	p	115	ASP	CA-CB-CG	-7.94	104.66	112.60
1	t	597	PHE	N-CA-CB	7.94	121.59	110.07
1	8	301	ARG	CA-C-N	7.94	128.76	119.94
1	8	301	ARG	C-N-CA	7.94	128.76	119.94
1	D	239	ARG	O-C-N	-7.94	110.30	123.00
1	a	708	GLN	CA-C-N	7.94	130.92	120.28
1	a	708	GLN	C-N-CA	7.94	130.92	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	525	GLU	N-CA-C	7.94	119.56	111.07
1	4	674	ARG	NE-CZ-NH1	7.94	129.44	121.50
1	5	414	GLN	CA-C-N	7.94	130.76	120.44
1	5	414	GLN	C-N-CA	7.94	130.76	120.44
1	d	182	ASP	CA-C-O	-7.94	113.40	119.59
1	r	141	VAL	O-C-N	-7.94	113.90	123.03
1	r	573	ARG	NE-CZ-NH2	-7.94	112.06	119.20
1	l	536	LYS	O-C-N	-7.94	113.71	122.12
1	O	703	ARG	NH1-CZ-NH2	-7.94	108.98	119.30
1	5	97	VAL	N-CA-C	7.93	118.71	110.62
1	7	476	ILE	N-CA-C	7.93	118.04	110.42
1	g	229	ILE	O-C-N	-7.93	114.22	122.63
1	C	624	THR	N-CA-C	7.93	120.93	111.33
1	M	105	ASP	O-C-N	-7.93	113.71	122.12
1	N	241	ILE	CA-C-O	7.93	129.58	121.17
1	N	680	GLN	N-CA-C	7.93	122.20	110.30
1	U	483	TYR	N-CA-C	7.93	119.93	111.28
1	n	657	ASN	OD1-CG-ND2	-7.93	114.67	122.60
1	x	250	LYS	N-CA-C	7.93	120.83	111.71
1	E	290	ILE	O-C-N	-7.93	115.33	123.03
1	R	708	GLN	N-CA-C	7.93	121.02	111.82
1	x	624	THR	N-CA-C	7.93	119.92	111.28
1	8	554	GLU	CA-C-O	7.93	128.96	120.55
1	e	488	ARG	N-CA-C	7.93	120.92	111.33
1	t	538	HIS	ND1-CE1-NE2	7.93	116.33	108.40
1	r	100	CYS	N-CA-C	7.93	119.92	111.28
1	4	353	HIS	CA-CB-CG	-7.93	105.87	113.80
1	z	336	ARG	O-C-N	-7.93	113.18	122.93
1	z	657	ASN	CA-CB-CG	7.93	120.53	112.60
1	K	220	ASP	CA-CB-CG	-7.93	104.67	112.60
1	N	362	GLU	CA-C-O	7.93	128.83	119.56
1	N	670	GLN	CA-C-O	-7.93	110.86	119.97
1	N	704	HIS	CE1-NE2-CD2	-7.93	101.07	109.00
1	W	484	GLU	N-CA-C	7.93	119.92	111.28
1	X	307	VAL	N-CA-C	7.93	118.70	110.62
1	d	182	ASP	CA-C-N	7.92	128.66	119.47
1	d	182	ASP	C-N-CA	7.92	128.66	119.47
1	l	427	LYS	CA-C-O	-7.92	112.15	120.55
1	R	97	VAL	N-CA-C	7.92	118.72	110.72
1	P	506	HIS	CA-C-N	7.92	131.24	120.54
1	P	506	HIS	C-N-CA	7.92	131.24	120.54
1	4	657	ASN	CA-C-N	7.92	128.57	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	657	ASN	C-N-CA	7.92	128.57	119.94
1	8	514	GLU	O-C-N	-7.92	113.26	120.71
1	Z	124	ILE	O-C-N	-7.92	114.62	123.18
1	Q	630	LEU	CA-C-N	7.92	130.89	120.28
1	Q	630	LEU	C-N-CA	7.92	130.89	120.28
1	b	494	GLY	CA-C-N	7.92	135.95	121.70
1	b	494	GLY	C-N-CA	7.92	135.95	121.70
1	B	98	ARG	NE-CZ-NH2	-7.92	112.07	119.20
1	Y	643	ASN	OD1-CG-ND2	7.92	130.52	122.60
1	7	705	ALA	N-CA-C	7.92	119.54	111.07
1	a	357	ARG	CA-C-N	7.92	131.31	120.46
1	a	357	ARG	C-N-CA	7.92	131.31	120.46
1	A	357	ARG	NE-CZ-NH2	-7.92	112.07	119.20
1	N	429	PHE	CA-CB-CG	7.92	121.72	113.80
1	6	652	PHE	CA-CB-CG	-7.92	105.89	113.80
1	G	701	GLN	CA-C-N	7.92	130.89	120.28
1	G	701	GLN	C-N-CA	7.92	130.89	120.28
1	h	577	MET	CA-C-N	7.91	131.74	120.98
1	h	577	MET	C-N-CA	7.91	131.74	120.98
1	w	171	ILE	N-CA-CB	7.91	121.93	111.64
1	g	488	ARG	CA-C-N	7.91	128.72	119.94
1	g	488	ARG	C-N-CA	7.91	128.72	119.94
1	8	340	ALA	N-CA-C	7.91	119.53	111.07
1	m	174	ARG	NE-CZ-NH1	7.91	129.41	121.50
1	s	624	THR	N-CA-C	7.91	119.90	111.28
1	B	351	GLN	N-CA-C	7.91	119.90	111.28
1	S	369	ARG	N-CA-C	7.91	120.54	109.15
1	9	193	ALA	CA-C-N	7.91	130.72	120.44
1	9	193	ALA	C-N-CA	7.91	130.72	120.44
1	n	682	GLN	CA-C-N	7.91	135.93	121.70
1	n	682	GLN	C-N-CA	7.91	135.93	121.70
1	Y	280	HIS	CA-CB-CG	-7.91	105.89	113.80
1	5	286	GLY	CA-C-N	7.91	130.72	120.44
1	5	286	GLY	C-N-CA	7.91	130.72	120.44
1	e	260	ASN	CA-CB-CG	-7.91	104.69	112.60
1	x	110	LEU	O-C-N	-7.91	111.46	122.37
1	F	589	LEU	CA-C-N	7.91	130.87	120.28
1	F	589	LEU	C-N-CA	7.91	130.87	120.28
1	Z	407	CYS	O-C-N	-7.91	112.50	123.01
1	V	428	MET	N-CA-C	7.90	119.89	111.28
1	a	345	LYS	CA-C-N	7.90	130.71	120.44
1	a	345	LYS	C-N-CA	7.90	130.71	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	g	233	ALA	CA-C-O	7.90	128.81	120.36
1	w	652	PHE	N-CA-C	7.90	120.80	111.71
1	K	597	PHE	N-CA-C	7.90	119.52	111.07
1	a	651	TYR	N-CA-C	7.90	119.89	111.28
1	b	571	GLN	CG-CD-NE2	7.90	128.25	116.40
1	r	403	GLU	N-CA-C	7.90	119.89	111.28
1	l	424	GLU	N-CA-C	7.90	119.52	111.07
1	H	400	ALA	N-CA-C	7.90	119.89	111.28
1	4	168	ALA	O-C-N	-7.90	114.11	123.27
1	x	328	ARG	N-CA-C	7.90	119.89	111.28
1	s	449	ARG	NE-CZ-NH2	7.89	126.30	119.20
1	u	488	ARG	NE-CZ-NH2	-7.89	112.09	119.20
1	C	348	THR	CA-C-N	7.89	131.20	120.54
1	C	348	THR	C-N-CA	7.89	131.20	120.54
1	Q	507	GLN	CA-C-N	7.89	130.70	120.44
1	Q	507	GLN	C-N-CA	7.89	130.70	120.44
1	f	313	ASN	OD1-CG-ND2	-7.89	114.71	122.60
1	p	298	LEU	O-C-N	-7.89	111.15	122.36
1	B	243	LEU	N-CA-C	7.89	120.65	111.02
1	W	576	GLN	N-CA-C	7.89	119.88	111.28
1	l	465	LEU	CA-C-N	7.89	130.85	120.28
1	l	465	LEU	C-N-CA	7.89	130.85	120.28
1	n	310	VAL	N-CA-C	7.89	120.91	111.05
1	u	642	ALA	CA-C-O	7.89	129.09	119.38
1	j	469	THR	CA-C-O	7.89	128.78	120.42
1	S	357	ARG	NE-CZ-NH2	7.89	126.30	119.20
1	g	674	ARG	N-CA-C	7.89	122.72	113.18
1	l	704	HIS	N-CA-C	7.89	119.88	111.28
1	o	703	ARG	CA-C-N	7.89	130.69	120.44
1	o	703	ARG	C-N-CA	7.89	130.69	120.44
1	S	688	LYS	CA-C-N	7.89	131.06	120.65
1	S	688	LYS	C-N-CA	7.89	131.06	120.65
1	6	318	LEU	CA-C-O	7.88	129.73	120.58
1	M	244	GLN	CA-C-N	7.88	131.62	120.42
1	M	244	GLN	C-N-CA	7.88	131.62	120.42
1	M	340	ALA	O-C-N	-7.88	113.95	122.07
1	q	557	LYS	N-CA-C	7.88	120.87	111.33
1	l	373	ARG	CA-C-N	7.88	131.48	120.29
1	l	373	ARG	C-N-CA	7.88	131.48	120.29
1	Y	351	GLN	OE1-CD-NE2	-7.88	114.72	122.60
1	3	537	LYS	CA-C-O	7.88	128.90	120.55
1	j	649	ILE	O-C-N	-7.88	114.19	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	k	215	SER	N-CA-CB	7.88	119.40	111.29
1	k	558	VAL	N-CA-CB	7.88	121.25	110.54
1	e	472	VAL	CA-C-N	7.88	130.84	120.28
1	e	472	VAL	C-N-CA	7.88	130.84	120.28
1	f	255	ARG	N-CA-CB	7.88	121.62	110.04
1	g	475	ILE	N-CA-C	7.88	118.68	110.72
1	y	418	LYS	N-CA-C	7.88	119.87	111.28
1	W	462	VAL	CA-C-N	7.88	128.72	119.98
1	W	462	VAL	C-N-CA	7.88	128.72	119.98
1	6	229	ILE	N-CA-CB	7.88	119.89	111.46
1	g	193	ALA	O-C-N	-7.88	113.17	122.15
1	I	300	ASP	CA-CB-CG	7.88	120.47	112.60
1	O	220	ASP	CA-CB-CG	-7.88	104.72	112.60
1	R	185	GLN	CA-C-N	7.88	131.25	120.46
1	R	185	GLN	C-N-CA	7.88	131.25	120.46
1	7	405	ARG	NE-CZ-NH1	7.87	129.37	121.50
1	g	557	LYS	N-CA-C	7.87	119.49	111.07
1	k	552	THR	CA-C-N	7.87	131.25	120.46
1	k	552	THR	C-N-CA	7.87	131.25	120.46
1	z	655	ARG	NH1-CZ-NH2	-7.87	109.06	119.30
1	A	355	TYR	N-CA-C	7.87	119.94	111.36
1	c	381	HIS	ND1-CE1-NE2	7.87	116.27	108.40
1	d	513	VAL	CA-C-N	7.87	129.54	119.78
1	d	513	VAL	C-N-CA	7.87	129.54	119.78
1	v	214	THR	N-CA-CB	7.87	122.93	110.57
1	z	143	LEU	CA-C-N	7.87	127.93	119.90
1	z	143	LEU	C-N-CA	7.87	127.93	119.90
1	X	331	GLN	O-C-N	-7.87	113.29	122.89
1	d	94	GLU	N-CA-C	7.87	119.49	111.07
1	Z	506	HIS	CE1-NE2-CD2	-7.87	101.13	109.00
1	f	513	VAL	N-CA-C	7.87	117.97	110.42
1	F	517	LEU	O-C-N	-7.87	113.18	122.15
1	J	516	ALA	O-C-N	-7.87	113.18	122.15
1	X	544	ASN	CA-CB-CG	-7.87	104.73	112.60
1	7	652	PHE	N-CA-C	7.86	119.93	111.36
1	d	94	GLU	CA-C-O	7.86	129.08	120.82
1	h	700	THR	CA-C-N	7.86	130.82	120.28
1	h	700	THR	C-N-CA	7.86	130.82	120.28
1	Y	296	PRO	CA-C-N	7.86	131.86	120.38
1	Y	296	PRO	C-N-CA	7.86	131.86	120.38
1	0	665	MET	CA-C-O	7.86	129.05	119.38
1	8	338	SER	CA-C-O	7.86	130.52	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	589	LEU	N-CA-C	7.86	119.85	111.28
1	U	224	ILE	O-C-N	-7.86	114.31	123.03
1	0	401	THR	N-CA-C	7.86	119.84	111.28
1	3	244	GLN	O-C-N	-7.86	113.98	122.07
1	c	528	GLN	N-CA-C	7.86	120.54	111.11
1	y	244	GLN	OE1-CD-NE2	-7.86	114.74	122.60
1	G	562	ALA	N-CA-C	7.86	119.48	111.07
1	T	338	SER	O-C-N	-7.86	112.76	122.82
1	3	677	TRP	O-C-N	-7.86	113.79	122.12
1	5	306	SER	N-CA-C	7.86	119.47	111.07
1	B	655	ARG	NE-CZ-NH1	7.86	129.36	121.50
1	D	468	ASN	CA-CB-CG	-7.86	104.75	112.60
1	9	239	ARG	O-C-N	-7.85	110.44	123.00
1	O	202	ARG	NE-CZ-NH2	-7.85	112.13	119.20
1	S	481	GLU	CA-C-N	7.85	131.44	120.29
1	S	481	GLU	C-N-CA	7.85	131.44	120.29
1	7	339	LEU	O-C-N	-7.85	113.80	122.12
1	f	664	ALA	O-C-N	-7.85	113.25	122.20
1	e	411	ILE	O-C-N	-7.85	112.15	121.10
1	p	123	VAL	N-CA-CB	7.85	119.09	110.53
1	p	556	ILE	O-C-N	-7.85	114.22	121.91
1	t	241	ILE	N-CA-C	7.85	118.60	110.36
1	P	384	LYS	N-CA-C	7.85	120.74	111.71
1	P	684	GLU	N-CA-C	7.85	119.47	111.07
1	i	108	ARG	NE-CZ-NH1	7.85	129.35	121.50
1	v	503	ILE	N-CA-C	7.85	118.62	110.62
1	P	108	ARG	CA-C-N	7.85	130.64	120.44
1	P	108	ARG	C-N-CA	7.85	130.64	120.44
1	j	556	ILE	CB-CA-C	-7.84	101.76	112.04
1	t	697	TYR	N-CA-C	7.84	119.46	111.07
1	C	405	ARG	NE-CZ-NH2	-7.84	112.14	119.20
1	X	644	GLN	N-CA-C	7.84	119.91	111.36
1	0	279	ALA	CA-C-N	7.84	131.43	120.29
1	0	279	ALA	C-N-CA	7.84	131.43	120.29
1	8	98	ARG	NE-CZ-NH2	-7.84	112.14	119.20
1	l	540	GLY	O-C-N	-7.84	114.66	122.19
1	3	105	ASP	CA-CB-CG	7.84	120.44	112.60
1	c	405	ARG	NE-CZ-NH1	7.84	129.34	121.50
1	m	577	MET	CB-CA-C	7.84	122.62	109.84
1	G	543	PHE	CA-CB-CG	7.84	121.64	113.80
1	K	97	VAL	CA-C-N	7.84	129.89	120.09
1	K	97	VAL	C-N-CA	7.84	129.89	120.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	j	462	VAL	O-C-N	-7.84	113.95	121.87
1	p	460	ASN	CA-CB-CG	-7.84	104.76	112.60
1	v	533	ASN	O-C-N	-7.84	113.94	122.09
1	w	94	GLU	O-C-N	-7.84	113.69	122.08
1	D	196	VAL	O-C-N	-7.84	114.23	121.91
1	Y	385	SER	N-CA-C	7.84	122.88	113.16
1	b	300	ASP	CA-CB-CG	7.84	120.44	112.60
1	f	497	ASN	CA-CB-CG	-7.84	104.76	112.60
1	f	577	MET	O-C-N	-7.84	113.09	122.96
1	A	657	ASN	N-CA-C	7.84	119.45	111.07
1	O	544	ASN	CA-CB-CG	-7.84	104.76	112.60
1	X	690	ARG	CA-C-N	7.84	130.71	120.60
1	X	690	ARG	C-N-CA	7.84	130.71	120.60
1	k	684	GLU	CA-C-O	7.83	129.05	120.82
1	a	301	ARG	NE-CZ-NH1	7.83	129.33	121.50
1	g	655	ARG	NE-CZ-NH1	-7.83	113.67	121.50
1	r	279	ALA	N-CA-C	7.83	119.82	111.28
1	y	497	ASN	CA-CB-CG	7.83	120.43	112.60
1	A	517	LEU	O-C-N	-7.83	113.82	122.12
1	F	501	PHE	N-CA-C	7.83	119.82	111.28
1	V	461	TRP	N-CA-C	7.83	119.82	111.28
1	p	355	TYR	N-CA-C	7.83	120.81	111.33
1	R	460	ASN	CA-CB-CG	-7.83	104.77	112.60
1	C	336	ARG	NE-CZ-NH2	-7.83	112.15	119.20
1	c	542	PHE	CA-CB-CG	-7.83	105.97	113.80
1	u	497	ASN	O-C-N	-7.83	114.30	123.22
1	K	497	ASN	N-CA-C	7.83	121.01	108.41
1	L	499	LYS	N-CA-C	7.83	119.81	111.28
1	s	473	LYS	N-CA-C	7.83	119.44	111.07
1	Q	375	THR	N-CA-C	7.83	120.50	111.11
1	2	629	HIS	CE1-NE2-CD2	-7.83	101.17	109.00
1	7	629	HIS	CG-CD2-NE2	7.82	115.02	107.20
1	V	644	GLN	N-CA-C	7.82	119.81	111.28
1	g	487	TYR	N-CA-C	7.82	120.79	111.33
1	p	537	LYS	N-CA-C	7.82	119.44	111.07
1	x	680	GLN	OE1-CD-NE2	-7.82	114.78	122.60
1	R	680	GLN	N-CA-C	7.82	121.61	109.96
1	F	397	HIS	CE1-NE2-CD2	-7.82	101.18	109.00
1	6	312	ARG	NE-CZ-NH1	7.82	129.32	121.50
1	b	704	HIS	CA-CB-CG	7.82	121.62	113.80
1	K	253	ILE	CA-C-N	7.82	131.09	120.38
1	K	253	ILE	C-N-CA	7.82	131.09	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	543	PHE	O-C-N	-7.82	114.02	122.07
1	m	175	ASN	CA-CB-CG	-7.82	104.78	112.60
1	l	687	THR	N-CA-C	7.81	119.88	111.36
1	s	534	VAL	N-CA-C	7.81	118.61	110.72
1	J	166	ALA	N-CA-C	7.81	121.74	110.10
1	W	527	ILE	N-CA-C	7.81	118.56	110.36
1	d	538	HIS	CA-C-O	7.81	128.75	120.70
1	9	507	GLN	N-CA-C	7.81	119.79	111.28
1	a	488	ARG	NE-CZ-NH1	7.81	129.31	121.50
1	O	543	PHE	N-CA-CB	-7.81	98.69	110.01
1	P	623	PHE	CA-CB-CG	-7.81	105.99	113.80
1	p	288	ARG	NE-CZ-NH1	7.81	129.31	121.50
1	l	667	GLN	OE1-CD-NE2	-7.81	114.79	122.60
1	r	215	SER	O-C-N	-7.80	114.91	121.54
1	I	704	HIS	CE1-NE2-CD2	-7.80	101.20	109.00
1	4	150	VAL	CA-C-N	7.80	131.90	120.90
1	4	150	VAL	C-N-CA	7.80	131.90	120.90
1	o	206	HIS	CA-C-N	7.80	132.66	121.50
1	o	206	HIS	C-N-CA	7.80	132.66	121.50
1	Z	363	GLY	O-C-N	-7.80	112.56	122.70
1	l	231	ARG	CA-C-N	7.80	130.96	120.50
1	l	231	ARG	C-N-CA	7.80	130.96	120.50
1	o	503	ILE	N-CA-C	7.80	117.91	110.42
1	t	661	LEU	CA-C-N	7.80	130.58	120.44
1	t	661	LEU	C-N-CA	7.80	130.58	120.44
1	x	239	ARG	NH1-CZ-NH2	-7.80	109.16	119.30
1	A	573	ARG	CD-NE-CZ	-7.80	113.48	124.40
1	S	338	SER	N-CA-C	7.80	120.38	110.24
1	U	343	THR	CA-C-N	7.80	131.07	120.38
1	U	343	THR	C-N-CA	7.80	131.07	120.38
1	c	638	SER	CB-CA-C	-7.80	97.84	110.79
1	J	349	PHE	CA-C-N	7.80	130.73	120.28
1	J	349	PHE	C-N-CA	7.80	130.73	120.28
1	Q	357	ARG	N-CA-C	7.80	120.77	111.33
1	9	452	ASN	CA-C-N	7.80	131.04	120.44
1	9	452	ASN	C-N-CA	7.80	131.04	120.44
1	x	190	ILE	O-C-N	-7.80	113.80	121.83
1	Z	200	ASN	CA-CB-CG	-7.80	104.80	112.60
1	d	710	SER	CA-C-N	7.79	135.73	121.70
1	d	710	SER	C-N-CA	7.79	135.73	121.70
1	J	349	PHE	CA-C-O	7.79	129.64	121.07
1	m	381	HIS	CA-CB-CG	-7.79	106.01	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	v	444	ARG	NE-CZ-NH1	7.79	129.29	121.50
1	H	215	SER	CA-C-O	-7.79	111.62	120.03
1	J	446	ASN	CA-CB-CG	7.79	120.39	112.60
1	b	369	ARG	NE-CZ-NH2	-7.79	112.19	119.20
1	C	392	GLN	O-C-N	-7.79	113.99	122.09
1	l	537	LYS	O-C-N	-7.79	113.86	122.12
1	e	686	ALA	CA-C-N	7.79	132.15	120.31
1	e	686	ALA	C-N-CA	7.79	132.15	120.31
1	j	474	ASN	CA-C-O	7.79	128.81	120.55
1	N	686	ALA	CA-C-N	7.79	130.72	120.28
1	N	686	ALA	C-N-CA	7.79	130.72	120.28
1	U	225	ASP	CA-CB-CG	-7.79	104.81	112.60
1	8	487	TYR	N-CA-C	7.79	119.77	111.28
1	e	704	HIS	CA-CB-CG	7.79	121.59	113.80
1	h	640	ARG	NE-CZ-NH1	7.78	129.28	121.50
1	C	539	PHE	N-CA-C	7.78	122.53	112.26
1	L	538	HIS	CE1-NE2-CD2	-7.78	101.22	109.00
1	z	353	HIS	N-CA-C	7.78	119.45	109.72
1	G	252	TYR	CA-CB-CG	-7.78	99.89	113.90
1	7	167	TRP	CB-CG-CD2	7.78	137.69	126.80
1	a	105	ASP	CA-C-N	7.78	130.55	120.44
1	a	105	ASP	C-N-CA	7.78	130.55	120.44
1	B	326	LYS	CA-C-O	7.78	130.04	121.56
1	l	592	VAL	CA-C-N	7.78	130.55	120.44
1	l	592	VAL	C-N-CA	7.78	130.55	120.44
1	S	506	HIS	CA-CB-CG	7.78	121.58	113.80
1	G	523	ALA	N-CA-C	7.78	119.84	111.36
1	P	398	GLN	N-CA-C	7.78	119.76	111.28
1	7	423	ILE	N-CA-C	7.78	119.48	110.62
1	c	429	PHE	CB-CA-C	7.78	123.09	110.88
1	e	456	GLU	N-CA-C	7.78	119.76	111.28
1	L	662	GLN	N-CA-C	7.78	120.84	111.82
1	6	214	THR	O-C-N	-7.77	113.88	123.36
1	t	534	VAL	CA-C-N	7.77	130.55	120.44
1	t	534	VAL	C-N-CA	7.77	130.55	120.44
1	F	283	ASP	CA-CB-CG	7.77	120.37	112.60
1	I	583	GLN	CB-CG-CD	7.77	125.81	112.60
1	J	468	ASN	N-CA-C	7.77	119.83	111.36
1	7	516	ALA	CA-C-N	7.77	130.69	120.28
1	7	516	ALA	C-N-CA	7.77	130.69	120.28
1	e	309	ASN	CA-CB-CG	-7.77	104.83	112.60
1	B	425	LYS	N-CA-C	7.77	119.75	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	182	ASP	CA-C-N	7.77	127.41	119.56
1	U	182	ASP	C-N-CA	7.77	127.41	119.56
1	2	195	ASN	OD1-CG-ND2	-7.77	114.83	122.60
1	9	97	VAL	N-CA-C	7.77	118.57	110.72
1	u	433	ILE	N-CA-C	7.77	118.52	110.36
1	C	188	LYS	CA-C-N	7.77	130.69	120.28
1	C	188	LYS	C-N-CA	7.77	130.69	120.28
1	F	164	CYS	CA-C-N	7.77	132.16	121.05
1	F	164	CYS	C-N-CA	7.77	132.16	121.05
1	e	631	ASN	CA-C-N	7.77	130.54	120.44
1	e	631	ASN	C-N-CA	7.77	130.54	120.44
1	B	256	GLN	N-CA-C	7.77	120.83	111.82
1	O	150	VAL	O-C-N	-7.77	113.26	122.58
1	Q	662	GLN	N-CA-C	7.77	119.75	111.28
1	A	334	THR	O-C-N	-7.77	114.01	122.09
1	O	703	ARG	NE-CZ-NH1	7.77	129.27	121.50
1	g	545	LEU	N-CA-C	7.76	119.82	111.36
1	E	269	ASP	CA-C-N	7.76	130.34	120.56
1	E	269	ASP	C-N-CA	7.76	130.34	120.56
1	T	514	GLU	CB-CG-CD	7.76	125.80	112.60
1	7	376	THR	N-CA-C	7.76	119.37	111.07
1	p	309	ASN	N-CA-CB	-7.76	98.76	110.01
1	p	640	ARG	N-CA-C	7.76	119.74	111.28
1	U	538	HIS	CE1-NE2-CD2	-7.76	101.24	109.00
1	V	698	ARG	NE-CZ-NH2	-7.76	112.22	119.20
1	u	576	GLN	N-CA-C	7.76	119.74	111.28
1	u	693	LYS	N-CA-C	7.76	119.37	111.07
1	w	189	GLU	O-C-N	-7.76	112.14	122.23
1	S	330	GLN	N-CA-C	7.76	119.82	111.36
1	W	545	LEU	N-CA-C	7.76	119.82	111.36
1	F	422	LEU	N-CA-C	7.76	120.72	111.33
1	1	691	ILE	O-C-N	-7.76	113.83	121.90
1	B	95	GLN	N-CA-C	7.76	119.37	111.07
1	b	531	PHE	CA-C-N	7.75	131.09	120.46
1	b	531	PHE	C-N-CA	7.75	131.09	120.46
1	J	630	LEU	N-CA-C	7.75	119.73	111.28
1	0	383	GLN	N-CA-C	7.75	119.73	111.28
1	2	353	HIS	O-C-N	7.75	128.95	121.66
1	4	507	GLN	OE1-CD-NE2	-7.75	114.85	122.60
1	n	540	GLY	CA-C-N	7.75	131.30	120.29
1	n	540	GLY	C-N-CA	7.75	131.30	120.29
1	H	318	LEU	N-CA-CB	7.75	121.37	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	0	553	ILE	N-CA-C	7.75	118.53	110.62
1	r	501	PHE	CA-CB-CG	7.75	121.55	113.80
1	Q	506	HIS	CG-CD2-NE2	7.75	114.95	107.20
1	Z	115	ASP	CA-CB-CG	7.75	120.35	112.60
1	Z	573	ARG	CA-C-N	7.75	131.30	120.29
1	Z	573	ARG	C-N-CA	7.75	131.30	120.29
1	2	140	GLY	CA-C-O	-7.75	110.99	119.59
1	u	638	SER	N-CA-C	7.75	119.73	111.28
1	4	558	VAL	N-CA-CB	7.75	119.62	110.55
1	n	485	LYS	CA-C-O	-7.75	112.68	120.82
1	u	640	ARG	CA-C-N	7.75	130.66	120.28
1	u	640	ARG	C-N-CA	7.75	130.66	120.28
1	s	288	ARG	NE-CZ-NH1	7.75	129.25	121.50
1	A	625	GLU	N-CA-C	7.75	119.81	111.36
1	Z	628	ILE	N-CA-C	7.75	118.52	110.62
1	z	452	ASN	N-CA-C	7.75	122.55	113.18
1	6	179	GLU	CA-C-O	-7.74	113.12	121.56
1	d	704	HIS	CA-CB-CG	7.74	121.54	113.80
1	f	700	THR	N-CA-CB	7.74	122.28	110.28
1	o	583	GLN	O-C-N	-7.74	112.83	122.35
1	B	394	ARG	NE-CZ-NH2	-7.74	112.23	119.20
1	R	499	LYS	CA-C-N	7.74	130.66	120.28
1	R	499	LYS	C-N-CA	7.74	130.66	120.28
1	4	629	HIS	CA-C-N	7.74	132.07	120.31
1	4	629	HIS	C-N-CA	7.74	132.07	120.31
1	h	411	ILE	CA-C-N	7.74	128.20	119.92
1	h	411	ILE	C-N-CA	7.74	128.20	119.92
1	y	193	ALA	O-C-N	-7.74	114.10	122.07
1	y	410	ASP	CA-CB-CG	7.74	120.34	112.60
1	Y	397	HIS	N-CA-C	7.74	119.72	111.28
1	1	182	ASP	O-C-N	-7.74	114.50	121.39
1	4	149	ILE	CA-C-N	7.74	130.78	122.11
1	4	149	ILE	C-N-CA	7.74	130.78	122.11
1	5	567	MET	N-CA-C	7.74	119.80	111.36
1	p	505	VAL	O-C-N	-7.74	114.33	121.91
1	x	459	LYS	N-CA-CB	-7.74	97.78	110.40
1	F	457	ASP	CA-CB-CG	-7.74	104.86	112.60
1	3	427	LYS	CA-C-N	7.74	130.96	120.44
1	3	427	LYS	C-N-CA	7.74	130.96	120.44
1	f	270	ILE	N-CA-C	7.74	119.44	110.62
1	m	702	ALA	CA-C-N	7.74	130.50	120.44
1	m	702	ALA	C-N-CA	7.74	130.50	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	470	GLN	OE1-CD-NE2	-7.74	114.86	122.60
1	l	645	ILE	N-CA-CB	7.74	115.37	110.50
1	x	480	VAL	N-CA-C	7.74	118.51	110.62
1	L	143	LEU	O-C-N	-7.74	112.42	121.32
1	X	330	GLN	CB-CG-CD	7.74	125.75	112.60
1	3	282	VAL	CA-C-O	-7.73	112.25	119.91
1	Y	105	ASP	CA-C-N	7.73	130.64	120.28
1	Y	105	ASP	C-N-CA	7.73	130.64	120.28
1	b	551	SER	N-CA-CB	7.73	121.48	110.12
1	f	346	GLU	N-CA-C	7.73	119.79	111.36
1	j	338	SER	O-C-N	-7.73	114.22	122.96
1	H	360	LEU	N-CA-C	-7.73	102.83	112.72
1	Q	397	HIS	CA-CB-CG	7.73	121.53	113.80
1	w	315	THR	CA-C-N	7.73	132.43	120.60
1	w	315	THR	C-N-CA	7.73	132.43	120.60
1	D	182	ASP	CA-CB-CG	7.73	120.33	112.60
1	K	684	GLU	CA-C-O	7.73	128.61	120.42
1	Y	444	ARG	N-CA-C	7.73	120.29	110.24
1	k	431	GLN	N-CA-C	7.72	119.70	111.28
1	m	206	HIS	CA-CB-CG	7.72	121.53	113.80
1	S	353	HIS	CE1-NE2-CD2	-7.72	101.28	109.00
1	m	189	GLU	O-C-N	-7.72	113.94	122.12
1	t	328	ARG	O-C-N	7.72	130.12	122.09
1	N	543	PHE	N-CA-C	7.72	120.38	111.11
1	0	237	GLN	N-CA-C	7.72	119.64	109.83
1	n	103	LEU	N-CA-C	7.72	119.33	111.07
1	U	280	HIS	CA-CB-CG	7.72	121.52	113.80
1	s	260	ASN	CB-CA-C	-7.72	98.07	110.81
1	w	469	THR	N-CA-C	-7.72	102.79	112.90
1	C	394	ARG	N-CA-C	7.72	119.69	111.28
1	P	389	LEU	CA-C-N	7.72	130.96	120.54
1	P	389	LEU	C-N-CA	7.72	130.96	120.54
1	5	130	GLY	O-C-N	-7.72	114.08	122.41
1	g	103	LEU	O-C-N	-7.72	113.82	122.08
1	w	145	ARG	NE-CZ-NH1	7.72	129.22	121.50
1	A	553	ILE	N-CA-C	7.72	118.49	110.62
1	g	448	THR	N-CA-C	7.72	122.39	110.20
1	f	479	GLU	N-CA-C	7.71	119.77	111.36
1	u	152	ARG	NE-CZ-NH1	7.71	129.22	121.50
1	D	315	THR	N-CA-C	7.71	119.32	111.07
1	Q	560	HIS	CG-CD2-NE2	7.71	114.91	107.20
1	e	311	VAL	CA-C-N	7.71	130.62	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	311	VAL	C-N-CA	7.71	130.62	120.28
1	r	385	SER	N-CA-CB	7.71	122.25	110.61
1	x	526	ILE	N-CA-C	7.71	118.46	110.36
1	y	698	ARG	NE-CZ-NH2	7.71	126.14	119.20
1	3	329	GLY	CA-C-N	7.71	131.38	120.28
1	3	329	GLY	C-N-CA	7.71	131.38	120.28
1	u	501	PHE	N-CA-CB	-7.71	98.75	110.16
1	Z	597	PHE	N-CA-C	7.71	120.36	111.11
1	3	457	ASP	CA-C-N	7.71	131.24	120.29
1	3	457	ASP	C-N-CA	7.71	131.24	120.29
1	y	182	ASP	N-CA-C	7.71	120.56	109.84
1	B	188	LYS	O-C-N	-7.71	112.79	122.27
1	J	269	ASP	CA-CB-CG	7.71	120.31	112.60
1	v	193	ALA	CA-C-N	7.71	130.46	120.44
1	v	193	ALA	C-N-CA	7.71	130.46	120.44
1	A	593	ARG	NH1-CZ-NH2	-7.71	109.28	119.30
1	C	533	ASN	N-CA-C	7.71	119.68	111.28
1	L	513	VAL	O-C-N	-7.71	114.23	121.94
1	N	190	ILE	N-CA-C	7.71	118.48	110.62
1	V	576	GLN	N-CA-C	7.71	120.66	111.33
1	b	330	GLN	OE1-CD-NE2	-7.71	114.89	122.60
1	O	145	ARG	NE-CZ-NH2	-7.71	112.27	119.20
1	5	391	GLY	N-CA-C	7.70	121.96	112.64
1	w	709	PHE	N-CA-C	7.70	119.76	111.36
1	B	698	ARG	N-CA-C	7.70	119.68	111.28
1	d	538	HIS	N-CA-C	7.70	119.46	111.14
1	K	488	ARG	CA-C-O	7.70	128.58	120.42
1	T	344	LYS	N-CA-C	7.70	119.67	111.28
1	m	244	GLN	O-C-N	-7.70	113.96	122.12
1	p	463	GLY	N-CA-C	7.70	122.63	112.77
1	x	688	LYS	N-CA-C	7.70	119.46	111.14
1	B	631	ASN	CA-CB-CG	7.70	120.30	112.60
1	D	394	ARG	CA-C-N	7.70	130.93	120.38
1	D	394	ARG	C-N-CA	7.70	130.93	120.38
1	O	652	PHE	CA-CB-CG	-7.70	106.10	113.80
1	a	521	GLN	CA-C-N	7.70	131.22	120.29
1	a	521	GLN	C-N-CA	7.70	131.22	120.29
1	v	704	HIS	ND1-CE1-NE2	7.70	116.10	108.40
1	E	497	ASN	CA-C-N	7.70	131.22	120.29
1	E	497	ASN	C-N-CA	7.70	131.22	120.29
1	W	272	THR	CA-C-N	7.70	135.29	121.97
1	W	272	THR	C-N-CA	7.70	135.29	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	361	GLU	N-CA-C	7.70	120.35	111.11
1	b	175	ASN	CA-CB-CG	7.70	120.30	112.60
1	f	235	ASP	N-CA-C	7.70	120.64	111.33
1	t	542	PHE	CA-CB-CG	-7.70	106.10	113.80
1	I	493	LEU	O-C-N	-7.70	113.75	122.91
1	9	182	ASP	CA-C-N	7.69	129.46	119.84
1	9	182	ASP	C-N-CA	7.69	129.46	119.84
1	g	684	GLU	N-CA-C	7.69	119.75	111.36
1	4	508	TYR	N-CA-C	7.69	119.30	111.07
1	c	472	VAL	CA-C-N	7.69	131.36	120.28
1	c	472	VAL	C-N-CA	7.69	131.36	120.28
1	f	243	LEU	CA-C-N	7.69	130.59	120.28
1	f	243	LEU	C-N-CA	7.69	130.59	120.28
1	m	279	ALA	N-CA-C	7.69	119.45	111.14
1	F	506	HIS	CA-CB-CG	7.69	121.49	113.80
1	T	397	HIS	ND1-CE1-NE2	7.69	116.09	108.40
1	X	270	ILE	CA-C-N	7.69	131.21	120.29
1	X	270	ILE	C-N-CA	7.69	131.21	120.29
1	3	338	SER	CA-C-O	-7.69	112.55	121.16
1	3	703	ARG	O-C-N	-7.69	113.97	122.12
1	6	506	HIS	CE1-NE2-CD2	-7.69	101.31	109.00
1	a	170	ARG	NE-CZ-NH2	-7.69	112.28	119.20
1	k	359	LEU	N-CA-C	7.69	119.30	111.07
1	E	316	TYR	CA-C-N	7.69	129.45	119.84
1	E	316	TYR	C-N-CA	7.69	129.45	119.84
1	P	483	TYR	CA-C-O	-7.69	112.40	120.55
1	V	488	ARG	CA-C-N	7.69	128.46	120.00
1	V	488	ARG	C-N-CA	7.69	128.46	120.00
1	W	398	GLN	N-CA-C	7.69	119.66	111.28
1	Z	675	TYR	N-CA-C	7.69	119.66	111.28
1	0	323	MET	N-CA-C	-7.69	97.69	109.14
1	s	505	VAL	N-CA-CB	7.69	121.00	110.54
1	Y	339	LEU	CA-C-O	7.69	128.84	119.38
1	W	518	SER	CA-C-N	7.69	130.58	120.28
1	W	518	SER	C-N-CA	7.69	130.58	120.28
1	g	250	LYS	CA-C-N	7.68	130.43	120.44
1	g	250	LYS	C-N-CA	7.68	130.43	120.44
1	q	287	ASP	N-CA-C	7.68	119.29	111.07
1	y	97	VAL	CA-C-N	7.68	129.70	120.09
1	y	97	VAL	C-N-CA	7.68	129.70	120.09
1	0	437	VAL	CB-CA-C	-7.68	102.05	111.88
1	M	279	ALA	CA-C-O	7.68	128.81	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	703	ARG	CA-C-N	7.68	130.90	120.38
1	6	703	ARG	C-N-CA	7.68	130.90	120.38
1	x	98	ARG	O-C-N	-7.68	113.49	120.71
1	k	546	ASN	CA-CB-CG	7.68	120.28	112.60
1	z	544	ASN	N-CA-C	7.68	119.65	111.28
1	I	547	GLN	N-CA-C	7.68	119.29	111.07
1	Y	663	LYS	N-CA-C	7.68	120.62	111.33
1	5	506	HIS	ND1-CE1-NE2	7.68	116.08	108.40
1	p	102	ASP	CA-CB-CG	-7.68	104.92	112.60
1	L	145	ARG	NH1-CZ-NH2	-7.68	109.32	119.30
1	5	506	HIS	CE1-NE2-CD2	-7.67	101.33	109.00
1	e	531	PHE	CA-C-N	7.67	131.32	120.42
1	e	531	PHE	C-N-CA	7.67	131.32	120.42
1	e	656	GLU	N-CA-C	7.67	119.64	111.28
1	X	645	ILE	N-CA-CB	7.67	115.33	110.50
1	0	242	GLY	CA-C-N	7.67	130.41	120.44
1	0	242	GLY	C-N-CA	7.67	130.41	120.44
1	m	670	GLN	OE1-CD-NE2	-7.67	114.93	122.60
1	n	478	GLU	N-CA-C	7.67	120.31	111.11
1	w	268	VAL	CA-C-N	7.67	132.37	121.02
1	w	268	VAL	C-N-CA	7.67	132.37	121.02
1	3	514	GLU	O-C-N	-7.67	113.50	120.71
1	v	566	ASN	OD1-CG-ND2	-7.67	114.93	122.60
1	C	655	ARG	O-C-N	-7.67	114.17	122.07
1	F	576	GLN	CA-C-O	7.67	128.68	120.55
1	Y	159	LEU	O-C-N	-7.67	114.60	123.27
1	Y	434	GLU	N-CA-C	7.67	119.64	111.28
1	1	248	LEU	N-CA-C	7.67	120.71	111.82
1	l	223	ILE	CA-C-O	7.67	128.79	120.43
1	y	286	GLY	CA-C-N	7.67	130.41	120.44
1	y	286	GLY	C-N-CA	7.67	130.41	120.44
1	N	239	ARG	CA-C-N	7.67	135.50	121.70
1	N	239	ARG	C-N-CA	7.67	135.50	121.70
1	7	647	PHE	N-CA-CB	7.67	121.12	110.01
1	5	498	TYR	CA-C-O	-7.66	111.44	120.10
1	b	584	ILE	CA-C-O	7.66	127.32	119.20
1	e	319	LYS	N-CA-C	-7.66	103.76	113.72
1	m	126	ASP	CA-CB-CG	7.66	120.26	112.60
1	q	300	ASP	CA-CB-CG	7.66	120.26	112.60
1	x	692	LEU	N-CA-C	7.66	119.63	111.28
1	z	598	ASN	CA-CB-CG	-7.66	104.94	112.60
1	L	163	PRO	CA-C-N	7.66	131.71	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	163	PRO	C-N-CA	7.66	131.71	120.90
1	J	350	PHE	CA-CB-CG	7.66	121.46	113.80
1	X	150	VAL	CA-C-N	7.66	133.44	121.26
1	X	150	VAL	C-N-CA	7.66	133.44	121.26
1	f	257	GLN	N-CA-C	-7.66	102.45	112.41
1	q	706	LEU	N-CA-C	7.66	119.63	111.28
1	v	624	THR	CA-C-N	7.66	130.54	120.28
1	v	624	THR	C-N-CA	7.66	130.54	120.28
1	D	695	ARG	N-CA-C	7.66	119.27	111.07
1	W	622	SER	CA-C-N	7.66	130.88	120.54
1	W	622	SER	C-N-CA	7.66	130.88	120.54
1	4	393	ILE	CA-C-O	7.66	129.29	121.17
1	6	641	LEU	N-CA-C	7.66	121.88	112.54
1	d	174	ARG	CA-C-O	7.66	128.55	119.28
1	q	644	GLN	CA-C-N	7.66	125.06	120.24
1	q	644	GLN	C-N-CA	7.66	125.06	120.24
1	Y	260	ASN	OD1-CG-ND2	-7.66	114.94	122.60
1	X	481	GLU	N-CA-C	7.66	119.63	111.28
1	g	576	GLN	CB-CA-C	7.66	123.86	110.85
1	l	329	GLY	CA-C-O	7.66	128.90	121.63
1	q	460	ASN	N-CA-C	7.66	119.62	111.28
1	F	124	ILE	N-CA-C	-7.66	97.45	108.48
1	5	376	THR	N-CA-C	7.65	119.62	111.28
1	w	644	GLN	N-CA-C	7.65	119.26	111.07
1	k	476	ILE	N-CA-CB	7.65	120.94	110.54
1	s	189	GLU	N-CA-C	7.65	120.69	111.82
1	c	149	ILE	CA-C-N	7.65	132.53	122.51
1	c	149	ILE	C-N-CA	7.65	132.53	122.51
1	k	634	PHE	N-CA-CB	7.65	121.10	110.01
1	A	450	LEU	N-CA-C	7.65	121.54	111.75
1	C	524	MET	O-C-N	-7.65	114.01	122.12
1	b	572	PHE	CA-C-O	7.65	128.66	120.55
1	o	283	ASP	CA-CB-CG	7.65	120.25	112.60
1	q	670	GLN	N-CA-C	7.65	119.61	111.28
1	u	563	LYS	N-CA-C	7.65	119.25	111.07
1	N	297	ASP	CA-CB-CG	7.65	120.25	112.60
1	Q	383	GLN	N-CA-C	7.65	120.50	111.71
1	Z	507	GLN	N-CA-CB	7.65	121.10	110.01
1	j	380	MET	N-CA-C	7.65	119.61	111.28
1	x	454	ILE	N-CA-C	7.65	118.42	110.62
1	C	706	LEU	N-CA-C	7.65	120.69	111.82
1	R	197	MET	CG-SD-CE	-7.65	84.08	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	219	PRO	N-CA-C	7.65	123.27	111.11
1	3	383	GLN	N-CA-C	7.64	120.50	111.71
1	u	234	VAL	CA-C-N	7.64	130.86	120.54
1	u	234	VAL	C-N-CA	7.64	130.86	120.54
1	u	660	SER	N-CA-C	7.64	119.61	111.28
1	w	336	ARG	NE-CZ-NH1	7.64	129.14	121.50
1	E	510	GLN	CA-C-O	7.64	128.78	119.38
1	H	233	ALA	CA-C-O	7.64	129.89	121.56
1	N	705	ALA	CA-C-N	7.64	130.53	120.28
1	N	705	ALA	C-N-CA	7.64	130.53	120.28
1	Q	286	GLY	CA-C-N	7.64	130.38	120.44
1	Q	286	GLY	C-N-CA	7.64	130.38	120.44
1	6	686	ALA	CB-CA-C	-7.64	98.88	110.88
1	8	659	ASP	CA-CB-CG	7.64	120.24	112.60
1	c	539	PHE	CA-C-N	7.64	128.63	119.99
1	c	539	PHE	C-N-CA	7.64	128.63	119.99
1	c	674	ARG	NH1-CZ-NH2	-7.64	109.36	119.30
1	p	576	GLN	N-CA-C	7.64	122.04	112.87
1	C	561	THR	CA-C-O	7.64	128.65	120.55
1	F	645	ILE	O-C-N	-7.64	115.53	120.42
1	j	174	ARG	NE-CZ-NH2	7.64	126.08	119.20
1	m	477	HIS	CE1-NE2-CD2	-7.64	101.36	109.00
1	t	543	PHE	CA-CB-CG	7.64	121.44	113.80
1	I	231	ARG	NE-CZ-NH2	-7.64	112.32	119.20
1	X	129	SER	CA-C-O	7.64	128.98	119.05
1	d	453	LYS	N-CA-C	7.64	119.61	111.28
1	Q	398	GLN	N-CA-C	7.64	119.24	111.07
1	6	180	LEU	CA-C-O	7.64	127.25	118.77
1	i	455	ARG	CA-C-N	7.64	130.84	120.38
1	i	455	ARG	C-N-CA	7.64	130.84	120.38
1	l	518	SER	CA-C-N	7.64	130.37	120.44
1	l	518	SER	C-N-CA	7.64	130.37	120.44
1	P	353	HIS	CA-CB-CG	-7.64	106.16	113.80
1	P	264	VAL	O-C-N	-7.63	112.40	121.10
1	0	353	HIS	O-C-N	-7.63	114.86	121.35
1	k	488	ARG	CA-C-N	7.63	128.62	119.99
1	k	488	ARG	C-N-CA	7.63	128.62	119.99
1	1	268	VAL	CA-C-N	7.63	131.63	120.95
1	1	268	VAL	C-N-CA	7.63	131.63	120.95
1	2	147	SER	CB-CA-C	-7.63	101.83	111.22
1	2	534	VAL	O-C-N	7.63	129.39	121.91
1	l	108	ARG	CA-C-N	7.63	130.36	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	l	108	ARG	C-N-CA	7.63	130.36	120.44
1	n	527	ILE	CA-C-N	7.63	130.84	120.54
1	n	527	ILE	C-N-CA	7.63	130.84	120.54
1	R	569	GLN	N-CA-C	7.63	119.60	111.28
1	b	655	ARG	N-CA-C	7.63	119.23	111.07
1	j	393	ILE	CB-CA-C	7.63	121.47	111.70
1	3	355	TYR	N-CA-C	7.63	120.56	111.33
1	b	381	HIS	CE1-NE2-CD2	-7.63	101.37	109.00
1	n	375	THR	N-CA-C	7.63	119.67	111.36
1	C	704	HIS	CA-CB-CG	7.63	121.43	113.80
1	R	153	CYS	CA-C-O	-7.63	114.07	120.71
1	f	98	ARG	O-C-N	-7.63	113.69	120.48
1	i	448	THR	O-C-N	-7.63	113.31	123.23
1	0	98	ARG	NE-CZ-NH1	7.62	129.12	121.50
1	A	495	PHE	CA-CB-CG	-7.62	106.17	113.80
1	W	282	VAL	CA-C-N	7.62	130.24	122.00
1	W	282	VAL	C-N-CA	7.62	130.24	122.00
1	2	573	ARG	N-CA-C	7.62	119.59	111.28
1	r	374	LEU	N-CA-C	7.62	119.23	111.07
1	E	695	ARG	NE-CZ-NH2	7.62	126.06	119.20
1	F	443	VAL	O-C-N	-7.62	114.50	122.66
1	5	669	LEU	CA-C-N	7.62	131.89	120.31
1	5	669	LEU	C-N-CA	7.62	131.89	120.31
1	j	641	LEU	CA-C-N	7.62	130.49	120.28
1	j	641	LEU	C-N-CA	7.62	130.49	120.28
1	l	516	ALA	CA-C-N	7.62	130.49	120.28
1	l	516	ALA	C-N-CA	7.62	130.49	120.28
1	q	128	SER	N-CA-C	7.62	120.66	111.82
1	C	527	ILE	N-CA-CB	7.62	119.47	110.55
1	V	325	VAL	O-C-N	-7.62	115.18	123.18
1	3	266	CYS	N-CA-C	7.62	119.58	111.28
1	8	499	LYS	CB-CA-C	7.62	122.84	110.88
1	W	215	SER	O-C-N	-7.62	115.06	121.54
1	5	330	GLN	CA-C-N	7.62	132.21	121.24
1	5	330	GLN	C-N-CA	7.62	132.21	121.24
1	v	455	ARG	NE-CZ-NH1	7.62	129.12	121.50
1	K	473	LYS	CA-C-N	7.62	130.34	120.44
1	K	473	LYS	C-N-CA	7.62	130.34	120.44
1	N	303	THR	CA-CB-OG1	7.62	121.03	109.60
1	b	307	VAL	N-CA-C	7.62	118.15	110.23
1	b	449	ARG	CA-C-N	7.62	130.34	120.44
1	b	449	ARG	C-N-CA	7.62	130.34	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	p	455	ARG	NE-CZ-NH1	7.62	129.12	121.50
1	w	292	ILE	N-CA-C	7.62	118.35	110.05
1	L	186	VAL	N-CA-C	7.62	118.39	110.62
1	M	682	GLN	CA-C-N	7.62	130.81	120.38
1	M	682	GLN	C-N-CA	7.62	130.81	120.38
1	r	312	ARG	N-CA-C	7.61	120.25	111.11
1	u	357	ARG	NE-CZ-NH2	-7.61	112.35	119.20
1	M	187	GLU	CA-C-N	7.61	130.48	120.28
1	M	187	GLU	C-N-CA	7.61	130.48	120.28
1	O	645	ILE	N-CA-CB	7.61	116.39	110.45
1	Y	461	TRP	N-CA-C	7.61	120.54	111.33
1	4	547	GLN	OE1-CD-NE2	-7.61	114.99	122.60
1	e	538	HIS	CA-C-O	7.61	128.18	119.27
1	B	631	ASN	N-CA-C	7.61	119.58	111.28
1	6	704	HIS	ND1-CE1-NE2	7.61	116.01	108.40
1	g	597	PHE	N-CA-C	7.61	119.58	111.28
1	D	469	THR	O-C-N	-7.61	114.23	122.07
1	G	486	GLN	CA-C-N	7.61	130.81	120.38
1	G	486	GLN	C-N-CA	7.61	130.81	120.38
1	S	474	ASN	OD1-CG-ND2	-7.61	114.99	122.60
1	S	570	LEU	N-CA-C	7.61	119.58	111.28
1	V	453	LYS	O-C-N	-7.61	114.05	122.12
1	A	156	VAL	N-CA-CB	7.61	119.67	111.00
1	A	680	GLN	OE1-CD-NE2	-7.61	114.99	122.60
1	Q	564	ALA	N-CA-C	7.61	120.24	111.11
1	1	127	GLN	N-CA-C	7.61	120.24	111.11
1	I	382	ILE	N-CA-C	7.61	117.72	110.42
1	O	379	ILE	N-CA-C	7.61	118.38	110.62
1	0	586	SER	N-CA-C	7.60	120.64	111.82
1	1	279	ALA	CA-C-N	7.60	131.23	120.28
1	1	279	ALA	C-N-CA	7.60	131.23	120.28
1	d	189	GLU	N-CA-C	7.60	119.65	111.36
1	O	644	GLN	CA-C-N	7.60	126.41	120.33
1	O	644	GLN	C-N-CA	7.60	126.41	120.33
1	0	629	HIS	CE1-NE2-CD2	-7.60	101.40	109.00
1	7	622	SER	CA-C-N	7.60	130.78	120.44
1	7	622	SER	C-N-CA	7.60	130.78	120.44
1	m	286	GLY	CA-C-N	7.60	130.32	120.44
1	m	286	GLY	C-N-CA	7.60	130.32	120.44
1	n	460	ASN	CA-C-N	7.60	130.47	120.28
1	n	460	ASN	C-N-CA	7.60	130.47	120.28
1	W	509	ILE	N-CA-C	7.60	118.40	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	d	709	PHE	N-CA-C	7.60	120.45	111.71
1	l	707	CYS	N-CA-C	7.60	119.57	111.28
1	B	660	SER	O-C-N	-7.60	114.06	122.12
1	1	448	THR	CA-CB-OG1	7.60	121.00	109.60
1	3	506	HIS	O-C-N	-7.60	114.19	122.09
1	g	589	LEU	N-CA-C	7.60	120.23	111.11
1	q	397	HIS	CA-CB-CG	7.60	121.40	113.80
1	N	115	ASP	CA-CB-CG	7.60	120.20	112.60
1	P	583	GLN	N-CA-C	7.60	126.98	110.80
1	7	211	LEU	O-C-N	-7.60	113.56	123.13
1	G	397	HIS	CA-CB-CG	7.60	121.40	113.80
1	G	667	GLN	N-CA-C	7.60	120.63	111.82
1	Q	468	ASN	CA-CB-CG	-7.60	105.00	112.60
1	N	506	HIS	CE1-NE2-CD2	-7.60	101.40	109.00
1	2	660	SER	N-CA-C	7.59	119.56	111.28
1	E	486	GLN	CA-C-N	7.59	130.46	120.28
1	E	486	GLN	C-N-CA	7.59	130.46	120.28
1	R	182	ASP	CA-C-O	-7.59	112.61	119.75
1	h	316	TYR	CA-C-N	7.59	129.33	119.84
1	h	316	TYR	C-N-CA	7.59	129.33	119.84
1	v	555	ASP	N-CA-CB	-7.59	98.96	110.12
1	P	174	ARG	NH1-CZ-NH2	-7.59	109.43	119.30
1	9	476	ILE	N-CA-C	7.59	117.71	110.42
1	a	137	ALA	CA-C-O	7.59	128.72	119.31
1	f	185	GLN	CA-C-N	7.59	130.13	120.56
1	f	185	GLN	C-N-CA	7.59	130.13	120.56
1	s	134	VAL	O-C-N	-7.59	114.51	121.87
1	t	494	GLY	O-C-N	-7.59	116.79	122.71
1	A	541	GLU	N-CA-CB	-7.59	98.96	110.12
1	J	279	ALA	N-CA-C	7.59	119.56	111.28
1	N	557	LYS	N-CA-C	7.59	119.56	111.28
1	e	377	GLU	O-C-N	-7.59	114.08	122.12
1	M	374	LEU	N-CA-C	7.59	119.19	111.07
1	9	272	THR	O-C-N	-7.59	113.34	122.22
1	j	307	VAL	CA-C-N	7.59	130.45	120.28
1	j	307	VAL	C-N-CA	7.59	130.45	120.28
1	n	694	GLU	O-C-N	-7.59	114.20	122.09
1	o	477	HIS	N-CA-C	7.59	119.19	111.07
1	D	119	PRO	CA-C-N	7.59	136.03	121.54
1	D	119	PRO	C-N-CA	7.59	136.03	121.54
1	G	98	ARG	N-CA-C	7.59	123.94	113.16
1	B	536	LYS	O-C-N	7.59	129.88	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	145	ARG	N-CA-C	7.59	120.62	111.82
1	f	539	PHE	CA-C-O	7.58	128.34	119.32
1	u	134	VAL	O-C-N	-7.58	114.48	121.91
1	F	191	HIS	CA-CB-CG	7.58	121.38	113.80
1	k	186	VAL	CA-C-N	7.58	130.44	120.28
1	k	186	VAL	C-N-CA	7.58	130.44	120.28
1	q	703	ARG	NE-CZ-NH2	-7.58	112.38	119.20
1	2	591	LYS	CA-C-N	7.58	130.84	120.46
1	2	591	LYS	C-N-CA	7.58	130.84	120.46
1	c	200	ASN	N-CA-CB	7.58	123.30	110.49
1	e	593	ARG	N-CA-C	7.58	119.54	111.28
1	k	598	ASN	CA-CB-CG	-7.58	105.02	112.60
1	q	123	VAL	CB-CA-C	-7.58	100.53	110.84
1	K	265	PRO	CA-C-O	-7.58	112.94	121.43
1	e	635	LEU	N-CA-C	7.58	119.54	111.28
1	k	400	ALA	N-CA-C	7.58	119.18	111.07
1	y	150	VAL	N-CA-C	7.58	119.23	108.17
1	J	546	ASN	CA-CB-CG	-7.58	105.02	112.60
1	9	538	HIS	CA-CB-CG	7.58	121.38	113.80
1	n	228	GLY	O-C-N	-7.58	112.85	122.70
1	o	484	GLU	N-CA-C	7.58	119.54	111.28
1	A	521	GLN	OE1-CD-NE2	-7.58	115.02	122.60
1	C	350	PHE	CA-CB-CG	-7.58	106.22	113.80
1	4	308	MET	CG-SD-CE	-7.57	84.24	100.90
1	5	484	GLU	N-CA-CB	-7.57	99.40	110.53
1	d	640	ARG	NE-CZ-NH2	-7.57	112.38	119.20
1	u	690	ARG	NE-CZ-NH1	7.57	129.07	121.50
1	x	164	CYS	N-CA-C	7.57	120.95	110.35
1	C	555	ASP	CA-CB-CG	7.57	120.17	112.60
1	E	98	ARG	NE-CZ-NH2	-7.57	112.38	119.20
1	E	644	GLN	N-CA-C	7.57	120.49	111.33
1	b	647	PHE	CA-CB-CG	-7.57	106.23	113.80
1	f	202	ARG	CA-C-N	7.57	129.09	120.53
1	f	202	ARG	C-N-CA	7.57	129.09	120.53
1	F	309	ASN	CA-CB-CG	7.57	120.17	112.60
1	6	425	LYS	N-CA-C	7.57	119.53	111.28
1	b	381	HIS	O-C-N	-7.57	114.10	122.12
1	i	682	GLN	CA-C-N	7.57	131.18	120.28
1	i	682	GLN	C-N-CA	7.57	131.18	120.28
1	r	573	ARG	NE-CZ-NH1	7.57	129.07	121.50
1	w	453	LYS	N-CA-C	7.57	119.61	111.36
1	B	459	LYS	CA-C-N	7.57	130.42	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	459	LYS	C-N-CA	7.57	130.42	120.28
1	a	312	ARG	NH1-CZ-NH2	7.57	129.14	119.30
1	h	231	ARG	N-CA-CB	7.57	123.28	110.49
1	x	239	ARG	O-C-N	-7.57	110.89	123.00
1	O	491	GLU	CA-C-O	7.57	128.90	119.59
1	O	527	ILE	O-C-N	-7.57	114.03	121.90
1	0	124	ILE	O-C-N	-7.57	115.42	123.14
1	u	98	ARG	CA-C-O	-7.57	111.89	119.08
1	v	461	TRP	CA-C-O	7.57	128.76	120.82
1	W	510	GLN	O-C-N	-7.57	114.10	122.12
1	8	275	ALA	CA-C-N	7.56	131.03	120.29
1	8	275	ALA	C-N-CA	7.56	131.03	120.29
1	7	629	HIS	CA-CB-CG	-7.56	106.24	113.80
1	c	627	GLY	O-C-N	-7.56	113.64	122.34
1	k	648	ILE	CB-CA-C	-7.56	101.93	112.14
1	m	401	THR	N-CA-CB	7.56	121.24	110.12
1	H	217	GLU	N-CA-C	7.56	119.31	111.14
1	R	567	MET	N-CA-C	7.56	119.52	111.28
1	2	482	LYS	N-CA-C	7.56	119.52	111.28
1	A	317	PRO	CA-C-N	7.56	131.53	120.95
1	A	317	PRO	C-N-CA	7.56	131.53	120.95
1	V	710	SER	O-C-N	-7.56	113.05	122.35
1	X	569	GLN	CA-C-N	7.56	130.27	120.44
1	X	569	GLN	C-N-CA	7.56	130.27	120.44
1	4	264	VAL	CA-C-N	7.56	129.29	119.84
1	4	264	VAL	C-N-CA	7.56	129.29	119.84
1	h	278	MET	CA-C-O	7.56	128.75	120.82
1	J	516	ALA	CA-C-O	7.56	128.43	120.42
1	R	409	ALA	O-C-N	-7.56	112.54	122.59
1	T	443	VAL	N-CA-C	7.56	119.20	109.30
1	C	218	VAL	CA-C-N	7.56	127.60	119.89
1	C	218	VAL	C-N-CA	7.56	127.60	119.89
1	V	218	VAL	N-CA-C	7.56	117.27	108.96
1	i	522	LYS	N-CA-C	7.55	119.51	111.28
1	m	543	PHE	N-CA-C	7.55	119.59	111.36
1	p	543	PHE	CA-C-O	-7.55	112.46	120.92
1	y	578	VAL	N-CA-C	7.55	119.13	108.93
1	B	428	MET	N-CA-C	7.55	119.15	111.07
1	P	704	HIS	O-C-N	-7.55	114.23	122.09
1	d	645	ILE	CA-C-N	7.55	127.93	119.32
1	d	645	ILE	C-N-CA	7.55	127.93	119.32
1	t	115	ASP	CA-CB-CG	-7.55	105.05	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	u	689	ARG	NE-CZ-NH2	-7.55	112.40	119.20
1	h	541	GLU	O-C-N	-7.55	112.31	122.43
1	p	359	LEU	N-CA-C	7.55	119.51	111.28
1	C	669	LEU	CA-C-O	7.55	128.42	119.28
1	Q	552	THR	CA-C-N	7.55	130.22	120.56
1	Q	552	THR	C-N-CA	7.55	130.22	120.56
1	p	369	ARG	N-CA-C	-7.55	104.05	113.18
1	w	94	GLU	N-CA-C	7.55	120.23	111.02
1	H	305	LYS	N-CA-C	7.55	119.51	111.28
1	N	573	ARG	N-CA-C	7.55	119.59	111.36
1	S	703	ARG	NE-CZ-NH2	-7.55	112.41	119.20
1	I	98	ARG	NE-CZ-NH1	7.55	129.05	121.50
1	U	358	VAL	N-CA-CB	7.55	119.38	110.55
1	k	476	ILE	O-C-N	-7.54	114.55	121.87
1	R	111	GLY	CA-C-O	-7.54	114.31	122.76
1	g	335	ASN	OD1-CG-ND2	-7.54	115.06	122.60
1	h	104	ILE	CA-C-N	7.54	130.38	120.28
1	h	104	ILE	C-N-CA	7.54	130.38	120.28
1	B	431	GLN	OE1-CD-NE2	-7.54	115.06	122.60
1	C	191	HIS	N-CA-C	7.54	120.16	111.11
1	D	307	VAL	O-C-N	-7.54	114.56	121.87
1	N	462	VAL	CA-C-N	7.54	128.31	119.94
1	N	462	VAL	C-N-CA	7.54	128.31	119.94
1	Z	534	VAL	N-CA-CB	7.54	119.37	110.55
1	B	506	HIS	CA-CB-CG	7.54	121.34	113.80
1	C	101	ILE	CA-C-O	7.54	128.84	120.85
1	R	645	ILE	CA-C-O	7.54	124.44	118.71
1	8	638	SER	N-CA-CB	7.54	120.94	110.01
1	9	701	GLN	OE1-CD-NE2	-7.54	115.06	122.60
1	a	256	GLN	OE1-CD-NE2	-7.54	115.06	122.60
1	i	183	PRO	CA-C-N	7.54	129.79	120.22
1	i	183	PRO	C-N-CA	7.54	129.79	120.22
1	s	703	ARG	N-CA-C	7.54	119.50	111.28
1	y	567	MET	CA-C-O	-7.54	112.43	120.42
1	B	162	GLN	CA-C-N	7.54	128.18	120.04
1	B	162	GLN	C-N-CA	7.54	128.18	120.04
1	X	395	GLU	CA-C-O	7.54	128.42	119.60
1	Z	494	GLY	CA-C-N	7.54	135.27	121.70
1	Z	494	GLY	C-N-CA	7.54	135.27	121.70
1	0	431	GLN	O-C-N	-7.54	114.31	122.07
1	o	152	ARG	N-CA-C	-7.54	104.59	114.31
1	L	377	GLU	CA-C-N	7.54	130.24	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	377	GLU	C-N-CA	7.54	130.24	120.44
1	Y	330	GLN	N-CA-C	7.54	120.38	111.71
1	k	249	ILE	N-CA-C	7.54	118.31	110.62
1	U	230	THR	N-CA-C	7.54	120.67	109.59
1	U	428	MET	N-CA-C	7.54	119.49	111.28
1	U	431	GLN	N-CA-C	7.54	119.13	111.07
1	i	328	ARG	NE-CZ-NH1	7.53	129.03	121.50
1	l	496	VAL	N-CA-C	7.53	119.45	109.21
1	r	350	PHE	CA-C-N	7.53	130.23	120.44
1	r	350	PHE	C-N-CA	7.53	130.23	120.44
1	B	597	PHE	N-CA-C	7.53	119.13	111.07
1	F	516	ALA	N-CA-C	7.53	119.49	111.28
1	G	191	HIS	CE1-NE2-CD2	-7.53	101.47	109.00
1	J	645	ILE	CA-C-N	7.53	127.41	119.05
1	J	645	ILE	C-N-CA	7.53	127.41	119.05
1	Q	292	ILE	CA-C-O	7.53	130.97	121.40
1	W	390	GLU	CA-C-N	7.53	128.29	120.00
1	W	390	GLU	C-N-CA	7.53	128.29	120.00
1	Q	488	ARG	NE-CZ-NH1	7.53	129.03	121.50
1	0	647	PHE	CA-CB-CG	7.53	121.33	113.80
1	8	501	PHE	O-C-N	-7.53	113.56	122.15
1	8	645	ILE	O-C-N	7.53	125.42	120.07
1	A	549	VAL	N-CA-CB	-7.53	99.28	110.58
1	K	145	ARG	NH1-CZ-NH2	-7.53	109.51	119.30
1	V	468	ASN	OD1-CG-ND2	-7.53	115.07	122.60
1	s	436	LEU	CA-C-N	7.53	131.11	120.42
1	s	436	LEU	C-N-CA	7.53	131.11	120.42
1	v	410	ASP	CA-C-N	7.53	135.25	121.70
1	v	410	ASP	C-N-CA	7.53	135.25	121.70
1	E	166	ALA	N-CA-C	7.53	121.41	110.42
1	T	206	HIS	ND1-CE1-NE2	7.53	115.93	108.40
1	b	420	PHE	N-CA-C	7.53	119.48	111.28
1	K	300	ASP	N-CA-C	-7.53	103.95	113.43
1	R	474	ASN	N-CA-C	7.53	121.56	112.38
1	J	425	LYS	N-CA-C	7.52	120.36	111.71
1	2	381	HIS	N-CA-C	7.52	119.56	111.36
1	a	150	VAL	CA-C-O	-7.52	114.18	121.63
1	b	96	LYS	CA-C-N	7.52	130.19	120.56
1	b	96	LYS	C-N-CA	7.52	130.19	120.56
1	u	657	ASN	CA-C-N	7.52	128.29	119.94
1	u	657	ASN	C-N-CA	7.52	128.29	119.94
1	x	365	ALA	CA-C-O	7.52	131.26	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	9	576	GLN	OE1-CD-NE2	-7.52	115.08	122.60
1	c	650	GLN	OE1-CD-NE2	-7.52	115.08	122.60
1	w	490	LYS	CA-C-O	-7.52	112.93	120.82
1	B	635	LEU	N-CA-C	7.52	120.42	111.33
1	D	145	ARG	NE-CZ-NH1	7.52	129.02	121.50
1	J	227	PRO	CA-C-N	7.52	127.14	119.92
1	J	227	PRO	C-N-CA	7.52	127.14	119.92
1	W	549	VAL	N-CA-C	7.52	117.64	110.42
1	F	182	ASP	CA-C-N	7.52	129.24	119.84
1	F	182	ASP	C-N-CA	7.52	129.24	119.84
1	6	532	ILE	CB-CA-C	7.51	121.50	111.88
1	9	400	ALA	CA-C-O	7.51	128.44	120.70
1	B	587	VAL	N-CA-C	7.51	118.29	110.62
1	B	663	LYS	N-CA-C	7.51	119.11	111.07
1	Q	187	GLU	N-CA-C	7.51	120.13	111.11
1	s	585	TYR	N-CA-C	7.51	120.42	111.33
1	w	709	PHE	CA-CB-CG	-7.51	106.29	113.80
1	G	226	LEU	CA-C-N	7.51	127.97	119.93
1	G	226	LEU	C-N-CA	7.51	127.97	119.93
1	G	359	LEU	CA-C-O	-7.51	112.93	120.82
1	M	259	ILE	N-CA-CB	7.51	119.36	110.95
1	3	240	ASP	CA-C-N	7.51	130.02	120.56
1	3	240	ASP	C-N-CA	7.51	130.02	120.56
1	9	308	MET	CG-SD-CE	-7.51	84.38	100.90
1	C	552	THR	N-CA-C	7.51	119.47	111.28
1	L	524	MET	O-C-N	-7.51	113.03	122.27
1	q	136	GLU	CA-C-N	7.51	130.20	120.44
1	q	136	GLU	C-N-CA	7.51	130.20	120.44
1	E	531	PHE	N-CA-C	7.51	119.10	111.07
1	8	223	ILE	O-C-N	-7.51	115.07	123.18
1	9	558	VAL	CA-C-N	7.51	130.66	120.38
1	9	558	VAL	C-N-CA	7.51	130.66	120.38
1	c	280	HIS	CE1-NE2-CD2	-7.51	101.49	109.00
1	i	455	ARG	NE-CZ-NH1	7.51	129.01	121.50
1	C	525	GLU	N-CA-C	7.51	119.10	111.07
1	J	270	ILE	N-CA-CB	7.51	119.33	110.55
1	N	685	THR	N-CA-C	7.51	119.46	111.28
1	S	153	CYS	O-C-N	-7.51	116.55	121.88
1	V	417	ASP	CA-CB-CG	7.51	120.11	112.60
1	l	547	GLN	OE1-CD-NE2	7.50	130.10	122.60
1	e	422	LEU	N-CA-C	7.50	119.46	111.28
1	q	513	VAL	N-CA-C	7.50	118.24	110.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	568	ILE	CA-C-N	7.50	130.19	120.44
1	A	568	ILE	C-N-CA	7.50	130.19	120.44
1	L	573	ARG	NE-CZ-NH1	7.50	129.00	121.50
1	R	219	PRO	CA-C-O	-7.50	113.03	121.43
1	S	708	GLN	CA-C-N	7.50	130.67	120.54
1	S	708	GLN	C-N-CA	7.50	130.67	120.54
1	X	675	TYR	N-CA-C	7.50	119.46	111.28
1	m	432	ASP	N-CA-C	7.50	119.46	111.28
1	G	218	VAL	CA-C-N	7.50	127.51	119.78
1	G	218	VAL	C-N-CA	7.50	127.51	119.78
1	H	629	HIS	CA-CB-CG	-7.50	106.30	113.80
1	1	413	SER	N-CA-C	7.50	121.69	112.54
1	I	397	HIS	CB-CA-C	-7.50	99.11	110.88
1	4	689	ARG	CA-C-N	7.50	130.65	120.38
1	4	689	ARG	C-N-CA	7.50	130.65	120.38
1	k	338	SER	N-CA-C	7.50	120.67	110.55
1	M	100	CYS	N-CA-CB	7.50	120.88	110.01
1	Q	683	SER	O-C-N	-7.50	112.28	122.33
1	R	419	MET	N-CA-CB	7.50	121.14	110.12
1	Y	561	THR	N-CA-C	7.50	120.11	111.11
1	g	565	GLU	CA-C-N	7.50	130.33	120.28
1	g	565	GLU	C-N-CA	7.50	130.33	120.28
1	p	700	THR	CA-C-N	7.50	130.33	120.28
1	p	700	THR	C-N-CA	7.50	130.33	120.28
1	q	546	ASN	O-C-N	-7.50	114.17	122.12
1	x	412	PRO	N-CA-C	7.50	123.48	111.26
1	W	179	GLU	O-C-N	-7.50	114.51	123.13
1	9	353	HIS	O-C-N	-7.50	114.72	121.39
1	G	336	ARG	N-CA-C	7.50	121.49	111.30
1	Q	670	GLN	CA-C-N	7.50	132.11	121.02
1	Q	670	GLN	C-N-CA	7.50	132.11	121.02
1	c	429	PHE	CA-CB-CG	-7.49	106.31	113.80
1	o	423	ILE	N-CA-CB	7.49	119.32	110.55
1	r	331	GLN	CG-CD-OE1	7.49	135.79	120.80
1	N	141	VAL	CA-C-O	7.49	127.25	120.96
1	U	360	LEU	N-CA-C	7.49	119.23	111.14
1	I	353	HIS	CE1-NE2-CD2	-7.49	101.51	109.00
1	q	218	VAL	CA-C-N	7.49	127.53	119.89
1	q	218	VAL	C-N-CA	7.49	127.53	119.89
1	U	449	ARG	CA-C-N	7.49	130.65	120.54
1	U	449	ARG	C-N-CA	7.49	130.65	120.54
1	W	358	VAL	N-CA-C	7.49	117.61	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	f	655	ARG	N-CA-C	7.49	119.44	111.28
1	l	167	TRP	CB-CG-CD1	7.49	138.13	126.90
1	u	507	GLN	CA-C-N	7.49	130.31	120.28
1	u	507	GLN	C-N-CA	7.49	130.31	120.28
1	x	488	ARG	CA-C-N	7.49	129.73	120.22
1	x	488	ARG	C-N-CA	7.49	129.73	120.22
1	y	691	ILE	N-CA-C	7.49	117.61	110.42
1	z	153	CYS	CB-CA-C	7.49	120.10	109.92
1	9	585	TYR	N-CA-C	7.49	120.09	111.11
1	h	690	ARG	O-C-N	-7.49	114.18	122.12
1	b	478	GLU	O-C-N	-7.49	114.19	122.12
1	h	166	ALA	N-CA-C	7.49	121.08	110.23
1	o	239	ARG	CA-C-N	7.49	135.17	121.70
1	o	239	ARG	C-N-CA	7.49	135.17	121.70
1	u	623	PHE	CA-CB-CG	7.49	121.28	113.80
1	v	145	ARG	N-CA-C	7.49	119.08	111.07
1	A	434	GLU	CA-C-N	7.49	130.31	120.28
1	A	434	GLU	C-N-CA	7.49	130.31	120.28
1	J	506	HIS	CA-CB-CG	7.49	121.28	113.80
1	m	141	VAL	O-C-N	-7.48	114.99	123.07
1	v	305	LYS	N-CA-C	7.48	119.08	111.07
1	b	666	MET	N-CA-C	7.48	120.31	111.71
1	d	684	GLU	N-CA-C	7.48	119.44	111.28
1	g	94	GLU	N-CA-C	7.48	120.50	111.82
1	k	402	GLU	CA-C-N	7.48	130.91	120.29
1	k	402	GLU	C-N-CA	7.48	130.91	120.29
1	l	303	THR	O-C-N	-7.48	113.62	122.15
1	A	628	ILE	CA-C-O	7.48	127.80	119.42
1	B	640	ARG	NE-CZ-NH1	7.48	128.98	121.50
1	K	113	GLU	N-CA-CB	7.48	121.23	110.16
1	S	571	GLN	N-CA-C	7.48	119.08	111.07
1	d	336	ARG	NE-CZ-NH1	7.48	128.98	121.50
1	e	214	THR	N-CA-C	7.48	120.61	108.34
1	g	410	ASP	CA-CB-CG	-7.48	105.12	112.60
1	r	414	GLN	O-C-N	-7.48	114.28	123.33
1	3	176	THR	N-CA-C	7.48	119.92	109.15
1	5	231	ARG	NE-CZ-NH2	-7.48	112.47	119.20
1	m	572	PHE	CA-CB-CG	-7.48	106.32	113.80
1	R	663	LYS	O-C-N	-7.48	114.37	122.07
1	a	405	ARG	N-CA-C	7.48	120.08	111.11
1	G	478	GLU	N-CA-C	7.48	119.07	111.07
1	R	164	CYS	O-C-N	-7.48	114.00	122.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	667	GLN	OE1-CD-NE2	-7.48	115.12	122.60
1	Q	450	LEU	N-CA-C	7.48	119.07	111.07
1	5	494	GLY	CA-C-N	7.47	135.15	121.70
1	5	494	GLY	C-N-CA	7.47	135.15	121.70
1	f	655	ARG	NE-CZ-NH1	7.47	128.97	121.50
1	l	245	ILE	N-CA-C	7.47	117.60	110.42
1	6	410	ASP	O-C-N	7.47	129.11	121.79
1	d	215	SER	N-CA-CB	-7.47	103.25	111.10
1	k	396	SER	N-CA-C	7.47	119.42	111.28
1	k	479	GLU	N-CA-C	7.47	120.49	111.82
1	L	455	ARG	NE-CZ-NH2	7.47	125.92	119.20
1	M	382	ILE	N-CA-C	7.47	118.21	110.36
1	T	567	MET	O-C-N	-7.47	114.20	122.12
1	9	218	VAL	N-CA-C	7.47	115.97	109.02
1	p	190	ILE	CA-C-N	7.47	130.15	120.44
1	p	190	ILE	C-N-CA	7.47	130.15	120.44
1	K	638	SER	N-CA-C	7.47	119.42	111.28
1	Y	379	ILE	CA-C-O	-7.47	112.93	120.85
1	8	246	LYS	N-CA-C	7.47	120.48	111.82
1	a	339	LEU	CA-C-N	7.47	131.17	120.79
1	a	339	LEU	C-N-CA	7.47	131.17	120.79
1	c	444	ARG	NE-CZ-NH2	-7.47	112.48	119.20
1	E	303	THR	CA-C-N	7.47	130.29	120.28
1	E	303	THR	C-N-CA	7.47	130.29	120.28
1	L	554	GLU	CA-C-N	7.47	130.29	120.28
1	L	554	GLU	C-N-CA	7.47	130.29	120.28
1	O	171	ILE	CA-C-O	7.47	127.63	120.31
1	7	542	PHE	CA-CB-CG	-7.47	106.33	113.80
1	f	389	LEU	CA-C-N	7.47	130.60	120.44
1	f	389	LEU	C-N-CA	7.47	130.60	120.44
1	H	430	ASN	N-CA-C	7.47	120.07	111.11
1	e	641	LEU	N-CA-C	7.47	119.50	111.36
1	m	217	GLU	N-CA-C	7.47	119.06	111.07
1	r	464	ILE	N-CA-C	7.47	117.59	110.42
1	t	93	TYR	CA-C-N	7.47	131.03	120.28
1	t	93	TYR	C-N-CA	7.47	131.03	120.28
1	x	640	ARG	NE-CZ-NH2	-7.47	112.48	119.20
1	A	544	ASN	N-CA-C	7.47	119.42	111.28
1	O	310	VAL	CA-C-N	7.47	129.97	120.56
1	O	310	VAL	C-N-CA	7.47	129.97	120.56
1	Q	257	GLN	CA-C-O	7.47	128.09	119.35
1	X	374	LEU	CA-C-O	7.47	128.46	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	p	111	GLY	CA-C-N	7.46	135.14	121.70
1	p	111	GLY	C-N-CA	7.46	135.14	121.70
1	u	235	ASP	N-CA-C	7.46	120.07	111.11
1	B	220	ASP	CA-CB-CG	-7.46	105.14	112.60
1	I	265	PRO	O-C-N	-7.46	113.88	122.91
1	N	223	ILE	O-C-N	-7.46	114.79	123.00
1	d	418	LYS	CA-C-N	7.46	130.28	120.28
1	d	418	LYS	C-N-CA	7.46	130.28	120.28
1	x	365	ALA	O-C-N	-7.46	112.66	122.59
1	8	410	ASP	CA-C-N	7.46	135.93	122.13
1	8	410	ASP	C-N-CA	7.46	135.93	122.13
1	e	521	GLN	N-CA-C	7.46	119.41	111.28
1	f	588	VAL	CB-CA-C	7.46	122.21	112.14
1	A	386	LEU	CA-C-N	7.46	129.17	119.84
1	A	386	LEU	C-N-CA	7.46	129.17	119.84
1	H	455	ARG	NE-CZ-NH2	7.46	125.92	119.20
1	K	708	GLN	N-CA-C	7.46	119.41	111.28
1	T	473	LYS	CA-C-N	7.46	130.28	120.28
1	T	473	LYS	C-N-CA	7.46	130.28	120.28
1	c	549	VAL	N-CA-C	7.46	117.58	110.42
1	p	428	MET	CA-C-N	7.46	130.13	120.44
1	p	428	MET	C-N-CA	7.46	130.13	120.44
1	G	657	ASN	CA-CB-CG	7.46	120.06	112.60
1	K	134	VAL	N-CA-C	7.46	118.23	110.62
1	2	629	HIS	CG-CD2-NE2	7.46	114.66	107.20
1	a	517	LEU	N-CA-C	7.46	120.28	111.71
1	l	549	VAL	O-C-N	-7.46	114.60	121.91
1	y	625	GLU	N-CA-C	7.46	120.29	111.71
1	M	267	ASN	OD1-CG-ND2	-7.46	115.14	122.60
1	T	397	HIS	CE1-NE2-CD2	-7.46	101.54	109.00
1	d	450	LEU	O-C-N	-7.46	114.34	122.09
1	g	182	ASP	CA-C-N	7.46	129.16	119.84
1	g	182	ASP	C-N-CA	7.46	129.16	119.84
1	a	526	ILE	O-C-N	-7.45	114.34	121.87
1	i	413	SER	CA-C-O	7.45	131.17	120.51
1	A	336	ARG	O-C-N	-7.45	112.68	122.59
1	H	117	ALA	N-CA-C	7.45	122.20	113.18
1	n	512	LEU	N-CA-CB	-7.45	99.04	110.44
1	K	553	ILE	N-CA-C	7.45	118.22	110.62
1	A	96	LYS	CA-C-N	7.45	130.59	122.77
1	A	96	LYS	C-N-CA	7.45	130.59	122.77
1	5	550	GLN	CA-C-O	7.45	128.54	119.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	465	LEU	N-CA-C	7.45	119.40	111.28
1	g	646	PRO	O-C-N	-7.45	113.67	122.24
1	n	514	GLU	CA-C-O	7.45	125.56	118.34
1	H	249	ILE	CA-C-N	7.45	130.26	120.28
1	H	249	ILE	C-N-CA	7.45	130.26	120.28
1	Y	218	VAL	N-CA-C	7.45	115.28	107.76
1	l	682	GLN	CA-C-N	7.45	135.10	121.70
1	l	682	GLN	C-N-CA	7.45	135.10	121.70
1	a	215	SER	CA-C-N	7.45	127.16	119.64
1	a	215	SER	C-N-CA	7.45	127.16	119.64
1	i	427	LYS	N-CA-C	7.45	119.40	111.28
1	p	410	ASP	CA-C-N	7.45	135.10	121.70
1	p	410	ASP	C-N-CA	7.45	135.10	121.70
1	q	522	LYS	N-CA-C	7.45	120.05	111.11
1	y	317	PRO	N-CA-C	7.45	123.19	114.03
1	H	118	LEU	N-CA-C	7.45	126.26	109.81
1	W	242	GLY	CA-C-O	7.45	128.49	120.30
1	X	149	ILE	CA-C-O	-7.45	114.14	121.58
1	0	331	GLN	CB-CG-CD	7.44	125.25	112.60
1	0	190	ILE	CA-C-N	7.44	130.25	120.28
1	0	190	ILE	C-N-CA	7.44	130.25	120.28
1	l	170	ARG	NE-CZ-NH2	-7.44	112.50	119.20
1	o	389	LEU	O-C-N	-7.44	114.23	122.12
1	Q	244	GLN	N-CA-C	7.44	119.47	111.36
1	9	584	ILE	O-C-N	-7.44	113.58	122.06
1	f	420	PHE	CA-CB-CG	-7.44	106.36	113.80
1	l	540	GLY	N-CA-C	7.44	121.66	112.73
1	n	533	ASN	N-CA-C	7.44	119.39	111.28
1	v	474	ASN	CA-CB-CG	-7.44	105.16	112.60
1	C	482	LYS	O-C-N	-7.44	114.23	122.12
1	U	677	TRP	O-C-N	-7.44	114.41	122.07
1	X	237	GLN	CA-C-N	7.44	127.44	119.78
1	X	237	GLN	C-N-CA	7.44	127.44	119.78
1	4	631	ASN	CA-CB-CG	7.44	120.04	112.60
1	b	344	LYS	CA-C-O	-7.44	113.01	120.82
1	h	536	LYS	CA-C-O	7.44	128.43	120.55
1	h	558	VAL	N-CA-CB	7.44	120.65	110.54
1	i	655	ARG	NE-CZ-NH2	7.44	125.89	119.20
1	D	514	GLU	O-C-N	-7.44	112.77	121.32
1	E	386	LEU	CA-C-O	-7.44	111.79	118.63
1	U	487	TYR	N-CA-C	7.44	119.39	111.28
1	N	266	CYS	N-CA-C	7.44	120.26	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	675	TYR	CA-C-O	7.44	128.43	120.55
1	a	350	PHE	N-CA-C	7.43	119.38	111.28
1	s	543	PHE	N-CA-C	7.43	120.03	111.11
1	B	277	SER	O-C-N	-7.43	114.41	122.07
1	7	421	PHE	O-C-N	-7.43	114.06	122.09
1	c	346	GLU	CA-C-N	7.43	130.64	120.46
1	c	346	GLU	C-N-CA	7.43	130.64	120.46
1	d	695	ARG	NE-CZ-NH2	7.43	125.89	119.20
1	Q	504	ILE	N-CA-C	7.43	119.09	110.62
1	Z	652	PHE	N-CA-C	7.43	119.46	111.36
1	0	259	ILE	CA-C-O	7.43	128.48	120.53
1	n	297	ASP	N-CA-C	-7.43	103.34	113.30
1	q	436	LEU	N-CA-C	7.43	119.02	111.07
1	x	704	HIS	CA-CB-CG	-7.43	106.37	113.80
1	U	550	GLN	N-CA-C	7.43	119.38	111.28
1	W	683	SER	CA-C-O	-7.43	113.02	120.82
1	4	463	GLY	CA-C-O	-7.43	113.52	120.80
1	h	533	ASN	OD1-CG-ND2	-7.43	115.17	122.60
1	j	642	ALA	CA-C-O	7.43	128.42	120.55
1	l	309	ASN	O-C-N	-7.42	114.42	122.07
1	a	170	ARG	NE-CZ-NH1	7.42	128.93	121.50
1	h	118	LEU	CA-C-N	7.42	127.46	119.89
1	h	118	LEU	C-N-CA	7.42	127.46	119.89
1	j	435	LYS	N-CA-C	7.42	120.02	111.11
1	D	690	ARG	NE-CZ-NH1	7.42	128.92	121.50
1	N	657	ASN	CA-CB-CG	7.42	120.02	112.60
1	e	680	GLN	N-CA-C	7.42	121.02	109.96
1	k	162	GLN	CA-C-O	-7.42	113.44	120.94
1	n	684	GLU	N-CA-C	7.42	119.45	111.36
1	O	366	THR	O-C-N	-7.42	114.25	122.12
1	R	703	ARG	NE-CZ-NH1	-7.42	114.08	121.50
1	0	267	ASN	N-CA-CB	7.42	121.23	110.47
1	9	666	MET	CA-C-O	7.42	128.26	119.28
1	d	296	PRO	CB-CA-C	7.42	122.25	111.04
1	e	126	ASP	CA-CB-CG	7.42	120.02	112.60
1	i	638	SER	CB-CA-C	-7.42	98.47	110.79
1	j	297	ASP	CA-CB-CG	7.42	120.02	112.60
1	n	98	ARG	O-C-N	-7.42	113.73	120.71
1	E	537	LYS	N-CA-C	7.42	119.01	111.07
1	F	471	LYS	N-CA-C	7.42	120.02	111.11
1	F	524	MET	CA-C-N	7.42	130.56	120.54
1	F	524	MET	C-N-CA	7.42	130.56	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	317	PRO	N-CA-C	-7.42	104.15	114.98
1	D	182	ASP	O-C-N	-7.42	113.12	121.43
1	T	288	ARG	NE-CZ-NH2	7.42	125.88	119.20
1	5	394	ARG	NE-CZ-NH1	-7.42	114.08	121.50
1	s	704	HIS	CA-C-N	7.42	130.22	120.28
1	s	704	HIS	C-N-CA	7.42	130.22	120.28
1	x	531	PHE	CA-C-O	7.42	128.61	120.82
1	C	219	PRO	CA-C-N	7.42	134.78	122.54
1	C	219	PRO	C-N-CA	7.42	134.78	122.54
1	U	218	VAL	N-CA-C	7.42	115.01	108.63
1	b	528	GLN	O-C-N	-7.42	114.43	122.07
1	o	462	VAL	CA-C-N	7.42	129.68	120.34
1	o	462	VAL	C-N-CA	7.42	129.68	120.34
1	H	494	GLY	O-C-N	-7.42	113.06	122.70
1	S	473	LYS	CA-C-N	7.42	130.22	120.28
1	S	473	LYS	C-N-CA	7.42	130.22	120.28
1	9	280	HIS	CA-CB-CG	7.41	121.21	113.80
1	f	695	ARG	NE-CZ-NH1	7.41	128.91	121.50
1	y	416	ALA	CA-C-N	7.41	130.54	120.38
1	y	416	ALA	C-N-CA	7.41	130.54	120.38
1	5	461	TRP	O-C-N	-7.41	114.26	122.12
1	q	442	VAL	N-CA-CB	7.41	119.39	111.46
1	t	706	LEU	N-CA-C	7.41	119.44	111.36
1	y	316	TYR	O-C-N	-7.41	114.08	121.27
1	Q	115	ASP	CA-C-N	7.41	131.35	120.90
1	Q	115	ASP	C-N-CA	7.41	131.35	120.90
1	Y	166	ALA	N-CA-C	7.41	120.73	110.35
1	1	265	PRO	CA-C-N	7.41	130.95	120.28
1	1	265	PRO	C-N-CA	7.41	130.95	120.28
1	5	547	GLN	N-CA-C	7.41	119.44	111.36
1	a	571	GLN	N-CA-C	7.41	119.36	111.28
1	c	269	ASP	N-CA-C	7.41	120.69	110.24
1	e	152	ARG	CA-C-O	7.41	127.20	119.05
1	x	280	HIS	CE1-NE2-CD2	-7.41	101.59	109.00
1	W	582	ASP	CA-CB-CG	-7.41	105.19	112.60
1	c	301	ARG	NE-CZ-NH1	7.41	128.91	121.50
1	q	525	GLU	N-CA-C	7.41	120.23	111.71
1	B	649	ILE	O-C-N	-7.41	114.68	121.87
1	K	146	GLY	O-C-N	-7.41	113.07	122.70
1	2	649	ILE	N-CA-C	7.41	118.20	110.72
1	z	631	ASN	CA-CB-CG	-7.41	105.19	112.60
1	H	484	GLU	N-CA-C	7.41	120.29	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	455	ARG	NE-CZ-NH1	7.41	128.91	121.50
1	J	640	ARG	N-CA-C	7.41	119.35	111.28
1	R	449	ARG	NE-CZ-NH2	7.41	125.86	119.20
1	Y	242	GLY	CA-C-N	7.41	130.81	120.29
1	Y	242	GLY	C-N-CA	7.41	130.81	120.29
1	9	701	GLN	O-C-N	7.40	129.97	122.12
1	a	512	LEU	CA-C-N	7.40	129.89	120.56
1	a	512	LEU	C-N-CA	7.40	129.89	120.56
1	i	574	MET	CA-C-N	7.40	130.20	120.28
1	i	574	MET	C-N-CA	7.40	130.20	120.28
1	G	302	GLY	CA-C-N	7.40	130.80	120.29
1	G	302	GLY	C-N-CA	7.40	130.80	120.29
1	I	424	GLU	O-C-N	-7.40	114.27	122.12
1	S	345	LYS	CA-C-N	7.40	130.06	120.44
1	S	345	LYS	C-N-CA	7.40	130.06	120.44
1	Z	395	GLU	O-C-N	-7.40	114.09	122.09
1	Z	541	GLU	CA-C-O	7.40	127.59	119.15
1	a	135	LEU	CA-C-N	7.40	131.56	120.31
1	a	135	LEU	C-N-CA	7.40	131.56	120.31
1	r	577	MET	N-CA-C	7.40	121.13	110.10
1	u	164	CYS	CA-C-N	7.40	131.92	120.75
1	u	164	CYS	C-N-CA	7.40	131.92	120.75
1	G	487	TYR	N-CA-CB	7.40	121.16	110.06
1	M	700	THR	O-C-N	-7.40	114.28	122.12
1	R	553	ILE	O-C-N	7.40	129.05	121.87
1	4	379	ILE	O-C-N	-7.40	113.44	121.80
1	l	546	ASN	OD1-CG-ND2	-7.40	115.20	122.60
1	E	674	ARG	N-CA-C	7.40	119.34	111.28
1	3	497	ASN	CA-C-O	7.40	128.72	120.43
1	5	513	VAL	N-CA-C	7.40	117.52	110.42
1	C	516	ALA	CA-C-N	7.40	130.19	120.28
1	C	516	ALA	C-N-CA	7.40	130.19	120.28
1	p	376	THR	CA-C-N	7.40	130.19	120.28
1	p	376	THR	C-N-CA	7.40	130.19	120.28
1	R	594	GLU	N-CA-C	7.40	119.13	111.14
1	b	208	LEU	N-CA-C	7.39	120.41	110.35
1	b	383	GLN	N-CA-C	7.39	119.98	111.11
1	k	596	ILE	CA-C-N	7.39	130.05	120.44
1	k	596	ILE	C-N-CA	7.39	130.05	120.44
1	n	705	ALA	CA-C-N	7.39	131.55	120.31
1	n	705	ALA	C-N-CA	7.39	131.55	120.31
1	J	238	PRO	CA-C-N	7.39	135.01	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	238	PRO	C-N-CA	7.39	135.01	121.70
1	7	325	VAL	O-C-N	-7.39	115.49	123.18
1	9	361	GLU	N-CA-C	7.39	120.28	111.33
1	k	220	ASP	O-C-N	-7.39	113.29	122.68
1	k	649	ILE	N-CA-C	7.39	118.12	110.36
1	q	520	LEU	N-CA-C	7.39	119.34	111.28
1	w	381	HIS	CE1-NE2-CD2	-7.39	101.61	109.00
1	A	110	LEU	CA-C-N	7.39	130.68	122.55
1	A	110	LEU	C-N-CA	7.39	130.68	122.55
1	K	425	LYS	N-CA-C	7.39	118.98	111.07
1	M	248	LEU	O-C-N	-7.39	114.11	122.09
1	Q	698	ARG	NE-CZ-NH1	7.39	128.89	121.50
1	R	705	ALA	CA-C-N	7.39	130.19	120.28
1	R	705	ALA	C-N-CA	7.39	130.19	120.28
1	7	518	SER	CA-C-N	7.39	130.51	120.38
1	7	518	SER	C-N-CA	7.39	130.51	120.38
1	k	703	ARG	CA-C-N	7.39	130.05	120.44
1	k	703	ARG	C-N-CA	7.39	130.05	120.44
1	p	206	HIS	CA-CB-CG	-7.39	106.41	113.80
1	G	241	ILE	N-CA-C	-7.39	105.51	112.83
1	4	533	ASN	OD1-CG-ND2	-7.39	115.21	122.60
1	k	373	ARG	NE-CZ-NH1	7.39	128.89	121.50
1	L	463	GLY	N-CA-C	7.39	121.07	112.50
1	W	196	VAL	N-CA-C	7.39	117.52	110.42
1	v	228	GLY	O-C-N	-7.39	115.62	122.93
1	l	390	GLU	N-CA-C	7.39	120.27	111.33
1	t	352	THR	N-CA-CB	7.39	122.28	109.72
1	A	179	GLU	O-C-N	-7.39	113.94	123.02
1	G	675	TYR	CB-CA-C	-7.39	98.53	110.79
1	K	202	ARG	NE-CZ-NH2	-7.39	112.55	119.20
1	P	436	LEU	CA-C-N	7.39	130.13	120.60
1	P	436	LEU	C-N-CA	7.39	130.13	120.60
1	9	404	LEU	CA-C-N	7.38	130.18	120.28
1	9	404	LEU	C-N-CA	7.38	130.18	120.28
1	g	553	ILE	N-CA-C	7.38	118.15	110.62
1	o	492	LEU	CB-CA-C	7.38	121.67	111.63
1	t	219	PRO	O-C-N	-7.38	114.09	123.03
1	y	667	GLN	CB-CG-CD	7.38	125.15	112.60
1	B	94	GLU	N-CA-C	7.38	119.33	111.28
1	K	252	TYR	N-CA-C	7.38	119.33	111.28
1	0	457	ASP	O-C-N	-7.38	114.12	122.09
1	6	353	HIS	CA-C-N	7.38	126.90	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	353	HIS	C-N-CA	7.38	126.90	118.85
1	E	557	LYS	CB-CA-C	7.38	123.04	110.79
1	9	494	GLY	CA-C-N	7.38	134.99	121.70
1	9	494	GLY	C-N-CA	7.38	134.99	121.70
1	H	506	HIS	CA-CB-CG	-7.38	106.42	113.80
1	I	189	GLU	N-CA-C	7.38	119.32	111.28
1	Y	565	GLU	O-C-N	-7.38	114.47	122.07
1	1	596	ILE	CA-C-N	7.38	130.03	120.44
1	1	596	ILE	C-N-CA	7.38	130.03	120.44
1	2	171	ILE	O-C-N	-7.38	115.20	123.10
1	n	237	GLN	N-CA-C	7.38	122.78	112.75
1	s	255	ARG	NE-CZ-NH1	7.38	128.88	121.50
1	u	350	PHE	N-CA-C	7.38	119.32	111.28
1	F	117	ALA	N-CA-CB	-7.38	99.27	110.12
1	0	231	ARG	NE-CZ-NH2	-7.38	112.56	119.20
1	4	477	HIS	CE1-NE2-CD2	-7.38	101.62	109.00
1	i	577	MET	O-C-N	-7.38	114.08	122.93
1	l	287	ASP	N-CA-C	7.38	119.32	111.28
1	o	472	VAL	N-CA-C	-7.38	104.15	113.22
1	A	144	PRO	CA-C-N	7.38	130.03	120.44
1	A	144	PRO	C-N-CA	7.38	130.03	120.44
1	f	153	CYS	O-C-N	-7.38	114.49	121.72
1	r	686	ALA	N-CA-CB	-7.38	99.28	110.12
1	u	378	LEU	CA-C-N	7.38	130.56	120.46
1	u	378	LEU	C-N-CA	7.38	130.56	120.46
1	U	690	ARG	CA-C-N	7.38	129.85	120.56
1	U	690	ARG	C-N-CA	7.38	129.85	120.56
1	c	655	ARG	NE-CZ-NH1	7.37	128.87	121.50
1	g	659	ASP	O-C-N	-7.37	114.47	122.07
1	w	172	SER	CA-C-N	7.37	130.90	120.28
1	w	172	SER	C-N-CA	7.37	130.90	120.28
1	A	117	ALA	CA-C-O	7.37	128.37	120.55
1	O	367	VAL	CA-C-O	-7.37	114.40	119.19
1	S	467	THR	N-CA-C	7.37	118.96	111.07
1	Y	465	LEU	O-C-N	-7.37	114.47	122.07
1	2	557	LYS	O-C-N	-7.37	114.31	122.12
1	6	704	HIS	CE1-NE2-CD2	-7.37	101.63	109.00
1	e	554	GLU	N-CA-C	7.37	119.31	111.28
1	u	530	ALA	N-CA-C	7.37	119.96	111.11
1	x	240	ASP	CA-CB-CG	7.37	119.97	112.60
1	D	394	ARG	N-CA-C	7.37	118.96	111.07
1	W	499	LYS	N-CA-C	7.37	120.25	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	9	683	SER	CA-C-N	7.37	130.02	120.44
1	9	683	SER	C-N-CA	7.37	130.02	120.44
1	h	495	PHE	CA-C-N	7.37	132.47	122.01
1	h	495	PHE	C-N-CA	7.37	132.47	122.01
1	l	437	VAL	O-C-N	-7.37	114.72	121.87
1	R	419	MET	O-C-N	-7.37	114.31	122.12
1	l	143	LEU	CA-C-N	7.37	127.37	119.78
1	l	143	LEU	C-N-CA	7.37	127.37	119.78
1	B	115	ASP	CA-CB-CG	-7.37	105.23	112.60
1	H	428	MET	N-CA-C	7.37	119.39	111.36
1	N	523	ALA	O-C-N	-7.37	114.48	122.07
1	p	206	HIS	CE1-NE2-CD2	-7.37	101.63	109.00
1	v	189	GLU	N-CA-C	7.37	119.39	111.36
1	O	514	GLU	CA-C-O	-7.37	111.72	118.79
1	R	519	MET	N-CA-C	7.37	119.31	111.28
1	a	534	VAL	O-C-N	-7.37	114.24	121.83
1	s	416	ALA	N-CA-C	7.37	118.95	111.07
1	u	188	LYS	CA-C-O	7.37	128.23	120.42
1	w	98	ARG	NH1-CZ-NH2	-7.37	109.72	119.30
1	I	169	GLY	O-C-N	-7.37	116.91	123.76
1	O	231	ARG	NE-CZ-NH1	7.37	128.87	121.50
1	Z	328	ARG	N-CA-C	7.37	121.68	113.21
1	4	494	GLY	CA-C-N	7.36	134.95	121.70
1	4	494	GLY	C-N-CA	7.36	134.95	121.70
1	g	389	LEU	CA-C-N	7.36	130.47	120.38
1	g	389	LEU	C-N-CA	7.36	130.47	120.38
1	b	449	ARG	N-CA-C	7.36	120.07	110.43
1	i	656	GLU	CA-C-N	7.36	130.01	120.44
1	i	656	GLU	C-N-CA	7.36	130.01	120.44
1	R	111	GLY	N-CA-C	7.36	123.98	111.98
1	0	214	THR	CA-CB-OG1	7.36	120.64	109.60
1	e	662	GLN	N-CA-C	7.36	119.30	111.28
1	j	342	ALA	CA-C-N	7.36	131.02	120.79
1	j	342	ALA	C-N-CA	7.36	131.02	120.79
1	r	532	ILE	N-CA-CB	7.36	119.16	110.55
1	z	264	VAL	CA-C-N	7.36	129.04	119.84
1	z	264	VAL	C-N-CA	7.36	129.04	119.84
1	F	154	PRO	CB-CA-C	7.36	120.91	111.56
1	X	588	VAL	N-CA-C	-7.36	103.11	110.62
1	2	487	TYR	N-CA-C	7.36	120.23	111.33
1	r	414	GLN	CA-C-O	7.36	129.43	120.60
1	u	657	ASN	CB-CG-ND2	7.36	127.44	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	v	467	THR	CA-CB-OG1	7.36	120.64	109.60
1	w	561	THR	N-CA-CB	7.36	120.94	110.12
1	z	363	GLY	N-CA-C	7.36	116.91	110.21
1	K	152	ARG	CA-C-O	7.36	126.99	118.90
1	N	325	VAL	N-CA-C	7.36	118.49	107.75
1	0	145	ARG	CA-C-N	7.36	135.83	121.41
1	0	145	ARG	C-N-CA	7.36	135.83	121.41
1	i	685	THR	CA-C-O	7.36	128.28	120.70
1	q	287	ASP	N-CA-CB	-7.36	99.34	110.01
1	E	490	LYS	N-CA-C	7.36	119.08	111.14
1	W	145	ARG	NE-CZ-NH1	7.36	128.85	121.50
1	6	573	ARG	NE-CZ-NH2	-7.35	112.58	119.20
1	w	332	GLU	O-C-N	-7.35	112.67	122.23
1	3	426	ILE	CA-CB-CG2	7.35	123.00	110.50
1	z	145	ARG	NH1-CZ-NH2	-7.35	109.74	119.30
1	B	288	ARG	CA-C-O	7.35	126.65	119.08
1	C	105	ASP	CA-C-N	7.35	130.00	120.44
1	C	105	ASP	C-N-CA	7.35	130.00	120.44
1	J	130	GLY	CA-C-N	7.35	130.13	120.28
1	J	130	GLY	C-N-CA	7.35	130.13	120.28
1	L	108	ARG	NE-CZ-NH1	7.35	128.85	121.50
1	g	436	LEU	CA-C-N	7.35	129.89	120.70
1	g	436	LEU	C-N-CA	7.35	129.89	120.70
1	D	701	GLN	CA-C-N	7.35	130.00	120.44
1	D	701	GLN	C-N-CA	7.35	130.00	120.44
1	Y	563	LYS	N-CA-C	7.35	118.94	111.07
1	2	704	HIS	N-CA-C	7.35	119.29	111.28
1	o	477	HIS	CA-C-N	7.35	130.46	120.54
1	o	477	HIS	C-N-CA	7.35	130.46	120.54
1	p	98	ARG	CA-C-O	-7.35	111.87	118.63
1	E	370	LEU	N-CA-C	7.35	120.22	111.33
1	e	660	SER	N-CA-C	7.35	119.29	111.28
1	x	191	HIS	ND1-CE1-NE2	7.35	115.75	108.40
1	A	398	GLN	N-CA-C	7.35	118.93	111.07
1	B	631	ASN	OD1-CG-ND2	-7.35	115.25	122.60
1	P	191	HIS	CA-C-N	7.35	130.13	120.28
1	P	191	HIS	C-N-CA	7.35	130.13	120.28
1	V	245	ILE	N-CA-C	7.35	117.47	110.42
1	4	315	THR	N-CA-CB	7.35	121.03	110.16
1	f	220	ASP	CA-CB-CG	-7.35	105.25	112.60
1	D	392	GLN	CA-C-O	7.35	128.34	120.55
1	D	628	ILE	O-C-N	-7.35	114.75	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	204	ILE	CB-CA-C	7.35	120.34	110.42
1	0	158	LYS	N-CA-C	-7.34	95.64	108.20
1	3	239	ARG	CA-C-N	7.34	134.92	121.70
1	3	239	ARG	C-N-CA	7.34	134.92	121.70
1	f	560	HIS	ND1-CE1-NE2	7.34	115.75	108.40
1	G	387	PRO	N-CA-CB	7.34	110.56	103.51
1	O	689	ARG	N-CA-C	7.34	118.93	111.07
1	h	294	THR	O-C-N	-7.34	112.61	122.74
1	A	247	ALA	N-CA-C	7.34	119.28	111.28
1	G	205	SER	CA-C-N	7.34	134.02	122.49
1	G	205	SER	C-N-CA	7.34	134.02	122.49
1	T	509	ILE	N-CA-C	7.34	118.11	110.62
1	Z	126	ASP	CA-CB-CG	-7.34	105.26	112.60
1	9	709	PHE	CA-CB-CG	7.34	121.14	113.80
1	f	695	ARG	N-CA-C	7.34	119.28	111.28
1	y	150	VAL	O-C-N	-7.34	115.14	123.07
1	B	529	GLN	N-CA-C	7.34	119.98	111.02
1	V	301	ARG	NE-CZ-NH1	7.34	128.84	121.50
1	V	689	ARG	NE-CZ-NH2	7.34	125.81	119.20
1	g	626	ILE	CA-CB-CG1	7.34	122.88	110.40
1	i	256	GLN	N-CA-C	7.34	120.33	111.82
1	B	353	HIS	O-C-N	-7.34	114.76	121.66
1	N	282	VAL	N-CA-C	7.34	121.27	111.44
1	w	331	GLN	CA-C-O	7.34	128.45	119.79
1	x	568	ILE	O-C-N	-7.34	114.72	121.91
1	3	359	LEU	N-CA-C	7.34	119.91	111.11
1	7	568	ILE	N-CA-CB	7.34	119.13	110.55
1	b	147	SER	CA-C-N	7.34	131.19	120.11
1	b	147	SER	C-N-CA	7.34	131.19	120.11
1	n	215	SER	CA-C-O	-7.34	112.72	120.28
1	n	574	MET	CG-SD-CE	-7.34	84.76	100.90
1	F	458	PHE	CA-CB-CG	-7.34	106.46	113.80
1	H	709	PHE	CA-CB-CG	7.34	121.14	113.80
1	O	704	HIS	CA-CB-CG	-7.34	106.46	113.80
1	X	308	MET	CA-C-N	7.34	129.98	120.44
1	X	308	MET	C-N-CA	7.34	129.98	120.44
1	0	414	GLN	CG-CD-NE2	7.33	127.40	116.40
1	A	262	VAL	O-C-N	-7.33	115.66	123.14
1	S	658	GLY	O-C-N	-7.33	115.08	122.19
1	X	244	GLN	N-CA-C	7.33	119.28	111.28
1	b	584	ILE	O-C-N	-7.33	114.87	122.20
1	u	242	GLY	O-C-N	-7.33	115.08	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	x	194	GLN	N-CA-C	7.33	119.27	111.28
1	D	692	LEU	N-CA-C	7.33	119.35	111.36
1	M	637	THR	CA-C-N	7.33	130.44	120.54
1	M	637	THR	C-N-CA	7.33	130.44	120.54
1	2	313	ASN	CA-CB-CG	-7.33	105.27	112.60
1	a	162	GLN	CA-C-O	-7.33	112.73	120.28
1	m	460	ASN	CA-CB-CG	-7.33	105.27	112.60
1	Z	530	ALA	N-CA-C	7.33	119.27	111.28
1	d	692	LEU	N-CA-C	7.33	119.35	111.36
1	f	153	CYS	CB-CA-C	7.33	120.88	109.15
1	b	502	GLU	N-CA-C	7.33	119.91	111.11
1	c	417	ASP	CA-CB-CG	7.33	119.93	112.60
1	d	486	GLN	N-CA-C	7.33	118.91	111.07
1	n	267	ASN	N-CA-C	7.33	119.90	111.11
1	v	710	SER	N-CA-C	7.33	119.77	110.24
1	H	136	GLU	N-CA-C	7.33	121.13	111.75
1	D	498	TYR	CA-C-O	7.33	128.38	120.10
1	2	478	GLU	N-CA-C	7.33	119.26	111.28
1	e	472	VAL	O-C-N	-7.33	114.01	122.07
1	G	449	ARG	CA-C-N	7.33	129.96	120.44
1	G	449	ARG	C-N-CA	7.33	129.96	120.44
1	l	127	GLN	O-C-N	-7.32	114.47	122.09
1	l	383	GLN	CB-CG-CD	7.32	125.05	112.60
1	3	215	SER	N-CA-C	-7.32	101.63	108.22
1	6	534	VAL	N-CA-C	7.32	117.45	110.42
1	c	476	ILE	N-CA-C	7.32	118.97	110.62
1	n	253	ILE	O-C-N	-7.32	113.71	122.06
1	r	423	ILE	CB-CA-C	7.32	121.34	111.97
1	r	540	GLY	N-CA-C	7.32	121.00	112.50
1	H	423	ILE	CA-CB-CG2	7.32	122.95	110.50
1	O	304	GLU	CA-C-N	7.32	130.43	120.54
1	O	304	GLU	C-N-CA	7.32	130.43	120.54
1	e	500	THR	O-C-N	-7.32	114.36	122.12
1	G	695	ARG	NE-CZ-NH2	-7.32	112.61	119.20
1	J	662	GLN	O-C-N	-7.32	114.36	122.12
1	n	452	ASN	OD1-CG-ND2	-7.32	115.28	122.60
1	t	405	ARG	CA-C-O	7.32	128.39	119.31
1	E	120	ALA	O-C-N	-7.32	116.82	123.41
1	W	547	GLN	N-CA-C	7.32	118.90	111.07
1	3	133	SER	N-CA-C	-7.32	103.01	112.23
1	P	175	ASN	CA-CB-CG	-7.32	105.28	112.60
1	W	303	THR	CA-C-N	7.32	129.95	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	303	THR	C-N-CA	7.32	129.95	120.44
1	6	483	TYR	N-CA-C	7.32	119.89	111.11
1	6	597	PHE	N-CA-C	7.32	118.90	111.07
1	b	538	HIS	ND1-CE1-NE2	7.32	115.72	108.40
1	h	469	THR	N-CA-CB	7.32	120.88	110.12
1	i	310	VAL	N-CA-C	7.32	118.08	110.62
1	y	400	ALA	O-C-N	-7.32	113.81	122.15
1	M	434	GLU	CA-C-N	7.32	130.09	120.28
1	M	434	GLU	C-N-CA	7.32	130.09	120.28
1	W	459	LYS	O-C-N	-7.32	114.36	122.12
1	9	419	MET	O-C-N	-7.32	114.36	122.12
1	g	99	PRO	CB-CA-C	-7.32	101.43	112.11
1	p	261	LEU	CA-C-O	7.32	128.13	120.30
1	t	335	ASN	N-CA-C	7.32	120.84	110.23
1	t	633	TYR	O-C-N	-7.32	113.81	122.15
1	D	507	GLN	O-C-N	-7.32	114.53	122.07
1	G	659	ASP	CA-C-N	7.32	130.41	120.54
1	G	659	ASP	C-N-CA	7.32	130.41	120.54
1	0	236	ASN	CA-CB-CG	-7.31	105.29	112.60
1	a	331	GLN	CA-C-N	7.31	129.95	120.44
1	a	331	GLN	C-N-CA	7.31	129.95	120.44
1	Y	406	ARG	N-CA-C	7.31	120.31	111.82
1	q	135	LEU	CA-C-N	7.31	130.41	120.54
1	q	135	LEU	C-N-CA	7.31	130.41	120.54
1	s	509	ILE	CA-C-O	7.31	128.37	120.47
1	u	506	HIS	CE1-NE2-CD2	-7.31	101.69	109.00
1	N	187	GLU	CA-C-N	7.31	130.39	120.44
1	N	187	GLU	C-N-CA	7.31	130.39	120.44
1	P	581	GLN	CA-C-O	-7.31	113.63	121.45
1	3	566	ASN	N-CA-CB	-7.31	99.47	110.07
1	b	505	VAL	CA-C-N	7.31	130.08	120.28
1	b	505	VAL	C-N-CA	7.31	130.08	120.28
1	h	429	PHE	O-C-N	7.31	129.60	122.07
1	o	419	MET	N-CA-C	7.31	119.25	111.28
1	w	367	VAL	CA-C-O	-7.31	112.60	119.62
1	x	682	GLN	O-C-N	-7.31	114.54	122.07
1	y	417	ASP	CA-CB-CG	-7.31	105.29	112.60
1	H	518	SER	N-CA-CB	7.31	121.61	110.28
1	J	109	ALA	N-CA-C	7.31	119.25	111.28
1	O	560	HIS	ND1-CE1-NE2	7.31	115.71	108.40
1	V	427	LYS	N-CA-C	7.31	119.88	111.11
1	7	486	GLN	OE1-CD-NE2	-7.31	115.29	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	428	MET	N-CA-C	7.31	119.25	111.28
1	d	215	SER	CB-CA-C	-7.31	100.58	110.22
1	g	503	ILE	O-C-N	-7.31	113.54	121.80
1	h	709	PHE	N-CA-C	7.31	119.25	111.28
1	j	474	ASN	CA-CB-CG	-7.31	105.29	112.60
1	y	541	GLU	N-CA-C	7.31	120.17	111.33
1	H	568	ILE	O-C-N	-7.31	114.63	121.94
1	J	325	VAL	O-C-N	-7.31	115.51	123.18
1	i	287	ASP	N-CA-CB	-7.31	99.80	110.47
1	p	572	PHE	CA-C-N	7.31	130.40	120.54
1	p	572	PHE	C-N-CA	7.31	130.40	120.54
1	t	691	ILE	CB-CA-C	-7.31	102.45	112.02
1	8	486	GLN	CA-C-N	7.30	130.07	120.28
1	8	486	GLN	C-N-CA	7.30	130.07	120.28
1	E	94	GLU	CA-C-N	7.30	130.07	120.28
1	E	94	GLU	C-N-CA	7.30	130.07	120.28
1	J	449	ARG	NE-CZ-NH1	-7.30	114.19	121.50
1	5	536	LYS	N-CA-C	7.30	119.24	111.28
1	j	553	ILE	N-CA-CB	7.30	119.09	110.55
1	x	145	ARG	O-C-N	-7.30	113.67	122.22
1	3	682	GLN	CA-C-O	-7.30	113.15	120.82
1	6	336	ARG	NE-CZ-NH1	7.30	128.80	121.50
1	6	472	VAL	N-CA-C	-7.30	104.40	112.80
1	n	275	ALA	N-CA-C	7.30	119.24	111.28
1	t	395	GLU	N-CA-C	7.30	119.24	111.28
1	K	307	VAL	CA-C-O	-7.30	113.68	121.27
1	K	361	GLU	N-CA-C	7.30	118.88	111.07
1	M	344	LYS	N-CA-C	7.30	119.24	111.28
1	Y	101	ILE	CA-C-N	7.30	130.06	120.28
1	Y	101	ILE	C-N-CA	7.30	130.06	120.28
1	c	652	PHE	CA-CB-CG	-7.30	106.50	113.80
1	d	424	GLU	O-C-N	-7.30	114.38	122.12
1	e	312	ARG	NE-CZ-NH2	-7.30	112.63	119.20
1	p	649	ILE	N-CA-C	7.30	118.06	110.62
1	q	636	GLU	N-CA-C	7.30	118.88	111.07
1	Q	658	GLY	N-CA-C	7.30	120.97	112.50
1	G	709	PHE	CA-CB-CG	7.30	121.10	113.80
1	8	374	LEU	CA-C-N	7.30	130.06	120.28
1	8	374	LEU	C-N-CA	7.30	130.06	120.28
1	b	193	ALA	N-CA-C	7.30	119.23	111.28
1	c	191	HIS	CE1-NE2-CD2	-7.30	101.70	109.00
1	c	589	LEU	CA-C-N	7.30	130.65	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	589	LEU	C-N-CA	7.30	130.65	120.29
1	G	573	ARG	CA-C-N	7.30	129.93	120.44
1	G	573	ARG	C-N-CA	7.30	129.93	120.44
1	S	551	SER	CA-C-O	7.30	128.51	120.63
1	6	202	ARG	NE-CZ-NH1	7.29	128.79	121.50
1	9	507	GLN	OE1-CD-NE2	-7.29	115.31	122.60
1	h	459	LYS	CA-C-N	7.29	131.40	120.31
1	h	459	LYS	C-N-CA	7.29	131.40	120.31
1	d	682	GLN	N-CA-C	7.29	118.87	111.07
1	B	448	THR	CB-CA-C	7.29	121.98	109.51
1	H	351	GLN	N-CA-C	7.29	120.10	111.71
1	N	196	VAL	O-C-N	-7.29	114.80	121.87
1	N	497	ASN	CA-C-N	7.29	131.40	120.31
1	N	497	ASN	C-N-CA	7.29	131.40	120.31
1	V	152	ARG	NE-CZ-NH2	-7.29	112.64	119.20
1	Z	532	ILE	CA-C-N	7.29	129.92	120.44
1	Z	532	ILE	C-N-CA	7.29	129.92	120.44
1	3	289	THR	N-CA-CB	7.29	122.02	110.65
1	4	477	HIS	ND1-CE1-NE2	7.29	115.69	108.40
1	7	400	ALA	CA-C-N	7.29	129.92	120.44
1	7	400	ALA	C-N-CA	7.29	129.92	120.44
1	b	400	ALA	O-C-N	-7.29	114.45	122.03
1	p	455	ARG	NH1-CZ-NH2	-7.29	109.82	119.30
1	p	564	ALA	N-CA-C	7.29	119.31	111.36
1	y	423	ILE	CA-C-O	-7.29	113.37	120.95
1	L	271	ALA	N-CA-C	7.29	120.15	111.33
1	M	108	ARG	NE-CZ-NH1	7.29	128.79	121.50
1	O	504	ILE	N-CA-C	7.29	120.16	111.05
1	7	108	ARG	NH1-CZ-NH2	-7.29	109.83	119.30
1	8	166	ALA	N-CA-C	7.29	120.26	110.35
1	d	550	GLN	N-CA-C	7.29	120.15	111.33
1	h	370	LEU	CA-C-N	7.29	130.05	120.28
1	h	370	LEU	C-N-CA	7.29	130.05	120.28
1	y	325	VAL	CA-C-N	7.29	131.92	121.50
1	y	325	VAL	C-N-CA	7.29	131.92	121.50
1	y	575	GLU	N-CA-C	7.29	120.28	111.82
1	A	239	ARG	CA-C-N	7.29	134.82	121.70
1	A	239	ARG	C-N-CA	7.29	134.82	121.70
1	L	417	ASP	CA-C-N	7.29	129.92	120.44
1	L	417	ASP	C-N-CA	7.29	129.92	120.44
1	M	557	LYS	N-CA-C	7.29	119.86	111.11
1	O	578	VAL	N-CA-CB	-7.29	102.79	110.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	698	ARG	NE-CZ-NH1	7.29	128.79	121.50
1	6	301	ARG	NE-CZ-NH2	-7.29	112.64	119.20
1	d	596	ILE	CA-C-N	7.29	130.37	120.54
1	d	596	ILE	C-N-CA	7.29	130.37	120.54
1	n	213	ILE	N-CA-C	-7.29	97.91	108.11
1	q	659	ASP	CA-CB-CG	7.29	119.89	112.60
1	u	495	PHE	N-CA-CB	7.29	122.89	110.50
1	n	528	GLN	CA-C-O	7.28	128.69	120.90
1	y	684	GLU	N-CA-C	7.28	119.85	111.11
1	9	568	ILE	N-CA-CB	7.28	120.44	110.54
1	l	583	GLN	OE1-CD-NE2	7.28	129.88	122.60
1	s	357	ARG	N-CA-C	-7.28	103.42	111.36
1	O	659	ASP	N-CA-C	7.28	119.30	111.36
1	C	571	GLN	OE1-CD-NE2	-7.28	115.32	122.60
1	T	596	ILE	N-CA-CB	7.28	119.07	110.55
1	l	548	THR	CA-C-N	7.28	129.73	120.56
1	l	548	THR	C-N-CA	7.28	129.73	120.56
1	o	486	GLN	CA-C-O	7.28	130.92	120.51
1	B	633	TYR	N-CA-C	7.28	118.86	111.07
1	O	522	LYS	N-CA-C	7.28	118.86	111.07
1	L	644	GLN	CA-C-N	7.28	124.82	120.24
1	L	644	GLN	C-N-CA	7.28	124.82	120.24
1	L	690	ARG	N-CA-C	7.28	119.84	111.11
1	M	353	HIS	O-C-N	-7.28	112.95	121.32
1	M	533	ASN	N-CA-C	7.28	118.86	111.07
1	g	506	HIS	ND1-CE1-NE2	7.28	115.68	108.40
1	t	376	THR	CA-C-N	7.28	129.90	120.44
1	t	376	THR	C-N-CA	7.28	129.90	120.44
1	w	335	ASN	CA-C-N	7.28	133.15	122.82
1	w	335	ASN	C-N-CA	7.28	133.15	122.82
1	y	528	GLN	CA-C-O	7.28	128.69	120.90
1	A	136	GLU	CB-CG-CD	-7.28	100.23	112.60
1	V	509	ILE	CA-C-N	7.28	130.03	120.28
1	V	509	ILE	C-N-CA	7.28	130.03	120.28
1	g	301	ARG	NE-CZ-NH2	-7.27	112.65	119.20
1	i	108	ARG	NH1-CZ-NH2	-7.27	109.84	119.30
1	T	130	GLY	CA-C-N	7.27	130.03	120.28
1	T	130	GLY	C-N-CA	7.27	130.03	120.28
1	f	497	ASN	OD1-CG-ND2	-7.27	115.33	122.60
1	g	356	PHE	CA-CB-CG	7.27	121.07	113.80
1	I	97	VAL	CA-C-N	7.27	129.18	120.09
1	I	97	VAL	C-N-CA	7.27	129.18	120.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	197	MET	N-CA-C	7.27	119.00	111.14
1	5	328	ARG	CA-C-N	7.27	130.37	120.92
1	5	328	ARG	C-N-CA	7.27	130.37	120.92
1	p	556	ILE	CA-C-O	7.27	128.88	121.17
1	X	449	ARG	NE-CZ-NH1	7.27	128.77	121.50
1	7	661	LEU	CA-C-O	7.27	128.26	120.55
1	n	544	ASN	N-CA-C	-7.27	103.38	112.90
1	t	330	GLN	N-CA-C	7.27	119.20	111.28
1	C	241	ILE	CA-C-N	7.27	128.05	119.98
1	C	241	ILE	C-N-CA	7.27	128.05	119.98
1	1	249	ILE	CA-C-N	7.27	130.02	120.28
1	1	249	ILE	C-N-CA	7.27	130.02	120.28
1	3	298	LEU	CA-C-O	7.27	127.77	119.27
1	j	118	LEU	O-C-N	-7.27	113.29	121.36
1	o	153	CYS	CA-C-N	7.27	128.92	119.84
1	o	153	CYS	C-N-CA	7.27	128.92	119.84
1	H	478	GLU	N-CA-C	7.27	119.83	111.11
1	R	318	LEU	N-CA-C	-7.27	98.26	109.52
1	V	502	GLU	N-CA-C	7.27	118.85	111.07
1	8	689	ARG	O-C-N	-7.27	114.42	122.12
1	e	215	SER	N-CA-C	-7.27	101.68	108.22
1	i	107	LEU	N-CA-C	7.27	119.28	111.36
1	l	353	HIS	N-CA-CB	7.27	120.39	110.14
1	a	239	ARG	CA-C-N	7.26	134.78	121.70
1	a	239	ARG	C-N-CA	7.26	134.78	121.70
1	m	381	HIS	ND1-CE1-NE2	7.26	115.66	108.40
1	A	468	ASN	CA-CB-CG	-7.26	105.33	112.60
1	V	433	ILE	N-CA-C	7.26	117.99	110.36
1	r	222	THR	O-C-N	-7.26	114.77	123.27
1	R	590	LYS	CA-C-N	7.26	130.34	120.54
1	R	590	LYS	C-N-CA	7.26	130.34	120.54
1	Y	389	LEU	CA-C-N	7.26	129.88	120.44
1	Y	389	LEU	C-N-CA	7.26	129.88	120.44
1	Y	479	GLU	N-CA-C	7.26	119.28	111.36
1	0	104	ILE	CA-C-N	7.26	130.34	120.54
1	0	104	ILE	C-N-CA	7.26	130.34	120.54
1	1	406	ARG	NE-CZ-NH1	7.26	128.76	121.50
1	4	392	GLN	N-CA-C	7.26	119.83	111.11
1	5	431	GLN	OE1-CD-NE2	-7.26	115.34	122.60
1	v	254	GLN	CA-C-O	7.26	128.25	120.55
1	Z	224	ILE	CA-C-O	7.26	128.02	120.39
1	q	309	ASN	CA-C-N	7.26	130.73	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	q	309	ASN	C-N-CA	7.26	130.73	120.42
1	w	690	ARG	NE-CZ-NH2	-7.26	112.67	119.20
1	x	350	PHE	N-CA-C	7.26	119.19	111.28
1	S	206	HIS	CE1-NE2-CD2	-7.26	101.74	109.00
1	m	471	LYS	N-CA-C	7.26	119.19	111.28
1	o	511	GLN	CA-C-N	7.26	132.84	120.72
1	o	511	GLN	C-N-CA	7.26	132.84	120.72
1	I	675	TYR	O-C-N	-7.26	114.43	122.12
1	Z	425	LYS	N-CA-C	7.26	119.19	111.28
1	2	560	HIS	CA-C-N	7.26	129.87	120.44
1	2	560	HIS	C-N-CA	7.26	129.87	120.44
1	E	381	HIS	N-CA-C	7.26	119.19	111.28
1	K	343	THR	N-CA-C	7.26	118.83	111.07
1	Q	506	HIS	CB-CA-C	-7.26	98.74	110.79
1	Q	685	THR	CA-C-N	7.26	129.87	120.44
1	Q	685	THR	C-N-CA	7.26	129.87	120.44
1	S	645	ILE	O-C-N	7.26	125.22	120.07
1	W	570	LEU	CA-C-N	7.26	129.87	120.44
1	W	570	LEU	C-N-CA	7.26	129.87	120.44
1	d	563	LYS	O-C-N	-7.25	113.88	122.15
1	p	270	ILE	N-CA-C	7.25	118.02	110.62
1	D	429	PHE	CA-C-N	7.25	130.34	120.54
1	D	429	PHE	C-N-CA	7.25	130.34	120.54
1	T	148	GLY	CA-C-N	7.25	135.03	121.97
1	T	148	GLY	C-N-CA	7.25	135.03	121.97
1	Z	394	ARG	N-CA-C	7.25	119.19	111.28
1	1	197	MET	CG-SD-CE	-7.25	84.94	100.90
1	7	535	ALA	N-CA-C	7.25	118.83	111.07
1	d	640	ARG	N-CA-C	7.25	119.27	111.36
1	l	698	ARG	N-CA-C	7.25	118.83	111.07
1	q	518	SER	N-CA-C	7.25	120.11	111.33
1	A	663	LYS	CA-C-N	7.25	130.00	120.28
1	A	663	LYS	C-N-CA	7.25	130.00	120.28
1	H	460	ASN	CA-C-N	7.25	129.87	120.44
1	H	460	ASN	C-N-CA	7.25	129.87	120.44
1	1	264	VAL	CA-C-N	7.25	127.23	119.76
1	1	264	VAL	C-N-CA	7.25	127.23	119.76
1	B	543	PHE	N-CA-C	7.25	119.81	111.11
1	D	126	ASP	CA-CB-CG	-7.25	105.35	112.60
1	G	689	ARG	N-CA-C	7.25	119.81	111.11
1	H	563	LYS	CB-CA-C	-7.25	99.50	110.88
1	S	691	ILE	CB-CA-C	7.25	121.54	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	221	LEU	O-C-N	-7.25	115.21	123.48
1	8	291	GLY	CA-C-O	7.25	126.63	120.76
1	A	340	ALA	N-CA-C	7.25	119.81	111.11
1	0	433	ILE	CA-C-N	7.25	129.99	120.28
1	0	433	ILE	C-N-CA	7.25	129.99	120.28
1	0	689	ARG	N-CA-C	7.25	119.81	111.11
1	t	367	VAL	CA-C-N	7.25	129.15	120.23
1	t	367	VAL	C-N-CA	7.25	129.15	120.23
1	D	312	ARG	NE-CZ-NH2	7.25	125.72	119.20
1	Y	648	ILE	O-C-N	-7.25	114.84	121.87
1	1	239	ARG	CA-C-N	7.25	134.74	121.70
1	1	239	ARG	C-N-CA	7.25	134.74	121.70
1	2	465	LEU	CA-C-N	7.25	130.58	120.29
1	2	465	LEU	C-N-CA	7.25	130.58	120.29
1	6	236	ASN	CA-CB-CG	7.25	119.85	112.60
1	j	532	ILE	N-CA-C	7.25	118.01	110.62
1	n	638	SER	N-CA-C	7.25	120.10	111.33
1	S	251	LYS	N-CA-C	7.25	120.04	111.71
1	X	587	VAL	N-CA-C	7.25	118.04	110.72
1	1	560	HIS	CA-CB-CG	-7.24	106.56	113.80
1	q	155	LEU	CA-C-N	-7.24	113.70	123.12
1	q	155	LEU	C-N-CA	-7.24	113.70	123.12
1	Z	223	ILE	N-CA-C	7.24	118.78	108.42
1	b	544	ASN	CA-CB-CG	-7.24	105.36	112.60
1	o	651	TYR	N-CA-C	7.24	118.82	111.07
1	s	401	THR	CA-C-O	-7.24	112.87	120.55
1	y	260	ASN	OD1-CG-ND2	-7.24	115.36	122.60
1	b	361	GLU	CA-C-O	7.24	128.22	120.55
1	s	494	GLY	CA-C-N	7.24	134.73	121.70
1	s	494	GLY	C-N-CA	7.24	134.73	121.70
1	t	215	SER	O-C-N	-7.24	115.12	121.71
1	D	350	PHE	CA-CB-CG	7.24	121.04	113.80
1	F	368	PRO	N-CA-CB	7.24	107.57	102.65
1	4	324	ILE	CB-CA-C	7.24	121.44	111.31
1	b	98	ARG	NE-CZ-NH1	7.24	128.74	121.50
1	h	684	GLU	N-CA-C	7.24	118.82	111.07
1	i	135	LEU	CA-C-O	7.24	128.22	120.55
1	k	93	TYR	CA-C-N	7.24	129.98	120.28
1	k	93	TYR	C-N-CA	7.24	129.98	120.28
1	r	334	THR	N-CA-C	7.24	119.25	111.36
1	Q	539	PHE	CA-CB-CG	-7.24	106.56	113.80
1	U	706	LEU	CA-C-N	7.24	130.57	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	706	LEU	C-N-CA	7.24	130.57	120.29
1	Z	329	GLY	CA-C-N	7.24	130.70	120.28
1	Z	329	GLY	C-N-CA	7.24	130.70	120.28
1	9	641	LEU	CA-C-N	7.24	129.98	120.28
1	9	641	LEU	C-N-CA	7.24	129.98	120.28
1	g	369	ARG	NE-CZ-NH1	7.24	128.74	121.50
1	t	364	SER	O-C-N	7.24	130.86	122.25
1	t	494	GLY	N-CA-C	7.24	123.78	111.98
1	m	342	ALA	CA-C-N	7.24	130.31	120.54
1	m	342	ALA	C-N-CA	7.24	130.31	120.54
1	q	454	ILE	CA-C-N	7.24	129.84	120.44
1	q	454	ILE	C-N-CA	7.24	129.84	120.44
1	Q	185	GLN	CA-C-N	7.24	130.37	120.46
1	Q	185	GLN	C-N-CA	7.24	130.37	120.46
1	R	656	GLU	CA-C-N	7.24	130.31	120.54
1	R	656	GLU	C-N-CA	7.24	130.31	120.54
1	S	248	LEU	N-CA-C	7.24	118.81	111.07
1	b	231	ARG	CA-C-N	7.23	131.31	120.75
1	b	231	ARG	C-N-CA	7.23	131.31	120.75
1	B	403	GLU	N-CA-C	7.23	119.17	111.28
1	E	340	ALA	O-C-N	-7.23	114.45	122.12
1	i	303	THR	CA-CB-CG2	-7.23	98.20	110.50
1	l	535	ALA	CA-C-O	7.23	128.22	120.55
1	C	509	ILE	N-CA-C	7.23	118.00	110.62
1	E	173	TYR	O-C-N	-7.23	113.06	122.39
1	E	525	GLU	CA-C-N	7.23	129.82	120.56
1	E	525	GLU	C-N-CA	7.23	129.82	120.56
1	O	421	PHE	CA-C-N	7.23	129.84	120.44
1	O	421	PHE	C-N-CA	7.23	129.84	120.44
1	8	138	LEU	N-CA-C	7.23	119.16	111.28
1	p	679	LEU	O-C-N	-7.23	113.46	122.35
1	q	262	VAL	CA-C-O	7.23	129.13	120.67
1	G	301	ARG	NE-CZ-NH1	7.23	128.73	121.50
1	L	110	LEU	CA-C-O	7.23	128.03	119.28
1	U	538	HIS	ND1-CE1-NE2	7.23	115.63	108.40
1	E	696	ILE	CA-C-N	7.23	130.30	120.54
1	E	696	ILE	C-N-CA	7.23	130.30	120.54
1	M	426	ILE	N-CA-C	7.23	118.02	110.72
1	0	640	ARG	NE-CZ-NH2	7.23	125.70	119.20
1	j	342	ALA	N-CA-CB	-7.23	99.17	110.30
1	m	673	ASN	OD1-CG-ND2	-7.23	115.37	122.60
1	t	339	LEU	N-CA-C	7.23	120.02	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	336	ARG	NH1-CZ-NH2	-7.23	109.90	119.30
1	w	703	ARG	N-CA-C	-7.23	103.48	111.36
1	C	431	GLN	CA-C-N	7.23	129.97	120.28
1	C	431	GLN	C-N-CA	7.23	129.97	120.28
1	O	441	GLU	N-CA-C	7.23	120.71	110.23
1	R	467	THR	O-C-N	-7.23	114.46	122.12
1	R	535	ALA	N-CA-C	7.23	118.80	111.07
1	U	703	ARG	NH1-CZ-NH2	-7.23	109.90	119.30
1	X	369	ARG	CA-C-N	7.23	129.84	120.44
1	X	369	ARG	C-N-CA	7.23	129.84	120.44
1	k	367	VAL	CA-C-N	7.23	127.20	119.76
1	k	367	VAL	C-N-CA	7.23	127.20	119.76
1	l	460	ASN	OD1-CG-ND2	-7.23	115.37	122.60
1	r	697	TYR	N-CA-C	7.23	118.80	111.07
1	O	669	LEU	N-CA-C	7.23	120.07	111.33
1	0	655	ARG	NE-CZ-NH2	7.22	125.70	119.20
1	3	505	VAL	O-C-N	-7.22	114.86	121.87
1	a	633	TYR	N-CA-C	7.22	118.80	111.07
1	c	186	VAL	N-CA-C	7.22	118.02	110.72
1	B	102	ASP	CA-CB-CG	7.22	119.83	112.60
1	L	524	MET	CA-C-N	7.22	129.96	120.28
1	L	524	MET	C-N-CA	7.22	129.96	120.28
1	M	397	HIS	CA-CB-CG	7.22	121.03	113.80
1	N	267	ASN	CA-CB-CG	7.22	119.83	112.60
1	P	298	LEU	N-CA-C	7.22	119.15	111.28
1	3	477	HIS	CE1-NE2-CD2	-7.22	101.78	109.00
1	f	226	LEU	CB-CA-C	7.22	119.88	109.26
1	v	593	ARG	NE-CZ-NH2	-7.22	112.70	119.20
1	G	206	HIS	ND1-CE1-NE2	7.22	115.62	108.40
1	I	180	LEU	CA-C-N	7.22	137.73	125.02
1	I	180	LEU	C-N-CA	7.22	137.73	125.02
1	R	536	LYS	CA-C-O	7.22	128.21	120.55
1	S	415	GLU	CA-C-O	7.22	128.21	120.55
1	h	407	CYS	CA-C-O	7.22	129.01	120.20
1	s	564	ALA	N-CA-C	7.22	119.15	111.28
1	B	194	GLN	OE1-CD-NE2	-7.22	115.38	122.60
1	K	569	GLN	CA-C-N	7.22	129.83	120.44
1	K	569	GLN	C-N-CA	7.22	129.83	120.44
1	b	443	VAL	CB-CA-C	-7.22	102.63	111.08
1	v	241	ILE	CA-C-N	7.22	127.94	120.00
1	v	241	ILE	C-N-CA	7.22	127.94	120.00
1	x	98	ARG	N-CA-C	7.22	123.41	113.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	396	SER	N-CA-CB	7.22	120.48	110.01
1	K	348	THR	N-CA-C	7.22	120.06	111.33
1	S	166	ALA	O-C-N	-7.22	114.08	122.89
1	Y	98	ARG	NE-CZ-NH1	-7.22	114.28	121.50
1	l	471	LYS	N-CA-C	7.22	119.77	111.11
1	o	127	GLN	N-CA-C	7.22	120.06	111.33
1	o	629	HIS	ND1-CE1-NE2	7.22	115.62	108.40
1	z	457	ASP	O-C-N	-7.22	114.47	122.12
1	1	650	GLN	N-CA-C	7.22	119.15	111.28
1	7	344	LYS	N-CA-C	7.22	120.01	111.71
1	a	280	HIS	ND1-CE1-NE2	7.22	115.62	108.40
1	J	634	PHE	N-CA-CB	7.22	120.89	110.06
1	O	494	GLY	CA-C-N	7.22	134.69	121.70
1	O	494	GLY	C-N-CA	7.22	134.69	121.70
1	P	236	ASN	O-C-N	-7.22	114.98	123.06
1	R	313	ASN	OD1-CG-ND2	-7.22	115.38	122.60
1	T	640	ARG	N-CA-C	7.22	119.15	111.28
1	U	155	LEU	O-C-N	-7.22	114.71	123.30
1	5	343	THR	CA-C-N	7.21	130.17	120.65
1	5	343	THR	C-N-CA	7.21	130.17	120.65
1	5	667	GLN	N-CA-C	7.21	121.18	112.38
1	j	479	GLU	O-C-N	-7.21	112.66	122.33
1	Z	589	LEU	CA-C-N	7.21	129.95	120.28
1	Z	589	LEU	C-N-CA	7.21	129.95	120.28
1	J	191	HIS	CE1-NE2-CD2	-7.21	101.79	109.00
1	3	307	VAL	O-C-N	-7.21	114.84	121.91
1	1	182	ASP	CB-CA-C	7.21	119.15	109.42
1	9	220	ASP	CA-CB-CG	-7.21	105.39	112.60
1	R	593	ARG	O-C-N	-7.21	114.64	122.07
1	W	239	ARG	O-C-N	-7.21	115.03	123.25
1	1	214	THR	O-C-N	-7.21	114.76	123.27
1	2	286	GLY	CA-C-N	7.21	132.93	120.68
1	2	286	GLY	C-N-CA	7.21	132.93	120.68
1	9	345	LYS	N-CA-CB	7.21	120.83	110.16
1	A	209	ILE	O-C-N	-7.21	115.61	123.18
1	F	540	GLY	CA-C-N	7.21	129.94	120.28
1	F	540	GLY	C-N-CA	7.21	129.94	120.28
1	U	704	HIS	CA-C-N	7.21	131.27	120.31
1	U	704	HIS	C-N-CA	7.21	131.27	120.31
1	X	245	ILE	N-CA-C	7.21	117.34	110.42
1	X	308	MET	N-CA-C	7.21	119.14	111.28
1	t	319	LYS	N-CA-C	7.21	119.14	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	x	309	ASN	OD1-CG-ND2	-7.21	115.39	122.60
1	M	301	ARG	N-CA-C	7.21	121.77	110.17
1	8	286	GLY	CA-C-N	7.21	130.24	120.44
1	8	286	GLY	C-N-CA	7.21	130.24	120.44
1	b	164	CYS	N-CA-CB	7.21	121.24	110.29
1	5	423	ILE	N-CA-C	7.20	120.09	111.09
1	5	434	GLU	CA-C-N	7.20	129.80	120.44
1	5	434	GLU	C-N-CA	7.20	129.80	120.44
1	m	649	ILE	N-CA-C	7.20	117.33	110.42
1	n	98	ARG	NH1-CZ-NH2	-7.20	109.94	119.30
1	A	258	THR	O-C-N	-7.20	114.29	122.93
1	B	321	GLY	CA-C-O	7.20	132.04	122.39
1	Z	118	LEU	O-C-N	7.20	129.60	121.32
1	A	697	TYR	O-C-N	-7.20	114.60	122.09
1	P	381	HIS	O-C-N	-7.20	114.65	122.07
1	l	421	PHE	CA-C-N	7.20	130.23	120.44
1	l	421	PHE	C-N-CA	7.20	130.23	120.44
1	O	560	HIS	CG-CD2-NE2	7.20	114.40	107.20
1	W	474	ASN	OD1-CG-ND2	-7.20	115.40	122.60
1	b	381	HIS	CB-CG-ND1	7.20	133.50	122.70
1	q	151	THR	N-CA-C	7.20	120.76	109.96
1	s	127	GLN	OE1-CD-NE2	-7.20	115.40	122.60
1	H	319	LYS	N-CA-C	-7.20	103.51	111.36
1	6	639	LYS	N-CA-C	7.20	120.04	111.33
1	c	178	LEU	CA-C-O	7.20	129.13	120.28
1	d	450	LEU	CA-C-O	7.20	128.60	120.90
1	j	426	ILE	O-C-N	-7.20	114.89	121.87
1	j	531	PHE	N-CA-C	7.20	119.12	111.28
1	q	705	ALA	N-CA-CB	7.20	120.70	110.12
1	s	672	LYS	N-CA-C	7.20	120.17	111.82
1	B	230	THR	CA-CB-OG1	7.20	120.39	109.60
1	G	373	ARG	CA-C-O	7.20	128.05	120.42
1	J	302	GLY	CA-C-N	7.20	129.79	120.44
1	J	302	GLY	C-N-CA	7.20	129.79	120.44
1	K	566	ASN	OD1-CG-ND2	7.20	129.79	122.60
1	r	709	PHE	CA-CB-CG	-7.19	106.61	113.80
1	t	143	LEU	CA-C-N	7.19	127.24	119.90
1	t	143	LEU	C-N-CA	7.19	127.24	119.90
1	M	223	ILE	N-CA-C	7.19	118.18	108.11
1	T	670	GLN	N-CA-C	7.19	119.20	111.36
1	q	241	ILE	CA-C-N	7.19	128.12	119.99
1	q	241	ILE	C-N-CA	7.19	128.12	119.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	u	506	HIS	CG-CD2-NE2	7.19	114.39	107.20
1	w	250	LYS	N-CA-C	7.19	120.03	111.33
1	N	220	ASP	CB-CA-C	-7.19	98.11	109.84
1	X	441	GLU	N-CA-C	-7.19	98.14	109.07
1	f	207	GLU	O-C-N	-7.19	113.84	123.19
1	n	94	GLU	CA-C-N	7.19	129.79	120.44
1	n	94	GLU	C-N-CA	7.19	129.79	120.44
1	y	195	ASN	N-CA-C	7.19	118.76	111.07
1	A	388	LEU	CA-C-N	7.19	129.91	120.28
1	A	388	LEU	C-N-CA	7.19	129.91	120.28
1	o	460	ASN	CA-C-O	7.19	128.04	120.42
1	w	477	HIS	CA-CB-CG	7.19	120.99	113.80
1	F	650	GLN	N-CA-CB	7.19	120.49	110.07
1	8	288	ARG	NH1-CZ-NH2	-7.19	109.96	119.30
1	8	497	ASN	N-CA-CB	-7.19	99.12	110.69
1	g	449	ARG	NE-CZ-NH1	7.19	128.69	121.50
1	r	345	LYS	N-CA-C	7.19	118.76	111.07
1	Q	540	GLY	CA-C-N	7.19	130.24	120.54
1	Q	540	GLY	C-N-CA	7.19	130.24	120.54
1	D	218	VAL	N-CA-CB	7.19	117.39	109.99
1	a	417	ASP	O-C-N	-7.18	114.33	122.09
1	k	695	ARG	N-CA-C	7.18	119.11	111.28
1	C	343	THR	N-CA-C	7.18	119.11	111.28
1	N	376	THR	N-CA-C	7.18	119.11	111.28
1	R	381	HIS	CG-CD2-NE2	7.18	114.39	107.20
1	T	661	LEU	O-C-N	-7.18	113.96	122.15
1	W	239	ARG	CA-C-N	7.18	134.63	121.70
1	W	239	ARG	C-N-CA	7.18	134.63	121.70
1	g	698	ARG	NE-CZ-NH1	7.18	128.68	121.50
1	v	544	ASN	OD1-CG-ND2	7.18	129.78	122.60
1	x	568	ILE	CA-C-O	7.18	128.78	121.17
1	y	539	PHE	CA-CB-CG	-7.18	106.62	113.80
1	k	397	HIS	CG-CD2-NE2	7.18	114.38	107.20
1	H	684	GLU	CA-C-O	7.18	128.23	119.97
1	5	690	ARG	CA-C-O	7.18	128.16	120.55
1	j	520	LEU	CA-C-O	-7.18	113.28	120.82
1	j	645	ILE	N-CA-CB	7.18	115.02	110.50
1	u	579	PHE	O-C-N	-7.18	114.91	123.31
1	G	357	ARG	NE-CZ-NH1	7.18	128.68	121.50
1	K	251	LYS	N-CA-C	7.18	120.02	111.33
1	M	573	ARG	CA-C-N	7.18	129.77	120.44
1	M	573	ARG	C-N-CA	7.18	129.77	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	707	CYS	CA-C-N	7.18	130.20	120.44
1	M	707	CYS	C-N-CA	7.18	130.20	120.44
1	7	692	LEU	N-CA-C	7.18	118.75	111.07
1	h	250	LYS	O-C-N	-7.18	114.51	122.12
1	F	130	GLY	CA-C-N	7.18	130.62	120.28
1	F	130	GLY	C-N-CA	7.18	130.62	120.28
1	J	630	LEU	CA-C-O	7.18	128.16	120.55
1	W	360	LEU	CA-C-O	7.18	128.09	120.70
1	j	390	GLU	N-CA-C	7.18	119.10	111.28
1	l	515	PRO	N-CA-CB	7.18	111.22	103.33
1	u	539	PHE	CA-C-O	7.18	128.63	119.95
1	y	572	PHE	CA-CB-CG	-7.18	106.62	113.80
1	F	585	TYR	CA-C-O	-7.18	112.94	120.55
1	O	671	GLU	CA-C-N	7.18	129.90	120.28
1	O	671	GLU	C-N-CA	7.18	129.90	120.28
1	X	309	ASN	CA-CB-CG	7.18	119.78	112.60
1	Y	128	SER	N-CA-CB	7.18	120.42	110.01
1	y	193	ALA	CA-C-O	7.17	128.35	120.82
1	D	570	LEU	O-C-N	-7.17	114.52	122.12
1	D	579	PHE	CA-CB-CG	7.17	120.97	113.80
1	R	355	TYR	N-CA-C	7.17	120.01	111.33
1	U	274	GLU	CA-C-N	7.17	130.48	120.29
1	U	274	GLU	C-N-CA	7.17	130.48	120.29
1	e	298	LEU	N-CA-C	7.17	119.10	111.28
1	j	277	SER	O-C-N	-7.17	114.68	122.07
1	l	678	LEU	CA-C-N	7.17	134.56	122.65
1	l	678	LEU	C-N-CA	7.17	134.56	122.65
1	s	449	ARG	NH1-CZ-NH2	-7.17	109.97	119.30
1	2	303	THR	CA-C-O	7.17	128.35	120.82
1	b	500	THR	N-CA-C	7.17	118.74	111.07
1	h	652	PHE	CA-CB-CG	-7.17	106.63	113.80
1	n	554	GLU	O-C-N	-7.17	114.52	122.12
1	p	662	GLN	N-CA-C	7.17	120.01	111.33
1	C	640	ARG	NE-CZ-NH1	7.17	128.67	121.50
1	N	563	LYS	N-CA-C	7.17	118.89	111.14
1	Y	379	ILE	N-CA-C	7.17	117.96	110.72
1	w	151	THR	N-CA-C	7.17	120.63	110.23
1	x	426	ILE	CB-CA-C	7.17	121.15	111.97
1	G	560	HIS	CB-CG-CD2	-7.17	121.88	131.20
1	Q	381	HIS	CA-CB-CG	-7.17	106.63	113.80
1	z	256	GLN	OE1-CD-NE2	-7.17	115.43	122.60
1	O	707	CYS	CA-C-O	7.17	128.15	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	631	ASN	CA-CB-CG	7.17	119.77	112.60
1	4	351	GLN	CA-C-O	7.16	128.34	120.82
1	5	476	ILE	CA-C-O	7.16	128.40	120.95
1	l	631	ASN	CA-CB-CG	7.16	119.76	112.60
1	x	492	LEU	N-CA-C	7.16	120.00	111.33
1	B	670	GLN	N-CA-C	7.16	118.88	111.14
1	M	583	GLN	CA-C-N	7.16	130.63	120.53
1	M	583	GLN	C-N-CA	7.16	130.63	120.53
1	9	425	LYS	N-CA-C	7.16	119.17	111.36
1	C	298	LEU	CA-C-O	7.16	128.21	119.97
1	3	555	ASP	CA-CB-CG	7.16	119.76	112.60
1	i	594	GLU	N-CA-C	7.16	119.16	111.36
1	t	114	GLN	OE1-CD-NE2	-7.16	115.44	122.60
1	G	673	ASN	N-CA-C	7.16	119.09	111.28
1	I	406	ARG	NE-CZ-NH1	7.16	128.66	121.50
1	r	108	ARG	CA-C-O	7.16	128.56	120.90
1	r	336	ARG	NH1-CZ-NH2	-7.16	109.99	119.30
1	w	664	ALA	N-CA-C	7.16	119.70	111.11
1	w	690	ARG	N-CA-C	7.16	119.94	111.71
1	C	546	ASN	CA-C-N	7.16	129.75	120.44
1	C	546	ASN	C-N-CA	7.16	129.75	120.44
1	G	581	GLN	CA-C-N	7.16	130.20	120.54
1	G	581	GLN	C-N-CA	7.16	130.20	120.54
1	J	354	PRO	N-CA-CB	-7.16	96.80	103.46
1	V	334	THR	CA-CB-OG1	7.16	120.34	109.60
1	d	497	ASN	CA-CB-CG	-7.16	105.44	112.60
1	q	500	THR	N-CA-CB	7.16	120.75	110.16
1	H	266	CYS	N-CA-C	7.16	121.11	112.38
1	o	526	ILE	CA-C-N	7.16	130.26	120.46
1	o	526	ILE	C-N-CA	7.16	130.26	120.46
1	o	544	ASN	CA-CB-CG	-7.16	105.44	112.60
1	x	186	VAL	CA-C-N	7.16	130.18	120.38
1	x	186	VAL	C-N-CA	7.16	130.18	120.38
1	D	541	GLU	N-CA-C	7.16	119.16	111.36
1	M	446	ASN	CA-CB-CG	7.16	119.76	112.60
1	Z	426	ILE	CB-CA-C	7.16	120.75	111.81
1	b	237	GLN	CA-C-O	-7.15	111.72	118.73
1	s	104	ILE	CB-CA-C	7.15	121.13	111.97
1	v	561	THR	CA-C-N	7.15	129.74	120.44
1	v	561	THR	C-N-CA	7.15	129.74	120.44
1	E	397	HIS	N-CA-C	7.15	119.08	111.28
1	O	701	GLN	CA-C-N	7.15	129.74	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	701	GLN	C-N-CA	7.15	129.74	120.44
1	P	135	LEU	N-CA-C	7.15	119.08	111.28
1	1	375	THR	O-C-N	-7.15	114.00	122.15
1	7	460	ASN	CA-C-N	7.15	130.19	120.54
1	7	460	ASN	C-N-CA	7.15	130.19	120.54
1	a	201	GLY	O-C-N	-7.15	114.54	122.55
1	m	313	ASN	CA-C-N	7.15	132.87	122.36
1	m	313	ASN	C-N-CA	7.15	132.87	122.36
1	E	269	ASP	CA-C-O	-7.15	112.77	120.92
1	F	561	THR	CA-C-N	7.15	130.20	120.54
1	F	561	THR	C-N-CA	7.15	130.20	120.54
1	J	137	ALA	N-CA-C	7.15	119.94	111.71
1	V	358	VAL	N-CA-C	7.15	117.29	110.42
1	Z	407	CYS	CA-C-O	7.15	128.93	120.70
1	b	125	GLY	CA-C-N	7.15	130.87	120.71
1	b	125	GLY	C-N-CA	7.15	130.87	120.71
1	d	326	LYS	O-C-N	-7.15	115.07	123.22
1	e	190	ILE	N-CA-C	7.15	120.03	111.09
1	h	487	TYR	N-CA-C	7.15	119.93	111.71
1	A	538	HIS	N-CA-CB	-7.15	101.01	110.88
1	E	304	GLU	CA-C-O	7.15	128.13	120.55
1	H	231	ARG	N-CA-CB	7.15	122.58	110.49
1	f	488	ARG	NE-CZ-NH2	-7.15	112.77	119.20
1	r	639	LYS	N-CA-C	7.15	119.69	111.11
1	z	681	GLU	N-CA-C	7.15	120.75	110.24
1	2	695	ARG	CA-C-O	7.15	128.32	120.82
1	f	658	GLY	CA-C-N	7.15	129.86	120.28
1	f	658	GLY	C-N-CA	7.15	129.86	120.28
1	l	565	GLU	N-CA-C	7.15	119.07	111.28
1	v	353	HIS	CA-C-N	7.15	128.77	119.84
1	v	353	HIS	C-N-CA	7.15	128.77	119.84
1	y	116	LEU	N-CA-CB	7.15	122.57	110.49
1	B	571	GLN	O-C-N	-7.15	114.71	122.07
1	Q	680	GLN	N-CA-C	7.15	120.75	110.24
1	8	241	ILE	CA-C-N	7.15	128.06	119.99
1	8	241	ILE	C-N-CA	7.15	128.06	119.99
1	e	405	ARG	CA-C-N	7.15	131.17	120.31
1	e	405	ARG	C-N-CA	7.15	131.17	120.31
1	k	501	PHE	CA-C-N	7.15	130.44	120.29
1	k	501	PHE	C-N-CA	7.15	130.44	120.29
1	r	114	GLN	N-CA-C	-7.15	100.90	110.55
1	D	246	LYS	N-CA-C	7.15	118.72	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	640	ARG	O-C-N	-7.15	114.71	122.07
1	4	629	HIS	CA-CB-CG	-7.14	106.66	113.80
1	t	444	ARG	NE-CZ-NH2	7.14	125.63	119.20
1	v	369	ARG	NE-CZ-NH2	7.14	125.63	119.20
1	C	695	ARG	N-CA-C	7.14	119.07	111.28
1	O	468	ASN	CA-CB-CG	-7.14	105.45	112.60
1	W	240	ASP	CA-C-N	7.14	130.56	120.42
1	W	240	ASP	C-N-CA	7.14	130.56	120.42
1	0	301	ARG	CA-C-N	7.14	127.91	119.98
1	0	301	ARG	C-N-CA	7.14	127.91	119.98
1	a	279	ALA	N-CA-CB	-7.14	99.30	110.30
1	S	507	GLN	O-C-N	-7.14	114.55	122.12
1	U	640	ARG	CA-C-N	7.14	129.85	120.28
1	U	640	ARG	C-N-CA	7.14	129.85	120.28
1	W	101	ILE	CA-C-N	7.14	130.57	120.28
1	W	101	ILE	C-N-CA	7.14	130.57	120.28
1	W	472	VAL	CA-C-N	7.14	129.85	120.28
1	W	472	VAL	C-N-CA	7.14	129.85	120.28
1	4	189	GLU	CB-CA-C	7.14	124.38	110.67
1	b	106	SER	CA-C-N	7.14	129.85	120.28
1	b	106	SER	C-N-CA	7.14	129.85	120.28
1	u	226	LEU	CA-C-O	-7.14	113.28	120.64
1	4	598	ASN	CA-CB-CG	7.14	119.74	112.60
1	i	649	ILE	N-CA-C	7.14	117.66	110.23
1	m	258	THR	N-CA-C	7.14	120.84	110.42
1	E	704	HIS	CE1-NE2-CD2	-7.14	101.86	109.00
1	G	206	HIS	CE1-NE2-CD2	-7.14	101.86	109.00
1	Q	412	PRO	N-CA-CB	-7.14	95.75	103.25
1	R	598	ASN	CA-CB-CG	7.14	119.74	112.60
1	b	127	GLN	OE1-CD-NE2	-7.14	115.46	122.60
1	x	255	ARG	O-C-N	-7.14	114.09	122.87
1	2	392	GLN	O-C-N	-7.14	114.56	122.12
1	u	631	ASN	CA-CB-CG	7.14	119.74	112.60
1	E	694	GLU	N-CA-C	7.14	119.06	111.28
1	Q	436	LEU	N-CA-C	7.14	118.71	111.07
1	R	561	THR	N-CA-C	-7.14	103.43	111.14
1	5	595	GLU	CA-C-N	-7.13	115.98	122.97
1	5	595	GLU	C-N-CA	-7.13	115.98	122.97
1	c	381	HIS	CE1-NE2-CD2	-7.13	101.87	109.00
1	Q	298	LEU	CA-C-O	7.13	128.06	119.43
1	Q	667	GLN	CA-C-N	7.13	130.59	120.53
1	Q	667	GLN	C-N-CA	7.13	130.59	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	206	HIS	CA-CB-CG	-7.13	106.67	113.80
1	7	392	GLN	N-CA-C	7.13	118.84	111.14
1	i	361	GLU	N-CA-C	7.13	118.70	111.07
1	z	174	ARG	NE-CZ-NH2	7.13	125.62	119.20
1	F	173	TYR	N-CA-C	7.13	120.92	112.93
1	d	433	ILE	N-CA-C	7.13	117.85	110.36
1	j	474	ASN	O-C-N	-7.13	114.56	122.12
1	r	697	TYR	O-C-N	-7.13	114.72	122.07
1	v	644	GLN	N-CA-CB	-7.13	99.64	110.12
1	C	181	GLN	CA-C-O	7.13	130.43	119.80
1	C	249	ILE	CA-C-O	-7.13	113.53	120.95
1	P	513	VAL	N-CA-C	7.13	117.23	110.53
1	T	691	ILE	N-CA-CB	7.13	118.39	110.62
1	3	460	ASN	OD1-CG-ND2	-7.13	115.47	122.60
1	3	635	LEU	O-C-N	-7.13	114.56	122.12
1	5	503	ILE	CA-C-O	7.13	128.47	121.05
1	g	455	ARG	NE-CZ-NH1	7.13	128.63	121.50
1	n	195	ASN	CA-CB-CG	-7.13	105.47	112.60
1	O	175	ASN	N-CA-CB	7.13	122.54	110.49
1	Z	387	PRO	CA-C-N	7.13	130.41	120.29
1	Z	387	PRO	C-N-CA	7.13	130.41	120.29
1	f	577	MET	CA-C-O	7.13	128.85	120.58
1	q	705	ALA	CA-C-N	7.13	129.83	120.28
1	q	705	ALA	C-N-CA	7.13	129.83	120.28
1	0	544	ASN	CA-C-N	7.13	129.83	120.28
1	0	544	ASN	C-N-CA	7.13	129.83	120.28
1	q	280	HIS	CE1-NE2-CD2	-7.13	101.87	109.00
1	B	504	ILE	N-CA-CB	7.13	119.69	110.57
1	H	146	GLY	O-C-N	-7.13	113.44	122.70
1	V	391	GLY	CA-C-O	-7.13	112.92	120.90
1	9	477	HIS	CE1-NE2-CD2	-7.12	101.88	109.00
1	G	490	LYS	N-CA-C	7.12	119.05	111.28
1	N	624	THR	N-CA-C	7.12	119.05	111.28
1	Y	349	PHE	N-CA-C	7.12	119.66	111.11
1	Y	390	GLU	CA-C-O	7.12	128.30	120.82
1	1	98	ARG	CA-C-N	7.12	126.61	118.85
1	1	98	ARG	C-N-CA	7.12	126.61	118.85
1	4	274	GLU	CA-C-O	7.12	128.10	120.55
1	a	430	ASN	N-CA-C	7.12	119.12	111.36
1	d	376	THR	CA-C-N	7.12	129.70	120.44
1	d	376	THR	C-N-CA	7.12	129.70	120.44
1	n	277	SER	CA-C-O	7.12	127.97	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	r	477	HIS	N-CA-C	-7.12	104.62	113.38
1	A	163	PRO	N-CA-C	-7.12	106.44	114.92
1	Q	309	ASN	CA-C-N	7.12	129.79	120.60
1	Q	309	ASN	C-N-CA	7.12	129.79	120.60
1	W	393	ILE	CB-CA-C	-7.12	102.85	111.97
1	5	701	GLN	CA-C-O	7.12	128.10	120.55
1	c	253	ILE	O-C-N	-7.12	113.78	122.18
1	2	521	GLN	N-CA-CB	7.12	120.33	110.01
1	j	696	ILE	CA-C-O	7.12	128.72	121.17
1	F	536	LYS	CA-C-N	7.12	130.12	120.44
1	F	536	LYS	C-N-CA	7.12	130.12	120.44
1	h	310	VAL	CA-C-N	7.12	129.53	120.56
1	h	310	VAL	C-N-CA	7.12	129.53	120.56
1	n	580	CYS	N-CA-CB	7.12	122.52	110.49
1	E	709	PHE	N-CA-C	7.12	119.04	111.28
1	M	154	PRO	N-CA-CB	7.12	110.72	103.25
1	W	130	GLY	CA-C-N	7.12	130.40	120.29
1	W	130	GLY	C-N-CA	7.12	130.40	120.29
1	d	382	ILE	O-C-N	-7.12	114.97	121.87
1	i	426	ILE	N-CA-C	7.12	117.88	110.62
1	b	148	GLY	CA-C-N	7.12	130.31	120.49
1	b	148	GLY	C-N-CA	7.12	130.31	120.49
1	l	162	GLN	CA-C-N	7.12	126.73	119.19
1	l	162	GLN	C-N-CA	7.12	126.73	119.19
1	C	443	VAL	N-CA-C	7.12	118.23	108.84
1	H	245	ILE	N-CA-C	7.12	117.91	110.72
1	n	688	LYS	N-CA-C	7.11	119.65	111.11
1	s	415	GLU	N-CA-C	7.11	119.03	111.28
1	z	397	HIS	N-CA-C	7.11	119.03	111.28
1	C	107	LEU	CA-C-O	-7.11	113.35	120.82
1	G	526	ILE	CB-CA-C	-7.11	102.54	112.14
1	O	394	ARG	CA-C-N	7.11	129.69	120.44
1	O	394	ARG	C-N-CA	7.11	129.69	120.44
1	H	569	GLN	N-CA-C	7.11	119.03	111.28
1	5	170	ARG	CA-C-O	-7.11	112.89	121.28
1	j	667	GLN	OE1-CD-NE2	-7.11	115.49	122.60
1	p	499	LYS	N-CA-C	7.11	118.68	111.07
1	C	356	PHE	CA-CB-CG	-7.11	106.69	113.80
1	R	690	ARG	NE-CZ-NH1	7.11	128.61	121.50
1	W	410	ASP	N-CA-C	7.11	118.68	111.07
1	l	208	LEU	N-CA-C	7.11	120.26	110.24
1	g	181	GLN	O-C-N	-7.11	113.14	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	313	ASN	CA-CB-CG	-7.11	105.49	112.60
1	4	464	ILE	O-C-N	7.11	128.88	121.91
1	k	624	THR	N-CA-C	7.11	119.88	111.71
1	o	380	MET	CG-SD-CE	-7.11	85.26	100.90
1	z	695	ARG	N-CA-CB	7.11	120.32	110.01
1	F	94	GLU	N-CA-C	7.11	119.88	111.71
1	L	136	GLU	N-CA-C	7.11	119.03	111.28
1	T	627	GLY	O-C-N	-7.11	115.37	122.19
1	0	640	ARG	O-C-N	-7.11	114.75	122.07
1	1	692	LEU	CA-C-N	7.11	130.38	120.29
1	1	692	LEU	C-N-CA	7.11	130.38	120.29
1	e	192	LYS	CA-C-O	7.11	128.13	120.10
1	q	692	LEU	CA-C-N	7.11	129.80	120.28
1	q	692	LEU	C-N-CA	7.11	129.80	120.28
1	r	365	ALA	CA-C-N	7.11	130.51	120.28
1	r	365	ALA	C-N-CA	7.11	130.51	120.28
1	t	315	THR	N-CA-CB	7.11	120.56	110.12
1	E	109	ALA	N-CA-C	7.11	119.11	111.36
1	H	127	GLN	N-CA-C	7.11	119.03	111.28
1	K	631	ASN	OD1-CG-ND2	7.11	129.71	122.60
1	Y	695	ARG	N-CA-C	7.11	119.64	111.11
1	3	444	ARG	NE-CZ-NH1	7.10	128.60	121.50
1	a	520	LEU	N-CA-C	7.10	118.81	111.14
1	q	419	MET	O-C-N	-7.10	113.53	122.27
1	u	623	PHE	N-CA-C	7.10	121.05	112.38
1	D	627	GLY	N-CA-C	7.10	121.24	112.64
1	O	471	LYS	CB-CG-CD	7.10	127.64	111.30
1	O	633	TYR	CA-C-N	7.10	129.80	120.28
1	O	633	TYR	C-N-CA	7.10	129.80	120.28
1	4	493	LEU	N-CA-CB	7.10	122.50	110.49
1	5	698	ARG	NH1-CZ-NH2	-7.10	110.07	119.30
1	j	353	HIS	ND1-CE1-NE2	7.10	115.50	108.40
1	j	484	GLU	N-CA-C	7.10	119.92	111.33
1	q	704	HIS	CE1-NE2-CD2	-7.10	101.90	109.00
1	O	165	GLU	O-C-N	-7.10	113.14	122.59
1	c	650	GLN	CA-C-N	7.10	130.10	120.44
1	c	650	GLN	C-N-CA	7.10	130.10	120.44
1	u	171	ILE	CA-C-O	-7.10	114.68	121.64
1	V	473	LYS	O-C-N	-7.10	114.59	122.12
1	3	95	GLN	N-CA-C	7.10	119.63	111.11
1	6	590	LYS	CA-C-N	7.10	130.10	120.38
1	6	590	LYS	C-N-CA	7.10	130.10	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	9	356	PHE	CA-C-O	7.10	128.08	120.55
1	9	475	ILE	N-CA-C	7.10	117.86	110.62
1	M	133	SER	N-CA-C	7.10	119.02	111.28
1	4	107	LEU	N-CA-C	7.10	119.02	111.28
1	c	452	ASN	N-CA-C	7.10	119.02	111.28
1	n	410	ASP	O-C-N	-7.10	111.64	123.00
1	s	686	ALA	N-CA-C	-7.10	104.09	112.89
1	E	177	GLU	O-C-N	-7.10	114.89	123.27
1	F	626	ILE	CA-C-N	7.10	127.86	119.98
1	F	626	ILE	C-N-CA	7.10	127.86	119.98
1	R	480	VAL	CA-CB-CG1	7.10	122.46	110.40
1	X	242	GLY	N-CA-C	7.10	120.73	112.50
1	4	129	SER	N-CA-C	7.10	119.02	111.28
1	a	480	VAL	CB-CA-C	7.10	122.01	112.22
1	m	688	LYS	CA-C-N	7.10	129.79	120.28
1	m	688	LYS	C-N-CA	7.10	129.79	120.28
1	w	206	HIS	CA-C-N	7.10	130.79	120.71
1	w	206	HIS	C-N-CA	7.10	130.79	120.71
1	z	174	ARG	NH1-CZ-NH2	-7.10	110.08	119.30
1	3	439	GLY	CA-C-N	7.09	133.06	121.99
1	3	439	GLY	C-N-CA	7.09	133.06	121.99
1	r	410	ASP	CA-C-N	7.09	134.47	121.70
1	r	410	ASP	C-N-CA	7.09	134.47	121.70
1	t	682	GLN	O-C-N	-7.09	114.60	122.12
1	u	312	ARG	N-CA-C	7.09	119.09	111.36
1	F	465	LEU	CA-C-N	7.09	129.79	120.28
1	F	465	LEU	C-N-CA	7.09	129.79	120.28
1	Q	310	VAL	N-CA-C	7.09	117.81	110.36
1	S	149	ILE	O-C-N	-7.09	113.70	122.57
1	C	655	ARG	N-CA-C	7.09	118.66	111.07
1	U	542	PHE	CA-C-N	7.09	130.12	120.54
1	U	542	PHE	C-N-CA	7.09	130.12	120.54
1	1	166	ALA	N-CA-C	7.09	120.28	110.35
1	4	328	ARG	N-CA-CB	7.09	122.48	110.49
1	7	339	LEU	CA-C-N	7.09	129.78	120.28
1	7	339	LEU	C-N-CA	7.09	129.78	120.28
1	k	237	GLN	N-CA-C	7.09	119.70	109.84
1	m	687	THR	CA-C-O	7.09	127.94	120.42
1	H	674	ARG	NE-CZ-NH2	7.09	125.58	119.20
1	Q	597	PHE	CA-CB-CG	-7.09	106.71	113.80
1	R	635	LEU	N-CA-C	7.09	119.01	111.28
1	V	285	GLU	CA-C-N	7.09	132.29	121.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	285	GLU	C-N-CA	7.09	132.29	121.51
1	Y	191	HIS	CA-CB-CG	7.09	120.89	113.80
1	Z	172	SER	CA-C-N	7.09	132.05	120.63
1	Z	172	SER	C-N-CA	7.09	132.05	120.63
1	f	529	GLN	N-CA-C	7.09	119.09	111.36
1	A	116	LEU	CA-C-N	7.09	129.78	120.28
1	A	116	LEU	C-N-CA	7.09	129.78	120.28
1	Q	522	LYS	N-CA-C	7.09	119.01	111.28
1	u	418	LYS	N-CA-CB	7.09	120.54	110.12
1	H	113	GLU	N-CA-C	-7.09	104.51	113.72
1	W	503	ILE	CA-C-N	7.09	129.49	120.56
1	W	503	ILE	C-N-CA	7.09	129.49	120.56
1	r	308	MET	CA-C-N	7.09	129.65	120.44
1	r	308	MET	C-N-CA	7.09	129.65	120.44
1	K	537	LYS	O-C-N	-7.09	114.07	122.15
1	S	535	ALA	N-CA-C	7.09	119.00	111.28
1	X	313	ASN	OD1-CG-ND2	-7.09	115.51	122.60
1	l	431	GLN	CA-C-O	-7.08	113.40	120.70
1	8	254	GLN	N-CA-C	7.08	119.00	111.28
1	p	663	LYS	CA-C-O	7.08	128.26	120.82
1	s	650	GLN	N-CA-C	7.08	118.65	111.07
1	3	665	MET	N-CA-C	7.08	119.00	111.28
1	4	705	ALA	O-C-N	-7.08	114.61	122.12
1	9	269	ASP	CA-CB-CG	7.08	119.68	112.60
1	S	245	ILE	N-CA-C	-7.08	103.62	110.42
1	h	128	SER	CA-C-O	7.08	126.88	119.51
1	p	506	HIS	CE1-NE2-CD2	-7.08	101.92	109.00
1	M	191	HIS	CG-CD2-NE2	7.08	114.28	107.20
1	X	673	ASN	CA-CB-CG	7.08	119.68	112.60
1	i	503	ILE	N-CA-C	7.08	117.87	110.72
1	0	181	GLN	O-C-N	-7.08	113.17	122.59
1	i	673	ASN	CA-CB-CG	7.08	119.68	112.60
1	k	347	ILE	N-CA-CB	7.08	118.83	110.55
1	m	359	LEU	CA-C-N	7.08	129.64	120.44
1	m	359	LEU	C-N-CA	7.08	129.64	120.44
1	G	594	GLU	CA-C-N	7.08	129.64	120.44
1	G	594	GLU	C-N-CA	7.08	129.64	120.44
1	G	685	THR	CA-C-O	7.08	128.14	119.79
1	P	163	PRO	CA-C-N	7.08	130.76	120.71
1	P	163	PRO	C-N-CA	7.08	130.76	120.71
1	7	112	VAL	N-CA-CB	7.08	123.53	111.50
1	d	197	MET	CA-C-N	7.08	130.09	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	d	197	MET	C-N-CA	7.08	130.09	120.54
1	f	441	GLU	O-C-N	-7.08	114.96	123.10
1	s	562	ALA	O-C-N	-7.08	114.78	122.07
1	y	266	CYS	CA-C-N	7.08	130.34	120.29
1	y	266	CYS	C-N-CA	7.08	130.34	120.29
1	H	572	PHE	N-CA-C	7.08	118.64	111.07
1	g	591	LYS	CA-C-N	7.08	130.15	120.46
1	g	591	LYS	C-N-CA	7.08	130.15	120.46
1	h	246	LYS	O-C-N	-7.08	114.62	122.12
1	h	247	ALA	CA-C-O	7.08	128.05	120.55
1	o	566	ASN	CA-CB-CG	7.08	119.68	112.60
1	H	413	SER	N-CA-C	7.08	121.76	113.20
1	O	115	ASP	CA-CB-CG	7.08	119.68	112.60
1	O	303	THR	CA-CB-OG1	7.08	120.21	109.60
1	X	249	ILE	N-CA-C	7.08	117.79	110.36
1	l	489	GLY	O-C-N	7.07	130.47	122.34
1	3	104	ILE	N-CA-C	7.07	117.83	110.62
1	h	246	LYS	CA-C-N	7.07	129.76	120.28
1	h	246	LYS	C-N-CA	7.07	129.76	120.28
1	n	122	ALA	CA-C-N	7.07	131.21	122.37
1	n	122	ALA	C-N-CA	7.07	131.21	122.37
1	z	638	SER	N-CA-C	7.07	118.64	111.07
1	I	632	ALA	CA-C-N	7.07	129.63	120.44
1	I	632	ALA	C-N-CA	7.07	129.63	120.44
1	L	280	HIS	CB-CG-CD2	-7.07	122.00	131.20
1	L	446	ASN	N-CA-C	7.07	120.92	111.30
1	M	338	SER	O-C-N	-7.07	113.77	122.82
1	6	689	ARG	NE-CZ-NH1	7.07	128.57	121.50
1	m	100	CYS	CA-C-N	7.07	129.47	120.56
1	m	100	CYS	C-N-CA	7.07	129.47	120.56
1	m	530	ALA	N-CA-C	7.07	118.64	111.07
1	G	481	GLU	N-CA-C	7.07	118.99	111.28
1	X	654	LEU	CB-CA-C	7.07	123.00	111.26
1	o	264	VAL	N-CA-C	7.07	115.79	107.73
1	v	538	HIS	ND1-CE1-NE2	7.07	115.47	108.40
1	I	556	ILE	CA-C-N	7.07	129.63	120.44
1	I	556	ILE	C-N-CA	7.07	129.63	120.44
1	J	136	GLU	N-CA-C	7.07	118.99	111.28
1	M	540	GLY	N-CA-C	7.07	122.50	113.24
1	P	174	ARG	CA-C-N	7.07	132.16	122.19
1	P	174	ARG	C-N-CA	7.07	132.16	122.19
1	5	280	HIS	CA-C-O	7.07	128.04	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7	466	ALA	N-CA-C	7.07	118.98	111.28
1	g	104	ILE	CA-CB-CG1	7.07	122.42	110.40
1	y	241	ILE	CA-C-N	7.07	129.19	120.22
1	y	241	ILE	C-N-CA	7.07	129.19	120.22
1	C	245	ILE	N-CA-C	7.07	117.83	110.62
1	S	271	ALA	CA-C-N	7.07	129.75	120.28
1	S	271	ALA	C-N-CA	7.07	129.75	120.28
1	h	474	ASN	O-C-N	-7.07	114.40	122.03
1	p	708	GLN	OE1-CD-NE2	-7.07	115.53	122.60
1	C	303	THR	CA-C-N	7.07	130.32	120.29
1	C	303	THR	C-N-CA	7.07	130.32	120.29
1	I	373	ARG	NE-CZ-NH2	-7.07	112.84	119.20
1	J	581	GLN	O-C-N	-7.07	116.17	121.47
1	M	700	THR	CA-C-O	7.07	128.04	120.55
1	N	111	GLY	O-C-N	-7.07	114.62	122.60
1	R	390	GLU	N-CA-C	7.07	118.63	111.07
1	p	430	ASN	CA-C-O	7.06	128.24	120.82
1	H	174	ARG	CA-C-O	7.06	130.11	119.23
1	a	292	ILE	CA-C-N	7.06	131.84	122.30
1	a	292	ILE	C-N-CA	7.06	131.84	122.30
1	g	494	GLY	CA-C-N	7.06	134.41	121.70
1	g	494	GLY	C-N-CA	7.06	134.41	121.70
1	j	182	ASP	CA-C-N	7.06	127.22	119.87
1	j	182	ASP	C-N-CA	7.06	127.22	119.87
1	j	349	PHE	N-CA-C	7.06	118.63	111.07
1	m	378	LEU	O-C-N	-7.06	114.46	122.09
1	H	242	GLY	N-CA-C	7.06	121.81	112.77
1	T	548	THR	O-C-N	-7.06	114.80	122.07
1	7	651	TYR	O-C-N	-7.06	113.20	122.59
1	H	496	VAL	CA-C-O	7.06	129.07	120.74
1	L	409	ALA	O-C-N	-7.06	113.20	122.59
1	0	486	GLN	N-CA-CB	-7.06	101.51	110.90
1	r	164	CYS	N-CA-C	-7.06	99.52	109.69
1	H	170	ARG	NE-CZ-NH1	7.06	128.56	121.50
1	4	442	VAL	CA-C-N	7.06	130.02	120.63
1	4	442	VAL	C-N-CA	7.06	130.02	120.63
1	6	118	LEU	CA-C-N	7.06	128.66	119.84
1	6	118	LEU	C-N-CA	7.06	128.66	119.84
1	f	574	MET	N-CA-C	7.06	120.01	111.82
1	p	692	LEU	CA-C-N	7.06	129.62	120.44
1	p	692	LEU	C-N-CA	7.06	129.62	120.44
1	r	368	PRO	CA-C-N	7.06	133.61	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	r	368	PRO	C-N-CA	7.06	133.61	122.60
1	J	286	GLY	CA-C-N	7.06	129.62	120.44
1	J	286	GLY	C-N-CA	7.06	129.62	120.44
1	Y	522	LYS	N-CA-C	7.06	118.97	111.28
1	2	374	LEU	CA-C-N	7.06	129.74	120.28
1	2	374	LEU	C-N-CA	7.06	129.74	120.28
1	5	447	GLU	N-CA-C	-7.05	98.30	109.23
1	g	523	ALA	CA-C-O	7.05	128.03	120.55
1	j	668	ILE	CA-C-O	7.05	128.60	119.85
1	m	300	ASP	CA-CB-CG	7.05	119.65	112.60
1	p	560	HIS	CA-CB-CG	-7.05	106.75	113.80
1	K	514	GLU	N-CA-C	7.05	122.34	112.75
1	T	633	TYR	CA-C-N	7.05	130.04	120.38
1	T	633	TYR	C-N-CA	7.05	130.04	120.38
1	U	622	SER	N-CA-CB	7.05	122.49	110.50
1	e	109	ALA	O-C-N	-7.05	114.11	122.15
1	A	152	ARG	NE-CZ-NH2	7.05	125.55	119.20
1	I	173	TYR	O-C-N	-7.05	113.88	122.34
1	L	660	SER	CA-C-N	7.05	130.06	120.54
1	L	660	SER	C-N-CA	7.05	130.06	120.54
1	N	292	ILE	CA-C-O	7.05	128.92	120.74
1	N	373	ARG	NE-CZ-NH2	7.05	125.55	119.20
1	8	357	ARG	NE-CZ-NH2	-7.05	112.85	119.20
1	d	566	ASN	OD1-CG-ND2	-7.05	115.55	122.60
1	e	193	ALA	N-CA-C	7.05	118.62	111.07
1	g	700	THR	CA-C-O	7.05	128.03	120.55
1	i	105	ASP	O-C-N	-7.05	114.64	122.12
1	n	597	PHE	CA-CB-CG	-7.05	106.75	113.80
1	z	581	GLN	CA-C-N	7.05	131.88	120.60
1	z	581	GLN	C-N-CA	7.05	131.88	120.60
1	R	196	VAL	CA-C-N	7.05	130.30	120.29
1	R	196	VAL	C-N-CA	7.05	130.30	120.29
1	R	301	ARG	O-C-N	-7.05	115.16	123.06
1	Y	630	LEU	N-CA-C	7.05	119.05	111.36
1	Z	162	GLN	OE1-CD-NE2	-7.05	115.55	122.60
1	8	411	ILE	N-CA-CB	7.05	121.08	111.21
1	r	701	GLN	OE1-CD-NE2	-7.05	115.55	122.60
1	s	309	ASN	N-CA-C	7.05	119.04	111.36
1	C	360	LEU	CA-C-N	7.05	129.73	120.28
1	C	360	LEU	C-N-CA	7.05	129.73	120.28
1	D	417	ASP	CA-CB-CG	-7.05	105.55	112.60
1	N	285	GLU	CA-C-O	7.05	127.81	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	278	MET	CA-C-N	7.05	130.43	120.28
1	R	278	MET	C-N-CA	7.05	130.43	120.28
1	U	631	ASN	CA-CB-CG	7.05	119.65	112.60
1	7	381	HIS	CE1-NE2-CD2	-7.05	101.95	109.00
1	c	311	VAL	CA-C-N	7.05	130.04	120.38
1	c	311	VAL	C-N-CA	7.05	130.04	120.38
1	n	194	GLN	OE1-CD-NE2	7.05	129.65	122.60
1	y	246	LYS	N-CA-C	7.05	119.86	111.33
1	G	455	ARG	CA-C-O	-7.05	113.08	120.55
1	O	689	ARG	NE-CZ-NH1	7.05	128.55	121.50
1	U	472	VAL	CA-C-N	7.05	129.72	120.28
1	U	472	VAL	C-N-CA	7.05	129.72	120.28
1	j	443	VAL	CA-CB-CG1	7.05	122.38	110.40
1	n	182	ASP	CA-CB-CG	-7.05	105.55	112.60
1	x	455	ARG	CA-C-N	7.05	129.72	120.28
1	x	455	ARG	C-N-CA	7.05	129.72	120.28
1	E	403	GLU	O-C-N	-7.05	114.81	122.07
1	K	565	GLU	N-CA-C	7.05	118.96	111.28
1	S	565	GLU	N-CA-C	7.05	119.86	111.33
1	T	279	ALA	N-CA-C	7.05	118.96	111.28
1	Y	102	ASP	N-CA-CB	7.05	120.48	110.12
1	2	195	ASN	CA-CB-CG	-7.04	105.56	112.60
1	1	134	VAL	CA-C-N	7.04	129.60	120.44
1	1	134	VAL	C-N-CA	7.04	129.60	120.44
1	4	689	ARG	N-CA-C	7.04	118.61	111.07
1	g	153	CYS	O-C-N	-7.04	114.82	121.72
1	z	560	HIS	CA-CB-CG	-7.04	106.76	113.80
1	L	369	ARG	NE-CZ-NH1	7.04	128.54	121.50
1	Y	342	ALA	N-CA-C	7.04	119.81	111.71
1	5	593	ARG	N-CA-C	7.04	119.81	111.71
1	f	451	TYR	CA-C-O	-7.04	113.08	120.55
1	h	195	ASN	OD1-CG-ND2	-7.04	115.56	122.60
1	h	239	ARG	CA-C-N	7.04	134.37	121.70
1	h	239	ARG	C-N-CA	7.04	134.37	121.70
1	z	130	GLY	CA-C-N	7.04	130.03	120.38
1	z	130	GLY	C-N-CA	7.04	130.03	120.38
1	K	289	THR	CA-C-O	7.04	128.11	120.43
1	K	356	PHE	CA-C-N	7.04	130.02	120.44
1	K	356	PHE	C-N-CA	7.04	130.02	120.44
1	P	315	THR	O-C-N	-7.04	114.66	122.12
1	R	357	ARG	NE-CZ-NH2	-7.04	112.86	119.20
1	i	652	PHE	CA-CB-CG	-7.04	106.76	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	137	ALA	N-CA-C	7.04	119.03	111.36
1	f	523	ALA	O-C-N	-7.04	112.90	122.33
1	x	288	ARG	CA-C-N	7.04	132.91	123.05
1	x	288	ARG	C-N-CA	7.04	132.91	123.05
1	G	360	LEU	CA-C-N	7.04	129.71	120.28
1	G	360	LEU	C-N-CA	7.04	129.71	120.28
1	H	538	HIS	CG-CD2-NE2	7.04	114.24	107.20
1	0	636	GLU	CA-C-N	7.03	129.71	120.28
1	0	636	GLU	C-N-CA	7.03	129.71	120.28
1	4	571	GLN	OE1-CD-NE2	-7.03	115.57	122.60
1	u	394	ARG	CA-C-N	7.03	129.58	120.44
1	u	394	ARG	C-N-CA	7.03	129.58	120.44
1	w	513	VAL	N-CA-C	7.03	117.17	110.42
1	w	671	GLU	O-C-N	-7.03	114.23	122.95
1	x	129	SER	N-CA-C	7.03	119.80	111.71
1	z	275	ALA	N-CA-C	7.03	119.84	111.33
1	I	143	LEU	CA-C-N	7.03	128.63	119.84
1	I	143	LEU	C-N-CA	7.03	128.63	119.84
1	U	289	THR	N-CA-C	7.03	119.99	108.52
1	Z	410	ASP	CA-C-N	7.03	134.36	121.70
1	Z	410	ASP	C-N-CA	7.03	134.36	121.70
1	5	676	SER	CA-C-N	7.03	129.58	120.44
1	5	676	SER	C-N-CA	7.03	129.58	120.44
1	8	436	LEU	CA-C-N	7.03	129.56	120.56
1	8	436	LEU	C-N-CA	7.03	129.56	120.56
1	a	451	TYR	CA-C-O	7.03	127.87	120.42
1	e	350	PHE	CA-C-N	7.03	129.70	120.28
1	e	350	PHE	C-N-CA	7.03	129.70	120.28
1	G	598	ASN	OD1-CG-ND2	-7.03	115.57	122.60
1	J	309	ASN	N-CA-CB	7.03	120.42	109.94
1	U	365	ALA	CA-C-N	7.03	130.41	120.28
1	U	365	ALA	C-N-CA	7.03	130.41	120.28
1	a	225	ASP	O-C-N	-7.03	114.49	122.93
1	g	643	ASN	N-CA-C	7.03	118.83	111.03
1	q	404	LEU	CA-C-O	7.03	128.22	120.63
1	B	513	VAL	CB-CA-C	-7.03	102.97	111.97
1	L	562	ALA	O-C-N	-7.03	114.67	122.12
1	M	420	PHE	CB-CA-C	-7.03	98.90	110.85
1	M	497	ASN	CB-CA-C	7.03	119.83	110.06
1	d	235	ASP	CA-CB-CG	7.03	119.63	112.60
1	E	523	ALA	N-CA-C	7.03	118.59	111.07
1	T	534	VAL	CA-C-O	7.03	128.26	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	452	ASN	OD1-CG-ND2	-7.03	115.57	122.60
1	2	569	GLN	O-C-N	-7.03	114.83	122.07
1	4	562	ALA	CA-C-N	7.03	129.58	120.44
1	4	562	ALA	C-N-CA	7.03	129.58	120.44
1	j	655	ARG	N-CA-C	7.03	119.59	111.02
1	r	683	SER	CA-C-N	7.03	130.03	120.54
1	r	683	SER	C-N-CA	7.03	130.03	120.54
1	C	636	GLU	CA-C-N	7.03	129.58	120.44
1	C	636	GLU	C-N-CA	7.03	129.58	120.44
1	G	306	SER	N-CA-CB	7.03	120.26	110.07
1	8	689	ARG	CA-C-N	7.03	129.69	120.28
1	8	689	ARG	C-N-CA	7.03	129.69	120.28
1	9	544	ASN	CA-CB-CG	-7.03	105.57	112.60
1	a	200	ASN	CA-C-N	7.03	131.48	122.00
1	a	200	ASN	C-N-CA	7.03	131.48	122.00
1	g	196	VAL	N-CA-C	7.03	117.82	110.72
1	w	566	ASN	CA-CB-CG	-7.03	105.57	112.60
1	O	308	MET	CA-C-N	7.03	129.69	120.28
1	O	308	MET	C-N-CA	7.03	129.69	120.28
1	O	437	VAL	N-CA-C	7.03	117.82	110.72
1	P	98	ARG	CG-CD-NE	-7.03	96.54	112.00
1	P	179	GLU	CA-C-O	7.03	128.05	120.32
1	Q	481	GLU	CA-C-N	7.03	129.57	120.44
1	Q	481	GLU	C-N-CA	7.03	129.57	120.44
1	w	588	VAL	CA-C-N	7.02	130.02	120.54
1	w	588	VAL	C-N-CA	7.02	130.02	120.54
1	B	518	SER	CA-C-O	7.02	127.87	120.42
1	G	661	LEU	CA-C-O	7.02	128.19	120.82
1	S	132	SER	N-CA-CB	-7.02	99.80	110.12
1	X	195	ASN	CA-C-O	-7.02	113.11	120.55
1	0	258	THR	N-CA-CB	7.02	120.66	110.06
1	3	464	ILE	O-C-N	-7.02	115.03	121.91
1	6	573	ARG	CB-CG-CD	7.02	127.45	111.30
1	c	215	SER	N-CA-C	-7.02	101.82	108.07
1	f	593	ARG	N-CA-C	7.02	118.93	111.28
1	F	260	ASN	CB-CG-OD1	7.02	134.84	120.80
1	R	485	LYS	N-CA-C	7.02	118.94	111.28
1	X	219	PRO	N-CA-CB	-7.02	95.88	103.25
1	X	413	SER	O-C-N	-7.02	113.22	122.42
1	0	544	ASN	O-C-N	-7.02	114.84	122.07
1	p	220	ASP	CA-CB-CG	-7.02	105.58	112.60
1	p	509	ILE	N-CA-C	7.02	117.16	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	s	479	GLU	CA-C-N	7.02	129.41	120.56
1	s	479	GLU	C-N-CA	7.02	129.41	120.56
1	E	698	ARG	N-CA-C	7.02	118.58	111.07
1	N	190	ILE	CA-C-O	7.02	128.25	120.95
1	U	355	TYR	N-CA-C	7.02	118.62	110.97
1	0	574	MET	N-CA-C	7.02	118.93	111.28
1	b	538	HIS	CE1-NE2-CD2	-7.02	101.98	109.00
1	i	277	SER	O-C-N	-7.02	114.68	122.12
1	r	429	PHE	CB-CA-C	7.02	121.99	110.90
1	E	472	VAL	O-C-N	-7.02	112.92	122.26
1	2	458	PHE	CA-C-O	7.02	128.01	119.31
1	4	699	LEU	O-C-N	-7.02	114.68	122.12
1	l	583	GLN	O-C-N	-7.02	112.19	122.43
1	p	645	ILE	N-CA-CB	7.02	115.92	110.45
1	s	520	LEU	O-C-N	-7.02	114.84	122.07
1	F	320	LYS	CA-C-O	7.02	128.23	119.95
1	K	309	ASN	CA-CB-CG	-7.02	105.58	112.60
1	L	444	ARG	O-C-N	-7.02	114.07	123.19
1	M	103	LEU	N-CA-C	7.02	118.58	111.07
1	Y	540	GLY	N-CA-C	7.02	122.43	113.24
1	7	324	ILE	N-CA-CB	7.02	119.31	110.05
1	g	415	GLU	CA-C-N	7.02	130.01	120.54
1	g	415	GLU	C-N-CA	7.02	130.01	120.54
1	y	503	ILE	O-C-N	-7.02	115.01	121.89
1	f	320	LYS	N-CA-C	-7.01	104.29	112.92
1	O	557	LYS	CA-C-N	7.01	130.07	120.46
1	O	557	LYS	C-N-CA	7.01	130.07	120.46
1	P	116	LEU	N-CA-C	-7.01	97.98	108.99
1	P	466	ALA	CA-C-N	7.01	129.98	120.44
1	P	466	ALA	C-N-CA	7.01	129.98	120.44
1	U	287	ASP	CA-CB-CG	7.01	119.61	112.60
1	0	98	ARG	NE-CZ-NH2	-7.01	112.89	119.20
1	8	462	VAL	CA-C-N	7.01	127.76	119.98
1	8	462	VAL	C-N-CA	7.01	127.76	119.98
1	l	464	ILE	O-C-N	-7.01	115.07	121.87
1	E	284	PRO	CA-C-N	7.01	134.05	121.92
1	E	284	PRO	C-N-CA	7.01	134.05	121.92
1	H	440	GLU	CA-C-O	7.01	126.71	118.79
1	I	268	VAL	CB-CA-C	7.01	121.07	110.62
1	N	511	GLN	N-CA-C	7.01	118.92	111.28
1	Z	142	ALA	O-C-N	-7.01	113.26	122.59
1	1	518	SER	CA-C-O	7.01	127.98	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	m	510	GLN	CA-C-N	7.01	129.98	120.38
1	m	510	GLN	C-N-CA	7.01	129.98	120.38
1	r	192	LYS	N-CA-C	7.01	118.92	111.28
1	P	274	GLU	N-CA-C	7.01	119.95	111.82
1	P	300	ASP	CA-CB-CG	7.01	119.61	112.60
1	c	585	TYR	CA-C-N	7.01	129.67	120.28
1	c	585	TYR	C-N-CA	7.01	129.67	120.28
1	Q	555	ASP	CA-CB-CG	7.01	119.61	112.60
1	l	281	GLU	N-CA-C	7.01	118.57	111.07
1	4	593	ARG	CA-C-N	7.01	130.24	120.29
1	4	593	ARG	C-N-CA	7.01	130.24	120.29
1	f	418	LYS	O-C-N	-7.01	114.85	122.07
1	m	426	ILE	N-CA-C	7.01	117.77	110.62
1	H	307	VAL	O-C-N	-7.01	115.07	121.87
1	N	191	HIS	CA-CB-CG	7.01	120.81	113.80
1	S	136	GLU	O-C-N	-7.01	113.28	122.39
1	8	704	HIS	CE1-NE2-CD2	-7.00	102.00	109.00
1	s	191	HIS	CA-C-O	7.00	127.85	120.42
1	K	307	VAL	N-CA-C	7.00	117.72	110.36
1	0	486	GLN	O-C-N	-7.00	114.64	122.34
1	b	309	ASN	CA-C-N	7.00	131.79	120.30
1	b	309	ASN	C-N-CA	7.00	131.79	120.30
1	f	684	GLU	N-CA-C	7.00	121.05	112.23
1	g	309	ASN	OD1-CG-ND2	-7.00	115.60	122.60
1	h	494	GLY	O-C-N	-7.00	113.60	122.70
1	s	692	LEU	O-C-N	-7.00	114.70	122.12
1	I	353	HIS	O-C-N	-7.00	115.16	121.39
1	I	460	ASN	N-CA-CB	7.00	120.53	110.16
1	J	627	GLY	N-CA-C	7.00	121.11	112.64
1	Q	300	ASP	CA-CB-CG	7.00	119.60	112.60
1	4	693	LYS	N-CA-C	7.00	118.91	111.28
1	6	637	THR	N-CA-C	7.00	119.80	111.33
1	k	703	ARG	NE-CZ-NH2	7.00	125.50	119.20
1	B	316	TYR	O-C-N	-7.00	114.61	121.19
1	M	98	ARG	N-CA-C	7.00	122.27	112.75
1	M	674	ARG	NE-CZ-NH2	-7.00	112.90	119.20
1	T	685	THR	N-CA-C	7.00	119.76	111.71
1	0	345	LYS	N-CA-C	7.00	119.51	111.11
1	b	564	ALA	N-CA-C	7.00	119.51	111.11
1	d	698	ARG	O-C-N	-7.00	114.86	122.07
1	i	117	ALA	N-CA-C	7.00	119.80	111.33
1	t	466	ALA	O-C-N	-7.00	114.70	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	641	LEU	O-C-N	-7.00	114.17	122.15
1	6	428	MET	N-CA-C	7.00	118.56	111.07
1	b	572	PHE	N-CA-C	7.00	118.91	111.28
1	d	333	ILE	CA-C-O	7.00	128.84	120.66
1	D	427	LYS	CA-C-N	7.00	129.66	120.28
1	D	427	LYS	C-N-CA	7.00	129.66	120.28
1	G	278	MET	N-CA-C	7.00	119.51	111.11
1	U	541	GLU	N-CA-C	7.00	118.56	111.07
1	o	161	LYS	CA-C-O	7.00	128.56	120.80
1	O	567	MET	O-C-N	-7.00	112.96	122.33
1	S	97	VAL	CA-C-N	7.00	128.83	120.09
1	S	97	VAL	C-N-CA	7.00	128.83	120.09
1	o	631	ASN	CB-CA-C	-6.99	99.90	110.88
1	D	156	VAL	CA-C-O	6.99	128.05	120.57
1	Q	505	VAL	N-CA-CB	6.99	118.73	110.55
1	S	678	LEU	N-CA-C	6.99	118.90	111.28
1	U	659	ASP	N-CA-C	6.99	118.90	111.28
1	5	509	ILE	N-CA-C	6.99	117.75	110.62
1	7	187	GLU	CA-C-N	6.99	129.65	120.28
1	7	187	GLU	C-N-CA	6.99	129.65	120.28
1	d	471	LYS	CA-C-N	6.99	129.37	120.56
1	d	471	LYS	C-N-CA	6.99	129.37	120.56
1	8	706	LEU	O-C-N	-6.99	114.87	122.07
1	d	136	GLU	N-CA-C	6.99	120.91	112.38
1	N	102	ASP	CA-CB-CG	-6.99	105.61	112.60
1	U	656	GLU	N-CA-C	6.99	118.69	111.14
1	Z	239	ARG	CA-C-N	6.99	134.28	121.70
1	Z	239	ARG	C-N-CA	6.99	134.28	121.70
1	k	525	GLU	O-C-N	-6.99	114.82	122.09
1	t	528	GLN	CA-C-N	6.99	129.65	120.28
1	t	528	GLN	C-N-CA	6.99	129.65	120.28
1	E	346	GLU	O-C-N	-6.99	114.87	122.07
1	F	704	HIS	CE1-NE2-CD2	-6.99	102.01	109.00
1	K	157	LEU	CA-C-O	6.99	127.91	120.36
1	K	341	GLU	CA-C-N	6.99	129.64	120.28
1	K	341	GLU	C-N-CA	6.99	129.64	120.28
1	W	465	LEU	N-CA-C	6.99	118.55	111.07
1	1	478	GLU	CA-C-N	6.99	129.52	120.44
1	1	478	GLU	C-N-CA	6.99	129.52	120.44
1	3	495	PHE	N-CA-CB	6.99	122.37	110.50
1	8	391	GLY	O-C-N	-6.99	115.48	122.19
1	f	477	HIS	CB-CG-CD2	-6.99	122.12	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	t	667	GLN	N-CA-C	6.99	121.06	112.54
1	p	539	PHE	CA-C-N	6.98	128.93	120.13
1	p	539	PHE	C-N-CA	6.98	128.93	120.13
1	t	550	GLN	N-CA-C	6.98	118.89	111.28
1	w	244	GLN	OE1-CD-NE2	-6.98	115.62	122.60
1	y	359	LEU	N-CA-C	6.98	118.97	111.36
1	d	353	HIS	CE1-NE2-CD2	-6.98	102.02	109.00
1	o	148	GLY	CA-C-O	6.98	125.33	118.77
1	O	131	LYS	N-CA-C	6.98	121.25	112.87
1	T	128	SER	O-C-N	-6.98	113.38	122.39
1	5	483	TYR	N-CA-C	6.98	118.89	111.28
1	a	479	GLU	CA-C-N	6.98	130.33	120.42
1	a	479	GLU	C-N-CA	6.98	130.33	120.42
1	m	689	ARG	NE-CZ-NH1	6.98	128.48	121.50
1	s	641	LEU	N-CA-C	6.98	119.74	111.71
1	v	702	ALA	CA-C-N	6.98	129.96	120.54
1	v	702	ALA	C-N-CA	6.98	129.96	120.54
1	z	174	ARG	CA-C-O	6.98	127.72	119.28
1	B	707	CYS	O-C-N	-6.98	114.72	122.12
1	E	652	PHE	N-CA-C	6.98	118.97	111.36
1	F	374	LEU	CA-C-N	6.98	129.51	120.44
1	F	374	LEU	C-N-CA	6.98	129.51	120.44
1	M	155	LEU	CA-C-N	6.98	131.84	122.90
1	M	155	LEU	C-N-CA	6.98	131.84	122.90
1	U	706	LEU	O-C-N	-6.98	114.72	122.12
1	V	640	ARG	N-CA-CB	6.98	120.46	110.13
1	N	506	HIS	ND1-CE1-NE2	6.98	115.38	108.40
1	Q	636	GLU	N-CA-C	6.98	118.97	111.36
1	c	231	ARG	NH1-CZ-NH2	-6.98	110.23	119.30
1	v	397	HIS	ND1-CE1-NE2	6.98	115.38	108.40
1	v	556	ILE	CA-C-N	6.98	129.51	120.44
1	v	556	ILE	C-N-CA	6.98	129.51	120.44
1	w	142	ALA	CA-C-N	6.98	130.02	120.67
1	w	142	ALA	C-N-CA	6.98	130.02	120.67
1	G	359	LEU	O-C-N	6.98	129.26	122.07
1	P	549	VAL	N-CA-CB	6.98	119.50	110.57
1	l	171	ILE	O-C-N	-6.98	115.67	123.20
1	p	108	ARG	NH1-CZ-NH2	-6.98	110.23	119.30
1	S	698	ARG	N-CA-C	6.98	118.53	111.07
1	T	279	ALA	CA-C-N	6.98	129.63	120.28
1	T	279	ALA	C-N-CA	6.98	129.63	120.28
1	4	404	LEU	O-C-N	-6.97	114.84	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5	406	ARG	N-CA-C	6.97	118.88	111.28
1	5	428	MET	N-CA-C	6.97	118.88	111.28
1	8	550	GLN	N-CA-CB	6.97	120.48	110.16
1	d	558	VAL	N-CA-CB	6.97	120.03	110.54
1	r	533	ASN	CA-CB-CG	-6.97	105.62	112.60
1	r	575	GLU	O-C-N	-6.97	112.75	122.37
1	s	247	ALA	N-CA-C	6.97	120.68	111.75
1	w	454	ILE	CA-C-N	6.97	129.63	120.28
1	w	454	ILE	C-N-CA	6.97	129.63	120.28
1	L	535	ALA	O-C-N	-6.97	114.89	122.07
1	Q	432	ASP	CA-CB-CG	6.97	119.58	112.60
1	U	663	LYS	N-CA-C	6.97	118.88	111.28
1	V	431	GLN	CA-C-O	-6.97	113.03	120.42
1	2	141	VAL	O-C-N	-6.97	115.54	123.00
1	q	580	CYS	O-C-N	-6.97	115.47	123.42
1	y	311	VAL	N-CA-C	6.97	117.73	110.62
1	N	509	ILE	O-C-N	-6.97	115.11	121.87
1	U	625	GLU	N-CA-C	6.97	118.53	111.07
1	b	470	GLN	N-CA-C	6.97	118.67	111.14
1	f	337	LEU	CA-C-N	6.97	130.61	120.71
1	f	337	LEU	C-N-CA	6.97	130.61	120.71
1	h	573	ARG	CA-C-N	6.97	130.19	120.29
1	h	573	ARG	C-N-CA	6.97	130.19	120.29
1	3	667	GLN	CA-C-N	6.97	130.32	120.42
1	3	667	GLN	C-N-CA	6.97	130.32	120.42
1	f	182	ASP	N-CA-C	6.97	117.61	109.60
1	f	330	GLN	CA-C-N	6.97	133.67	122.10
1	f	330	GLN	C-N-CA	6.97	133.67	122.10
1	q	262	VAL	O-C-N	-6.97	115.65	123.18
1	v	662	GLN	CA-C-N	6.97	130.19	120.29
1	v	662	GLN	C-N-CA	6.97	130.19	120.29
1	x	682	GLN	CA-C-N	6.97	134.24	121.70
1	x	682	GLN	C-N-CA	6.97	134.24	121.70
1	G	131	LYS	CA-C-O	6.97	127.94	120.55
1	G	304	GLU	CA-C-N	6.97	129.62	120.28
1	G	304	GLU	C-N-CA	6.97	129.62	120.28
1	U	508	TYR	N-CA-C	6.97	119.72	111.71
1	h	410	ASP	O-C-N	-6.97	111.85	123.00
1	o	282	VAL	CA-C-N	6.97	130.51	122.85
1	o	282	VAL	C-N-CA	6.97	130.51	122.85
1	M	239	ARG	O-C-N	-6.97	114.24	122.81
1	Z	237	GLN	O-C-N	-6.97	114.16	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	497	ASN	CA-CB-CG	6.97	119.57	112.60
1	4	409	ALA	N-CA-C	6.97	120.69	110.59
1	l	236	ASN	OD1-CG-ND2	-6.97	115.63	122.60
1	p	256	GLN	N-CA-C	6.97	119.90	111.82
1	v	682	GLN	CA-C-N	6.97	134.24	121.70
1	v	682	GLN	C-N-CA	6.97	134.24	121.70
1	X	587	VAL	CA-C-N	6.97	130.00	120.46
1	X	587	VAL	C-N-CA	6.97	130.00	120.46
1	Y	353	HIS	CA-CB-CG	-6.97	106.83	113.80
1	c	637	THR	CA-C-N	6.96	129.61	120.28
1	c	637	THR	C-N-CA	6.96	129.61	120.28
1	g	644	GLN	CA-C-O	-6.96	113.04	120.42
1	l	629	HIS	N-CA-C	6.96	118.95	111.36
1	t	582	ASP	N-CA-CB	-6.96	100.09	110.61
1	H	96	LYS	N-CA-C	6.96	118.95	111.36
1	S	415	GLU	N-CA-C	6.96	118.87	111.28
1	V	111	GLY	O-C-N	-6.96	113.64	122.70
1	b	189	GLU	N-CA-C	6.96	118.95	111.36
1	i	407	CYS	N-CA-C	6.96	121.04	111.71
1	y	317	PRO	CA-C-N	6.96	131.01	121.05
1	y	317	PRO	C-N-CA	6.96	131.01	121.05
1	E	472	VAL	CA-C-O	6.96	128.06	119.43
1	6	109	ALA	N-CA-C	6.96	118.95	111.36
1	f	624	THR	CA-CB-CG2	6.96	122.33	110.50
1	v	649	ILE	N-CA-C	6.96	117.10	110.42
1	J	650	GLN	N-CA-C	6.96	118.87	111.28
1	K	382	ILE	O-C-N	-6.96	115.12	121.87
1	8	528	GLN	CA-C-N	6.96	129.61	120.28
1	8	528	GLN	C-N-CA	6.96	129.61	120.28
1	p	345	LYS	N-CA-C	6.96	118.95	111.36
1	w	356	PHE	CA-CB-CG	-6.96	106.84	113.80
1	z	525	GLU	O-C-N	-6.96	114.90	122.07
1	F	501	PHE	CA-CB-CG	6.96	120.76	113.80
1	J	280	HIS	ND1-CE1-NE2	6.96	115.36	108.40
1	3	403	GLU	CA-C-N	6.96	129.93	120.54
1	3	403	GLU	C-N-CA	6.96	129.93	120.54
1	7	145	ARG	NH1-CZ-NH2	-6.96	110.25	119.30
1	8	231	ARG	NE-CZ-NH1	6.96	128.46	121.50
1	d	498	TYR	O-C-N	-6.96	114.90	122.07
1	l	95	GLN	OE1-CD-NE2	-6.96	115.64	122.60
1	D	211	LEU	O-C-N	-6.96	115.17	123.31
1	D	526	ILE	CA-C-N	6.96	129.33	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	526	ILE	C-N-CA	6.96	129.33	120.56
1	G	328	ARG	NE-CZ-NH1	6.96	128.46	121.50
1	b	224	ILE	CA-C-O	6.96	128.80	120.66
1	c	98	ARG	N-CA-C	6.96	123.04	113.16
1	c	541	GLU	CB-CA-C	-6.96	99.24	110.79
1	c	673	ASN	OD1-CG-ND2	-6.96	115.64	122.60
1	g	339	LEU	CA-C-N	6.96	129.48	120.44
1	g	339	LEU	C-N-CA	6.96	129.48	120.44
1	v	575	GLU	N-CA-C	6.96	119.71	111.71
1	V	390	GLU	CA-C-N	6.96	127.52	119.94
1	V	390	GLU	C-N-CA	6.96	127.52	119.94
1	7	421	PHE	CA-C-O	6.96	127.86	120.70
1	d	676	SER	O-C-N	-6.96	114.75	122.12
1	A	267	ASN	N-CA-C	6.96	118.86	111.28
1	U	375	THR	CA-C-N	6.96	129.48	120.44
1	U	375	THR	C-N-CA	6.96	129.48	120.44
1	f	431	GLN	N-CA-C	6.95	118.86	111.28
1	h	643	ASN	OD1-CG-ND2	-6.95	115.65	122.60
1	j	143	LEU	CA-C-N	6.95	128.53	119.84
1	j	143	LEU	C-N-CA	6.95	128.53	119.84
1	r	342	ALA	CA-C-N	6.95	129.48	120.44
1	r	342	ALA	C-N-CA	6.95	129.48	120.44
1	D	544	ASN	CA-CB-CG	-6.95	105.65	112.60
1	D	546	ASN	O-C-N	-6.95	114.08	122.22
1	I	239	ARG	O-C-N	-6.95	114.86	122.79
1	7	429	PHE	N-CA-C	6.95	119.45	111.11
1	b	380	MET	O-C-N	-6.95	114.75	122.12
1	c	271	ALA	N-CA-C	6.95	118.51	111.07
1	B	382	ILE	N-CA-C	6.95	117.74	110.72
1	Z	301	ARG	NE-CZ-NH1	6.95	128.45	121.50
1	8	109	ALA	CA-C-O	-6.95	113.52	120.82
1	b	369	ARG	NE-CZ-NH1	6.95	128.45	121.50
1	d	208	LEU	CA-C-O	6.95	128.95	121.44
1	g	424	GLU	N-CA-C	6.95	118.51	111.07
1	w	671	GLU	N-CA-C	6.95	120.46	110.10
1	y	541	GLU	CA-C-N	6.95	132.21	122.41
1	y	541	GLU	C-N-CA	6.95	132.21	122.41
1	M	280	HIS	CE1-NE2-CD2	-6.95	102.05	109.00
1	U	226	LEU	CA-C-N	6.95	128.53	119.84
1	U	226	LEU	C-N-CA	6.95	128.53	119.84
1	1	269	ASP	CA-C-N	6.95	129.98	120.46
1	1	269	ASP	C-N-CA	6.95	129.98	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	154	PRO	N-CA-CB	6.95	110.55	103.25
1	h	124	ILE	CA-C-O	6.95	127.62	120.39
1	z	386	LEU	O-C-N	-6.95	113.95	120.55
1	J	597	PHE	CA-CB-CG	6.95	120.75	113.80
1	h	164	CYS	N-CA-C	6.95	119.80	110.35
1	h	247	ALA	CA-C-N	6.95	129.47	120.44
1	h	247	ALA	C-N-CA	6.95	129.47	120.44
1	n	158	LYS	O-C-N	-6.95	115.09	123.29
1	6	507	GLN	CA-C-N	6.95	129.47	120.44
1	6	507	GLN	C-N-CA	6.95	129.47	120.44
1	6	698	ARG	N-CA-C	6.95	119.88	111.82
1	c	677	TRP	N-CA-C	6.95	118.85	111.28
1	g	547	GLN	CA-C-N	6.95	129.59	120.28
1	g	547	GLN	C-N-CA	6.95	129.59	120.28
1	p	191	HIS	CA-CB-CG	6.95	120.75	113.80
1	t	238	PRO	O-C-N	-6.95	114.17	122.99
1	E	143	LEU	CA-C-N	6.95	128.52	119.84
1	E	143	LEU	C-N-CA	6.95	128.52	119.84
1	L	165	GLU	N-CA-C	6.95	119.53	110.43
1	L	239	ARG	O-C-N	-6.95	111.89	123.00
1	N	470	GLN	N-CA-C	6.95	118.85	111.28
1	S	550	GLN	N-CA-C	6.95	118.85	111.28
1	0	120	ALA	N-CA-CB	6.94	122.11	111.56
1	5	708	GLN	N-CA-C	6.94	118.85	111.28
1	r	353	HIS	CE1-NE2-CD2	-6.94	102.06	109.00
1	Q	586	SER	N-CA-C	6.94	118.85	111.28
1	i	168	ALA	CA-C-N	6.94	131.23	121.09
1	i	168	ALA	C-N-CA	6.94	131.23	121.09
1	j	288	ARG	NH1-CZ-NH2	-6.94	110.28	119.30
1	l	196	VAL	CA-C-O	6.94	128.17	120.95
1	y	510	GLN	CA-C-N	6.94	130.28	120.28
1	y	510	GLN	C-N-CA	6.94	130.28	120.28
1	K	468	ASN	OD1-CG-ND2	-6.94	115.66	122.60
1	Z	369	ARG	NE-CZ-NH1	6.94	128.44	121.50
1	Z	462	VAL	N-CA-C	6.94	117.73	110.72
1	g	297	ASP	CA-CB-CG	6.94	119.54	112.60
1	n	479	GLU	N-CA-C	6.94	120.97	112.23
1	H	488	ARG	N-CA-C	6.94	118.54	110.97
1	X	239	ARG	CA-C-N	6.94	134.19	121.70
1	X	239	ARG	C-N-CA	6.94	134.19	121.70
1	Y	665	MET	CA-C-N	6.94	130.28	120.28
1	Y	665	MET	C-N-CA	6.94	130.28	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	269	ASP	CA-C-N	6.94	130.27	120.42
1	G	269	ASP	C-N-CA	6.94	130.27	120.42
1	S	372	GLU	N-CA-C	6.94	118.49	111.07
1	Z	391	GLY	N-CA-C	6.94	120.89	112.49
1	8	106	SER	CA-C-N	6.94	130.14	120.29
1	8	106	SER	C-N-CA	6.94	130.14	120.29
1	b	648	ILE	N-CA-C	6.94	117.03	110.30
1	e	94	GLU	N-CA-C	6.94	119.44	111.11
1	h	309	ASN	O-C-N	-6.94	114.92	122.07
1	v	560	HIS	CE1-NE2-CD2	-6.94	102.06	109.00
1	w	400	ALA	N-CA-C	6.94	118.84	111.28
1	x	231	ARG	NE-CZ-NH1	6.94	128.44	121.50
1	E	205	SER	O-C-N	-6.94	115.71	123.48
1	G	245	ILE	O-C-N	-6.94	115.11	121.91
1	W	418	LYS	N-CA-C	6.94	118.84	111.28
1	e	96	LYS	O-C-N	-6.94	113.82	122.35
1	g	263	VAL	N-CA-CB	-6.94	102.93	111.67
1	3	337	LEU	N-CA-CB	-6.93	100.30	110.84
1	m	399	LYS	CA-C-N	6.93	129.57	120.28
1	m	399	LYS	C-N-CA	6.93	129.57	120.28
1	m	695	ARG	NE-CZ-NH1	6.93	128.44	121.50
1	q	381	HIS	ND1-CE1-NE2	6.93	115.33	108.40
1	z	196	VAL	CA-C-N	6.93	129.57	120.28
1	z	196	VAL	C-N-CA	6.93	129.57	120.28
1	J	486	GLN	O-C-N	-6.93	112.94	122.30
1	X	498	TYR	N-CA-C	-6.93	103.78	111.82
1	Z	529	GLN	N-CA-C	6.93	118.84	111.28
1	Z	581	GLN	N-CA-C	6.93	119.47	109.14
1	d	392	GLN	CA-C-N	6.93	130.26	120.42
1	d	392	GLN	C-N-CA	6.93	130.26	120.42
1	d	460	ASN	CA-CB-CG	-6.93	105.67	112.60
1	r	134	VAL	O-C-N	-6.93	115.15	121.87
1	Q	97	VAL	CA-C-O	6.93	128.16	120.95
1	U	672	LYS	N-CA-C	6.93	120.96	112.23
1	3	145	ARG	NE-CZ-NH1	-6.93	114.57	121.50
1	g	300	ASP	CA-C-N	6.93	130.67	120.90
1	g	300	ASP	C-N-CA	6.93	130.67	120.90
1	i	125	GLY	CA-C-O	6.93	125.69	120.91
1	i	253	ILE	N-CA-C	6.93	120.77	112.80
1	k	371	ALA	CA-C-N	6.93	130.13	120.29
1	k	371	ALA	C-N-CA	6.93	130.13	120.29
1	0	548	THR	O-C-N	-6.93	114.93	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8	630	LEU	CA-C-N	6.93	129.57	120.28
1	8	630	LEU	C-N-CA	6.93	129.57	120.28
1	u	359	LEU	O-C-N	-6.93	114.25	122.15
1	x	685	THR	N-CA-C	6.93	119.71	111.33
1	y	624	THR	N-CA-C	6.93	118.48	111.07
1	H	499	LYS	N-CA-C	6.93	118.83	111.28
1	R	239	ARG	CA-C-N	6.93	134.17	121.70
1	R	239	ARG	C-N-CA	6.93	134.17	121.70
1	S	655	ARG	NE-CZ-NH2	6.93	125.44	119.20
1	W	709	PHE	N-CA-CB	-6.93	99.93	110.12
1	Z	246	LYS	N-CA-C	6.93	119.68	111.71
1	Z	286	GLY	CA-C-N	6.93	129.45	120.44
1	Z	286	GLY	C-N-CA	6.93	129.45	120.44
1	B	523	ALA	CA-C-N	6.93	129.89	120.54
1	B	523	ALA	C-N-CA	6.93	129.89	120.54
1	l	368	PRO	CA-C-N	6.93	131.68	120.60
1	l	368	PRO	C-N-CA	6.93	131.68	120.60
1	i	170	ARG	CA-C-O	-6.93	113.85	121.33
1	m	332	GLU	N-CA-C	6.93	119.47	111.02
1	y	503	ILE	N-CA-C	6.93	118.52	110.62
1	y	704	HIS	ND1-CE1-NE2	6.93	115.33	108.40
1	T	370	LEU	CA-C-N	6.93	129.44	120.44
1	T	370	LEU	C-N-CA	6.93	129.44	120.44
1	U	429	PHE	N-CA-C	6.93	118.83	111.28
1	W	181	GLN	OE1-CD-NE2	-6.93	115.67	122.60
1	d	389	LEU	N-CA-C	6.92	118.83	111.28
1	t	544	ASN	CA-CB-CG	-6.92	105.68	112.60
1	v	443	VAL	N-CA-C	6.92	118.72	109.37
1	x	341	GLU	N-CA-C	6.92	118.48	111.07
1	y	543	PHE	CB-CA-C	6.92	121.75	110.88
1	Q	252	TYR	N-CA-C	6.92	120.21	111.69
1	X	237	GLN	N-CA-C	6.92	122.99	113.16
1	0	693	LYS	CA-C-N	6.92	129.56	120.28
1	0	693	LYS	C-N-CA	6.92	129.56	120.28
1	3	640	ARG	NE-CZ-NH2	-6.92	112.97	119.20
1	c	286	GLY	CA-C-N	6.92	129.56	120.28
1	c	286	GLY	C-N-CA	6.92	129.56	120.28
1	j	550	GLN	OE1-CD-NE2	-6.92	115.68	122.60
1	m	446	ASN	N-CA-CB	6.92	122.19	110.49
1	w	376	THR	N-CA-CB	6.92	120.05	110.01
1	G	255	ARG	NE-CZ-NH1	6.92	128.42	121.50
1	Z	353	HIS	CA-C-N	6.92	126.39	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	353	HIS	C-N-CA	6.92	126.39	118.85
1	c	541	GLU	N-CA-C	6.92	118.82	111.28
1	j	323	MET	O-C-N	-6.92	114.80	123.17
1	C	543	PHE	N-CA-C	6.92	118.90	111.36
1	M	507	GLN	CG-CD-NE2	6.92	126.78	116.40
1	7	390	GLU	CA-C-N	6.92	127.61	120.00
1	7	390	GLU	C-N-CA	6.92	127.61	120.00
1	j	98	ARG	NE-CZ-NH1	6.92	128.42	121.50
1	l	629	HIS	CE1-NE2-CD2	-6.92	102.08	109.00
1	n	105	ASP	CA-CB-CG	6.92	119.52	112.60
1	p	634	PHE	CA-CB-CG	-6.92	106.88	113.80
1	Y	504	ILE	O-C-N	-6.92	114.70	121.83
1	d	678	LEU	N-CA-C	6.92	118.90	111.36
1	t	126	ASP	CA-C-O	6.92	130.40	120.51
1	z	546	ASN	CA-CB-CG	6.92	119.52	112.60
1	B	511	GLN	N-CA-C	6.92	119.70	111.33
1	L	692	LEU	CA-C-N	6.92	129.88	120.54
1	L	692	LEU	C-N-CA	6.92	129.88	120.54
1	t	250	LYS	N-CA-C	6.92	119.70	111.33
1	b	592	VAL	N-CA-C	6.91	117.06	110.42
1	H	236	ASN	N-CA-C	6.91	125.52	110.80
1	H	487	TYR	CA-C-N	6.91	129.78	120.65
1	H	487	TYR	C-N-CA	6.91	129.78	120.65
1	S	693	LYS	N-CA-C	6.91	118.82	111.28
1	h	273	THR	O-C-N	-6.91	115.11	123.27
1	h	510	GLN	N-CA-C	6.91	118.81	111.28
1	o	484	GLU	CA-C-O	6.91	127.88	120.55
1	B	629	HIS	CA-CB-CG	-6.91	106.89	113.80
1	N	474	ASN	CA-CB-CG	6.91	119.51	112.60
1	a	376	THR	N-CA-CB	6.91	120.28	110.12
1	N	217	GLU	N-CA-C	6.91	118.89	111.36
1	N	589	LEU	CA-C-N	6.91	129.42	120.44
1	N	589	LEU	C-N-CA	6.91	129.42	120.44
1	X	707	CYS	N-CA-C	6.91	119.69	111.33
1	6	501	PHE	N-CA-C	6.91	119.69	111.33
1	7	442	VAL	CA-C-O	6.91	129.41	120.78
1	a	699	LEU	N-CA-C	6.91	118.81	111.28
1	b	405	ARG	NE-CZ-NH1	6.91	128.41	121.50
1	l	197	MET	CA-C-O	6.91	127.87	120.55
1	M	141	VAL	N-CA-C	6.91	118.07	107.78
1	P	275	ALA	N-CA-C	6.91	118.81	111.28
1	T	268	VAL	O-C-N	-6.91	115.61	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	97	VAL	N-CA-C	6.91	117.42	110.23
1	R	195	ASN	CA-C-N	6.91	129.26	120.56
1	R	195	ASN	C-N-CA	6.91	129.26	120.56
1	4	352	THR	CA-C-O	6.91	127.90	120.10
1	a	280	HIS	CE1-NE2-CD2	-6.91	102.09	109.00
1	b	266	CYS	N-CA-C	6.91	118.81	111.28
1	c	506	HIS	CA-CB-CG	6.91	120.71	113.80
1	d	484	GLU	N-CA-CB	6.91	120.27	110.12
1	u	502	GLU	N-CA-CB	6.91	120.08	110.07
1	y	467	THR	N-CA-C	6.91	119.45	111.02
1	N	440	GLU	CA-C-N	6.91	130.64	120.90
1	N	440	GLU	C-N-CA	6.91	130.64	120.90
1	Z	248	LEU	CA-C-N	6.91	129.26	120.56
1	Z	248	LEU	C-N-CA	6.91	129.26	120.56
1	j	649	ILE	N-CA-C	6.90	117.05	110.42
1	J	520	LEU	N-CA-C	6.90	119.65	111.71
1	S	640	ARG	CA-C-N	6.90	129.53	120.28
1	S	640	ARG	C-N-CA	6.90	129.53	120.28
1	9	328	ARG	NE-CZ-NH1	6.90	128.40	121.50
1	a	237	GLN	N-CA-CB	6.90	119.61	110.29
1	m	198	ALA	N-CA-CB	-6.90	100.48	110.56
1	D	226	LEU	CA-C-N	6.90	128.47	119.84
1	D	226	LEU	C-N-CA	6.90	128.47	119.84
1	G	111	GLY	CA-C-N	-6.90	113.47	122.37
1	G	111	GLY	C-N-CA	-6.90	113.47	122.37
1	G	356	PHE	CA-C-N	6.90	129.83	120.44
1	G	356	PHE	C-N-CA	6.90	129.83	120.44
1	M	238	PRO	N-CA-C	-6.90	104.53	113.57
1	V	153	CYS	CA-C-O	-6.90	112.66	120.46
1	Y	433	ILE	N-CA-C	6.90	117.66	110.62
1	Z	316	TYR	CB-CA-C	6.90	117.83	110.17
1	e	455	ARG	CD-NE-CZ	6.90	134.06	124.40
1	k	501	PHE	N-CA-C	6.90	118.80	111.28
1	p	486	GLN	CB-CA-C	-6.90	101.71	111.65
1	v	457	ASP	CA-C-O	6.90	127.91	119.97
1	y	206	HIS	CA-C-O	6.90	127.63	119.56
1	M	309	ASN	CA-C-O	6.90	127.73	120.42
1	M	629	HIS	CA-C-N	6.90	130.80	120.31
1	M	629	HIS	C-N-CA	6.90	130.80	120.31
1	N	704	HIS	N-CA-C	6.90	118.45	111.07
1	P	581	GLN	CA-C-N	6.90	134.72	121.54
1	P	581	GLN	C-N-CA	6.90	134.72	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	598	ASN	OD1-CG-ND2	-6.90	115.70	122.60
1	d	506	HIS	CA-CB-CG	6.90	120.70	113.80
1	o	429	PHE	CA-C-N	6.90	129.41	120.44
1	o	429	PHE	C-N-CA	6.90	129.41	120.44
1	G	510	GLN	N-CA-C	6.90	119.64	111.71
1	J	381	HIS	CB-CG-CD2	6.90	140.17	131.20
1	8	289	THR	CA-CB-OG1	6.90	119.95	109.60
1	h	560	HIS	CA-CB-CG	-6.90	106.90	113.80
1	i	313	ASN	OD1-CG-ND2	-6.90	115.70	122.60
1	r	430	ASN	N-CA-CB	6.90	120.26	110.12
1	z	169	GLY	O-C-N	-6.90	117.31	123.65
1	G	116	LEU	CA-C-N	6.90	132.42	121.66
1	G	116	LEU	C-N-CA	6.90	132.42	121.66
1	K	388	LEU	O-C-N	-6.90	114.97	122.07
1	Q	367	VAL	O-C-N	-6.90	113.24	121.10
1	W	231	ARG	NH1-CZ-NH2	-6.90	110.33	119.30
1	a	523	ALA	CA-C-N	6.90	129.83	120.38
1	a	523	ALA	C-N-CA	6.90	129.83	120.38
1	c	571	GLN	CG-CD-NE2	6.90	126.75	116.40
1	d	514	GLU	CA-C-O	-6.90	112.17	118.79
1	p	332	GLU	CA-C-N	-6.90	113.93	123.10
1	p	332	GLU	C-N-CA	-6.90	113.93	123.10
1	s	496	VAL	CB-CA-C	-6.90	101.53	110.98
1	A	705	ALA	N-CA-C	6.90	118.88	111.36
1	K	677	TRP	N-CA-C	6.90	118.80	111.28
1	M	399	LYS	N-CA-C	6.90	118.45	111.07
1	l	707	CYS	O-C-N	-6.89	114.81	122.12
1	f	523	ALA	CA-C-O	6.89	127.92	119.79
1	y	692	LEU	N-CA-C	6.89	118.87	111.36
1	D	559	LYS	O-C-N	-6.89	114.29	122.15
1	O	471	LYS	N-CA-CB	6.89	120.25	110.12
1	T	145	ARG	CA-C-N	6.89	129.03	120.34
1	T	145	ARG	C-N-CA	6.89	129.03	120.34
1	V	210	SER	CA-C-O	6.89	128.15	120.70
1	V	589	LEU	CA-C-N	6.89	129.52	120.28
1	V	589	LEU	C-N-CA	6.89	129.52	120.28
1	l	243	LEU	N-CA-C	6.89	118.79	111.28
1	a	690	ARG	O-C-N	-6.89	113.79	122.27
1	k	551	SER	CA-C-N	6.89	129.40	120.44
1	k	551	SER	C-N-CA	6.89	129.40	120.44
1	o	285	GLU	CA-C-N	6.89	132.72	121.00
1	o	285	GLU	C-N-CA	6.89	132.72	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	o	402	GLU	N-CA-C	6.89	118.79	111.28
1	p	325	VAL	CA-C-O	6.89	127.63	120.39
1	I	662	GLN	OE1-CD-NE2	-6.89	115.71	122.60
1	M	105	ASP	CA-C-O	6.89	127.86	120.55
1	O	360	LEU	CA-C-N	6.89	129.52	120.28
1	O	360	LEU	C-N-CA	6.89	129.52	120.28
1	2	249	ILE	CA-C-N	6.89	129.51	120.28
1	2	249	ILE	C-N-CA	6.89	129.51	120.28
1	n	497	ASN	CA-CB-CG	-6.89	105.71	112.60
1	T	278	MET	CB-CA-C	-6.89	100.06	110.88
1	U	559	LYS	CA-C-N	6.89	129.51	120.28
1	U	559	LYS	C-N-CA	6.89	129.51	120.28
1	k	594	GLU	N-CA-C	6.89	118.87	111.36
1	s	346	GLU	N-CA-C	6.89	118.44	111.07
1	C	591	LYS	N-CA-C	6.89	119.67	111.33
1	N	298	LEU	CA-C-N	6.89	130.49	120.71
1	N	298	LEU	C-N-CA	6.89	130.49	120.71
1	o	194	GLN	OE1-CD-NE2	-6.89	115.71	122.60
1	q	314	LEU	N-CA-C	6.89	120.75	111.24
1	R	513	VAL	N-CA-C	6.89	117.68	110.72
1	0	356	PHE	N-CA-C	6.89	118.78	111.28
1	C	120	ALA	O-C-N	-6.89	115.40	123.25
1	G	452	ASN	N-CA-C	6.89	118.79	111.28
1	I	301	ARG	NE-CZ-NH2	-6.89	113.00	119.20
1	L	219	PRO	CA-C-N	6.89	131.21	121.02
1	L	219	PRO	C-N-CA	6.89	131.21	121.02
1	O	632	ALA	CA-C-N	6.89	129.51	120.28
1	O	632	ALA	C-N-CA	6.89	129.51	120.28
1	k	192	LYS	CB-CA-C	-6.88	100.07	110.88
1	p	480	VAL	CA-C-O	6.88	128.21	121.05
1	M	250	LYS	N-CA-C	6.88	119.66	111.33
1	X	378	LEU	CA-C-N	6.88	129.89	120.46
1	X	378	LEU	C-N-CA	6.88	129.89	120.46
1	f	497	ASN	CA-C-N	6.88	129.83	120.54
1	f	497	ASN	C-N-CA	6.88	129.83	120.54
1	s	255	ARG	NE-CZ-NH2	-6.88	113.01	119.20
1	Z	106	SER	O-C-N	-6.88	114.98	122.07
1	8	464	ILE	CB-CA-C	-6.88	102.85	112.14
1	c	256	GLN	N-CA-C	6.88	118.78	111.28
1	d	124	ILE	CA-C-N	6.88	131.42	121.03
1	d	124	ILE	C-N-CA	6.88	131.42	121.03
1	g	446	ASN	OD1-CG-ND2	-6.88	115.72	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	l	557	LYS	N-CA-C	6.88	118.86	111.36
1	x	463	GLY	O-C-N	-6.88	114.78	122.28
1	F	355	TYR	CA-C-N	6.88	129.81	120.38
1	F	355	TYR	C-N-CA	6.88	129.81	120.38
1	V	301	ARG	NE-CZ-NH2	-6.88	113.01	119.20
1	3	350	PHE	CA-CB-CG	-6.88	106.92	113.80
1	d	191	HIS	CA-CB-CG	6.88	120.68	113.80
1	C	476	ILE	N-CA-C	6.88	117.67	110.72
1	E	246	LYS	CA-C-N	6.88	129.83	120.54
1	E	246	LYS	C-N-CA	6.88	129.83	120.54
1	K	675	TYR	CA-C-O	6.88	128.04	120.82
1	4	311	VAL	CA-C-N	6.88	129.38	120.44
1	4	311	VAL	C-N-CA	6.88	129.38	120.44
1	f	457	ASP	O-C-N	-6.88	112.64	122.41
1	u	280	HIS	CG-CD2-NE2	6.88	114.08	107.20
1	K	519	MET	N-CA-C	6.88	118.86	111.36
1	P	538	HIS	CE1-NE2-CD2	-6.88	102.12	109.00
1	u	465	LEU	CA-C-O	6.88	127.78	120.70
1	y	248	LEU	N-CA-C	6.88	118.86	111.36
1	B	626	ILE	N-CA-CB	6.88	119.89	110.54
1	F	260	ASN	CB-CG-ND2	-6.88	106.08	116.40
1	G	469	THR	N-CA-C	6.88	119.36	111.11
1	Q	673	ASN	CA-C-N	6.88	130.42	120.38
1	Q	673	ASN	C-N-CA	6.88	130.42	120.38
1	a	629	HIS	N-CA-CB	6.88	120.18	109.94
1	l	497	ASN	OD1-CG-ND2	-6.88	115.72	122.60
1	o	655	ARG	N-CA-C	6.88	119.41	111.02
1	Y	145	ARG	NE-CZ-NH2	-6.88	113.01	119.20
1	2	700	THR	CA-C-N	6.87	129.49	120.28
1	2	700	THR	C-N-CA	6.87	129.49	120.28
1	3	438	GLU	CA-C-O	6.87	127.75	119.43
1	d	461	TRP	CE3-CZ3-CH2	6.87	130.04	121.10
1	f	474	ASN	CA-C-N	6.87	130.18	120.42
1	f	474	ASN	C-N-CA	6.87	130.18	120.42
1	s	673	ASN	OD1-CG-ND2	-6.87	115.73	122.60
1	x	507	GLN	N-CA-C	6.87	118.42	111.07
1	C	449	ARG	N-CA-C	6.87	119.17	110.24
1	H	623	PHE	CA-CB-CG	-6.87	106.93	113.80
1	K	435	LYS	CA-C-O	-6.87	113.26	120.55
1	M	428	MET	O-C-N	6.87	129.41	122.12
1	M	499	LYS	O-C-N	-6.87	114.83	122.12
1	W	250	LYS	CA-C-N	6.87	129.38	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	250	LYS	C-N-CA	6.87	129.38	120.44
1	X	449	ARG	N-CA-C	6.87	119.70	110.35
1	4	280	HIS	CE1-NE2-CD2	-6.87	102.13	109.00
1	5	675	TYR	CA-C-N	6.87	129.49	120.28
1	5	675	TYR	C-N-CA	6.87	129.49	120.28
1	5	694	GLU	O-C-N	-6.87	114.99	122.07
1	h	549	VAL	O-C-N	-6.87	112.97	121.90
1	t	663	LYS	N-CA-C	6.87	118.77	111.28
1	M	405	ARG	NE-CZ-NH1	6.87	128.37	121.50
1	M	655	ARG	NE-CZ-NH1	6.87	128.37	121.50
1	Q	359	LEU	CA-C-N	6.87	130.05	120.29
1	Q	359	LEU	C-N-CA	6.87	130.05	120.29
1	R	262	VAL	CB-CA-C	6.87	120.93	111.31
1	U	476	ILE	N-CA-CB	6.87	120.89	110.58
1	4	178	LEU	CA-C-N	6.87	130.51	120.82
1	4	178	LEU	C-N-CA	6.87	130.51	120.82
1	8	167	TRP	CD2-CE2-CZ2	6.87	129.27	122.40
1	7	200	ASN	CA-C-N	6.87	130.19	122.15
1	7	200	ASN	C-N-CA	6.87	130.19	122.15
1	f	707	CYS	N-CA-C	6.87	118.56	111.14
1	n	134	VAL	N-CA-C	6.87	116.99	110.53
1	q	574	MET	N-CA-C	6.87	118.77	111.28
1	s	377	GLU	O-C-N	-6.87	114.73	122.08
1	R	422	LEU	CA-C-N	6.87	129.87	120.46
1	R	422	LEU	C-N-CA	6.87	129.87	120.46
1	S	557	LYS	CA-C-N	6.87	129.87	120.46
1	S	557	LYS	C-N-CA	6.87	129.87	120.46
1	W	236	ASN	CA-CB-CG	6.87	119.47	112.60
1	X	352	THR	CA-C-O	6.87	127.83	120.55
1	Y	513	VAL	N-CA-C	6.87	117.62	110.62
1	2	536	LYS	N-CA-C	6.87	118.84	111.36
1	3	560	HIS	N-CA-C	6.87	118.77	111.28
1	j	520	LEU	O-C-N	6.87	129.14	122.07
1	u	690	ARG	NE-CZ-NH2	-6.87	113.02	119.20
1	W	580	CYS	CA-C-O	6.87	128.36	120.60
1	b	544	ASN	OD1-CG-ND2	-6.87	115.73	122.60
1	j	133	SER	O-C-N	6.87	129.40	122.12
1	l	472	VAL	CA-C-N	6.87	130.04	120.29
1	l	472	VAL	C-N-CA	6.87	130.04	120.29
1	o	547	GLN	OE1-CD-NE2	-6.87	115.73	122.60
1	s	219	PRO	N-CA-C	6.87	121.15	111.33
1	t	288	ARG	NE-CZ-NH2	6.87	125.38	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	u	351	GLN	N-CA-CB	6.87	120.21	110.12
1	Q	668	ILE	N-CA-C	6.87	118.45	110.62
1	X	630	LEU	N-CA-C	6.87	119.35	111.11
1	Z	297	ASP	N-CA-C	6.87	119.61	111.71
1	3	282	VAL	N-CA-C	-6.86	105.65	112.17
1	9	414	GLN	CB-CG-CD	6.86	124.27	112.60
1	f	294	THR	O-C-N	-6.86	115.21	123.10
1	o	635	LEU	N-CA-C	6.86	119.63	111.33
1	q	134	VAL	CA-C-N	6.86	129.36	120.44
1	q	134	VAL	C-N-CA	6.86	129.36	120.44
1	v	351	GLN	CA-C-N	6.86	129.48	120.28
1	v	351	GLN	C-N-CA	6.86	129.48	120.28
1	x	217	GLU	N-CA-C	6.86	118.41	111.07
1	A	636	GLU	N-CA-CB	6.86	119.93	109.91
1	L	348	THR	O-C-N	-6.86	114.95	122.09
1	X	182	ASP	CA-CB-CG	6.86	119.46	112.60
1	9	248	LEU	O-C-N	-6.86	114.33	122.15
1	h	448	THR	CA-C-O	6.86	128.74	121.19
1	n	409	ALA	CA-C-N	6.86	134.05	121.70
1	n	409	ALA	C-N-CA	6.86	134.05	121.70
1	u	162	GLN	CA-C-N	6.86	126.46	119.19
1	u	162	GLN	C-N-CA	6.86	126.46	119.19
1	2	369	ARG	NE-CZ-NH2	6.86	125.38	119.20
1	q	470	GLN	OE1-CD-NE2	-6.86	115.74	122.60
1	y	675	TYR	N-CA-C	6.86	119.63	111.33
1	0	441	GLU	CA-C-O	6.86	128.74	120.92
1	5	560	HIS	CA-C-N	6.86	129.36	120.44
1	5	560	HIS	C-N-CA	6.86	129.36	120.44
1	d	423	ILE	CA-C-O	-6.86	113.82	120.95
1	l	452	ASN	CA-CB-CG	-6.86	105.74	112.60
1	C	338	SER	CA-C-O	6.86	129.41	121.87
1	V	114	GLN	CA-C-N	6.86	132.51	122.63
1	V	114	GLN	C-N-CA	6.86	132.51	122.63
1	0	246	LYS	N-CA-C	6.86	118.75	111.28
1	k	369	ARG	CA-C-N	6.86	129.47	120.28
1	k	369	ARG	C-N-CA	6.86	129.47	120.28
1	v	469	THR	N-CA-C	6.86	119.78	111.82
1	G	179	GLU	CA-C-O	6.86	127.70	120.36
1	G	303	THR	CA-C-O	6.86	127.69	120.42
1	H	256	GLN	N-CA-C	6.86	119.63	111.33
1	Z	509	ILE	N-CA-C	6.86	117.61	110.62
1	r	268	VAL	N-CA-CB	6.86	119.65	110.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	u	686	ALA	CA-C-N	6.86	129.47	120.28
1	u	686	ALA	C-N-CA	6.86	129.47	120.28
1	v	681	GLU	N-CA-C	6.86	119.15	110.24
1	z	334	THR	N-CA-CB	6.86	121.57	110.40
1	K	258	THR	CA-C-N	6.86	131.12	121.66
1	K	258	THR	C-N-CA	6.86	131.12	121.66
1	P	419	MET	CA-C-N	6.86	129.47	120.28
1	P	419	MET	C-N-CA	6.86	129.47	120.28
1	U	509	ILE	CA-C-N	6.86	129.35	120.44
1	U	509	ILE	C-N-CA	6.86	129.35	120.44
1	j	443	VAL	N-CA-C	6.85	119.50	109.63
1	k	513	VAL	CA-C-N	6.85	128.66	120.09
1	k	513	VAL	C-N-CA	6.85	128.66	120.09
1	r	486	GLN	CA-C-N	6.85	129.77	120.38
1	r	486	GLN	C-N-CA	6.85	129.77	120.38
1	t	94	GLU	N-CA-C	6.85	119.59	111.71
1	z	103	LEU	CA-C-N	6.85	129.85	120.46
1	z	103	LEU	C-N-CA	6.85	129.85	120.46
1	z	336	ARG	CA-C-O	6.85	128.69	120.81
1	A	244	GLN	OE1-CD-NE2	-6.85	115.75	122.60
1	Z	509	ILE	CA-C-N	6.85	129.47	120.28
1	Z	509	ILE	C-N-CA	6.85	129.47	120.28
1	6	524	MET	CA-C-O	-6.85	113.29	120.55
1	k	623	PHE	CA-CB-CG	-6.85	106.95	113.80
1	m	206	HIS	CA-C-N	6.85	130.48	120.82
1	m	206	HIS	C-N-CA	6.85	130.48	120.82
1	o	194	GLN	O-C-N	-6.85	115.01	122.07
1	q	582	ASP	O-C-N	6.85	131.61	122.43
1	t	432	ASP	N-CA-C	6.85	118.83	111.36
1	K	645	ILE	CA-C-O	-6.85	113.03	118.85
1	T	192	LYS	CA-C-N	6.85	129.35	120.44
1	T	192	LYS	C-N-CA	6.85	129.35	120.44
1	4	241	ILE	O-C-N	-6.85	114.95	121.87
1	l	149	ILE	N-CA-C	6.85	123.59	109.34
1	n	476	ILE	N-CA-CB	6.85	118.56	110.55
1	r	402	GLU	CA-C-O	6.85	127.81	120.55
1	y	647	PHE	N-CA-C	6.85	119.33	111.11
1	4	401	THR	N-CA-CB	6.85	120.30	110.16
1	6	239	ARG	O-C-N	-6.85	114.89	122.84
1	c	647	PHE	CA-C-N	6.85	129.19	120.56
1	c	647	PHE	C-N-CA	6.85	129.19	120.56
1	e	121	ILE	CA-CB-CG2	6.85	122.14	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	n	101	ILE	CA-CB-CG2	-6.85	98.86	110.50
1	w	427	LYS	CA-C-N	6.85	129.46	120.28
1	w	427	LYS	C-N-CA	6.85	129.46	120.28
1	D	455	ARG	CA-C-N	6.85	131.10	120.82
1	D	455	ARG	C-N-CA	6.85	131.10	120.82
1	Y	505	VAL	O-C-N	-6.85	115.23	121.87
1	3	132	SER	N-CA-C	6.85	121.23	113.01
1	n	587	VAL	O-C-N	-6.85	114.10	122.18
1	q	631	ASN	CA-C-N	6.85	129.34	120.44
1	q	631	ASN	C-N-CA	6.85	129.34	120.44
1	u	340	ALA	CA-C-N	6.85	129.75	120.44
1	u	340	ALA	C-N-CA	6.85	129.75	120.44
1	B	397	HIS	CA-C-N	6.85	129.46	120.28
1	B	397	HIS	C-N-CA	6.85	129.46	120.28
1	E	153	CYS	CA-C-O	-6.85	113.29	119.86
1	G	175	ASN	CB-CG-ND2	6.85	126.67	116.40
1	H	287	ASP	CA-C-O	6.85	127.80	119.38
1	M	504	ILE	CA-C-N	6.85	130.14	120.42
1	M	504	ILE	C-N-CA	6.85	130.14	120.42
1	0	230	THR	N-CA-CB	6.85	120.25	109.71
1	J	390	GLU	CA-C-N	6.85	128.97	120.34
1	J	390	GLU	C-N-CA	6.85	128.97	120.34
1	S	244	GLN	CA-C-N	6.85	129.19	120.56
1	S	244	GLN	C-N-CA	6.85	129.19	120.56
1	0	372	GLU	N-CA-C	6.84	119.32	111.11
1	6	652	PHE	N-CA-C	6.84	118.53	111.14
1	b	457	ASP	CA-CB-CG	-6.84	105.75	112.60
1	h	598	ASN	CA-CB-CG	6.84	119.44	112.60
1	n	362	GLU	CA-C-O	6.84	127.56	119.28
1	r	398	GLN	CA-C-O	-6.84	113.30	120.55
1	F	98	ARG	CA-C-N	6.84	126.31	118.85
1	F	98	ARG	C-N-CA	6.84	126.31	118.85
1	L	442	VAL	N-CA-C	6.84	117.87	108.84
1	0	629	HIS	ND1-CE1-NE2	6.84	115.24	108.40
1	d	190	ILE	N-CA-C	-6.84	102.96	113.16
1	q	328	ARG	CA-C-O	6.84	130.30	120.51
1	F	477	HIS	CE1-NE2-CD2	-6.84	102.16	109.00
1	0	466	ALA	O-C-N	-6.84	114.87	122.12
1	6	176	THR	CA-CB-CG2	6.84	122.13	110.50
1	6	204	ILE	N-CA-C	6.84	119.29	109.51
1	j	510	GLN	OE1-CD-NE2	-6.84	115.76	122.60
1	n	207	GLU	N-CA-C	6.84	119.66	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	p	579	PHE	CA-CB-CG	6.84	120.64	113.80
1	s	460	ASN	CA-C-N	6.84	129.75	120.38
1	s	460	ASN	C-N-CA	6.84	129.75	120.38
1	t	506	HIS	CE1-NE2-CD2	-6.84	102.16	109.00
1	v	308	MET	CA-C-N	6.84	129.45	120.28
1	v	308	MET	C-N-CA	6.84	129.45	120.28
1	T	446	ASN	CA-C-N	6.84	134.60	121.54
1	T	446	ASN	C-N-CA	6.84	134.60	121.54
1	U	542	PHE	N-CA-C	6.84	120.84	107.98
1	V	341	GLU	CB-CA-C	-6.84	99.22	110.85
1	b	681	GLU	CA-C-N	6.84	129.33	120.44
1	b	681	GLU	C-N-CA	6.84	129.33	120.44
1	t	584	ILE	CA-C-N	6.84	129.75	120.38
1	t	584	ILE	C-N-CA	6.84	129.75	120.38
1	u	630	LEU	CA-C-O	6.84	127.80	120.55
1	I	679	LEU	CA-C-O	6.84	128.97	119.80
1	M	123	VAL	O-C-N	-6.84	115.22	122.68
1	N	415	GLU	O-C-N	6.84	129.37	122.12
1	a	504	ILE	O-C-N	-6.84	115.24	121.87
1	r	240	ASP	N-CA-CB	-6.84	98.88	110.50
1	N	386	LEU	N-CA-C	6.84	124.92	109.81
1	d	593	ARG	NE-CZ-NH2	6.84	125.35	119.20
1	w	665	MET	CA-C-N	6.84	129.44	120.28
1	w	665	MET	C-N-CA	6.84	129.44	120.28
1	I	477	HIS	ND1-CE1-NE2	6.84	115.24	108.40
1	P	153	CYS	N-CA-CB	-6.84	103.92	111.10
1	S	239	ARG	O-C-N	-6.84	115.22	123.29
1	U	594	GLU	N-CA-C	6.84	119.57	111.71
1	V	691	ILE	CA-C-N	6.84	130.00	120.29
1	V	691	ILE	C-N-CA	6.84	130.00	120.29
1	W	641	LEU	CA-C-N	6.84	129.75	120.38
1	W	641	LEU	C-N-CA	6.84	129.75	120.38
1	Y	220	ASP	N-CA-C	6.84	120.18	110.68
1	Z	174	ARG	NE-CZ-NH2	-6.84	113.05	119.20
1	E	455	ARG	CA-C-N	6.83	129.44	120.28
1	E	455	ARG	C-N-CA	6.83	129.44	120.28
1	X	506	HIS	CE1-NE2-CD2	-6.83	102.17	109.00
1	1	127	GLN	CA-C-O	6.83	128.21	120.90
1	4	394	ARG	CA-C-N	6.83	129.32	120.44
1	4	394	ARG	C-N-CA	6.83	129.32	120.44
1	r	430	ASN	N-CA-C	6.83	118.73	111.28
1	N	241	ILE	O-C-N	-6.83	115.21	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	673	ASN	N-CA-C	-6.83	104.84	113.72
1	Z	398	GLN	OE1-CD-NE2	-6.83	115.77	122.60
1	1	430	ASN	CA-C-N	6.83	129.73	120.44
1	1	430	ASN	C-N-CA	6.83	129.73	120.44
1	7	536	LYS	N-CA-C	6.83	118.73	111.28
1	9	248	LEU	CA-C-O	6.83	127.66	120.42
1	b	644	GLN	O-C-N	-6.83	114.36	122.15
1	f	692	LEU	CA-C-O	-6.83	113.31	120.55
1	u	302	GLY	O-C-N	-6.83	115.00	122.24
1	w	501	PHE	CA-C-N	6.83	129.43	120.28
1	w	501	PHE	C-N-CA	6.83	129.43	120.28
1	D	468	ASN	N-CA-C	6.83	118.73	111.28
1	H	202	ARG	NE-CZ-NH1	6.83	128.33	121.50
1	H	593	ARG	NE-CZ-NH2	6.83	125.35	119.20
1	P	597	PHE	N-CA-C	6.83	118.42	110.97
1	Q	684	GLU	N-CA-C	6.83	118.81	111.36
1	X	544	ASN	CA-C-O	6.83	127.66	120.42
1	2	365	ALA	CA-C-N	6.83	129.32	120.44
1	2	365	ALA	C-N-CA	6.83	129.32	120.44
1	b	206	HIS	CE1-NE2-CD2	-6.83	102.17	109.00
1	l	369	ARG	N-CA-C	-6.83	104.15	113.30
1	n	196	VAL	N-CA-C	6.83	117.59	110.62
1	J	258	THR	N-CA-CB	6.83	120.14	109.69
1	0	696	ILE	N-CA-CB	6.83	118.54	110.55
1	N	564	ALA	N-CA-C	6.83	118.72	111.28
1	W	156	VAL	N-CA-CB	6.83	119.31	111.39
1	Y	622	SER	O-C-N	-6.83	112.07	123.00
1	t	470	GLN	O-C-N	-6.83	113.87	122.27
1	B	596	ILE	N-CA-CB	6.83	122.49	111.23
1	I	353	HIS	ND1-CE1-NE2	6.83	115.23	108.40
1	2	572	PHE	CA-CB-CG	-6.83	106.97	113.80
1	6	631	ASN	OD1-CG-ND2	-6.83	115.77	122.60
1	8	187	GLU	N-CA-C	6.83	118.72	111.28
1	j	501	PHE	CA-CB-CG	6.83	120.63	113.80
1	C	240	ASP	N-CA-CB	6.83	122.10	110.50
1	H	126	ASP	CA-CB-CG	-6.83	105.77	112.60
1	H	682	GLN	N-CA-C	6.83	125.34	110.80
1	M	648	ILE	CA-C-N	6.83	129.16	120.56
1	M	648	ILE	C-N-CA	6.83	129.16	120.56
1	h	534	VAL	CA-C-O	6.82	128.05	120.95
1	k	689	ARG	NE-CZ-NH2	-6.82	113.06	119.20
1	m	405	ARG	NE-CZ-NH2	-6.82	113.06	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	t	504	ILE	O-C-N	-6.82	114.98	121.87
1	Q	206	HIS	CE1-NE2-CD2	-6.82	102.18	109.00
1	Q	506	HIS	CE1-NE2-CD2	-6.82	102.18	109.00
1	T	700	THR	O-C-N	-6.82	114.89	122.12
1	X	377	GLU	O-C-N	-6.82	114.72	122.09
1	7	214	THR	O-C-N	-6.82	115.24	123.29
1	a	585	TYR	CA-C-N	6.82	129.73	120.38
1	a	585	TYR	C-N-CA	6.82	129.73	120.38
1	j	632	ALA	N-CA-C	6.82	118.72	111.28
1	h	566	ASN	OD1-CG-ND2	-6.82	115.78	122.60
1	j	642	ALA	O-C-N	-6.82	114.89	122.12
1	B	357	ARG	N-CA-C	6.82	118.51	111.14
1	C	215	SER	CA-C-N	6.82	126.42	119.19
1	C	215	SER	C-N-CA	6.82	126.42	119.19
1	N	347	ILE	O-C-N	-6.82	114.81	121.90
1	X	571	GLN	O-C-N	-6.82	114.89	122.12
1	9	276	LEU	N-CA-C	6.82	118.71	111.28
1	l	476	ILE	N-CA-CB	6.82	118.08	110.51
1	s	569	GLN	N-CA-C	6.82	118.71	111.28
1	z	549	VAL	N-CA-C	6.82	116.97	110.42
1	D	366	THR	CA-C-N	6.82	133.43	119.72
1	D	366	THR	C-N-CA	6.82	133.43	119.72
1	K	349	PHE	N-CA-CB	-6.82	100.12	110.01
1	V	162	GLN	CA-C-O	-6.82	113.89	120.64
1	m	170	ARG	NE-CZ-NH1	6.82	128.32	121.50
1	s	353	HIS	CE1-NE2-CD2	-6.82	102.18	109.00
1	z	458	PHE	CA-CB-CG	6.82	120.62	113.80
1	z	505	VAL	N-CA-CB	6.82	118.99	110.47
1	N	558	VAL	O-C-N	-6.82	114.81	121.83
1	O	360	LEU	N-CA-C	6.82	118.40	110.97
1	Q	532	ILE	CA-C-O	-6.82	113.94	121.17
1	U	374	LEU	CA-C-N	6.82	129.30	120.44
1	U	374	LEU	C-N-CA	6.82	129.30	120.44
1	U	687	THR	CA-C-N	6.82	129.41	120.28
1	U	687	THR	C-N-CA	6.82	129.41	120.28
1	4	426	ILE	O-C-N	-6.82	115.12	121.94
1	5	565	GLU	N-CA-C	6.82	119.33	111.02
1	r	674	ARG	CA-C-N	6.82	129.72	120.38
1	r	674	ARG	C-N-CA	6.82	129.72	120.38
1	D	534	VAL	O-C-N	-6.82	114.81	121.83
1	K	641	LEU	N-CA-CB	6.82	120.14	110.12
1	T	313	ASN	OD1-CG-ND2	6.82	129.42	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	468	ASN	N-CA-C	6.82	119.55	111.71
1	e	281	GLU	N-CA-C	6.81	119.29	111.11
1	A	449	ARG	N-CA-CB	6.81	120.06	110.04
1	P	634	PHE	N-CA-C	6.81	119.58	111.33
1	0	553	ILE	CB-CA-C	-6.81	102.94	112.14
1	8	494	GLY	CA-C-N	6.81	133.96	121.70
1	8	494	GLY	C-N-CA	6.81	133.96	121.70
1	a	624	THR	O-C-N	-6.81	114.90	122.12
1	c	250	LYS	CA-C-N	6.81	129.71	120.38
1	c	250	LYS	C-N-CA	6.81	129.71	120.38
1	i	98	ARG	NE-CZ-NH2	-6.81	113.07	119.20
1	k	168	ALA	CA-C-N	6.81	130.26	121.27
1	k	168	ALA	C-N-CA	6.81	130.26	121.27
1	u	306	SER	N-CA-C	6.81	119.72	111.82
1	A	334	THR	N-CA-C	6.81	119.28	111.11
1	D	537	LYS	CA-C-O	6.81	127.97	120.82
1	F	409	ALA	O-C-N	-6.81	113.53	122.59
1	J	693	LYS	N-CA-C	6.81	118.36	111.07
1	N	688	LYS	CA-C-N	6.81	129.71	120.38
1	N	688	LYS	C-N-CA	6.81	129.71	120.38
1	S	655	ARG	NH1-CZ-NH2	-6.81	110.44	119.30
1	q	552	THR	CA-CB-OG1	6.81	119.82	109.60
1	V	455	ARG	CA-C-N	6.81	129.29	120.44
1	V	455	ARG	C-N-CA	6.81	129.29	120.44
1	4	186	VAL	CA-C-N	6.81	129.41	120.28
1	4	186	VAL	C-N-CA	6.81	129.41	120.28
1	5	108	ARG	NH1-CZ-NH2	-6.81	110.45	119.30
1	6	150	VAL	O-C-N	-6.81	117.05	122.97
1	a	585	TYR	N-CA-C	6.81	125.31	110.80
1	e	381	HIS	N-CA-CB	6.81	120.13	110.12
1	k	565	GLU	CA-C-N	6.81	130.25	120.79
1	k	565	GLU	C-N-CA	6.81	130.25	120.79
1	n	271	ALA	CA-C-N	6.81	129.41	120.28
1	n	271	ALA	C-N-CA	6.81	129.41	120.28
1	s	102	ASP	O-C-N	-6.81	114.90	122.12
1	v	151	THR	N-CA-C	6.81	120.10	110.23
1	0	104	ILE	CB-CA-C	-6.81	102.95	112.14
1	4	655	ARG	NE-CZ-NH1	6.81	128.31	121.50
1	4	698	ARG	N-CA-C	6.81	118.35	111.07
1	y	272	THR	N-CA-C	6.81	119.28	111.11
1	z	386	LEU	CA-C-N	6.81	126.27	118.85
1	z	386	LEU	C-N-CA	6.81	126.27	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	105	ASP	CA-C-N	6.81	129.29	120.44
1	H	105	ASP	C-N-CA	6.81	129.29	120.44
1	I	336	ARG	NE-CZ-NH2	6.81	125.33	119.20
1	Q	159	LEU	CA-C-O	-6.81	113.35	120.70
1	W	572	PHE	CA-C-N	6.81	129.40	120.28
1	W	572	PHE	C-N-CA	6.81	129.40	120.28
1	2	640	ARG	NE-CZ-NH1	6.81	128.31	121.50
1	a	557	LYS	N-CA-C	6.81	119.28	111.11
1	d	523	ALA	CA-C-N	6.81	129.40	120.28
1	d	523	ALA	C-N-CA	6.81	129.40	120.28
1	t	557	LYS	N-CA-C	6.81	119.72	111.82
1	T	520	LEU	CA-C-N	6.81	129.40	120.28
1	T	520	LEU	C-N-CA	6.81	129.40	120.28
1	V	105	ASP	CA-C-N	6.81	129.40	120.28
1	V	105	ASP	C-N-CA	6.81	129.40	120.28
1	7	677	TRP	N-CA-C	6.80	120.80	112.23
1	9	213	ILE	O-C-N	-6.80	115.83	123.18
1	j	689	ARG	NE-CZ-NH1	-6.80	114.70	121.50
1	t	586	SER	N-CA-C	6.80	118.35	111.07
1	L	431	GLN	OE1-CD-NE2	-6.80	115.80	122.60
1	S	417	ASP	CA-CB-CG	6.80	119.41	112.60
1	Y	247	ALA	O-C-N	-6.80	114.91	122.12
1	t	576	GLN	N-CA-C	6.80	118.70	111.28
1	E	562	ALA	N-CA-C	6.80	118.35	111.07
1	G	121	ILE	O-C-N	-6.80	116.10	123.18
1	y	277	SER	N-CA-C	6.80	118.69	111.28
1	C	192	LYS	N-CA-C	6.80	118.35	111.07
1	G	179	GLU	O-C-N	-6.80	115.47	123.22
1	U	443	VAL	N-CA-C	6.80	123.49	109.34
1	7	388	LEU	O-C-N	6.80	129.33	122.12
1	7	527	ILE	N-CA-C	6.80	117.56	110.62
1	l	330	GLN	CA-C-N	6.80	133.51	122.29
1	l	330	GLN	C-N-CA	6.80	133.51	122.29
1	u	652	PHE	N-CA-C	6.80	119.71	111.82
1	x	286	GLY	CA-C-O	6.80	126.19	118.98
1	L	195	ASN	CB-CG-ND2	6.80	126.60	116.40
1	M	656	GLU	N-CA-C	6.80	119.71	111.82
1	V	566	ASN	OD1-CG-ND2	-6.80	115.80	122.60
1	Z	98	ARG	O-C-N	-6.80	114.32	120.71
1	Z	106	SER	N-CA-CB	6.80	119.87	110.01
1	s	123	VAL	CA-C-N	6.80	132.04	123.14
1	s	123	VAL	C-N-CA	6.80	132.04	123.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	301	ARG	N-CA-C	6.80	120.45	110.59
1	0	240	ASP	N-CA-CB	6.80	122.05	110.50
1	0	394	ARG	NH1-CZ-NH2	-6.80	110.47	119.30
1	3	339	LEU	O-C-N	-6.80	114.92	122.12
1	7	543	PHE	N-CA-CB	6.80	119.87	110.01
1	l	98	ARG	NH1-CZ-NH2	-6.80	110.46	119.30
1	v	553	ILE	N-CA-C	6.80	117.50	110.36
1	w	127	GLN	N-CA-C	6.80	118.34	111.07
1	x	134	VAL	CA-C-N	6.80	129.94	120.29
1	x	134	VAL	C-N-CA	6.80	129.94	120.29
1	I	462	VAL	N-CA-CB	6.80	118.50	110.55
1	X	415	GLU	CA-C-O	6.80	127.75	120.55
1	1	394	ARG	NE-CZ-NH2	6.79	125.31	119.20
1	7	218	VAL	N-CA-CB	6.79	118.69	110.33
1	P	518	SER	CA-C-N	6.79	129.27	120.44
1	P	518	SER	C-N-CA	6.79	129.27	120.44
1	S	577	MET	CG-SD-CE	-6.79	85.95	100.90
1	c	303	THR	N-CA-C	6.79	118.68	111.28
1	l	226	LEU	N-CA-CB	-6.79	101.12	110.29
1	x	104	ILE	N-CA-C	6.79	116.94	110.42
1	R	223	ILE	CA-C-O	6.79	128.19	121.19
1	W	638	SER	CA-C-N	6.79	129.69	120.38
1	W	638	SER	C-N-CA	6.79	129.69	120.38
1	6	419	MET	N-CA-C	6.79	118.34	111.07
1	e	513	VAL	N-CA-C	6.79	116.94	110.42
1	t	316	TYR	CB-CA-C	6.79	117.96	110.15
1	y	498	TYR	N-CA-C	6.79	118.68	111.28
1	y	689	ARG	NH1-CZ-NH2	-6.79	110.47	119.30
1	D	432	ASP	CA-CB-CG	-6.79	105.81	112.60
1	G	560	HIS	CA-CB-CG	-6.79	107.01	113.80
1	Y	681	GLU	N-CA-C	6.79	119.59	110.35
1	5	313	ASN	CA-C-N	6.79	132.41	122.63
1	5	313	ASN	C-N-CA	6.79	132.41	122.63
1	j	573	ARG	CA-C-N	6.79	129.93	120.29
1	j	573	ARG	C-N-CA	6.79	129.93	120.29
1	x	95	GLN	CA-C-O	6.79	127.75	120.55
1	B	153	CYS	CB-CA-C	-6.79	98.35	108.87
1	0	197	MET	CA-C-O	6.79	127.69	120.70
1	4	158	LYS	CA-C-O	-6.79	113.20	120.46
1	g	337	LEU	CA-C-N	6.79	131.00	120.75
1	g	337	LEU	C-N-CA	6.79	131.00	120.75
1	n	336	ARG	NE-CZ-NH1	6.79	128.29	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	p	306	SER	N-CA-CB	6.79	119.86	110.01
1	y	561	THR	CA-CB-OG1	6.79	119.78	109.60
1	K	260	ASN	CA-C-N	-6.79	113.63	123.00
1	K	260	ASN	C-N-CA	-6.79	113.63	123.00
1	K	381	HIS	CE1-NE2-CD2	-6.79	102.21	109.00
1	3	339	LEU	CA-C-N	6.79	129.26	120.44
1	3	339	LEU	C-N-CA	6.79	129.26	120.44
1	c	397	HIS	CE1-NE2-CD2	-6.79	102.22	109.00
1	i	150	VAL	CA-C-O	-6.79	115.53	121.09
1	v	353	HIS	CE1-NE2-CD2	-6.79	102.22	109.00
1	x	624	THR	CA-C-N	6.79	129.26	120.44
1	x	624	THR	C-N-CA	6.79	129.26	120.44
1	D	218	VAL	CA-C-O	-6.79	113.51	119.62
1	1	503	ILE	O-C-N	-6.78	115.26	121.91
1	3	103	LEU	N-CA-C	6.78	118.33	111.07
1	9	199	GLY	O-C-N	6.78	129.46	122.54
1	s	555	ASP	N-CA-C	6.78	118.33	111.07
1	v	451	TYR	CA-C-N	6.78	129.92	120.29
1	v	451	TYR	C-N-CA	6.78	129.92	120.29
1	I	98	ARG	NE-CZ-NH2	-6.78	113.09	119.20
1	V	485	LYS	CA-C-N	6.78	129.37	120.28
1	V	485	LYS	C-N-CA	6.78	129.37	120.28
1	6	590	LYS	N-CA-C	6.78	118.67	111.28
1	7	444	ARG	NH1-CZ-NH2	-6.78	110.48	119.30
1	u	559	LYS	O-C-N	-6.78	115.08	122.07
1	c	195	ASN	CB-CG-ND2	-6.78	106.23	116.40
1	H	706	LEU	N-CA-C	6.78	118.33	111.07
1	J	455	ARG	NH1-CZ-NH2	-6.78	110.48	119.30
1	J	494	GLY	CA-C-N	6.78	133.91	121.70
1	J	494	GLY	C-N-CA	6.78	133.91	121.70
1	U	452	ASN	OD1-CG-ND2	-6.78	115.82	122.60
1	V	377	GLU	CA-C-N	6.78	129.37	120.28
1	V	377	GLU	C-N-CA	6.78	129.37	120.28
1	X	546	ASN	OD1-CG-ND2	-6.78	115.82	122.60
1	Z	667	GLN	CA-C-N	6.78	129.75	120.46
1	Z	667	GLN	C-N-CA	6.78	129.75	120.46
1	3	267	ASN	CA-CB-CG	6.78	119.38	112.60
1	x	373	ARG	NH1-CZ-NH2	-6.78	110.49	119.30
1	B	253	ILE	O-C-N	-6.78	114.18	122.18
1	H	637	THR	CA-C-N	6.78	129.36	120.28
1	H	637	THR	C-N-CA	6.78	129.36	120.28
1	P	355	TYR	N-CA-C	6.78	118.32	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	569	GLN	OE1-CD-NE2	-6.78	115.82	122.60
1	l	645	ILE	O-C-N	-6.78	115.26	120.07
1	M	560	HIS	CA-CB-CG	-6.78	107.02	113.80
1	3	219	PRO	O-C-N	-6.78	114.91	123.04
1	3	298	LEU	O-C-N	-6.78	113.18	122.46
1	i	477	HIS	ND1-CE1-NE2	6.78	115.18	108.40
1	E	396	SER	O-C-N	-6.78	115.04	122.09
1	I	312	ARG	N-CA-C	6.78	118.32	111.07
1	J	564	ALA	N-CA-C	6.78	119.24	111.11
1	R	557	LYS	N-CA-C	6.78	118.67	111.28
1	5	348	THR	CA-CB-CG2	6.77	122.02	110.50
1	c	210	SER	CA-C-O	6.77	127.51	120.40
1	f	593	ARG	NH1-CZ-NH2	-6.77	110.49	119.30
1	k	571	GLN	N-CA-C	6.77	118.66	111.28
1	B	514	GLU	N-CA-C	6.77	122.06	113.25
1	b	479	GLU	N-CA-C	6.77	118.74	111.36
1	d	230	THR	CA-CB-OG1	6.77	119.76	109.60
1	o	357	ARG	CA-C-N	6.77	129.34	120.60
1	o	357	ARG	C-N-CA	6.77	129.34	120.60
1	s	232	VAL	O-C-N	-6.77	115.37	123.02
1	v	327	CYS	O-C-N	-6.77	115.02	123.01
1	z	640	ARG	N-CA-C	6.77	119.68	111.82
1	z	652	PHE	N-CA-C	6.77	121.63	113.23
1	A	384	LYS	N-CA-C	6.77	118.66	111.28
1	K	125	GLY	O-C-N	-6.77	117.03	123.87
1	3	498	TYR	CA-C-O	-6.77	113.37	120.55
1	4	134	VAL	CA-C-N	6.77	129.24	120.44
1	4	134	VAL	C-N-CA	6.77	129.24	120.44
1	n	500	THR	N-CA-C	6.77	118.66	111.28
1	q	311	VAL	CA-C-N	6.77	129.66	120.38
1	q	311	VAL	C-N-CA	6.77	129.66	120.38
1	0	327	CYS	CA-C-N	6.77	134.47	121.54
1	0	327	CYS	C-N-CA	6.77	134.47	121.54
1	0	452	ASN	CA-CB-CG	-6.77	105.83	112.60
1	6	629	HIS	CA-CB-CG	6.77	120.57	113.80
1	c	553	ILE	N-CA-CB	6.77	117.73	110.62
1	n	230	THR	O-C-N	6.77	130.14	122.22
1	n	680	GLN	CA-C-N	6.77	133.00	120.95
1	n	680	GLN	C-N-CA	6.77	133.00	120.95
1	B	188	LYS	CA-C-O	6.77	127.75	119.97
1	G	468	ASN	CA-C-O	6.77	127.72	120.55
1	5	168	ALA	O-C-N	-6.77	115.42	123.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7	218	VAL	CA-C-O	6.77	125.72	119.76
1	a	489	GLY	CA-C-O	-6.77	113.49	120.66
1	k	233	ALA	CA-C-N	6.77	131.46	122.93
1	k	233	ALA	C-N-CA	6.77	131.46	122.93
1	l	629	HIS	ND1-CE1-NE2	6.77	115.17	108.40
1	v	114	GLN	N-CA-CB	6.77	121.12	110.56
1	y	392	GLN	CA-C-N	6.77	129.33	120.60
1	y	392	GLN	C-N-CA	6.77	129.33	120.60
1	z	625	GLU	O-C-N	-6.77	113.98	122.17
1	F	343	THR	CA-C-N	6.77	129.64	120.44
1	F	343	THR	C-N-CA	6.77	129.64	120.44
1	K	144	PRO	CA-C-N	6.77	129.24	120.44
1	K	144	PRO	C-N-CA	6.77	129.24	120.44
1	L	695	ARG	NE-CZ-NH1	6.77	128.27	121.50
1	Z	505	VAL	N-CA-C	6.77	117.52	110.62
1	t	499	LYS	N-CA-C	6.77	118.66	111.28
1	O	267	ASN	CA-C-O	6.77	127.23	119.18
1	T	375	THR	O-C-N	-6.77	114.95	122.12
1	8	301	ARG	NE-CZ-NH2	-6.76	113.11	119.20
1	i	196	VAL	CA-CB-CG1	6.76	121.90	110.40
1	j	626	ILE	CA-C-N	6.76	127.63	119.99
1	j	626	ILE	C-N-CA	6.76	127.63	119.99
1	q	402	GLU	CA-C-N	6.76	129.23	120.44
1	q	402	GLU	C-N-CA	6.76	129.23	120.44
1	A	472	VAL	O-C-N	-6.76	113.85	122.17
1	E	186	VAL	N-CA-C	6.76	117.52	110.62
1	P	294	THR	O-C-N	-6.76	114.44	122.96
1	T	260	ASN	OD1-CG-ND2	-6.76	115.84	122.60
1	V	657	ASN	OD1-CG-ND2	-6.76	115.84	122.60
1	Z	209	ILE	N-CA-CB	6.76	121.40	111.52
1	H	433	ILE	CB-CA-C	-6.76	103.31	111.97
1	L	497	ASN	OD1-CG-ND2	-6.76	115.84	122.60
1	2	699	LEU	O-C-N	-6.76	114.95	122.12
1	8	680	GLN	OE1-CD-NE2	-6.76	115.84	122.60
1	m	506	HIS	CA-CB-CG	6.76	120.56	113.80
1	q	136	GLU	N-CA-C	6.76	119.22	111.11
1	w	456	GLU	O-C-N	-6.76	114.95	122.12
1	A	540	GLY	CA-C-N	6.76	129.34	120.28
1	A	540	GLY	C-N-CA	6.76	129.34	120.28
1	S	389	LEU	CA-C-O	6.76	127.72	120.55
1	p	163	PRO	CA-C-N	6.76	132.29	120.87
1	p	163	PRO	C-N-CA	6.76	132.29	120.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	544	ASN	CA-C-O	-6.76	113.72	120.82
1	y	240	ASP	N-CA-CB	6.76	121.99	110.50
1	z	251	LYS	N-CA-C	6.76	119.48	111.71
1	H	100	CYS	N-CA-C	6.76	119.51	111.33
1	l	347	ILE	CA-C-N	6.76	129.66	120.54
1	l	347	ILE	C-N-CA	6.76	129.66	120.54
1	8	144	PRO	CA-C-N	6.76	129.63	120.44
1	8	144	PRO	C-N-CA	6.76	129.63	120.44
1	m	441	GLU	N-CA-C	6.76	119.03	110.24
1	Z	267	ASN	N-CA-C	-6.76	105.07	113.38
1	5	271	ALA	N-CA-CB	6.76	120.05	110.12
1	6	349	PHE	N-CA-C	6.76	118.30	111.07
1	i	544	ASN	CA-CB-CG	6.76	119.36	112.60
1	q	395	GLU	O-C-N	-6.76	115.11	122.07
1	r	331	GLN	OE1-CD-NE2	-6.76	115.84	122.60
1	u	597	PHE	CA-CB-CG	6.76	120.56	113.80
1	G	404	LEU	CA-C-N	6.76	131.93	121.19
1	G	404	LEU	C-N-CA	6.76	131.93	121.19
1	S	247	ALA	N-CA-C	6.76	118.72	111.36
1	T	529	GLN	OE1-CD-NE2	-6.76	115.84	122.60
1	0	530	ALA	N-CA-C	6.75	118.64	111.28
1	2	347	ILE	N-CA-C	6.75	116.91	110.42
1	3	628	ILE	O-C-N	-6.75	115.29	121.91
1	q	563	LYS	N-CA-CB	6.75	120.16	110.16
1	u	448	THR	CA-CB-OG1	6.75	119.73	109.60
1	N	301	ARG	NE-CZ-NH2	-6.75	113.12	119.20
1	0	382	ILE	O-C-N	-6.75	115.29	121.91
1	l	588	VAL	CA-C-O	6.75	127.54	120.25
1	p	264	VAL	O-C-N	-6.75	113.40	121.10
1	J	529	GLN	CA-C-N	6.75	129.33	120.28
1	J	529	GLN	C-N-CA	6.75	129.33	120.28
1	Z	506	HIS	ND1-CE1-NE2	6.75	115.15	108.40
1	4	474	ASN	N-CA-C	6.75	118.29	111.07
1	a	693	LYS	N-CA-C	6.75	119.21	111.11
1	g	590	LYS	CA-C-O	-6.75	113.39	120.55
1	j	640	ARG	N-CA-C	6.75	118.64	111.28
1	m	631	ASN	CA-C-N	6.75	129.33	120.28
1	m	631	ASN	C-N-CA	6.75	129.33	120.28
1	u	493	LEU	N-CA-C	6.75	120.56	111.24
1	y	708	GLN	OE1-CD-NE2	-6.75	115.85	122.60
1	C	244	GLN	O-C-N	-6.75	114.96	122.12
1	J	705	ALA	N-CA-C	6.75	118.72	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	98	ARG	CD-NE-CZ	6.75	133.85	124.40
1	O	254	GLN	N-CA-CB	6.75	120.04	110.12
1	t	328	ARG	NE-CZ-NH2	-6.75	113.12	119.20
1	H	555	ASP	N-CA-C	6.75	118.64	111.28
1	J	140	GLY	CA-C-O	6.75	126.12	119.37
1	O	301	ARG	N-CA-C	6.75	119.27	110.43
1	Y	367	VAL	N-CA-C	6.75	116.39	108.96
1	q	671	GLU	CA-C-N	6.75	129.32	120.28
1	q	671	GLU	C-N-CA	6.75	129.32	120.28
1	C	477	HIS	CA-CB-CG	6.75	120.55	113.80
1	G	386	LEU	CA-C-O	-6.75	112.42	118.63
1	K	580	CYS	CA-C-O	6.75	127.62	120.33
1	O	594	GLU	N-CA-C	6.75	119.50	111.33
1	Y	537	LYS	N-CA-CB	6.75	120.15	110.16
1	6	517	LEU	CA-C-N	6.75	129.32	120.28
1	6	517	LEU	C-N-CA	6.75	129.32	120.28
1	a	313	ASN	CA-CB-CG	-6.75	105.85	112.60
1	k	133	SER	N-CA-C	6.75	120.39	111.75
1	u	706	LEU	CA-C-N	6.75	129.32	120.28
1	u	706	LEU	C-N-CA	6.75	129.32	120.28
1	Z	466	ALA	CA-C-N	6.75	129.21	120.44
1	Z	466	ALA	C-N-CA	6.75	129.21	120.44
1	3	453	LYS	N-CA-C	6.75	119.47	111.71
1	6	392	GLN	N-CA-C	6.75	118.63	111.28
1	8	584	ILE	O-C-N	-6.75	113.29	122.26
1	9	682	GLN	CA-C-N	6.75	133.84	121.70
1	9	682	GLN	C-N-CA	6.75	133.84	121.70
1	v	111	GLY	O-C-N	-6.75	113.93	122.70
1	w	674	ARG	N-CA-C	6.75	119.64	111.82
1	z	501	PHE	O-C-N	-6.75	114.97	122.12
1	z	511	GLN	CA-C-N	6.75	131.99	120.72
1	z	511	GLN	C-N-CA	6.75	131.99	120.72
1	H	655	ARG	NE-CZ-NH1	6.75	128.25	121.50
1	0	204	ILE	N-CA-C	6.74	118.28	109.58
1	f	372	GLU	N-CA-C	6.74	118.28	111.07
1	g	237	GLN	CA-C-O	-6.74	113.33	120.88
1	g	306	SER	O-C-N	-6.74	115.12	122.07
1	D	336	ARG	N-CA-C	6.74	120.08	109.96
1	G	594	GLU	N-CA-C	6.74	119.64	111.82
1	G	647	PHE	CA-CB-CG	6.74	120.54	113.80
1	L	371	ALA	N-CA-C	6.74	118.71	111.36
1	N	453	LYS	N-CA-C	6.74	118.29	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	246	LYS	CA-C-N	6.74	129.61	120.44
1	R	246	LYS	C-N-CA	6.74	129.61	120.44
1	T	643	ASN	CA-CB-CG	-6.74	105.86	112.60
1	b	682	GLN	N-CA-C	6.74	118.28	111.07
1	l	644	GLN	CA-C-N	6.74	124.49	120.24
1	l	644	GLN	C-N-CA	6.74	124.49	120.24
1	G	191	HIS	CG-CD2-NE2	6.74	113.94	107.20
1	G	207	GLU	CA-C-N	6.74	130.41	120.90
1	G	207	GLU	C-N-CA	6.74	130.41	120.90
1	J	206	HIS	CA-C-N	6.74	130.93	120.75
1	J	206	HIS	C-N-CA	6.74	130.93	120.75
1	V	405	ARG	NE-CZ-NH2	6.74	125.27	119.20
1	8	137	ALA	N-CA-C	6.74	118.28	111.07
1	u	117	ALA	N-CA-CB	-6.74	100.18	110.16
1	A	688	LYS	CA-C-N	6.74	129.31	120.28
1	A	688	LYS	C-N-CA	6.74	129.31	120.28
1	H	240	ASP	CA-C-N	6.74	129.69	120.46
1	H	240	ASP	C-N-CA	6.74	129.69	120.46
1	I	252	TYR	O-C-N	-6.74	112.79	122.36
1	J	502	GLU	CA-C-N	6.74	129.30	120.60
1	J	502	GLU	C-N-CA	6.74	129.30	120.60
1	M	674	ARG	N-CA-C	6.74	119.64	111.82
1	N	436	LEU	N-CA-C	6.74	118.63	111.28
1	S	287	ASP	N-CA-CB	6.74	120.44	110.33
1	U	504	ILE	CA-C-O	-6.74	113.70	120.85
1	W	450	LEU	N-CA-C	6.74	118.28	111.07
1	g	382	ILE	CB-CA-C	6.74	120.60	111.97
1	i	433	ILE	CA-C-N	6.74	129.20	120.44
1	i	433	ILE	C-N-CA	6.74	129.20	120.44
1	j	123	VAL	CA-C-N	6.74	132.41	122.71
1	j	123	VAL	C-N-CA	6.74	132.41	122.71
1	n	262	VAL	O-C-N	-6.74	115.98	123.26
1	p	527	ILE	N-CA-C	6.74	117.49	110.62
1	I	585	TYR	N-CA-C	6.74	118.62	111.28
1	L	522	LYS	CA-C-N	6.74	129.54	120.65
1	L	522	LYS	C-N-CA	6.74	129.54	120.65
1	N	707	CYS	N-CA-C	6.74	118.62	111.28
1	Q	474	ASN	N-CA-C	6.74	118.42	111.14
1	0	150	VAL	CA-C-N	6.74	130.32	120.82
1	0	150	VAL	C-N-CA	6.74	130.32	120.82
1	A	294	THR	CA-CB-CG2	6.74	121.95	110.50
1	K	669	LEU	CA-C-N	6.74	129.86	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	669	LEU	C-N-CA	6.74	129.86	120.29
1	R	372	GLU	CA-C-O	6.74	127.56	120.42
1	S	132	SER	CA-C-N	6.74	129.61	120.38
1	S	132	SER	C-N-CA	6.74	129.61	120.38
1	5	327	CYS	O-C-N	-6.74	114.67	122.89
1	7	475	ILE	N-CA-C	6.74	117.43	110.36
1	t	525	GLU	CA-C-N	6.74	129.69	120.46
1	t	525	GLU	C-N-CA	6.74	129.69	120.46
1	x	555	ASP	CA-C-O	6.74	127.90	120.63
1	A	464	ILE	N-CA-CB	6.74	119.70	110.54
1	X	407	CYS	CA-C-O	6.74	127.47	120.40
1	Z	218	VAL	O-C-N	-6.74	113.42	121.10
1	2	513	VAL	CA-CB-CG2	-6.73	98.95	110.40
1	9	295	LYS	CA-C-N	6.73	126.33	119.19
1	9	295	LYS	C-N-CA	6.73	126.33	119.19
1	e	652	PHE	CA-CB-CG	-6.73	107.07	113.80
1	l	195	ASN	CA-C-O	-6.73	113.28	120.42
1	t	459	LYS	O-C-N	-6.73	115.09	122.09
1	P	94	GLU	N-CA-C	6.73	119.19	111.11
1	P	279	ALA	CA-C-O	6.73	127.71	120.10
1	T	419	MET	CA-C-N	6.73	129.19	120.44
1	T	419	MET	C-N-CA	6.73	129.19	120.44
1	2	477	HIS	CG-CD2-NE2	6.73	113.93	107.20
1	h	159	LEU	CA-C-O	6.73	127.38	120.24
1	l	286	GLY	CA-C-N	6.73	129.30	120.28
1	l	286	GLY	C-N-CA	6.73	129.30	120.28
1	m	106	SER	N-CA-C	6.73	119.19	111.11
1	A	705	ALA	CA-C-N	6.73	129.19	120.44
1	A	705	ALA	C-N-CA	6.73	129.19	120.44
1	H	364	SER	CA-C-N	6.73	134.40	121.54
1	H	364	SER	C-N-CA	6.73	134.40	121.54
1	I	685	THR	N-CA-CB	6.73	119.77	110.01
1	3	182	ASP	CA-C-O	6.73	126.01	119.55
1	5	622	SER	CA-C-N	6.73	130.21	120.38
1	5	622	SER	C-N-CA	6.73	130.21	120.38
1	9	239	ARG	CA-C-N	6.73	133.81	121.70
1	9	239	ARG	C-N-CA	6.73	133.81	121.70
1	e	644	GLN	N-CA-C	6.73	118.70	111.36
1	f	500	THR	O-C-N	-6.73	115.14	122.07
1	m	288	ARG	CA-C-O	6.73	128.93	120.65
1	t	227	PRO	CA-C-N	6.73	126.50	120.10
1	t	227	PRO	C-N-CA	6.73	126.50	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	659	ASP	CB-CA-C	6.73	121.45	110.88
1	T	420	PHE	CA-CB-CG	-6.73	107.07	113.80
1	5	110	LEU	O-C-N	-6.73	113.93	122.34
1	w	436	LEU	N-CA-C	6.73	118.61	111.28
1	I	526	ILE	N-CA-C	6.73	117.48	110.62
1	0	214	THR	N-CA-CB	6.73	121.33	110.77
1	5	205	SER	N-CA-CB	6.73	121.22	110.46
1	u	484	GLU	O-C-N	-6.73	114.99	122.12
1	x	345	LYS	N-CA-C	6.73	118.69	111.36
1	J	702	ALA	N-CA-C	6.73	119.18	111.11
1	V	205	SER	CB-CA-C	6.73	121.88	109.70
1	Z	170	ARG	NE-CZ-NH1	6.73	128.23	121.50
1	a	113	GLU	N-CA-C	-6.73	105.11	113.38
1	g	455	ARG	NH1-CZ-NH2	-6.73	110.56	119.30
1	0	233	ALA	CA-C-N	6.72	130.12	120.98
1	0	233	ALA	C-N-CA	6.72	130.12	120.98
1	6	449	ARG	NH1-CZ-NH2	-6.72	110.56	119.30
1	b	425	LYS	N-CA-C	6.72	118.61	111.28
1	e	647	PHE	O-C-N	-6.72	114.99	122.12
1	t	409	ALA	O-C-N	-6.72	113.65	122.59
1	t	647	PHE	CA-C-O	-6.72	113.76	120.82
1	A	441	GLU	O-C-N	-6.72	114.66	122.93
1	K	593	ARG	NE-CZ-NH1	6.72	128.22	121.50
1	N	553	ILE	N-CA-C	6.72	117.48	110.62
1	S	204	ILE	O-C-N	-6.72	115.61	122.54
1	Z	371	ALA	CA-C-N	6.72	129.29	120.28
1	Z	371	ALA	C-N-CA	6.72	129.29	120.28
1	c	516	ALA	N-CA-C	6.72	119.18	111.11
1	d	202	ARG	NE-CZ-NH1	6.72	128.22	121.50
1	d	706	LEU	CA-C-N	6.72	129.29	120.28
1	d	706	LEU	C-N-CA	6.72	129.29	120.28
1	n	476	ILE	N-CA-C	6.72	116.87	110.42
1	r	104	ILE	N-CA-C	6.72	117.48	110.62
1	P	581	GLN	CB-CG-CD	6.72	124.03	112.60
1	X	144	PRO	N-CA-C	6.72	121.63	111.14
1	Y	295	LYS	CA-C-N	6.72	126.67	119.28
1	Y	295	LYS	C-N-CA	6.72	126.67	119.28
1	a	504	ILE	CA-C-N	6.72	129.67	120.46
1	a	504	ILE	C-N-CA	6.72	129.67	120.46
1	f	111	GLY	O-C-N	-6.72	113.96	122.70
1	g	136	GLU	CB-CA-C	6.72	123.33	109.95
1	i	190	ILE	N-CA-C	6.72	117.47	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	k	695	ARG	CA-C-N	6.72	129.03	120.56
1	k	695	ARG	C-N-CA	6.72	129.03	120.56
1	u	554	GLU	N-CA-C	6.72	119.17	111.11
1	M	480	VAL	O-C-N	-6.72	114.91	121.83
1	8	660	SER	CA-C-N	6.72	129.61	120.54
1	8	660	SER	C-N-CA	6.72	129.61	120.54
1	o	650	GLN	CA-C-N	6.72	129.18	120.44
1	o	650	GLN	C-N-CA	6.72	129.18	120.44
1	q	394	ARG	CA-C-O	6.72	127.87	120.82
1	x	287	ASP	CA-C-O	6.72	127.46	119.60
1	B	185	GLN	OE1-CD-NE2	-6.72	115.88	122.60
1	P	351	GLN	O-C-N	-6.72	113.43	122.43
1	R	170	ARG	CB-CA-C	6.72	120.77	109.48
1	U	680	GLN	CA-C-O	-6.72	114.43	121.55
1	W	283	ASP	CA-C-N	6.72	127.66	120.47
1	W	283	ASP	C-N-CA	6.72	127.66	120.47
1	a	253	ILE	N-CA-C	6.72	121.44	112.04
1	l	205	SER	O-C-N	-6.72	115.20	123.33
1	n	538	HIS	CB-CG-CD2	-6.72	122.47	131.20
1	z	179	GLU	O-C-N	-6.72	115.40	123.13
1	B	660	SER	N-CA-CB	6.72	120.00	110.12
1	l	676	SER	N-CA-C	6.72	119.61	111.82
1	5	213	ILE	O-C-N	-6.72	116.19	123.18
1	b	437	VAL	CA-C-O	-6.72	113.96	120.95
1	k	623	PHE	N-CA-C	-6.72	103.96	111.28
1	n	341	GLU	CB-CG-CD	6.72	124.02	112.60
1	q	141	VAL	O-C-N	-6.72	116.08	123.20
1	t	682	GLN	OE1-CD-NE2	-6.72	115.88	122.60
1	B	405	ARG	NE-CZ-NH1	6.72	128.22	121.50
1	D	244	GLN	O-C-N	-6.72	115.10	122.09
1	E	136	GLU	O-C-N	-6.72	115.00	122.12
1	E	456	GLU	CA-C-O	-6.72	113.43	120.55
1	K	488	ARG	CA-C-N	6.72	127.44	119.98
1	K	488	ARG	C-N-CA	6.72	127.44	119.98
1	T	280	HIS	ND1-CE1-NE2	6.72	115.12	108.40
1	3	251	LYS	N-CA-C	6.71	119.45	111.33
1	t	419	MET	CA-C-N	6.71	129.60	120.54
1	t	419	MET	C-N-CA	6.71	129.60	120.54
1	v	408	GLY	N-CA-C	6.71	124.76	112.27
1	x	149	ILE	O-C-N	-6.71	115.82	122.67
1	G	323	MET	N-CA-C	6.71	119.06	108.79
1	O	382	ILE	N-CA-C	6.71	116.87	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3	517	LEU	N-CA-C	6.71	118.68	111.36
1	d	135	LEU	N-CA-C	6.71	118.60	111.28
1	g	133	SER	N-CA-CB	6.71	119.99	110.12
1	0	501	PHE	CA-CB-CG	6.71	120.51	113.80
1	i	266	CYS	CA-C-O	-6.71	113.38	120.63
1	j	381	HIS	CA-C-N	6.71	129.02	120.56
1	j	381	HIS	C-N-CA	6.71	129.02	120.56
1	q	507	GLN	CB-CA-C	-6.71	100.34	110.88
1	u	689	ARG	NE-CZ-NH1	6.71	128.21	121.50
1	w	557	LYS	O-C-N	-6.71	115.00	122.12
1	x	350	PHE	O-C-N	-6.71	115.01	122.12
1	E	94	GLU	O-C-N	-6.71	115.01	122.12
1	O	243	LEU	N-CA-C	6.71	118.59	111.28
1	a	477	HIS	CE1-NE2-CD2	-6.71	102.29	109.00
1	G	632	ALA	CA-C-N	6.71	129.82	120.29
1	G	632	ALA	C-N-CA	6.71	129.82	120.29
1	s	586	SER	N-CA-CB	6.71	120.68	110.28
1	t	704	HIS	CA-C-N	6.71	129.16	120.44
1	t	704	HIS	C-N-CA	6.71	129.16	120.44
1	y	562	ALA	N-CA-CB	-6.71	100.26	110.12
1	A	474	ASN	N-CA-C	6.71	118.59	111.28
1	C	569	GLN	CA-C-N	6.71	129.27	120.28
1	C	569	GLN	C-N-CA	6.71	129.27	120.28
1	0	120	ALA	O-C-N	-6.71	116.82	123.46
1	6	269	ASP	CA-CB-CG	6.71	119.31	112.60
1	a	488	ARG	N-CA-C	6.71	119.16	111.11
1	j	339	LEU	N-CA-C	6.71	118.59	111.28
1	l	554	GLU	N-CA-C	6.71	119.42	111.71
1	o	237	GLN	O-C-N	-6.71	114.15	121.53
1	t	304	GLU	CA-C-N	6.71	129.16	120.44
1	t	304	GLU	C-N-CA	6.71	129.16	120.44
1	N	694	GLU	N-CA-C	6.71	119.16	111.11
1	O	241	ILE	CA-C-O	6.71	126.31	119.20
1	4	527	ILE	O-C-N	-6.71	115.34	121.91
1	h	500	THR	CA-C-N	6.71	129.16	120.44
1	h	500	THR	C-N-CA	6.71	129.16	120.44
1	i	105	ASP	CA-CB-CG	6.71	119.31	112.60
1	s	591	LYS	N-CA-C	6.71	118.59	111.28
1	v	690	ARG	NH1-CZ-NH2	-6.71	110.58	119.30
1	W	267	ASN	CA-CB-CG	6.71	119.31	112.60
1	3	668	ILE	CA-C-O	6.70	127.95	120.85
1	5	555	ASP	CA-CB-CG	6.70	119.30	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5	651	TYR	O-C-N	-6.70	114.79	122.03
1	8	493	LEU	N-CA-C	6.70	118.75	110.91
1	j	345	LYS	N-CA-C	6.70	119.16	111.11
1	o	452	ASN	OD1-CG-ND2	-6.70	115.90	122.60
1	v	364	SER	CA-C-N	6.70	134.34	121.54
1	v	364	SER	C-N-CA	6.70	134.34	121.54
1	A	268	VAL	N-CA-C	6.70	117.49	108.11
1	L	563	LYS	CA-C-N	6.70	129.15	120.44
1	L	563	LYS	C-N-CA	6.70	129.15	120.44
1	N	353	HIS	CG-CD2-NE2	6.70	113.90	107.20
1	U	332	GLU	N-CA-C	6.70	118.67	111.36
1	3	478	GLU	N-CA-C	6.70	118.24	111.07
1	4	217	GLU	N-CA-C	6.70	121.29	113.18
1	4	703	ARG	NE-CZ-NH2	6.70	125.23	119.20
1	8	584	ILE	CA-CB-CG1	6.70	121.79	110.40
1	9	554	GLU	CA-C-O	6.70	127.52	120.42
1	f	97	VAL	N-CA-C	6.70	116.85	110.42
1	j	97	VAL	CA-C-N	6.70	129.43	120.58
1	j	97	VAL	C-N-CA	6.70	129.43	120.58
1	k	207	GLU	CB-CA-C	6.70	120.86	110.67
1	G	441	GLU	N-CA-C	6.70	120.20	110.42
1	H	143	LEU	CA-C-O	-6.70	113.20	120.17
1	4	239	ARG	CA-C-N	6.70	133.76	121.70
1	4	239	ARG	C-N-CA	6.70	133.76	121.70
1	d	533	ASN	CA-CB-CG	6.70	119.30	112.60
1	f	150	VAL	CB-CA-C	6.70	122.28	111.29
1	g	429	PHE	CA-C-N	6.70	129.58	120.54
1	g	429	PHE	C-N-CA	6.70	129.58	120.54
1	l	175	ASN	CA-CB-CG	-6.70	105.90	112.60
1	l	569	GLN	N-CA-C	6.70	118.58	111.28
1	o	629	HIS	CE1-NE2-CD2	-6.70	102.30	109.00
1	C	629	HIS	CE1-NE2-CD2	-6.70	102.30	109.00
1	E	655	ARG	N-CA-C	6.70	118.27	110.97
1	G	441	GLU	CB-CA-C	6.70	119.02	109.71
1	U	96	LYS	N-CA-CB	6.70	120.38	110.53
1	U	516	ALA	N-CA-C	6.70	118.58	111.28
1	2	269	ASP	CA-CB-CG	6.70	119.30	112.60
1	2	583	GLN	O-C-N	-6.70	114.51	122.15
1	e	170	ARG	CD-NE-CZ	6.70	133.78	124.40
1	e	383	GLN	OE1-CD-NE2	-6.70	115.90	122.60
1	u	555	ASP	CA-C-N	6.70	129.00	120.56
1	u	555	ASP	C-N-CA	6.70	129.00	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	286	GLY	CA-C-N	6.70	129.15	120.44
1	w	286	GLY	C-N-CA	6.70	129.15	120.44
1	z	107	LEU	CA-C-N	6.70	129.15	120.44
1	z	107	LEU	C-N-CA	6.70	129.15	120.44
1	F	624	THR	N-CA-CB	6.70	119.72	110.01
1	I	524	MET	CG-SD-CE	-6.70	86.16	100.90
1	Q	489	GLY	CA-C-O	6.70	127.95	121.05
1	W	153	CYS	CA-C-O	-6.70	113.26	119.76
1	0	704	HIS	CE1-NE2-CD2	-6.70	102.30	109.00
1	1	444	ARG	NE-CZ-NH1	6.70	128.20	121.50
1	e	530	ALA	N-CA-C	6.70	118.24	111.07
1	E	252	TYR	N-CA-C	6.70	119.93	111.69
1	H	312	ARG	NE-CZ-NH1	6.70	128.20	121.50
1	N	631	ASN	CA-C-O	6.70	127.65	120.55
1	3	347	ILE	O-C-N	6.70	128.36	121.87
1	9	314	LEU	N-CA-C	6.70	120.78	111.74
1	d	540	GLY	N-CA-C	6.70	122.17	113.27
1	j	673	ASN	CA-CB-CG	6.70	119.30	112.60
1	m	204	ILE	N-CA-C	-6.70	99.51	108.35
1	p	647	PHE	N-CA-CB	6.70	119.92	109.94
1	r	391	GLY	CA-C-N	6.70	129.25	120.28
1	r	391	GLY	C-N-CA	6.70	129.25	120.28
1	E	336	ARG	N-CA-C	6.70	120.48	111.24
1	J	228	GLY	CA-C-O	6.70	127.30	121.41
1	L	690	ARG	NE-CZ-NH2	6.70	125.23	119.20
1	3	501	PHE	CA-C-N	6.69	129.14	120.44
1	3	501	PHE	C-N-CA	6.69	129.14	120.44
1	5	269	ASP	CA-C-N	6.69	129.63	120.46
1	5	269	ASP	C-N-CA	6.69	129.63	120.46
1	d	369	ARG	CA-C-N	6.69	129.25	120.28
1	d	369	ARG	C-N-CA	6.69	129.25	120.28
1	p	421	PHE	CA-CB-CG	-6.69	107.11	113.80
1	H	464	ILE	CA-C-N	6.69	129.14	120.44
1	H	464	ILE	C-N-CA	6.69	129.14	120.44
1	I	275	ALA	N-CA-CB	-6.69	100.30	110.01
1	T	488	ARG	NE-CZ-NH1	6.69	128.19	121.50
1	U	495	PHE	N-CA-CB	6.69	121.88	110.50
1	V	373	ARG	N-CA-C	6.69	118.66	111.36
1	0	343	THR	N-CA-CB	6.69	119.71	110.01
1	0	624	THR	N-CA-C	6.69	119.41	111.71
1	1	231	ARG	N-CA-CB	6.69	121.80	110.49
1	1	680	GLN	OE1-CD-NE2	-6.69	115.91	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	373	ARG	NE-CZ-NH2	6.69	125.22	119.20
1	y	132	SER	CA-C-O	6.69	127.67	119.97
1	G	388	LEU	N-CA-CB	-6.69	100.00	110.44
1	R	450	LEU	CA-C-N	6.69	129.25	120.28
1	R	450	LEU	C-N-CA	6.69	129.25	120.28
1	S	225	ASP	CA-C-N	6.69	129.64	120.67
1	S	225	ASP	C-N-CA	6.69	129.64	120.67
1	V	397	HIS	CE1-NE2-CD2	-6.69	102.31	109.00
1	V	710	SER	CA-C-O	6.69	127.75	119.78
1	7	248	LEU	O-C-N	-6.69	115.03	122.12
1	d	540	GLY	CA-C-O	6.69	127.27	120.45
1	f	639	LYS	CA-C-O	-6.69	113.46	120.55
1	p	657	ASN	N-CA-C	-6.69	103.80	112.23
1	t	470	GLN	CA-C-O	6.69	127.67	119.97
1	D	241	ILE	N-CA-CB	-6.69	103.08	110.51
1	F	517	LEU	CA-C-O	6.69	127.51	120.42
1	R	441	GLU	N-CA-C	6.69	119.93	110.23
1	5	260	ASN	OD1-CG-ND2	-6.69	115.91	122.60
1	p	113	GLU	CA-C-N	6.69	131.28	121.31
1	p	113	GLU	C-N-CA	6.69	131.28	121.31
1	q	304	GLU	CA-C-N	6.69	130.48	120.31
1	q	304	GLU	C-N-CA	6.69	130.48	120.31
1	u	223	ILE	O-C-N	-6.69	116.16	123.18
1	w	303	THR	CA-CB-OG1	6.69	119.63	109.60
1	z	242	GLY	O-C-N	6.69	128.68	122.19
1	V	288	ARG	NE-CZ-NH1	6.69	128.19	121.50
1	7	170	ARG	NE-CZ-NH2	-6.69	113.18	119.20
1	d	461	TRP	O-C-N	-6.69	115.03	122.12
1	g	352	THR	N-CA-C	6.69	121.45	113.16
1	g	403	GLU	N-CA-C	6.69	118.57	111.28
1	o	658	GLY	O-C-N	-6.69	115.70	122.19
1	J	540	GLY	N-CA-C	-6.69	106.37	114.66
1	T	182	ASP	CA-C-N	6.69	127.05	119.83
1	T	182	ASP	C-N-CA	6.69	127.05	119.83
1	T	487	TYR	CA-C-N	6.69	129.54	120.44
1	T	487	TYR	C-N-CA	6.69	129.54	120.44
1	U	536	LYS	CA-C-N	6.69	129.24	120.28
1	U	536	LYS	C-N-CA	6.69	129.24	120.28
1	Z	291	GLY	O-C-N	-6.69	118.46	123.61
1	B	412	PRO	N-CA-CB	6.69	109.21	103.19
1	h	523	ALA	N-CA-CB	-6.68	100.30	110.12
1	k	560	HIS	CE1-NE2-CD2	-6.68	102.31	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	n	514	GLU	N-CA-C	6.68	122.65	113.16
1	n	675	TYR	N-CA-C	6.68	122.33	111.37
1	q	94	GLU	CA-C-N	6.68	129.24	120.28
1	q	94	GLU	C-N-CA	6.68	129.24	120.28
1	w	98	ARG	NE-CZ-NH1	6.68	128.19	121.50
1	x	533	ASN	O-C-N	-6.68	114.53	122.15
1	B	239	ARG	CA-C-N	6.68	133.73	121.70
1	B	239	ARG	C-N-CA	6.68	133.73	121.70
1	I	288	ARG	NE-CZ-NH2	6.68	125.22	119.20
1	M	442	VAL	O-C-N	-6.68	115.85	122.67
1	W	453	LYS	N-CA-C	6.68	118.26	110.97
1	4	567	MET	O-C-N	-6.68	115.04	122.12
1	g	659	ASP	CA-C-O	6.68	127.84	120.82
1	m	103	LEU	O-C-N	-6.68	114.93	122.08
1	x	633	TYR	CB-CG-CD1	-6.68	110.78	120.80
1	y	504	ILE	N-CA-CB	6.68	119.63	110.54
1	z	551	SER	CA-C-O	6.68	127.63	120.55
1	D	523	ALA	O-C-N	-6.68	115.19	122.07
1	E	251	LYS	N-CA-C	6.68	119.39	111.71
1	S	567	MET	N-CA-C	6.68	118.64	111.36
1	T	360	LEU	CA-C-N	6.68	130.84	120.82
1	T	360	LEU	C-N-CA	6.68	130.84	120.82
1	l	315	THR	CA-C-O	6.68	127.63	120.55
1	g	370	LEU	CA-C-O	6.68	127.63	120.55
1	w	128	SER	N-CA-C	6.68	118.22	111.07
1	x	111	GLY	O-C-N	-6.68	116.53	122.88
1	z	406	ARG	CA-C-N	6.68	132.41	122.99
1	z	406	ARG	C-N-CA	6.68	132.41	122.99
1	D	667	GLN	CA-C-N	6.68	129.61	120.46
1	D	667	GLN	C-N-CA	6.68	129.61	120.46
1	O	185	GLN	CA-C-N	6.68	129.11	120.56
1	O	185	GLN	C-N-CA	6.68	129.11	120.56
1	3	462	VAL	CA-C-N	6.68	128.76	120.34
1	3	462	VAL	C-N-CA	6.68	128.76	120.34
1	n	498	TYR	CB-CG-CD1	6.68	130.82	120.80
1	n	660	SER	N-CA-C	6.68	119.57	111.82
1	v	709	PHE	CA-CB-CG	-6.68	107.12	113.80
1	F	503	ILE	N-CA-C	6.68	119.44	111.09
1	I	451	TYR	CA-CB-CG	-6.68	101.88	113.90
1	T	476	ILE	CB-CA-C	-6.68	103.42	111.97
1	5	278	MET	CA-C-N	6.68	129.77	120.29
1	5	278	MET	C-N-CA	6.68	129.77	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	170	ARG	CA-C-O	-6.68	114.08	121.23
1	L	396	SER	CA-C-N	6.68	129.71	120.63
1	L	396	SER	C-N-CA	6.68	129.71	120.63
1	R	345	LYS	N-CA-C	6.68	118.56	111.28
1	X	682	GLN	O-C-N	-6.68	114.88	122.09
1	r	206	HIS	ND1-CE1-NE2	6.68	115.08	108.40
1	u	361	GLU	CA-C-O	6.68	127.64	120.10
1	E	528	GLN	CG-CD-NE2	6.68	126.41	116.40
1	M	341	GLU	N-CA-C	6.68	118.21	111.07
1	O	410	ASP	N-CA-C	6.68	118.21	111.07
1	V	554	GLU	CA-C-N	6.68	129.23	120.28
1	V	554	GLU	C-N-CA	6.68	129.23	120.28
1	3	358	VAL	CA-C-N	6.67	129.55	120.54
1	3	358	VAL	C-N-CA	6.67	129.55	120.54
1	4	479	GLU	N-CA-C	6.67	118.56	111.28
1	n	458	PHE	CA-CB-CG	6.67	120.47	113.80
1	p	362	GLU	CA-C-O	6.67	127.37	119.56
1	p	597	PHE	N-CA-C	6.67	118.21	111.07
1	r	433	ILE	O-C-N	-6.67	114.95	121.83
1	B	389	LEU	O-C-N	-6.67	115.20	122.07
1	D	97	VAL	CA-C-N	6.67	129.20	120.26
1	D	97	VAL	C-N-CA	6.67	129.20	120.26
1	G	553	ILE	N-CA-C	6.67	117.37	110.36
1	N	316	TYR	CB-CA-C	6.67	117.58	110.17
1	Y	174	ARG	NE-CZ-NH2	6.67	125.21	119.20
1	g	260	ASN	O-C-N	-6.67	115.61	123.22
1	l	514	GLU	O-C-N	-6.67	113.65	121.32
1	D	679	LEU	N-CA-C	6.67	121.13	113.19
1	O	487	TYR	N-CA-C	6.67	119.56	111.82
1	S	98	ARG	NE-CZ-NH2	-6.67	113.19	119.20
1	0	572	PHE	N-CA-CB	6.67	120.62	110.28
1	4	230	THR	CA-C-O	6.67	128.53	121.19
1	9	224	ILE	N-CA-CB	6.67	120.31	111.64
1	i	127	GLN	CA-C-O	6.67	127.62	120.55
1	r	301	ARG	NE-CZ-NH1	6.67	128.17	121.50
1	s	685	THR	N-CA-CB	6.67	119.93	110.12
1	t	377	GLU	N-CA-C	6.67	118.21	111.07
1	v	381	HIS	CA-CB-CG	6.67	120.47	113.80
1	z	191	HIS	CG-CD2-NE2	6.67	113.87	107.20
1	D	564	ALA	CA-C-N	6.67	129.22	120.28
1	D	564	ALA	C-N-CA	6.67	129.22	120.28
1	E	162	GLN	CA-C-N	6.67	126.45	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	162	GLN	C-N-CA	6.67	126.45	119.05
1	J	360	LEU	CA-C-N	6.67	129.22	120.28
1	J	360	LEU	C-N-CA	6.67	129.22	120.28
1	J	467	THR	N-CA-C	-6.67	104.08	111.82
1	L	311	VAL	CA-C-N	6.67	129.22	120.28
1	L	311	VAL	C-N-CA	6.67	129.22	120.28
1	O	566	ASN	CA-CB-CG	-6.67	105.93	112.60
1	1	170	ARG	NE-CZ-NH1	6.67	128.17	121.50
1	b	206	HIS	CG-CD2-NE2	6.67	113.87	107.20
1	c	584	ILE	N-CA-C	-6.67	102.50	111.44
1	h	525	GLU	N-CA-C	6.67	119.11	111.11
1	k	165	GLU	CA-C-O	6.67	130.05	120.51
1	o	469	THR	CA-C-O	6.67	127.58	119.31
1	q	348	THR	CA-C-N	6.67	129.11	120.44
1	q	348	THR	C-N-CA	6.67	129.11	120.44
1	y	98	ARG	CD-NE-CZ	6.67	133.74	124.40
1	X	365	ALA	N-CA-CB	6.67	121.76	110.49
1	6	345	LYS	N-CA-C	6.67	118.63	111.36
1	a	655	ARG	N-CA-C	6.67	118.24	110.97
1	t	327	CYS	CA-C-O	-6.67	113.69	121.16
1	B	572	PHE	CA-CB-CG	-6.67	107.13	113.80
1	L	695	ARG	N-CA-C	6.67	118.55	111.28
1	O	499	LYS	CA-C-N	6.67	129.22	120.28
1	O	499	LYS	C-N-CA	6.67	129.22	120.28
1	U	420	PHE	CA-CB-CG	-6.67	107.13	113.80
1	Z	254	GLN	N-CA-C	6.67	119.38	111.71
1	Z	280	HIS	CA-C-O	6.67	127.62	120.55
1	3	429	PHE	N-CA-C	6.67	119.11	111.11
1	6	425	LYS	CA-C-O	-6.67	113.48	120.55
1	9	376	THR	N-CA-C	6.67	119.15	111.02
1	f	301	ARG	CD-NE-CZ	6.67	133.73	124.40
1	A	151	THR	CA-CB-OG1	6.67	119.60	109.60
1	M	534	VAL	N-CA-C	6.67	117.16	110.23
1	R	339	LEU	CA-C-O	6.67	127.64	119.97
1	g	255	ARG	NE-CZ-NH1	6.67	128.16	121.50
1	F	504	ILE	N-CA-CB	6.67	120.58	110.58
1	H	357	ARG	N-CA-CB	-6.67	100.32	110.12
1	U	709	PHE	CA-CB-CG	6.67	120.47	113.80
1	4	251	LYS	N-CA-C	6.66	119.37	111.71
1	7	231	ARG	CD-NE-CZ	6.66	133.73	124.40
1	7	597	PHE	N-CA-C	6.66	118.54	111.28
1	e	433	ILE	N-CA-C	6.66	117.45	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	j	459	LYS	CA-C-N	6.66	129.21	120.28
1	j	459	LYS	C-N-CA	6.66	129.21	120.28
1	n	374	LEU	CA-C-O	6.66	127.82	120.82
1	r	409	ALA	CA-C-N	6.66	133.69	121.70
1	r	409	ALA	C-N-CA	6.66	133.69	121.70
1	u	192	LYS	CA-C-O	6.66	127.61	120.55
1	x	510	GLN	N-CA-C	6.66	118.54	111.28
1	z	696	ILE	CA-C-N	6.66	129.10	120.44
1	z	696	ILE	C-N-CA	6.66	129.10	120.44
1	I	112	VAL	CB-CA-C	6.66	119.17	110.91
1	Q	418	LYS	O-C-N	-6.66	115.06	122.12
1	Y	301	ARG	N-CA-C	6.66	118.61	110.41
1	4	247	ALA	O-C-N	-6.66	115.06	122.12
1	6	220	ASP	N-CA-C	6.66	120.50	107.57
1	a	329	GLY	CA-C-N	6.66	130.11	120.38
1	a	329	GLY	C-N-CA	6.66	130.11	120.38
1	e	646	PRO	CA-C-N	6.66	129.51	120.38
1	e	646	PRO	C-N-CA	6.66	129.51	120.38
1	v	650	GLN	O-C-N	-6.66	115.06	122.12
1	w	274	GLU	N-CA-C	6.66	120.67	112.54
1	y	230	THR	N-CA-C	6.66	119.44	109.25
1	Y	501	PHE	CA-C-N	6.66	129.75	120.29
1	Y	501	PHE	C-N-CA	6.66	129.75	120.29
1	c	677	TRP	CB-CA-C	6.66	121.85	110.79
1	u	569	GLN	N-CA-C	6.66	118.20	111.07
1	x	114	GLN	OE1-CD-NE2	-6.66	115.94	122.60
1	x	286	GLY	N-CA-C	-6.66	105.08	115.67
1	G	308	MET	O-C-N	-6.66	114.08	122.27
1	J	301	ARG	NE-CZ-NH1	6.66	128.16	121.50
1	M	501	PHE	CA-C-O	6.66	127.61	120.55
1	S	353	HIS	ND1-CE1-NE2	6.66	115.06	108.40
1	T	682	GLN	N-CA-C	6.66	118.20	111.07
1	8	446	ASN	CB-CG-ND2	6.66	126.39	116.40
1	8	703	ARG	CA-C-O	6.66	127.63	119.97
1	g	108	ARG	NE-CZ-NH1	6.66	128.16	121.50
1	g	477	HIS	CE1-NE2-CD2	-6.66	102.34	109.00
1	m	592	VAL	CB-CA-C	-6.66	103.15	112.14
1	n	394	ARG	NH1-CZ-NH2	6.66	127.95	119.30
1	C	664	ALA	N-CA-C	6.66	119.39	111.33
1	I	274	GLU	O-C-N	-6.66	114.56	122.15
1	N	703	ARG	NE-CZ-NH1	6.66	128.16	121.50
1	P	241	ILE	CA-C-O	-6.66	114.11	121.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	689	ARG	NH1-CZ-NH2	-6.66	110.65	119.30
1	I	649	ILE	N-CA-C	6.66	116.81	110.42
1	M	519	MET	N-CA-CB	6.66	119.91	110.12
1	5	108	ARG	N-CA-C	6.66	118.22	110.97
1	8	523	ALA	O-C-N	-6.66	115.06	122.12
1	f	661	LEU	N-CA-C	6.66	118.61	111.36
1	k	94	GLU	N-CA-C	6.66	118.54	111.28
1	k	529	GLN	N-CA-C	6.66	118.53	111.28
1	o	194	GLN	CA-C-N	6.66	129.09	120.44
1	o	194	GLN	C-N-CA	6.66	129.09	120.44
1	q	375	THR	N-CA-CB	6.66	120.01	110.16
1	q	379	ILE	N-CA-C	6.66	117.41	110.62
1	s	186	VAL	CA-C-N	6.66	129.20	120.28
1	s	186	VAL	C-N-CA	6.66	129.20	120.28
1	v	686	ALA	N-CA-C	6.66	118.53	111.28
1	Q	155	LEU	CA-C-N	6.66	130.84	121.66
1	Q	155	LEU	C-N-CA	6.66	130.84	121.66
1	Q	194	GLN	O-C-N	6.66	129.18	122.12
1	U	542	PHE	N-CA-CB	-6.66	100.64	110.49
1	4	369	ARG	NE-CZ-NH1	6.65	128.15	121.50
1	e	240	ASP	CA-CB-CG	6.65	119.25	112.60
1	h	707	CYS	O-C-N	-6.65	114.09	122.27
1	D	587	VAL	N-CA-C	-6.65	106.24	112.83
1	J	511	GLN	N-CA-C	6.65	118.61	111.36
1	S	313	ASN	CA-CB-CG	-6.65	105.95	112.60
1	0	191	HIS	CA-C-O	-6.65	113.50	120.55
1	4	656	GLU	N-CA-CB	6.65	120.59	110.28
1	e	592	VAL	N-CA-C	6.65	117.41	110.62
1	h	344	LYS	N-CA-C	6.65	118.19	111.07
1	k	484	GLU	CA-C-O	6.65	127.81	120.82
1	k	556	ILE	CA-C-N	6.65	129.86	120.28
1	k	556	ILE	C-N-CA	6.65	129.86	120.28
1	w	389	LEU	O-C-N	-6.65	115.22	122.07
1	z	507	GLN	CB-CA-C	-6.65	100.43	110.88
1	E	196	VAL	N-CA-C	6.65	117.41	110.62
1	X	207	GLU	CA-C-N	6.65	131.22	121.31
1	X	207	GLU	C-N-CA	6.65	131.22	121.31
1	4	426	ILE	CA-C-O	6.65	128.19	121.27
1	e	236	ASN	CB-CA-C	-6.65	99.32	110.56
1	h	704	HIS	CA-C-N	6.65	129.19	120.28
1	h	704	HIS	C-N-CA	6.65	129.19	120.28
1	r	498	TYR	CA-C-N	6.65	129.19	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	r	498	TYR	C-N-CA	6.65	129.19	120.28
1	x	251	LYS	O-C-N	-6.65	115.22	122.07
1	B	216	PRO	CA-C-N	6.65	129.09	120.44
1	B	216	PRO	C-N-CA	6.65	129.09	120.44
1	T	298	LEU	N-CA-C	-6.65	104.79	113.17
1	s	273	THR	N-CA-CB	6.65	120.40	110.29
1	C	669	LEU	O-C-N	-6.65	113.19	122.37
1	F	353	HIS	O-C-N	-6.65	113.98	121.43
1	O	98	ARG	CA-C-N	6.65	126.24	119.19
1	O	98	ARG	C-N-CA	6.65	126.24	119.19
1	V	686	ALA	N-CA-C	6.65	118.53	111.28
1	Z	596	ILE	N-CA-CB	6.65	122.20	111.23
1	2	568	ILE	CA-C-N	6.65	129.08	120.44
1	2	568	ILE	C-N-CA	6.65	129.08	120.44
1	7	571	GLN	OE1-CD-NE2	-6.65	115.95	122.60
1	7	674	ARG	NE-CZ-NH2	-6.65	113.22	119.20
1	i	674	ARG	NE-CZ-NH1	6.65	128.15	121.50
1	o	478	GLU	N-CA-CB	6.65	119.84	109.94
1	r	150	VAL	O-C-N	-6.65	114.26	122.57
1	s	174	ARG	NH1-CZ-NH2	-6.65	110.66	119.30
1	s	642	ALA	CA-C-O	6.65	127.60	120.55
1	v	309	ASN	OD1-CG-ND2	-6.65	115.95	122.60
1	y	462	VAL	N-CA-C	6.65	118.20	110.62
1	E	435	LYS	CA-CB-CG	-6.65	100.81	114.10
1	E	530	ALA	N-CA-C	6.65	118.53	111.28
1	G	566	ASN	CA-C-N	6.65	130.41	120.31
1	G	566	ASN	C-N-CA	6.65	130.41	120.31
1	L	643	ASN	CA-CB-CG	6.65	119.25	112.60
1	C	374	LEU	N-CA-C	6.65	118.52	111.28
1	F	651	TYR	N-CA-C	6.65	118.52	111.28
1	U	162	GLN	OE1-CD-NE2	-6.65	115.95	122.60
1	V	288	ARG	NE-CZ-NH2	-6.65	113.22	119.20
1	3	303	THR	O-C-N	-6.64	115.08	122.12
1	3	637	THR	O-C-N	-6.64	114.10	122.27
1	3	704	HIS	CE1-NE2-CD2	-6.64	102.36	109.00
1	6	273	THR	N-CA-C	6.64	120.00	110.10
1	7	245	ILE	CA-C-N	6.64	129.18	120.28
1	7	245	ILE	C-N-CA	6.64	129.18	120.28
1	o	257	GLN	N-CA-C	6.64	121.54	113.17
1	t	388	LEU	O-C-N	-6.64	115.08	122.12
1	F	640	ARG	NE-CZ-NH1	6.64	128.14	121.50
1	L	333	ILE	CA-C-O	-6.64	113.56	120.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	700	THR	O-C-N	-6.64	115.12	122.03
1	Y	95	GLN	OE1-CD-NE2	-6.64	115.96	122.60
1	t	309	ASN	OD1-CG-ND2	-6.64	115.96	122.60
1	v	276	LEU	CA-C-O	6.64	127.46	120.42
1	F	312	ARG	N-CA-C	-6.64	103.52	111.69
1	R	550	GLN	OE1-CD-NE2	-6.64	115.96	122.60
1	0	244	GLN	O-C-N	-6.64	115.18	122.09
1	e	537	LYS	N-CA-C	6.64	118.18	111.07
1	e	561	THR	N-CA-C	6.64	118.52	111.28
1	o	432	ASP	N-CA-C	6.64	118.60	111.36
1	w	487	TYR	N-CA-C	6.64	119.37	111.33
1	I	598	ASN	CA-CB-CG	6.64	119.24	112.60
1	7	707	CYS	N-CA-C	6.64	118.17	111.07
1	8	401	THR	N-CA-CB	6.64	120.02	110.06
1	a	532	ILE	CA-C-N	6.64	129.18	120.28
1	a	532	ILE	C-N-CA	6.64	129.18	120.28
1	m	226	LEU	O-C-N	-6.64	113.99	121.43
1	n	690	ARG	NE-CZ-NH1	6.64	128.14	121.50
1	v	390	GLU	CA-C-N	6.64	127.18	119.94
1	v	390	GLU	C-N-CA	6.64	127.18	119.94
1	A	566	ASN	N-CA-C	6.64	118.17	111.07
1	R	505	VAL	N-CA-C	6.64	117.39	110.62
1	U	452	ASN	CA-CB-CG	6.64	119.24	112.60
1	X	457	ASP	CA-CB-CG	6.64	119.24	112.60
1	i	560	HIS	CB-CG-CD2	6.64	139.83	131.20
1	j	503	ILE	O-C-N	-6.64	115.30	121.94
1	m	268	VAL	O-C-N	-6.64	116.00	123.10
1	y	351	GLN	N-CA-C	6.64	118.52	111.28
1	F	488	ARG	NE-CZ-NH2	-6.64	113.23	119.20
1	V	622	SER	CA-C-N	6.64	129.18	120.28
1	V	622	SER	C-N-CA	6.64	129.18	120.28
1	2	526	ILE	N-CA-CB	6.64	119.57	110.54
1	6	209	ILE	O-C-N	-6.64	115.33	123.10
1	a	543	PHE	N-CA-C	6.64	119.07	111.11
1	e	199	GLY	CA-C-O	6.64	127.39	119.82
1	g	585	TYR	CA-C-N	6.64	129.17	120.28
1	g	585	TYR	C-N-CA	6.64	129.17	120.28
1	l	522	LYS	N-CA-C	6.64	118.51	111.28
1	m	494	GLY	CA-C-N	6.64	133.65	121.70
1	m	494	GLY	C-N-CA	6.64	133.65	121.70
1	q	333	ILE	O-C-N	-6.64	115.17	121.87
1	y	590	LYS	N-CA-C	6.64	118.51	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	328	ARG	CD-NE-CZ	6.64	133.69	124.40
1	E	239	ARG	CA-C-N	6.64	133.65	121.70
1	E	239	ARG	C-N-CA	6.64	133.65	121.70
1	J	655	ARG	N-CA-C	6.64	119.12	111.02
1	V	526	ILE	CA-C-N	6.64	128.92	120.56
1	V	526	ILE	C-N-CA	6.64	128.92	120.56
1	6	186	VAL	CA-C-N	6.63	129.17	120.28
1	6	186	VAL	C-N-CA	6.63	129.17	120.28
1	6	664	ALA	CA-C-N	6.63	129.83	120.28
1	6	664	ALA	C-N-CA	6.63	129.83	120.28
1	b	145	ARG	CA-C-O	6.63	127.08	119.18
1	o	172	SER	N-CA-CB	6.63	120.74	110.46
1	t	348	THR	CA-CB-OG1	6.63	119.55	109.60
1	y	655	ARG	NH1-CZ-NH2	-6.63	110.68	119.30
1	G	625	GLU	N-CA-CB	6.63	119.87	110.12
1	H	574	MET	CA-C-N	6.63	129.83	120.28
1	H	574	MET	C-N-CA	6.63	129.83	120.28
1	K	491	GLU	CA-C-O	6.63	128.69	119.80
1	T	570	LEU	N-CA-C	6.63	119.36	111.33
1	i	297	ASP	N-CA-C	6.63	119.36	111.33
1	l	467	THR	O-C-N	-6.63	115.24	122.07
1	G	241	ILE	CA-C-N	6.63	127.46	120.03
1	G	241	ILE	C-N-CA	6.63	127.46	120.03
1	L	522	LYS	N-CA-C	6.63	118.51	111.28
1	S	672	LYS	N-CA-C	6.63	118.51	111.28
1	1	452	ASN	OD1-CG-ND2	-6.63	115.97	122.60
1	4	393	ILE	O-C-N	-6.63	115.41	121.91
1	9	333	ILE	CA-C-N	6.63	130.77	120.82
1	9	333	ILE	C-N-CA	6.63	130.77	120.82
1	K	191	HIS	CE1-NE2-CD2	-6.63	102.37	109.00
1	M	195	ASN	CA-C-N	6.63	128.91	120.56
1	M	195	ASN	C-N-CA	6.63	128.91	120.56
1	N	468	ASN	N-CA-C	-6.63	105.01	113.23
1	Q	370	LEU	CA-C-N	6.63	129.06	120.44
1	Q	370	LEU	C-N-CA	6.63	129.06	120.44
1	Z	236	ASN	N-CA-C	6.63	120.30	109.76
1	m	652	PHE	N-CA-C	6.63	118.16	111.07
1	n	645	ILE	CA-C-O	-6.63	111.07	119.95
1	r	436	LEU	CA-C-O	6.63	127.58	120.55
1	D	569	GLN	O-C-N	-6.63	115.24	122.07
1	3	434	GLU	CA-C-N	6.63	129.16	120.28
1	3	434	GLU	C-N-CA	6.63	129.16	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3	628	ILE	CA-CB-CG1	6.63	121.67	110.40
1	e	468	ASN	CA-C-N	6.63	129.49	120.54
1	e	468	ASN	C-N-CA	6.63	129.49	120.54
1	v	597	PHE	CA-CB-CG	-6.63	107.17	113.80
1	w	514	GLU	O-C-N	-6.63	114.48	120.71
1	x	335	ASN	O-C-N	-6.63	115.66	123.22
1	z	151	THR	N-CA-C	6.63	119.37	110.35
1	F	274	GLU	CA-C-N	6.63	129.49	120.54
1	F	274	GLU	C-N-CA	6.63	129.49	120.54
1	O	634	PHE	N-CA-C	6.63	118.51	111.28
1	P	378	LEU	CA-C-N	6.63	129.54	120.46
1	P	378	LEU	C-N-CA	6.63	129.54	120.46
1	Q	552	THR	N-CA-C	6.63	118.50	111.28
1	V	265	PRO	CB-CA-C	6.63	122.50	111.56
1	W	215	SER	N-CA-CB	-6.63	102.93	111.35
1	Y	703	ARG	CG-CD-NE	-6.63	97.42	112.00
1	p	116	LEU	CA-C-N	6.63	129.16	120.28
1	p	116	LEU	C-N-CA	6.63	129.16	120.28
1	s	102	ASP	CA-C-O	6.63	127.58	120.55
1	w	94	GLU	CA-C-O	6.63	128.36	121.07
1	A	693	LYS	CA-C-N	6.63	129.16	120.28
1	A	693	LYS	C-N-CA	6.63	129.16	120.28
1	F	101	ILE	CA-C-N	6.63	130.38	120.31
1	F	101	ILE	C-N-CA	6.63	130.38	120.31
1	F	359	LEU	N-CA-C	6.63	118.50	111.28
1	M	367	VAL	CA-C-N	6.63	127.02	119.93
1	M	367	VAL	C-N-CA	6.63	127.02	119.93
1	M	461	TRP	CD2-CE2-CZ2	-6.63	115.77	122.40
1	Q	406	ARG	NE-CZ-NH2	-6.63	113.24	119.20
1	V	280	HIS	ND1-CE1-NE2	6.63	115.03	108.40
1	Z	574	MET	CA-C-O	6.63	127.44	120.42
1	4	315	THR	N-CA-C	-6.62	104.14	111.36
1	4	651	TYR	N-CA-C	6.62	118.38	111.03
1	o	127	GLN	CA-C-O	6.62	127.78	120.63
1	C	494	GLY	CA-C-N	6.62	133.62	121.70
1	C	494	GLY	C-N-CA	6.62	133.62	121.70
1	E	590	LYS	N-CA-C	6.62	118.50	111.28
1	F	247	ALA	O-C-N	-6.62	115.10	122.12
1	L	676	SER	CA-C-N	6.62	129.82	120.28
1	L	676	SER	C-N-CA	6.62	129.82	120.28
1	M	392	GLN	OE1-CD-NE2	-6.62	115.98	122.60
1	N	102	ASP	O-C-N	-6.62	115.25	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	409	ALA	O-C-N	-6.62	113.78	122.59
1	g	449	ARG	NH1-CZ-NH2	-6.62	110.69	119.30
1	u	480	VAL	N-CA-C	6.62	117.37	110.62
1	w	673	ASN	CA-CB-CG	-6.62	105.98	112.60
1	4	567	MET	N-CA-C	6.62	118.50	111.28
1	e	134	VAL	N-CA-C	6.62	117.37	110.62
1	x	354	PRO	CA-C-N	6.62	129.15	120.28
1	x	354	PRO	C-N-CA	6.62	129.15	120.28
1	R	697	TYR	CA-C-N	6.62	129.48	120.54
1	R	697	TYR	C-N-CA	6.62	129.48	120.54
1	a	646	PRO	CA-C-N	6.62	129.04	120.44
1	a	646	PRO	C-N-CA	6.62	129.04	120.44
1	e	454	ILE	CA-C-N	6.62	129.69	120.29
1	e	454	ILE	C-N-CA	6.62	129.69	120.29
1	h	113	GLU	N-CA-C	-6.62	104.83	113.17
1	E	626	ILE	N-CA-C	6.62	116.75	110.53
1	G	354	PRO	CA-C-N	6.62	129.15	120.28
1	G	354	PRO	C-N-CA	6.62	129.15	120.28
1	I	625	GLU	CA-C-O	-6.62	113.53	120.55
1	L	195	ASN	N-CA-C	6.62	118.49	111.28
1	Q	315	THR	CA-C-N	6.62	130.11	120.51
1	Q	315	THR	C-N-CA	6.62	130.11	120.51
1	T	435	LYS	O-C-N	-6.62	114.48	122.22
1	V	533	ASN	CA-CB-CG	-6.62	105.98	112.60
1	W	570	LEU	O-C-N	-6.62	114.61	122.15
1	6	628	ILE	O-C-N	-6.62	115.02	121.83
1	h	517	LEU	N-CA-C	6.62	118.49	111.28
1	u	593	ARG	NE-CZ-NH2	-6.62	113.25	119.20
1	v	353	HIS	CA-C-O	-6.62	114.64	120.60
1	A	231	ARG	NE-CZ-NH2	6.62	125.16	119.20
1	M	544	ASN	CA-C-N	6.62	129.04	120.44
1	M	544	ASN	C-N-CA	6.62	129.04	120.44
1	O	644	GLN	N-CA-C	6.62	118.15	111.07
1	T	104	ILE	O-C-N	-6.62	115.01	121.83
1	4	483	TYR	O-C-N	6.62	129.69	122.15
1	8	239	ARG	O-C-N	-6.62	115.33	123.33
1	8	504	ILE	O-C-N	-6.62	115.45	121.87
1	b	522	LYS	CA-C-N	6.62	129.14	120.28
1	b	522	LYS	C-N-CA	6.62	129.14	120.28
1	c	282	VAL	CB-CA-C	-6.62	103.45	111.85
1	h	433	ILE	CA-C-O	6.62	127.83	120.95
1	k	292	ILE	CA-C-N	6.62	130.88	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	k	292	ILE	C-N-CA	6.62	130.88	121.42
1	y	364	SER	N-CA-CB	6.62	121.67	110.49
1	C	336	ARG	N-CA-C	6.62	120.21	111.28
1	H	474	ASN	O-C-N	-6.62	114.13	122.27
1	J	382	ILE	N-CA-C	-6.62	103.87	110.62
1	K	411	ILE	O-C-N	-6.62	113.56	121.10
1	4	376	THR	N-CA-CB	6.61	119.66	110.07
1	5	461	TRP	N-CA-C	6.61	118.49	111.28
1	7	239	ARG	O-C-N	-6.61	112.42	123.00
1	7	574	MET	N-CA-C	6.61	119.31	111.71
1	m	444	ARG	CG-CD-NE	-6.61	97.45	112.00
1	A	501	PHE	N-CA-CB	-6.61	100.40	110.12
1	B	567	MET	CA-C-N	6.61	129.43	120.77
1	B	567	MET	C-N-CA	6.61	129.43	120.77
1	L	325	VAL	CA-C-O	6.61	127.61	120.53
1	U	376	THR	N-CA-CB	6.61	119.60	110.01
1	U	561	THR	CA-C-N	6.61	129.04	120.44
1	U	561	THR	C-N-CA	6.61	129.04	120.44
1	U	644	GLN	O-C-N	-6.61	115.26	122.07
1	V	394	ARG	O-C-N	-6.61	114.95	122.09
1	W	506	HIS	CA-C-N	6.61	129.68	120.29
1	W	506	HIS	C-N-CA	6.61	129.68	120.29
1	a	223	ILE	N-CA-C	-6.61	98.96	108.48
1	i	477	HIS	CE1-NE2-CD2	-6.61	102.39	109.00
1	r	369	ARG	CA-C-N	6.61	129.03	120.44
1	r	369	ARG	C-N-CA	6.61	129.03	120.44
1	u	539	PHE	O-C-N	-6.61	113.62	122.22
1	G	190	ILE	CA-C-O	-6.61	114.07	120.95
1	0	350	PHE	CA-C-O	6.61	127.05	119.18
1	1	302	GLY	CA-C-O	6.61	127.67	120.66
1	v	647	PHE	CA-CB-CG	6.61	120.41	113.80
1	A	150	VAL	CA-C-N	6.61	130.50	121.05
1	A	150	VAL	C-N-CA	6.61	130.50	121.05
1	A	484	GLU	O-C-N	-6.61	115.11	122.12
1	F	355	TYR	CA-C-O	-6.61	113.54	120.55
1	I	230	THR	CA-C-O	6.61	129.29	121.36
1	I	684	GLU	CA-C-N	6.61	129.03	120.44
1	I	684	GLU	C-N-CA	6.61	129.03	120.44
1	P	361	GLU	N-CA-C	6.61	119.33	111.33
1	c	444	ARG	NE-CZ-NH1	6.61	128.11	121.50
1	i	554	GLU	N-CA-C	6.61	122.21	111.37
1	s	350	PHE	N-CA-C	6.61	118.48	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8	635	LEU	CA-C-O	-6.61	113.88	120.82
1	b	336	ARG	NE-CZ-NH1	6.61	128.11	121.50
1	j	556	ILE	N-CA-C	6.61	118.15	110.62
1	k	231	ARG	NE-CZ-NH2	-6.61	113.25	119.20
1	q	588	VAL	CB-CA-C	6.61	120.43	111.97
1	s	682	GLN	OE1-CD-NE2	-6.61	115.99	122.60
1	u	452	ASN	CA-CB-CG	6.61	119.21	112.60
1	u	633	TYR	O-C-N	-6.61	115.26	122.07
1	v	123	VAL	N-CA-C	6.61	117.64	107.99
1	v	263	VAL	N-CA-CB	6.61	119.44	111.31
1	B	227	PRO	CA-C-N	6.61	126.26	119.92
1	B	227	PRO	C-N-CA	6.61	126.26	119.92
1	D	145	ARG	NH1-CZ-NH2	-6.61	110.71	119.30
1	G	690	ARG	NE-CZ-NH1	6.61	128.11	121.50
1	K	103	LEU	O-C-N	-6.61	115.26	122.07
1	M	338	SER	CA-C-O	6.61	128.58	121.44
1	P	478	GLU	N-CA-C	6.61	118.14	111.07
1	c	371	ALA	CA-C-N	6.61	129.03	120.44
1	c	371	ALA	C-N-CA	6.61	129.03	120.44
1	d	689	ARG	N-CA-C	6.61	119.04	111.11
1	g	646	PRO	N-CA-C	6.61	123.59	113.75
1	l	449	ARG	NE-CZ-NH1	6.61	128.10	121.50
1	l	506	HIS	ND1-CE1-NE2	6.61	115.01	108.40
1	l	698	ARG	NE-CZ-NH1	6.61	128.11	121.50
1	p	193	ALA	N-CA-C	6.61	118.48	111.28
1	q	469	THR	N-CA-C	-6.61	105.26	113.38
1	S	552	THR	CA-C-O	-6.61	113.55	120.55
1	U	495	PHE	CA-CB-CG	-6.61	107.19	113.80
1	W	386	LEU	O-C-N	-6.61	113.72	121.32
1	Z	420	PHE	CA-CB-CG	-6.61	107.19	113.80
1	a	443	VAL	N-CA-C	6.60	119.62	108.86
1	g	369	ARG	NH1-CZ-NH2	-6.60	110.72	119.30
1	i	441	GLU	N-CA-C	6.60	119.81	110.50
1	k	233	ALA	O-C-N	-6.60	114.83	122.89
1	l	255	ARG	NE-CZ-NH1	6.60	128.10	121.50
1	n	551	SER	O-C-N	-6.60	114.62	122.15
1	M	631	ASN	CA-CB-CG	6.60	119.20	112.60
1	V	134	VAL	N-CA-C	6.60	117.29	110.36
1	X	568	ILE	N-CA-C	6.60	116.76	110.42
1	Y	583	GLN	O-C-N	-6.60	113.77	122.42
1	5	490	LYS	CB-CA-C	-6.60	99.83	110.79
1	a	203	GLY	N-CA-C	6.60	120.11	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	624	THR	CA-C-O	6.60	127.55	120.55
1	d	214	THR	CA-CB-OG1	6.60	119.50	109.60
1	h	324	ILE	N-CA-CB	6.60	118.15	110.82
1	i	208	LEU	N-CA-C	6.60	119.81	110.50
1	n	239	ARG	CA-C-N	6.60	133.59	121.70
1	n	239	ARG	C-N-CA	6.60	133.59	121.70
1	t	524	MET	O-C-N	-6.60	115.12	122.12
1	F	114	GLN	OE1-CD-NE2	-6.60	116.00	122.60
1	V	551	SER	O-C-N	-6.60	115.12	122.12
1	W	468	ASN	CA-C-N	6.60	129.13	120.28
1	W	468	ASN	C-N-CA	6.60	129.13	120.28
1	3	418	LYS	N-CA-C	6.60	119.07	111.02
1	n	461	TRP	CA-C-N	6.60	129.50	120.46
1	n	461	TRP	C-N-CA	6.60	129.50	120.46
1	D	242	GLY	O-C-N	-6.60	115.85	122.19
1	G	584	ILE	CA-CB-CG1	6.60	121.62	110.40
1	K	401	THR	N-CA-C	6.60	118.47	111.28
1	K	556	ILE	O-C-N	-6.60	115.44	121.91
1	L	640	ARG	O-C-N	-6.60	115.12	122.12
1	3	704	HIS	CG-CD2-NE2	6.60	113.80	107.20
1	6	186	VAL	N-CA-C	6.60	117.35	110.62
1	9	108	ARG	NE-CZ-NH1	6.60	128.10	121.50
1	9	292	ILE	CB-CA-C	6.60	119.33	110.42
1	l	244	GLN	OE1-CD-NE2	-6.60	116.00	122.60
1	m	647	PHE	CA-C-O	-6.60	113.90	120.70
1	F	406	ARG	NE-CZ-NH1	6.60	128.10	121.50
1	V	551	SER	N-CA-C	6.60	118.47	111.28
1	9	706	LEU	CA-C-N	6.60	129.66	120.29
1	9	706	LEU	C-N-CA	6.60	129.66	120.29
1	k	462	VAL	N-CA-C	6.60	117.29	110.36
1	o	523	ALA	N-CA-C	6.60	119.03	111.11
1	B	209	ILE	O-C-N	-6.60	114.26	122.97
1	M	572	PHE	N-CA-C	6.60	118.47	111.28
1	T	382	ILE	CB-CA-C	-6.60	103.23	112.14
1	V	692	LEU	CA-C-N	6.60	129.12	120.28
1	V	692	LEU	C-N-CA	6.60	129.12	120.28
1	3	704	HIS	ND1-CE1-NE2	6.60	115.00	108.40
1	9	198	ALA	N-CA-CB	-6.60	100.73	110.49
1	k	415	GLU	CA-C-N	6.60	129.12	120.28
1	k	415	GLU	C-N-CA	6.60	129.12	120.28
1	u	634	PHE	CA-C-O	-6.60	113.43	120.42
1	w	454	ILE	N-CA-CB	6.60	119.51	110.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	200	ASN	CA-C-N	6.60	132.68	120.87
1	Q	200	ASN	C-N-CA	6.60	132.68	120.87
1	b	194	GLN	O-C-N	-6.59	114.63	122.15
1	d	398	GLN	CB-CG-CD	6.59	123.81	112.60
1	h	696	ILE	CA-C-N	6.59	129.12	120.28
1	h	696	ILE	C-N-CA	6.59	129.12	120.28
1	m	239	ARG	CA-C-N	6.59	133.57	121.70
1	m	239	ARG	C-N-CA	6.59	133.57	121.70
1	m	462	VAL	N-CA-C	6.59	118.14	110.62
1	q	95	GLN	N-CA-C	6.59	118.47	111.28
1	y	444	ARG	NE-CZ-NH1	6.59	128.09	121.50
1	C	513	VAL	CA-C-O	6.59	128.16	121.17
1	F	420	PHE	N-CA-CB	6.59	119.57	110.01
1	M	374	LEU	CA-C-N	6.59	129.41	120.38
1	M	374	LEU	C-N-CA	6.59	129.41	120.38
1	N	570	LEU	CA-C-N	6.59	129.12	120.28
1	N	570	LEU	C-N-CA	6.59	129.12	120.28
1	X	631	ASN	O-C-N	-6.59	115.28	122.07
1	Y	519	MET	CA-C-N	6.59	129.12	120.28
1	Y	519	MET	C-N-CA	6.59	129.12	120.28
1	Z	358	VAL	N-CA-C	6.59	116.75	110.42
1	r	440	GLU	N-CA-C	6.59	120.63	112.59
1	y	384	LYS	N-CA-CB	-6.59	100.40	110.16
1	y	573	ARG	N-CA-C	6.59	118.47	111.28
1	R	194	GLN	N-CA-C	6.59	118.12	111.07
1	6	288	ARG	NE-CZ-NH1	6.59	128.09	121.50
1	k	338	SER	O-C-N	-6.59	115.34	122.85
1	m	251	LYS	N-CA-C	6.59	118.47	111.28
1	w	256	GLN	CA-C-N	6.59	129.77	120.28
1	w	256	GLN	C-N-CA	6.59	129.77	120.28
1	B	268	VAL	CA-C-N	6.59	130.23	120.87
1	B	268	VAL	C-N-CA	6.59	130.23	120.87
1	E	119	PRO	N-CA-C	6.59	126.05	112.47
1	N	313	ASN	CA-CB-CG	-6.59	106.01	112.60
1	V	175	ASN	CA-CB-CG	-6.59	106.01	112.60
1	Y	101	ILE	O-C-N	-6.59	115.48	121.87
1	4	332	GLU	O-C-N	-6.59	115.28	122.07
1	5	383	GLN	O-C-N	-6.59	115.28	122.07
1	7	191	HIS	CE1-NE2-CD2	-6.59	102.41	109.00
1	c	577	MET	N-CA-CB	6.59	120.69	110.21
1	o	135	LEU	CA-C-N	6.59	129.01	120.44
1	o	135	LEU	C-N-CA	6.59	129.01	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	s	567	MET	N-CA-C	6.59	118.12	111.07
1	y	460	ASN	N-CA-CB	6.59	120.50	110.28
1	B	197	MET	N-CA-C	6.59	118.12	111.07
1	B	521	GLN	N-CA-C	6.59	118.12	111.07
1	F	178	LEU	N-CA-C	6.59	119.46	108.13
1	X	440	GLU	N-CA-C	6.59	120.40	109.46
1	g	469	THR	N-CA-C	6.59	118.12	111.07
1	k	400	ALA	CA-C-N	6.59	129.00	120.44
1	k	400	ALA	C-N-CA	6.59	129.00	120.44
1	r	703	ARG	NE-CZ-NH1	6.59	128.09	121.50
1	R	560	HIS	CA-CB-CG	-6.59	107.21	113.80
1	4	196	VAL	N-CA-C	6.59	117.34	110.62
1	m	229	ILE	CA-C-O	6.59	128.77	121.13
1	K	457	ASP	CA-C-N	6.59	129.11	120.28
1	K	457	ASP	C-N-CA	6.59	129.11	120.28
1	l	126	ASP	CA-CB-CG	-6.58	106.02	112.60
1	h	501	PHE	CA-C-N	6.58	129.10	120.28
1	h	501	PHE	C-N-CA	6.58	129.10	120.28
1	k	542	PHE	CA-C-N	6.58	129.94	120.79
1	k	542	PHE	C-N-CA	6.58	129.94	120.79
1	o	530	ALA	CA-C-N	6.58	129.00	120.44
1	o	530	ALA	C-N-CA	6.58	129.00	120.44
1	t	263	VAL	CA-C-O	6.58	127.58	120.53
1	E	162	GLN	CA-C-O	-6.58	114.98	120.71
1	Q	315	THR	CA-C-O	6.58	127.54	119.97
1	2	263	VAL	CB-CA-C	-6.58	102.04	111.19
1	7	398	GLN	N-CA-C	6.58	118.11	111.07
1	g	548	THR	CA-C-N	6.58	128.85	120.56
1	g	548	THR	C-N-CA	6.58	128.85	120.56
1	h	453	LYS	CA-C-O	-6.58	113.57	120.55
1	t	292	ILE	O-C-N	-6.58	113.44	122.59
1	y	113	GLU	N-CA-CB	6.58	119.56	110.01
1	y	528	GLN	CG-CD-NE2	6.58	126.28	116.40
1	E	175	ASN	O-C-N	-6.58	114.68	122.58
1	J	560	HIS	CA-CB-CG	-6.58	107.22	113.80
1	N	275	ALA	O-C-N	-6.58	115.14	122.12
1	V	661	LEU	N-CA-CB	-6.58	100.44	110.12
1	Y	196	VAL	O-C-N	-6.58	114.85	121.96
1	9	309	ASN	CA-CB-CG	6.58	119.18	112.60
1	9	353	HIS	CB-CG-CD2	-6.58	122.64	131.20
1	m	312	ARG	CA-C-N	6.58	130.31	120.31
1	m	312	ARG	C-N-CA	6.58	130.31	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	p	97	VAL	CB-CA-C	-6.58	103.26	112.14
1	t	153	CYS	O-C-N	-6.58	116.84	121.65
1	t	440	GLU	CA-C-O	6.58	126.51	119.34
1	w	104	ILE	CA-C-N	6.58	129.10	120.28
1	w	104	ILE	C-N-CA	6.58	129.10	120.28
1	B	315	THR	CA-C-O	6.58	127.74	120.63
1	D	375	THR	CA-C-O	-6.58	113.58	120.55
1	R	593	ARG	CA-C-N	6.58	129.39	120.44
1	R	593	ARG	C-N-CA	6.58	129.39	120.44
1	Z	189	GLU	N-CA-C	6.58	119.45	111.82
1	0	400	ALA	N-CA-C	6.58	118.53	111.36
1	c	368	PRO	N-CA-CB	6.58	110.16	103.25
1	e	533	ASN	CA-C-O	-6.58	113.58	120.55
1	I	313	ASN	OD1-CG-ND2	-6.58	116.02	122.60
1	K	149	ILE	CA-C-O	6.58	128.76	121.13
1	K	648	ILE	CA-C-N	6.58	128.85	120.56
1	K	648	ILE	C-N-CA	6.58	128.85	120.56
1	M	309	ASN	CA-CB-CG	6.58	119.18	112.60
1	O	577	MET	CG-SD-CE	-6.58	86.43	100.90
1	V	653	MET	N-CA-C	6.58	118.45	111.28
1	Y	573	ARG	NE-CZ-NH1	6.58	128.08	121.50
1	j	537	LYS	N-CA-C	6.58	118.45	111.28
1	w	546	ASN	CA-C-N	6.58	129.09	120.28
1	w	546	ASN	C-N-CA	6.58	129.09	120.28
1	Q	482	LYS	CA-C-N	6.58	128.99	120.44
1	Q	482	LYS	C-N-CA	6.58	128.99	120.44
1	Z	287	ASP	CA-CB-CG	-6.58	106.02	112.60
1	e	255	ARG	NE-CZ-NH2	-6.58	113.28	119.20
1	i	518	SER	N-CA-CB	6.58	119.79	110.12
1	i	548	THR	N-CA-C	6.58	119.04	111.02
1	q	547	GLN	N-CA-CB	-6.58	100.45	110.12
1	s	683	SER	CA-C-O	-6.58	112.41	119.97
1	v	300	ASP	CA-CB-CG	6.58	119.18	112.60
1	O	324	ILE	O-C-N	-6.58	116.16	123.26
1	O	643	ASN	CA-C-N	6.58	128.99	120.44
1	O	643	ASN	C-N-CA	6.58	128.99	120.44
1	R	476	ILE	CA-CB-CG2	6.58	121.68	110.50
1	R	536	LYS	CA-C-N	6.58	128.99	120.44
1	R	536	LYS	C-N-CA	6.58	128.99	120.44
1	T	368	PRO	N-CA-CB	-6.58	96.35	103.25
1	8	654	LEU	O-C-N	-6.57	113.85	122.59
1	l	229	ILE	CA-C-N	6.57	129.09	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	l	229	ILE	C-N-CA	6.57	129.09	120.28
1	w	315	THR	N-CA-CB	6.57	120.78	110.46
1	E	701	GLN	CA-C-N	6.57	129.09	120.28
1	E	701	GLN	C-N-CA	6.57	129.09	120.28
1	I	571	GLN	O-C-N	-6.57	115.15	122.12
1	L	410	ASP	O-C-N	-6.57	112.48	123.00
1	R	446	ASN	OD1-CG-ND2	-6.57	116.03	122.60
1	S	414	GLN	OE1-CD-NE2	-6.57	116.03	122.60
1	V	335	ASN	O-C-N	-6.57	115.25	123.01
1	W	626	ILE	N-CA-C	6.57	117.33	110.62
1	Y	697	TYR	CA-CB-CG	-6.57	102.07	113.90
1	0	335	ASN	CA-CB-CG	-6.57	106.03	112.60
1	4	255	ARG	NE-CZ-NH1	6.57	128.07	121.50
1	7	151	THR	CA-C-N	6.57	129.09	120.28
1	7	151	THR	C-N-CA	6.57	129.09	120.28
1	q	195	ASN	N-CA-C	6.57	118.52	111.36
1	L	173	TYR	N-CA-C	-6.57	105.12	113.01
1	2	629	HIS	ND1-CE1-NE2	6.57	114.97	108.40
1	8	405	ARG	CA-C-N	6.57	129.41	120.54
1	8	405	ARG	C-N-CA	6.57	129.41	120.54
1	f	116	LEU	CA-C-N	6.57	129.41	120.54
1	f	116	LEU	C-N-CA	6.57	129.41	120.54
1	w	303	THR	CA-C-N	6.57	129.08	120.28
1	w	303	THR	C-N-CA	6.57	129.08	120.28
1	H	126	ASP	O-C-N	-6.57	114.15	122.43
1	H	547	GLN	CA-C-N	6.57	129.09	120.28
1	H	547	GLN	C-N-CA	6.57	129.09	120.28
1	N	416	ALA	CA-C-N	6.57	134.09	121.54
1	N	416	ALA	C-N-CA	6.57	134.09	121.54
1	X	213	ILE	CB-CA-C	6.57	120.62	110.83
1	X	380	MET	N-CA-C	6.57	119.00	111.11
1	Z	682	GLN	O-C-N	-6.57	115.15	122.12
1	5	156	VAL	CA-C-O	6.57	128.49	120.74
1	8	264	VAL	O-C-N	-6.57	114.88	120.92
1	r	104	ILE	O-C-N	6.57	128.24	121.87
1	C	338	SER	O-C-N	-6.57	115.06	122.75
1	S	638	SER	CA-C-N	6.57	129.08	120.28
1	S	638	SER	C-N-CA	6.57	129.08	120.28
1	T	704	HIS	ND1-CE1-NE2	6.57	114.97	108.40
1	0	162	GLN	N-CA-CB	6.57	118.00	111.10
1	5	243	LEU	N-CA-CB	6.57	119.53	110.01
1	7	129	SER	N-CA-C	6.57	118.44	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	516	ALA	N-CA-C	6.57	118.99	111.11
1	d	495	PHE	CA-C-N	6.57	129.37	120.63
1	d	495	PHE	C-N-CA	6.57	129.37	120.63
1	i	350	PHE	CA-C-N	6.57	129.08	120.28
1	i	350	PHE	C-N-CA	6.57	129.08	120.28
1	j	440	GLU	CB-CG-CD	6.57	123.77	112.60
1	p	510	GLN	OE1-CD-NE2	-6.57	116.03	122.60
1	q	362	GLU	CA-C-O	-6.57	113.92	120.82
1	r	110	LEU	CA-C-N	6.57	129.52	122.69
1	r	110	LEU	C-N-CA	6.57	129.52	122.69
1	x	398	GLN	OE1-CD-NE2	-6.57	116.03	122.60
1	C	304	GLU	CA-C-O	6.57	127.38	120.42
1	J	534	VAL	N-CA-C	6.57	117.32	110.62
1	T	682	GLN	O-C-N	-6.57	115.31	122.07
1	8	704	HIS	CG-CD2-NE2	6.57	113.77	107.20
1	p	191	HIS	O-C-N	-6.57	115.31	122.07
1	q	153	CYS	O-C-N	-6.57	117.51	121.71
1	q	691	ILE	O-C-N	-6.57	115.50	121.87
1	w	372	GLU	CA-C-N	6.57	128.97	120.44
1	w	372	GLU	C-N-CA	6.57	128.97	120.44
1	x	202	ARG	NE-CZ-NH1	6.57	128.06	121.50
1	H	305	LYS	O-C-N	-6.57	115.16	122.12
1	P	476	ILE	CA-C-O	6.57	127.88	121.05
1	T	661	LEU	CA-C-O	6.57	127.38	120.42
1	Y	561	THR	CA-C-N	6.57	129.08	120.28
1	Y	561	THR	C-N-CA	6.57	129.08	120.28
1	f	157	LEU	CA-C-O	6.56	127.45	120.36
1	p	545	LEU	N-CA-C	6.56	118.44	111.28
1	F	589	LEU	O-C-N	-6.56	115.16	122.12
1	5	246	LYS	CA-C-N	6.56	129.07	120.28
1	5	246	LYS	C-N-CA	6.56	129.07	120.28
1	x	556	ILE	N-CA-CB	6.56	118.23	110.55
1	A	444	ARG	NE-CZ-NH1	6.56	128.06	121.50
1	C	260	ASN	OD1-CG-ND2	-6.56	116.04	122.60
1	J	153	CYS	N-CA-C	6.56	118.86	108.23
1	M	384	LYS	N-CA-C	6.56	120.89	113.01
1	G	186	VAL	CA-C-N	6.56	129.40	120.54
1	G	186	VAL	C-N-CA	6.56	129.40	120.54
1	M	452	ASN	N-CA-CB	-6.56	100.11	110.28
1	T	536	LYS	N-CA-CB	-6.56	100.11	110.28
1	Y	280	HIS	CG-CD2-NE2	6.56	113.76	107.20
1	0	338	SER	CA-C-O	6.56	129.48	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	0	560	HIS	CG-CD2-NE2	6.56	113.76	107.20
1	1	403	GLU	N-CA-C	6.56	118.51	111.36
1	7	262	VAL	N-CA-CB	6.56	120.17	111.64
1	d	646	PRO	CA-N-CD	-6.56	102.82	112.00
1	z	643	ASN	CA-CB-CG	-6.56	106.04	112.60
1	A	488	ARG	CA-C-N	6.56	127.22	120.00
1	A	488	ARG	C-N-CA	6.56	127.22	120.00
1	E	393	ILE	CA-C-N	6.56	129.60	120.29
1	E	393	ILE	C-N-CA	6.56	129.60	120.29
1	M	542	PHE	CA-CB-CG	-6.56	107.24	113.80
1	P	640	ARG	NE-CZ-NH2	-6.56	113.30	119.20
1	T	360	LEU	CA-C-O	-6.56	113.49	120.71
1	W	393	ILE	N-CA-CB	6.56	118.22	110.55
1	Z	503	ILE	N-CA-C	6.56	116.70	110.53
1	0	392	GLN	CA-C-O	-6.56	113.88	120.90
1	6	102	ASP	CA-CB-CG	-6.56	106.04	112.60
1	b	282	VAL	N-CA-C	-6.56	106.34	112.83
1	c	661	LEU	CA-C-N	6.56	129.07	120.28
1	c	661	LEU	C-N-CA	6.56	129.07	120.28
1	d	343	THR	CA-C-N	6.56	129.07	120.28
1	d	343	THR	C-N-CA	6.56	129.07	120.28
1	j	462	VAL	CA-C-N	6.56	127.21	120.00
1	j	462	VAL	C-N-CA	6.56	127.21	120.00
1	p	584	ILE	CA-C-N	6.56	129.39	120.54
1	p	584	ILE	C-N-CA	6.56	129.39	120.54
1	A	647	PHE	N-CA-CB	6.56	119.71	109.94
1	E	488	ARG	CA-C-N	6.56	128.55	120.22
1	E	488	ARG	C-N-CA	6.56	128.55	120.22
1	I	454	ILE	O-C-N	-6.56	115.08	121.83
1	U	157	LEU	CA-C-N	6.56	131.36	122.84
1	U	157	LEU	C-N-CA	6.56	131.36	122.84
1	a	697	TYR	O-C-N	-6.56	115.17	122.12
1	e	216	PRO	N-CA-C	-6.56	105.67	113.86
1	j	295	LYS	CA-C-N	6.56	127.12	120.04
1	j	295	LYS	C-N-CA	6.56	127.12	120.04
1	O	707	CYS	O-C-N	-6.56	115.17	122.12
1	1	351	GLN	CA-C-N	6.55	129.06	120.28
1	1	351	GLN	C-N-CA	6.55	129.06	120.28
1	2	458	PHE	O-C-N	-6.55	113.42	122.46
1	b	162	GLN	N-CA-C	6.55	115.85	108.25
1	h	203	GLY	O-C-N	6.55	130.01	122.60
1	m	236	ASN	OD1-CG-ND2	6.55	129.15	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	o	354	PRO	CA-C-N	6.55	129.06	120.28
1	o	354	PRO	C-N-CA	6.55	129.06	120.28
1	q	104	ILE	CA-C-N	6.55	128.96	120.44
1	q	104	ILE	C-N-CA	6.55	128.96	120.44
1	u	220	ASP	CA-CB-CG	-6.55	106.05	112.60
1	v	188	LYS	O-C-N	-6.55	113.58	122.36
1	w	195	ASN	CA-C-O	6.55	127.71	120.63
1	C	636	GLU	N-CA-CB	6.55	119.57	110.07
1	E	461	TRP	N-CA-C	6.55	118.42	111.28
1	P	585	TYR	N-CA-C	6.55	119.25	111.71
1	4	534	VAL	CA-C-N	6.55	129.60	120.29
1	4	534	VAL	C-N-CA	6.55	129.60	120.29
1	g	495	PHE	CA-CB-CG	6.55	120.35	113.80
1	j	463	GLY	N-CA-C	-6.55	104.38	112.77
1	x	191	HIS	CE1-NE2-CD2	-6.55	102.45	109.00
1	D	139	SER	CA-C-O	6.55	126.11	118.90
1	H	509	ILE	O-C-N	6.55	128.49	121.87
1	I	128	SER	CA-C-O	6.55	126.98	119.18
1	W	313	ASN	CA-C-O	6.55	126.62	119.15
1	X	585	TYR	O-C-N	-6.55	115.17	122.12
1	s	178	LEU	CA-C-O	6.55	127.59	120.58
1	z	384	LYS	N-CA-C	6.55	118.42	111.28
1	B	207	GLU	N-CA-CB	6.55	119.72	109.83
1	B	230	THR	N-CA-CB	6.55	119.86	110.16
1	P	288	ARG	NE-CZ-NH1	6.55	128.05	121.50
1	R	184	GLY	O-C-N	-6.55	114.45	122.71
1	T	174	ARG	NH1-CZ-NH2	-6.55	110.78	119.30
1	Z	134	VAL	CA-C-N	6.55	131.78	120.58
1	Z	134	VAL	C-N-CA	6.55	131.78	120.58
1	9	353	HIS	CB-CG-ND1	6.55	132.52	122.70
1	h	563	LYS	N-CA-C	6.55	118.08	111.07
1	m	487	TYR	N-CA-C	6.55	119.25	111.33
1	o	698	ARG	N-CA-C	6.55	118.50	111.36
1	s	643	ASN	O-C-N	-6.55	114.25	122.17
1	t	208	LEU	CA-C-O	6.55	127.94	120.54
1	x	556	ILE	CA-C-N	6.55	129.29	120.65
1	x	556	ILE	C-N-CA	6.55	129.29	120.65
1	A	593	ARG	NE-CZ-NH1	6.55	128.05	121.50
1	D	572	PHE	N-CA-CB	6.55	120.43	110.28
1	E	145	ARG	NE-CZ-NH2	-6.55	113.31	119.20
1	I	303	THR	CA-CB-OG1	6.55	119.42	109.60
1	I	548	THR	N-CA-C	6.55	118.08	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	405	ARG	CA-C-O	6.55	127.49	120.55
1	P	431	GLN	N-CA-C	6.55	118.42	111.28
1	Y	535	ALA	CA-C-N	6.55	129.59	120.29
1	Y	535	ALA	C-N-CA	6.55	129.59	120.29
1	6	373	ARG	N-CA-C	6.55	119.01	111.02
1	T	688	LYS	CB-CA-C	6.55	121.16	110.88
1	3	462	VAL	CA-C-O	6.55	127.58	120.57
1	3	623	PHE	CB-CG-CD2	-6.55	109.57	120.70
1	j	340	ALA	N-CA-C	6.55	119.25	111.33
1	j	375	THR	N-CA-C	6.55	118.97	111.11
1	v	238	PRO	O-C-N	-6.55	114.68	122.99
1	N	494	GLY	CA-C-N	6.55	133.48	121.70
1	N	494	GLY	C-N-CA	6.55	133.48	121.70
1	N	659	ASP	O-C-N	-6.55	115.18	122.12
1	R	531	PHE	O-C-N	-6.55	115.18	122.12
1	2	695	ARG	N-CA-C	6.54	118.07	111.07
1	f	226	LEU	CA-C-O	-6.54	113.56	120.23
1	p	555	ASP	CA-C-N	6.54	128.81	120.56
1	p	555	ASP	C-N-CA	6.54	128.81	120.56
1	V	191	HIS	N-CA-CB	-6.54	100.50	110.12
1	V	306	SER	N-CA-C	-6.54	104.07	111.14
1	2	156	VAL	N-CA-CB	6.54	118.46	111.46
1	5	108	ARG	CA-C-N	6.54	129.05	120.28
1	5	108	ARG	C-N-CA	6.54	129.05	120.28
1	5	548	THR	CA-C-N	6.54	128.94	120.56
1	5	548	THR	C-N-CA	6.54	128.94	120.56
1	9	455	ARG	N-CA-C	6.54	119.23	111.71
1	m	541	GLU	CA-C-O	6.54	126.97	119.18
1	z	691	ILE	N-CA-C	6.54	116.68	110.53
1	D	327	CYS	CB-CA-C	-6.54	97.91	109.62
1	E	521	GLN	CG-CD-NE2	6.54	126.22	116.40
1	Z	505	VAL	CA-C-O	-6.54	114.14	120.95
1	0	462	VAL	CA-CB-CG2	-6.54	99.28	110.40
1	5	395	GLU	CA-C-N	6.54	129.04	120.28
1	5	395	GLU	C-N-CA	6.54	129.04	120.28
1	8	244	GLN	CA-C-N	6.54	129.04	120.60
1	8	244	GLN	C-N-CA	6.54	129.04	120.60
1	h	390	GLU	CA-C-O	6.54	127.43	119.38
1	q	542	PHE	CA-CB-CG	-6.54	107.26	113.80
1	t	573	ARG	NE-CZ-NH1	6.54	128.04	121.50
1	w	326	LYS	N-CA-CB	-6.54	100.38	110.85
1	A	401	THR	N-CA-C	6.54	119.23	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	295	LYS	CA-C-N	6.54	127.11	120.04
1	G	295	LYS	C-N-CA	6.54	127.11	120.04
1	W	231	ARG	O-C-N	-6.54	114.49	122.34
1	Y	470	GLN	O-C-N	-6.54	114.57	122.48
1	Z	680	GLN	CA-C-N	6.54	131.21	120.94
1	Z	680	GLN	C-N-CA	6.54	131.21	120.94
1	d	515	PRO	N-CA-CB	-6.54	96.59	103.52
1	p	338	SER	O-C-N	-6.54	115.55	123.27
1	r	206	HIS	CE1-NE2-CD2	-6.54	102.46	109.00
1	t	311	VAL	CA-C-N	6.54	129.04	120.28
1	t	311	VAL	C-N-CA	6.54	129.04	120.28
1	0	709	PHE	O-C-N	-6.54	114.23	122.27
1	c	215	SER	CA-C-O	-6.54	114.61	120.56
1	i	576	GLN	CB-CG-CD	6.54	123.72	112.60
1	l	462	VAL	CA-C-N	6.54	128.53	120.22
1	l	462	VAL	C-N-CA	6.54	128.53	120.22
1	m	542	PHE	CA-CB-CG	-6.54	107.26	113.80
1	u	538	HIS	CG-CD2-NE2	6.54	113.74	107.20
1	x	205	SER	O-C-N	-6.54	114.91	123.21
1	K	145	ARG	NE-CZ-NH1	6.54	128.04	121.50
1	K	260	ASN	OD1-CG-ND2	6.54	129.14	122.60
1	R	477	HIS	N-CA-CB	6.54	120.72	110.46
1	W	362	GLU	CA-C-N	6.54	127.24	119.98
1	W	362	GLU	C-N-CA	6.54	127.24	119.98
1	Y	667	GLN	OE1-CD-NE2	-6.54	116.06	122.60
1	Z	249	ILE	N-CA-CB	6.54	118.20	110.55
1	c	591	LYS	N-CA-C	6.54	120.52	112.54
1	j	163	PRO	N-CA-C	-6.54	105.01	113.57
1	m	98	ARG	NE-CZ-NH1	6.54	128.04	121.50
1	u	507	GLN	OE1-CD-NE2	6.54	129.14	122.60
1	T	319	LYS	N-CA-C	6.54	119.23	111.71
1	4	585	TYR	CA-C-N	6.54	129.04	120.28
1	4	585	TYR	C-N-CA	6.54	129.04	120.28
1	9	514	GLU	N-CA-C	6.54	121.11	112.35
1	d	531	PHE	CA-C-O	-6.54	113.91	120.90
1	f	239	ARG	NE-CZ-NH1	6.54	128.04	121.50
1	o	220	ASP	N-CA-C	6.54	118.93	108.41
1	o	299	MET	CG-SD-CE	-6.54	86.52	100.90
1	o	434	GLU	N-CA-C	6.54	118.99	111.02
1	r	430	ASN	CB-CA-C	-6.54	99.94	110.79
1	r	597	PHE	N-CA-C	6.54	118.20	111.14
1	C	470	GLN	CA-C-N	6.54	129.04	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	470	GLN	C-N-CA	6.54	129.04	120.28
1	J	174	ARG	NE-CZ-NH1	6.54	128.04	121.50
1	U	129	SER	N-CA-CB	6.54	119.73	110.12
1	4	245	ILE	N-CA-C	6.53	116.67	110.53
1	6	366	THR	N-CA-C	6.53	118.40	111.28
1	g	506	HIS	CG-CD2-NE2	6.53	113.73	107.20
1	k	242	GLY	CA-C-N	-6.53	110.38	120.31
1	k	242	GLY	C-N-CA	-6.53	110.38	120.31
1	o	97	VAL	CA-CB-CG1	-6.53	99.29	110.40
1	z	423	ILE	N-CA-CB	6.53	119.42	110.54
1	z	542	PHE	CA-C-N	6.53	128.93	120.44
1	z	542	PHE	C-N-CA	6.53	128.93	120.44
1	J	638	SER	O-C-N	-6.53	115.19	122.12
1	V	373	ARG	NE-CZ-NH2	6.53	125.08	119.20
1	7	179	GLU	CA-C-O	6.53	127.16	120.24
1	f	97	VAL	N-CA-CB	6.53	118.19	110.55
1	C	638	SER	N-CA-C	6.53	119.23	111.33
1	5	393	ILE	CA-C-N	6.53	128.93	120.44
1	5	393	ILE	C-N-CA	6.53	128.93	120.44
1	7	182	ASP	CA-CB-CG	6.53	119.13	112.60
1	b	506	HIS	CG-CD2-NE2	6.53	113.73	107.20
1	j	367	VAL	N-CA-C	6.53	122.98	108.88
1	m	200	ASN	OD1-CG-ND2	-6.53	116.07	122.60
1	n	473	LYS	N-CA-C	6.53	118.95	111.11
1	C	629	HIS	CG-CD2-NE2	6.53	113.73	107.20
1	P	206	HIS	CA-CB-CG	6.53	120.33	113.80
1	Z	704	HIS	CE1-NE2-CD2	-6.53	102.47	109.00
1	i	454	ILE	CA-C-N	6.53	129.03	120.28
1	i	454	ILE	C-N-CA	6.53	129.03	120.28
1	j	309	ASN	N-CA-C	-6.53	104.24	111.36
1	s	542	PHE	O-C-N	-6.53	114.69	122.46
1	F	568	ILE	O-C-N	-6.53	115.54	121.87
1	M	572	PHE	CA-C-N	6.53	129.56	120.29
1	M	572	PHE	C-N-CA	6.53	129.56	120.29
1	d	155	LEU	N-CA-C	6.53	119.44	108.02
1	d	670	GLN	N-CA-C	6.53	120.45	112.23
1	e	188	LYS	CA-C-N	6.53	129.03	120.28
1	e	188	LYS	C-N-CA	6.53	129.03	120.28
1	u	351	GLN	CB-CG-CD	6.53	123.70	112.60
1	E	574	MET	CA-C-N	6.53	131.62	120.72
1	E	574	MET	C-N-CA	6.53	131.62	120.72
1	E	644	GLN	CB-CG-CD	-6.53	101.50	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	477	HIS	CA-CB-CG	6.53	120.33	113.80
1	S	565	GLU	CA-C-N	6.53	129.03	120.28
1	S	565	GLU	C-N-CA	6.53	129.03	120.28
1	T	341	GLU	CA-C-O	-6.53	113.50	120.42
1	T	508	TYR	CA-C-N	6.53	129.40	120.46
1	T	508	TYR	C-N-CA	6.53	129.40	120.46
1	6	218	VAL	CA-C-O	6.53	125.49	119.62
1	6	706	LEU	CA-C-O	6.53	127.47	120.10
1	7	113	GLU	N-CA-C	-6.53	105.86	113.88
1	9	388	LEU	N-CA-C	6.53	118.47	111.36
1	b	246	LYS	CB-CA-C	-6.53	99.76	110.85
1	f	272	THR	CA-C-N	6.53	131.45	122.77
1	f	272	THR	C-N-CA	6.53	131.45	122.77
1	h	681	GLU	CA-C-N	6.53	128.92	120.44
1	h	681	GLU	C-N-CA	6.53	128.92	120.44
1	j	658	GLY	CA-C-N	6.53	128.92	120.44
1	j	658	GLY	C-N-CA	6.53	128.92	120.44
1	y	469	THR	O-C-N	-6.53	115.20	122.12
1	B	438	GLU	CA-C-O	6.53	127.46	119.11
1	E	215	SER	CA-C-O	-6.53	114.34	120.34
1	E	639	LYS	CA-C-N	6.53	128.92	120.44
1	E	639	LYS	C-N-CA	6.53	128.92	120.44
1	R	402	GLU	N-CA-C	6.53	118.39	111.28
1	S	195	ASN	OD1-CG-ND2	-6.53	116.08	122.60
1	T	538	HIS	CB-CG-CD2	-6.53	122.72	131.20
1	V	387	PRO	CA-C-N	6.53	131.74	120.58
1	V	387	PRO	C-N-CA	6.53	131.74	120.58
1	Y	108	ARG	NE-CZ-NH1	6.53	128.03	121.50
1	Y	308	MET	CG-SD-CE	-6.53	86.55	100.90
1	0	369	ARG	CA-C-N	6.52	129.26	120.65
1	0	369	ARG	C-N-CA	6.52	129.26	120.65
1	u	347	ILE	N-CA-C	6.52	117.28	110.62
1	M	653	MET	N-CA-C	6.52	121.40	113.38
1	1	674	ARG	CA-C-N	6.52	129.31	120.38
1	1	674	ARG	C-N-CA	6.52	129.31	120.38
1	a	700	THR	CA-C-N	6.52	129.55	120.29
1	a	700	THR	C-N-CA	6.52	129.55	120.29
1	g	110	LEU	CA-C-O	6.52	127.46	120.55
1	j	623	PHE	CA-C-N	6.52	129.35	120.54
1	j	623	PHE	C-N-CA	6.52	129.35	120.54
1	l	206	HIS	ND1-CE1-NE2	6.52	114.92	108.40
1	p	169	GLY	CA-C-O	-6.52	115.60	121.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	512	LEU	N-CA-CB	-6.52	100.81	110.53
1	K	544	ASN	CA-CB-CG	-6.52	106.08	112.60
1	U	657	ASN	O-C-N	-6.52	115.21	122.12
1	c	557	LYS	CA-C-N	6.52	128.78	120.56
1	c	557	LYS	C-N-CA	6.52	128.78	120.56
1	z	537	LYS	CA-C-N	6.52	129.02	120.28
1	z	537	LYS	C-N-CA	6.52	129.02	120.28
1	R	695	ARG	NH1-CZ-NH2	-6.52	110.82	119.30
1	8	452	ASN	N-CA-C	6.52	118.39	111.28
1	f	628	ILE	CA-C-O	6.52	127.51	120.47
1	h	567	MET	CG-SD-CE	-6.52	86.56	100.90
1	l	441	GLU	O-C-N	-6.52	114.85	122.87
1	s	404	LEU	O-C-N	-6.52	115.21	122.12
1	x	312	ARG	CD-NE-CZ	6.52	133.53	124.40
1	C	586	SER	N-CA-C	6.52	118.39	111.28
1	F	530	ALA	N-CA-C	6.52	118.05	111.07
1	P	637	THR	CA-C-O	6.52	127.46	120.55
1	2	98	ARG	O-C-N	-6.52	114.58	120.71
1	8	310	VAL	CA-CB-CG2	-6.52	99.32	110.40
1	j	583	GLN	O-C-N	-6.52	114.60	122.22
1	l	244	GLN	N-CA-C	6.52	119.38	111.82
1	n	147	SER	O-C-N	-6.52	116.05	123.48
1	M	226	LEU	CA-C-O	-6.52	112.52	120.54
1	U	244	GLN	OE1-CD-NE2	-6.52	116.08	122.60
1	0	486	GLN	CA-CB-CG	6.52	127.13	114.10
1	5	496	VAL	CB-CA-C	6.52	120.06	111.33
1	a	528	GLN	CA-C-N	6.52	129.01	120.28
1	a	528	GLN	C-N-CA	6.52	129.01	120.28
1	i	187	GLU	N-CA-C	6.52	118.04	111.07
1	z	686	ALA	N-CA-C	6.52	118.38	111.28
1	R	507	GLN	N-CA-C	6.52	118.04	111.07
1	4	213	ILE	CA-C-O	6.51	127.23	120.39
1	a	644	GLN	CA-C-N	6.51	124.34	120.24
1	a	644	GLN	C-N-CA	6.51	124.34	120.24
1	j	196	VAL	N-CA-C	6.51	116.67	110.42
1	r	684	GLU	N-CA-C	6.51	118.93	111.11
1	s	425	LYS	N-CA-C	6.51	119.21	111.33
1	x	707	CYS	N-CA-C	6.51	118.46	111.36
1	I	655	ARG	CA-C-O	6.51	127.41	120.70
1	M	185	GLN	OE1-CD-NE2	-6.51	116.08	122.60
1	V	484	GLU	CA-C-N	6.51	128.91	120.44
1	V	484	GLU	C-N-CA	6.51	128.91	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8	237	GLN	OE1-CD-NE2	-6.51	116.09	122.60
1	b	133	SER	N-CA-C	6.51	118.38	111.28
1	t	136	GLU	N-CA-C	6.51	118.38	111.28
1	C	656	GLU	N-CA-C	6.51	118.38	111.28
1	P	302	GLY	CA-C-N	6.51	129.01	120.28
1	P	302	GLY	C-N-CA	6.51	129.01	120.28
1	0	538	HIS	ND1-CE1-NE2	6.51	114.91	108.40
1	e	644	GLN	CA-C-N	6.51	125.54	120.33
1	e	644	GLN	C-N-CA	6.51	125.54	120.33
1	m	430	ASN	OD1-CG-ND2	-6.51	116.09	122.60
1	v	332	GLU	CA-C-N	6.51	129.84	120.98
1	v	332	GLU	C-N-CA	6.51	129.84	120.98
1	A	351	GLN	N-CA-CB	6.51	120.37	110.28
1	F	264	VAL	CA-C-N	6.51	126.90	119.93
1	F	264	VAL	C-N-CA	6.51	126.90	119.93
1	H	697	TYR	CA-C-O	6.51	127.32	120.42
1	K	110	LEU	CA-C-N	6.51	130.98	121.67
1	K	110	LEU	C-N-CA	6.51	130.98	121.67
1	M	353	HIS	CE1-NE2-CD2	-6.51	102.49	109.00
1	Q	394	ARG	O-C-N	-6.51	115.22	122.12
1	V	473	LYS	CA-C-O	6.51	127.45	120.55
1	l	195	ASN	CA-C-N	6.51	128.76	120.56
1	l	195	ASN	C-N-CA	6.51	128.76	120.56
1	9	430	ASN	CA-CB-CG	-6.51	106.09	112.60
1	d	268	VAL	CA-C-O	-6.51	114.89	121.59
1	e	109	ALA	CA-C-O	6.51	127.32	120.42
1	o	486	GLN	CA-C-N	6.51	128.90	120.44
1	o	486	GLN	C-N-CA	6.51	128.90	120.44
1	p	129	SER	N-CA-CB	6.51	119.69	110.12
1	F	373	ARG	CA-C-N	6.51	128.90	120.44
1	F	373	ARG	C-N-CA	6.51	128.90	120.44
1	N	353	HIS	ND1-CE1-NE2	6.51	114.91	108.40
1	P	546	ASN	CA-CB-CG	6.51	119.11	112.60
1	V	166	ALA	N-CA-C	6.51	119.66	109.96
1	5	151	THR	N-CA-C	6.51	119.46	110.35
1	e	166	ALA	N-CA-C	6.51	119.81	110.24
1	L	389	LEU	CA-C-N	6.51	129.00	120.28
1	L	389	LEU	C-N-CA	6.51	129.00	120.28
1	5	245	ILE	N-CA-C	6.51	116.67	110.42
1	7	113	GLU	CA-C-O	6.51	126.59	119.24
1	b	356	PHE	N-CA-C	6.51	119.19	111.71
1	k	496	VAL	O-C-N	-6.51	115.04	122.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	q	422	LEU	N-CA-C	6.51	118.92	111.11
1	t	441	GLU	CB-CG-CD	6.51	123.66	112.60
1	x	436	LEU	CA-C-N	6.51	129.37	120.46
1	x	436	LEU	C-N-CA	6.51	129.37	120.46
1	z	454	ILE	N-CA-C	6.51	117.26	110.62
1	z	501	PHE	CA-C-O	6.51	127.45	120.55
1	N	95	GLN	OE1-CD-NE2	6.51	129.11	122.60
1	N	506	HIS	CA-CB-CG	6.51	120.31	113.80
1	V	317	PRO	CA-C-N	6.51	129.95	120.71
1	V	317	PRO	C-N-CA	6.51	129.95	120.71
1	C	506	HIS	CE1-NE2-CD2	-6.50	102.50	109.00
1	D	529	GLN	N-CA-C	6.50	118.92	111.11
1	G	174	ARG	NH1-CZ-NH2	-6.50	110.84	119.30
1	Q	330	GLN	OE1-CD-NE2	-6.50	116.09	122.60
1	Y	247	ALA	N-CA-C	6.50	118.37	111.28
1	8	526	ILE	CA-CB-CG2	6.50	121.56	110.50
1	c	674	ARG	CD-NE-CZ	6.50	133.50	124.40
1	h	145	ARG	NE-CZ-NH2	6.50	125.05	119.20
1	j	98	ARG	CA-C-N	6.50	126.08	119.19
1	j	98	ARG	C-N-CA	6.50	126.08	119.19
1	l	705	ALA	N-CA-C	6.50	118.16	111.14
1	o	660	SER	CA-C-N	6.50	129.52	120.29
1	o	660	SER	C-N-CA	6.50	129.52	120.29
1	r	219	PRO	N-CD-CG	6.50	112.95	103.20
1	U	692	LEU	N-CA-C	6.50	118.37	111.28
1	V	204	ILE	N-CA-C	6.50	117.43	109.30
1	h	543	PHE	N-CA-C	6.50	118.16	111.14
1	i	577	MET	N-CA-CB	6.50	120.55	110.21
1	j	640	ARG	NE-CZ-NH1	6.50	128.00	121.50
1	o	643	ASN	CA-CB-CG	6.50	119.10	112.60
1	p	527	ILE	CB-CA-C	-6.50	103.36	112.14
1	B	208	LEU	N-CA-C	6.50	119.15	109.59
1	F	460	ASN	OD1-CG-ND2	-6.50	116.10	122.60
1	G	518	SER	CA-C-O	6.50	127.31	120.42
1	I	488	ARG	N-CA-C	6.50	118.37	111.28
1	T	309	ASN	N-CA-C	6.50	118.37	111.28
1	U	382	ILE	CA-C-O	6.50	127.53	120.57
1	V	355	TYR	CB-CG-CD1	-6.50	111.05	120.80
1	Z	522	LYS	N-CA-CB	-6.50	100.51	110.20
1	i	181	GLN	CB-CA-C	-6.50	108.39	117.23
1	p	150	VAL	CA-C-N	6.50	129.99	120.82
1	p	150	VAL	C-N-CA	6.50	129.99	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	r	491	GLU	CA-C-N	6.50	131.84	122.35
1	r	491	GLU	C-N-CA	6.50	131.84	122.35
1	t	162	GLN	CA-C-O	-6.50	112.61	119.50
1	x	269	ASP	CA-CB-CG	6.50	119.10	112.60
1	Y	378	LEU	CB-CA-C	-6.50	100.41	110.81
1	3	129	SER	N-CA-C	-6.50	105.35	113.28
1	5	449	ARG	N-CA-C	6.50	118.69	110.24
1	6	689	ARG	NH1-CZ-NH2	-6.50	110.85	119.30
1	a	569	GLN	OE1-CD-NE2	-6.50	116.10	122.60
1	e	665	MET	CA-C-N	6.50	128.99	120.28
1	e	665	MET	C-N-CA	6.50	128.99	120.28
1	j	195	ASN	CA-CB-CG	6.50	119.10	112.60
1	j	581	GLN	CA-C-N	6.50	133.95	121.54
1	j	581	GLN	C-N-CA	6.50	133.95	121.54
1	l	144	PRO	N-CA-C	6.50	121.42	111.15
1	E	704	HIS	CG-CD2-NE2	6.50	113.70	107.20
1	N	649	ILE	N-CA-C	6.50	116.66	110.42
1	O	182	ASP	CA-C-N	6.50	127.01	119.47
1	O	182	ASP	C-N-CA	6.50	127.01	119.47
1	3	350	PHE	O-C-N	-6.50	115.07	122.09
1	4	432	ASP	N-CA-C	6.50	118.44	111.36
1	a	401	THR	N-CA-C	6.50	118.36	111.28
1	p	543	PHE	CA-CB-CG	6.50	120.30	113.80
1	D	560	HIS	N-CA-C	6.50	119.36	111.82
1	F	105	ASP	CA-CB-CG	-6.50	106.10	112.60
1	8	478	GLU	CA-C-N	6.50	128.98	120.28
1	8	478	GLU	C-N-CA	6.50	128.98	120.28
1	w	699	LEU	CA-C-N	6.50	130.18	120.31
1	w	699	LEU	C-N-CA	6.50	130.18	120.31
1	x	630	LEU	N-CA-C	6.50	118.36	111.28
1	H	410	ASP	CA-C-N	6.50	133.39	121.70
1	H	410	ASP	C-N-CA	6.50	133.39	121.70
1	Q	275	ALA	N-CA-C	6.50	118.36	111.28
1	S	134	VAL	CB-CA-C	-6.50	103.37	112.14
1	U	461	TRP	CD2-CE2-CZ2	-6.50	115.91	122.40
1	V	238	PRO	O-C-N	-6.50	113.87	122.64
1	X	414	GLN	N-CA-C	6.50	119.32	110.55
1	G	197	MET	O-C-N	-6.49	113.19	122.41
1	K	353	HIS	CB-CA-C	6.49	117.30	109.31
1	L	562	ALA	CA-C-N	6.49	128.88	120.44
1	L	562	ALA	C-N-CA	6.49	128.88	120.44
1	N	155	LEU	CA-C-O	6.49	127.25	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	131	LYS	O-C-N	-6.49	115.24	122.12
1	c	589	LEU	CA-C-O	6.49	127.44	120.10
1	v	348	THR	N-CA-C	6.49	118.44	111.36
1	4	344	LYS	CA-C-N	6.49	128.88	120.44
1	4	344	LYS	C-N-CA	6.49	128.88	120.44
1	6	452	ASN	CA-CB-CG	-6.49	106.11	112.60
1	a	686	ALA	N-CA-C	6.49	118.90	111.11
1	d	509	ILE	N-CA-C	6.49	117.24	110.62
1	l	250	LYS	CA-C-N	6.49	128.98	120.28
1	l	250	LYS	C-N-CA	6.49	128.98	120.28
1	p	283	ASP	CA-C-O	-6.49	112.81	119.49
1	w	114	GLN	N-CA-CB	6.49	122.75	111.00
1	B	326	LYS	O-C-N	-6.49	115.20	122.86
1	C	358	VAL	O-C-N	-6.49	115.55	121.91
1	C	360	LEU	N-CA-C	6.49	118.43	111.36
1	S	703	ARG	CA-C-N	6.49	129.27	120.38
1	S	703	ARG	C-N-CA	6.49	129.27	120.38
1	Z	294	THR	CA-CB-OG1	6.49	119.33	109.60
1	f	361	GLU	O-C-N	-6.49	115.24	122.12
1	h	297	ASP	CA-CB-CG	6.49	119.09	112.60
1	k	414	GLN	CA-C-N	6.49	128.97	120.28
1	k	414	GLN	C-N-CA	6.49	128.97	120.28
1	F	558	VAL	O-C-N	6.49	128.16	121.87
1	G	116	LEU	N-CA-C	6.49	119.89	110.42
1	H	572	PHE	CA-CB-CG	-6.49	107.31	113.80
1	Q	224	ILE	CA-C-O	6.49	128.25	120.85
1	Q	652	PHE	CA-CB-CG	-6.49	107.31	113.80
1	T	549	VAL	O-C-N	-6.49	115.55	121.91
1	9	563	LYS	N-CA-CB	6.49	119.42	110.01
1	d	360	LEU	N-CA-C	6.49	124.62	110.80
1	m	447	GLU	O-C-N	-6.49	114.52	122.82
1	q	577	MET	O-C-N	-6.49	114.63	122.22
1	x	107	LEU	CA-C-N	6.49	129.45	120.63
1	x	107	LEU	C-N-CA	6.49	129.45	120.63
1	x	648	ILE	N-CA-C	6.49	117.17	110.36
1	D	235	ASP	O-C-N	-6.49	115.24	122.12
1	M	127	GLN	N-CA-C	6.49	118.35	111.28
1	9	264	VAL	O-C-N	-6.49	115.09	121.12
1	d	113	GLU	N-CA-C	-6.49	105.12	113.16
1	l	171	ILE	CA-C-O	6.49	127.23	120.36
1	u	162	GLN	CA-C-O	-6.49	114.53	120.50
1	u	691	ILE	CA-C-N	6.49	128.97	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	u	691	ILE	C-N-CA	6.49	128.97	120.28
1	x	386	LEU	N-CA-C	6.49	122.52	113.57
1	C	129	SER	CA-C-N	6.49	132.03	121.00
1	C	129	SER	C-N-CA	6.49	132.03	121.00
1	K	371	ALA	CA-C-N	6.49	128.97	120.28
1	K	371	ALA	C-N-CA	6.49	128.97	120.28
1	T	498	TYR	CA-C-O	6.49	126.86	119.27
1	U	596	ILE	O-C-N	-6.49	114.46	122.57
1	W	453	LYS	O-C-N	-6.49	115.28	122.03
1	b	280	HIS	N-CA-C	6.48	118.35	111.28
1	j	539	PHE	CA-CB-CG	-6.48	107.32	113.80
1	j	691	ILE	CA-C-N	6.48	129.50	120.29
1	j	691	ILE	C-N-CA	6.48	129.50	120.29
1	r	383	GLN	OE1-CD-NE2	-6.48	116.12	122.60
1	s	482	LYS	O-C-N	-6.48	114.76	122.15
1	w	421	PHE	CB-CA-C	6.48	121.06	110.88
1	x	547	GLN	CA-C-O	6.48	127.42	120.55
1	F	240	ASP	CA-CB-CG	6.48	119.08	112.60
1	M	305	LYS	CA-C-N	6.48	129.29	120.54
1	M	305	LYS	C-N-CA	6.48	129.29	120.54
1	0	486	GLN	CA-C-O	6.48	125.96	118.77
1	1	494	GLY	CA-C-N	6.48	133.37	121.70
1	1	494	GLY	C-N-CA	6.48	133.37	121.70
1	2	288	ARG	CA-C-N	6.48	131.39	122.77
1	2	288	ARG	C-N-CA	6.48	131.39	122.77
1	6	195	ASN	N-CA-C	6.48	118.42	111.36
1	6	489	GLY	N-CA-C	-6.48	106.32	114.16
1	a	268	VAL	N-CA-C	6.48	117.45	108.89
1	h	174	ARG	NE-CZ-NH1	6.48	127.98	121.50
1	h	470	GLN	CA-C-O	6.48	127.63	120.82
1	r	402	GLU	O-C-N	-6.48	115.25	122.12
1	x	641	LEU	CA-C-O	6.48	127.43	119.97
1	y	645	ILE	CA-C-O	-6.48	111.26	119.95
1	D	573	ARG	CA-C-O	-6.48	113.55	120.42
1	F	261	LEU	CA-C-O	6.48	127.52	120.32
1	G	474	ASN	CA-C-N	6.48	130.92	120.55
1	G	474	ASN	C-N-CA	6.48	130.92	120.55
1	N	243	LEU	N-CA-C	6.48	118.43	111.36
1	R	335	ASN	CA-CB-CG	-6.48	106.12	112.60
1	a	265	PRO	CA-C-O	-6.48	113.95	121.34
1	b	96	LYS	N-CA-C	6.48	118.42	111.36
1	d	477	HIS	ND1-CE1-NE2	6.48	114.88	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	f	150	VAL	CA-C-N	6.48	130.35	120.82
1	f	150	VAL	C-N-CA	6.48	130.35	120.82
1	q	307	VAL	N-CA-CB	6.48	118.13	110.55
1	z	664	ALA	N-CA-C	6.48	120.45	112.54
1	I	701	GLN	CA-C-O	6.48	127.29	120.42
1	L	589	LEU	CA-C-N	6.48	128.86	120.44
1	L	589	LEU	C-N-CA	6.48	128.86	120.44
1	N	632	ALA	N-CA-C	6.48	118.03	110.97
1	N	709	PHE	N-CA-C	6.48	118.34	111.28
1	T	523	ALA	CA-C-O	6.48	127.38	120.70
1	W	689	ARG	NH1-CZ-NH2	-6.48	110.88	119.30
1	W	709	PHE	N-CA-C	6.48	118.34	111.28
1	Y	566	ASN	OD1-CG-ND2	6.48	129.08	122.60
1	8	669	LEU	O-C-N	-6.48	112.97	122.43
1	d	649	ILE	N-CA-C	6.48	116.64	110.42
1	e	286	GLY	CA-C-N	6.48	128.96	120.28
1	e	286	GLY	C-N-CA	6.48	128.96	120.28
1	i	454	ILE	O-C-N	-6.48	115.33	121.87
1	j	369	ARG	CA-C-O	6.48	127.12	119.28
1	k	568	ILE	N-CA-CB	6.48	117.70	110.51
1	D	573	ARG	N-CA-C	6.48	118.42	111.36
1	G	677	TRP	CA-C-N	6.48	128.96	120.28
1	G	677	TRP	C-N-CA	6.48	128.96	120.28
1	I	383	GLN	N-CA-C	6.48	119.34	111.82
1	K	189	GLU	N-CA-C	6.48	118.34	111.28
1	V	467	THR	CA-C-O	-6.48	113.68	120.55
1	a	424	GLU	CA-C-N	6.48	128.86	120.44
1	a	424	GLU	C-N-CA	6.48	128.86	120.44
1	d	193	ALA	CA-C-N	6.48	128.96	120.28
1	d	193	ALA	C-N-CA	6.48	128.96	120.28
1	g	120	ALA	N-CA-C	6.48	118.70	108.79
1	p	275	ALA	CA-C-N	6.48	128.96	120.28
1	p	275	ALA	C-N-CA	6.48	128.96	120.28
1	r	649	ILE	CA-C-O	6.48	128.69	121.18
1	C	424	GLU	N-CA-C	-6.48	104.14	111.07
1	J	545	LEU	CB-CA-C	6.48	121.13	110.90
1	L	405	ARG	CA-C-N	6.48	129.49	120.29
1	L	405	ARG	C-N-CA	6.48	129.49	120.29
1	N	156	VAL	CB-CA-C	-6.48	102.73	111.15
1	O	632	ALA	N-CA-C	6.48	118.88	111.11
1	R	384	LYS	CA-C-O	6.48	127.42	119.97
1	R	490	LYS	N-CA-C	-6.48	105.02	113.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	269	ASP	CA-C-N	6.48	128.72	120.56
1	T	269	ASP	C-N-CA	6.48	128.72	120.56
1	9	682	GLN	O-C-N	-6.48	115.25	122.12
1	D	510	GLN	CA-C-O	6.48	127.26	119.10
1	S	652	PHE	N-CA-C	6.48	118.34	111.28
1	Z	594	GLU	N-CA-C	6.48	118.34	111.28
1	0	175	ASN	OD1-CG-ND2	6.47	129.07	122.60
1	1	637	THR	N-CA-CB	6.47	119.64	110.12
1	8	192	LYS	N-CA-C	6.47	119.16	111.71
1	8	624	THR	N-CA-CB	6.47	119.64	110.12
1	g	562	ALA	N-CA-CB	-6.47	100.35	110.06
1	i	505	VAL	O-C-N	-6.47	114.68	122.06
1	n	464	ILE	N-CA-CB	6.47	118.12	110.55
1	t	503	ILE	N-CA-C	6.47	118.00	110.62
1	t	586	SER	CA-C-N	6.47	129.61	120.42
1	t	586	SER	C-N-CA	6.47	129.61	120.42
1	F	143	LEU	CA-C-N	6.47	127.93	119.84
1	F	143	LEU	C-N-CA	6.47	127.93	119.84
1	N	472	VAL	N-CA-C	6.47	116.64	110.42
1	8	420	PHE	CA-C-N	6.47	128.85	120.44
1	8	420	PHE	C-N-CA	6.47	128.85	120.44
1	c	447	GLU	CA-C-O	6.47	127.35	120.36
1	e	593	ARG	O-C-N	-6.47	115.26	122.12
1	g	688	LYS	O-C-N	-6.47	115.40	122.07
1	h	568	ILE	N-CA-C	6.47	117.16	110.36
1	G	564	ALA	CA-C-O	-6.47	113.56	120.42
1	P	460	ASN	N-CA-CB	6.47	119.64	110.12
1	S	466	ALA	CA-C-O	6.47	127.62	120.82
1	1	585	TYR	CA-C-N	6.47	128.95	120.28
1	1	585	TYR	C-N-CA	6.47	128.95	120.28
1	4	145	ARG	NH1-CZ-NH2	6.47	127.71	119.30
1	0	441	GLU	N-CA-C	6.47	119.74	110.10
1	4	444	ARG	NE-CZ-NH2	6.47	125.02	119.20
1	d	674	ARG	NE-CZ-NH2	-6.47	113.38	119.20
1	g	517	LEU	N-CA-CB	6.47	119.39	110.01
1	E	191	HIS	ND1-CE1-NE2	6.47	114.87	108.40
1	E	273	THR	N-CA-C	6.47	119.74	110.10
1	J	280	HIS	CE1-NE2-CD2	-6.47	102.53	109.00
1	M	280	HIS	ND1-CE1-NE2	6.47	114.87	108.40
1	P	644	GLN	CA-C-N	6.47	124.32	120.24
1	P	644	GLN	C-N-CA	6.47	124.32	120.24
1	0	235	ASP	CB-CA-C	-6.47	109.10	116.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	336	ARG	NE-CZ-NH2	6.47	125.02	119.20
1	b	659	ASP	N-CA-C	6.47	118.41	111.36
1	l	547	GLN	N-CA-C	6.47	117.99	111.07
1	z	167	TRP	O-C-N	-6.47	115.88	123.25
1	0	104	ILE	N-CA-C	6.47	117.22	110.62
1	5	526	ILE	O-C-N	6.47	128.25	121.91
1	i	141	VAL	O-C-N	-6.47	116.20	123.18
1	j	369	ARG	CA-C-N	6.47	128.85	120.44
1	j	369	ARG	C-N-CA	6.47	128.85	120.44
1	l	540	GLY	CA-C-N	6.47	128.94	120.28
1	l	540	GLY	C-N-CA	6.47	128.94	120.28
1	m	226	LEU	CA-C-O	-6.47	113.38	120.69
1	y	301	ARG	CA-C-N	6.47	128.43	120.22
1	y	301	ARG	C-N-CA	6.47	128.43	120.22
1	A	191	HIS	ND1-CE1-NE2	6.47	114.87	108.40
1	G	106	SER	O-C-N	-6.47	115.27	122.12
1	K	428	MET	O-C-N	-6.47	114.78	122.15
1	O	475	ILE	N-CA-C	6.47	116.63	110.42
1	V	309	ASN	N-CA-C	6.47	118.12	111.14
1	4	139	SER	N-CA-C	6.46	122.12	113.72
1	7	710	SER	CA-C-O	6.46	127.25	119.43
1	f	648	ILE	N-CA-C	6.46	116.63	110.42
1	k	123	VAL	N-CA-CB	6.46	119.26	111.31
1	l	241	ILE	CA-CB-CG1	6.46	121.39	110.40
1	o	246	LYS	CA-C-O	6.46	127.82	120.90
1	o	650	GLN	O-C-N	-6.46	115.41	122.07
1	x	544	ASN	CA-C-N	6.46	129.18	120.65
1	x	544	ASN	C-N-CA	6.46	129.18	120.65
1	I	268	VAL	CA-C-N	6.46	131.54	121.26
1	I	268	VAL	C-N-CA	6.46	131.54	121.26
1	N	187	GLU	CA-C-O	6.46	127.40	120.55
1	O	530	ALA	CA-C-O	-6.46	113.70	120.55
1	O	566	ASN	OD1-CG-ND2	-6.46	116.14	122.60
1	V	101	ILE	O-C-N	-6.46	114.49	122.57
1	V	206	HIS	CE1-NE2-CD2	-6.46	102.54	109.00
1	X	552	THR	CA-C-N	6.46	129.65	120.53
1	X	552	THR	C-N-CA	6.46	129.65	120.53
1	a	592	VAL	CA-C-O	6.46	126.31	119.91
1	g	381	HIS	N-CA-C	6.46	119.14	111.71
1	s	638	SER	N-CA-C	6.46	118.33	111.28
1	t	281	GLU	O-C-N	-6.46	114.66	122.22
1	z	164	CYS	CA-C-O	6.46	128.40	121.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	477	HIS	N-CA-C	6.46	117.99	111.07
1	Q	155	LEU	CB-CA-C	-6.46	100.44	110.78
1	S	200	ASN	CA-CB-CG	-6.46	106.14	112.60
1	b	681	GLU	O-C-N	-6.46	115.37	123.12
1	g	360	LEU	O-C-N	-6.46	115.41	122.07
1	j	205	SER	N-CA-C	-6.46	99.59	109.41
1	p	472	VAL	O-C-N	-6.46	115.34	121.87
1	A	267	ASN	CA-C-O	-6.46	113.70	120.55
1	Y	564	ALA	CA-C-N	6.46	128.84	120.44
1	Y	564	ALA	C-N-CA	6.46	128.84	120.44
1	1	332	GLU	CA-C-N	6.46	129.89	120.91
1	1	332	GLU	C-N-CA	6.46	129.89	120.91
1	7	471	LYS	N-CA-C	6.46	118.86	111.11
1	p	629	HIS	O-C-N	-6.46	114.78	122.15
1	E	132	SER	N-CA-CB	6.46	119.75	110.06
1	W	186	VAL	N-CA-C	6.46	116.62	110.42
1	0	364	SER	CA-C-N	6.46	132.46	121.87
1	0	364	SER	C-N-CA	6.46	132.46	121.87
1	2	547	GLN	OE1-CD-NE2	-6.46	116.14	122.60
1	c	357	ARG	CA-C-N	6.46	129.59	120.42
1	c	357	ARG	C-N-CA	6.46	129.59	120.42
1	h	255	ARG	CA-C-N	6.46	128.94	120.28
1	h	255	ARG	C-N-CA	6.46	128.94	120.28
1	i	346	GLU	N-CA-C	6.46	117.98	111.07
1	j	405	ARG	NE-CZ-NH1	6.46	127.96	121.50
1	u	640	ARG	NE-CZ-NH1	6.46	127.96	121.50
1	L	516	ALA	N-CA-C	6.46	117.98	111.07
1	L	686	ALA	CA-C-N	6.46	128.93	120.28
1	L	686	ALA	C-N-CA	6.46	128.93	120.28
1	M	560	HIS	ND1-CE1-NE2	6.46	114.86	108.40
1	O	239	ARG	CA-C-N	6.46	133.32	121.70
1	O	239	ARG	C-N-CA	6.46	133.32	121.70
1	P	314	LEU	CA-C-O	6.46	129.75	120.51
1	T	533	ASN	N-CA-C	6.46	117.98	111.07
1	U	562	ALA	CA-C-N	6.46	128.84	120.44
1	U	562	ALA	C-N-CA	6.46	128.84	120.44
1	X	535	ALA	CA-C-N	6.46	130.13	120.31
1	X	535	ALA	C-N-CA	6.46	130.13	120.31
1	2	226	LEU	CA-C-O	-6.46	114.79	120.60
1	c	561	THR	N-CA-CB	6.46	119.37	110.01
1	h	191	HIS	N-CA-C	-6.46	103.52	111.40
1	h	278	MET	O-C-N	-6.46	115.42	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	o	126	ASP	N-CA-C	6.46	119.27	110.55
1	q	560	HIS	N-CA-C	6.46	119.31	111.82
1	r	373	ARG	N-CA-C	6.46	118.86	111.11
1	B	512	LEU	CA-C-N	6.46	128.69	120.56
1	B	512	LEU	C-N-CA	6.46	128.69	120.56
1	F	681	GLU	N-CA-C	6.46	119.13	110.35
1	I	307	VAL	CA-C-N	6.46	128.93	120.28
1	I	307	VAL	C-N-CA	6.46	128.93	120.28
1	P	105	ASP	O-C-N	-6.46	115.28	122.12
1	R	529	GLN	OE1-CD-NE2	-6.46	116.14	122.60
1	d	290	ILE	O-C-N	-6.46	116.29	123.26
1	k	126	ASP	CA-C-O	6.46	128.20	121.36
1	C	98	ARG	NE-CZ-NH2	-6.46	113.39	119.20
1	E	272	THR	CA-C-N	6.46	129.92	120.82
1	E	272	THR	C-N-CA	6.46	129.92	120.82
1	G	695	ARG	NE-CZ-NH1	6.46	127.95	121.50
1	N	420	PHE	CA-CB-CG	-6.46	107.34	113.80
1	R	357	ARG	NE-CZ-NH1	6.46	127.95	121.50
1	W	502	GLU	N-CA-C	6.46	119.14	111.33
1	X	654	LEU	N-CA-C	-6.46	103.47	112.12
1	0	239	ARG	CA-C-N	6.45	133.31	121.70
1	0	239	ARG	C-N-CA	6.45	133.31	121.70
1	1	474	ASN	N-CA-C	6.45	119.13	111.71
1	4	195	ASN	N-CA-C	6.45	118.31	111.28
1	d	419	MET	N-CA-CB	-6.45	100.64	110.12
1	m	391	GLY	O-C-N	-6.45	116.00	122.19
1	m	690	ARG	N-CA-C	6.45	118.31	111.28
1	n	505	VAL	N-CA-CB	6.45	119.32	110.54
1	q	553	ILE	CB-CG1-CD1	-6.45	100.25	113.80
1	y	341	GLU	N-CA-C	6.45	117.97	111.07
1	C	391	GLY	CA-C-N	6.45	129.25	120.54
1	C	391	GLY	C-N-CA	6.45	129.25	120.54
1	D	94	GLU	N-CA-C	6.45	118.31	111.28
1	G	455	ARG	N-CA-C	6.45	118.31	111.28
1	P	337	LEU	O-C-N	-6.45	115.68	123.10
1	1	644	GLN	N-CA-C	6.45	118.39	111.36
1	k	292	ILE	CA-C-O	6.45	127.43	120.53
1	q	701	GLN	N-CA-C	6.45	117.97	111.07
1	z	555	ASP	CA-CB-CG	6.45	119.05	112.60
1	T	557	LYS	N-CA-C	6.45	118.31	111.28
1	2	343	THR	CA-C-N	6.45	128.92	120.28
1	2	343	THR	C-N-CA	6.45	128.92	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5	329	GLY	O-C-N	-6.45	117.36	123.87
1	e	483	TYR	CB-CA-C	6.45	121.50	110.79
1	s	98	ARG	NE-CZ-NH2	-6.45	113.39	119.20
1	t	410	ASP	CA-CB-CG	6.45	119.05	112.60
1	v	287	ASP	CA-CB-CG	6.45	119.05	112.60
1	X	501	PHE	CA-C-N	6.45	128.83	120.44
1	X	501	PHE	C-N-CA	6.45	128.83	120.44
1	Z	255	ARG	N-CA-C	6.45	119.12	110.35
1	9	648	ILE	N-CA-C	6.45	116.61	110.42
1	j	119	PRO	CB-CA-C	-6.45	101.75	110.52
1	k	206	HIS	ND1-CE1-NE2	6.45	114.85	108.40
1	m	531	PHE	N-CA-CB	6.45	119.32	109.91
1	q	362	GLU	N-CA-C	6.45	117.97	111.07
1	u	370	LEU	N-CA-C	6.45	118.31	111.28
1	B	228	GLY	CA-C-N	6.45	130.19	120.77
1	B	228	GLY	C-N-CA	6.45	130.19	120.77
1	C	237	GLN	OE1-CD-NE2	-6.45	116.15	122.60
1	I	421	PHE	CA-C-N	6.45	128.92	120.28
1	I	421	PHE	C-N-CA	6.45	128.92	120.28
1	J	191	HIS	CG-CD2-NE2	6.45	113.65	107.20
1	N	104	ILE	N-CA-C	6.45	117.20	110.62
1	T	651	TYR	CB-CA-C	6.45	123.25	110.42
1	Z	174	ARG	NE-CZ-NH1	6.45	127.95	121.50
1	8	663	LYS	CA-C-O	6.45	127.40	119.79
1	A	476	ILE	N-CA-CB	6.45	119.31	110.54
1	X	673	ASN	OD1-CG-ND2	-6.45	116.15	122.60
1	1	415	GLU	N-CA-C	6.45	119.13	111.33
1	3	232	VAL	O-C-N	-6.45	116.41	123.18
1	8	137	ALA	CA-C-O	6.45	127.59	120.82
1	e	684	GLU	O-C-N	-6.45	115.43	122.07
1	s	707	CYS	N-CA-C	6.45	118.84	111.11
1	P	412	PRO	CA-C-N	6.45	128.92	120.28
1	P	412	PRO	C-N-CA	6.45	128.92	120.28
1	S	631	ASN	N-CA-CB	-6.45	100.64	110.12
1	U	506	HIS	CE1-NE2-CD2	-6.45	102.55	109.00
1	Y	302	GLY	CA-C-N	6.45	128.92	120.28
1	Y	302	GLY	C-N-CA	6.45	128.92	120.28
1	h	282	VAL	N-CA-C	-6.44	105.29	113.22
1	i	455	ARG	N-CA-C	6.44	118.30	111.28
1	j	405	ARG	CA-C-N	6.44	129.20	120.44
1	j	405	ARG	C-N-CA	6.44	129.20	120.44
1	Q	659	ASP	N-CA-CB	-6.44	100.65	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	442	VAL	CB-CA-C	-6.44	103.60	112.04
1	Y	165	GLU	N-CA-C	6.44	119.33	110.24
1	Z	213	ILE	CA-C-O	6.44	126.78	120.27
1	1	381	HIS	ND1-CE1-NE2	6.44	114.84	108.40
1	5	369	ARG	NE-CZ-NH1	-6.44	115.06	121.50
1	5	395	GLU	N-CA-C	6.44	117.96	111.07
1	a	664	ALA	O-C-N	-6.44	114.86	122.20
1	k	451	TYR	CA-C-N	6.44	128.81	120.44
1	k	451	TYR	C-N-CA	6.44	128.81	120.44
1	l	691	ILE	CB-CA-C	-6.44	103.45	111.70
1	o	510	GLN	OE1-CD-NE2	-6.44	116.16	122.60
1	r	442	VAL	CA-CB-CG1	6.44	121.35	110.40
1	r	458	PHE	O-C-N	-6.44	114.34	122.27
1	v	358	VAL	O-C-N	-6.44	115.62	121.87
1	B	309	ASN	N-CA-CB	-6.44	100.67	110.01
1	7	405	ARG	NE-CZ-NH2	-6.44	113.40	119.20
1	g	369	ARG	NE-CZ-NH2	-6.44	113.40	119.20
1	u	397	HIS	N-CA-C	6.44	119.12	111.71
1	A	312	ARG	N-CA-C	6.44	118.30	111.28
1	B	373	ARG	NE-CZ-NH1	6.44	127.94	121.50
1	E	704	HIS	N-CA-C	6.44	117.96	111.07
1	F	134	VAL	CA-C-N	6.44	128.91	120.28
1	F	134	VAL	C-N-CA	6.44	128.91	120.28
1	I	579	PHE	CA-CB-CG	6.44	120.24	113.80
1	O	648	ILE	N-CA-C	6.44	116.60	110.42
1	S	145	ARG	NE-CZ-NH2	6.44	125.00	119.20
1	U	310	VAL	O-C-N	-6.44	115.60	121.91
1	W	273	THR	CA-C-N	6.44	128.91	120.28
1	W	273	THR	C-N-CA	6.44	128.91	120.28
1	2	283	ASP	CA-CB-CG	6.44	119.04	112.60
1	d	129	SER	CA-C-N	6.44	131.30	121.51
1	d	129	SER	C-N-CA	6.44	131.30	121.51
1	e	457	ASP	CA-CB-CG	-6.44	106.16	112.60
1	q	629	HIS	CG-CD2-NE2	6.44	113.64	107.20
1	J	395	GLU	O-C-N	-6.44	114.81	122.15
1	J	593	ARG	CA-C-N	6.44	130.10	120.31
1	J	593	ARG	C-N-CA	6.44	130.10	120.31
1	0	287	ASP	CA-CB-CG	6.44	119.04	112.60
1	1	483	TYR	CB-CG-CD1	6.44	130.46	120.80
1	7	405	ARG	N-CA-C	6.44	118.30	111.28
1	k	622	SER	CA-C-N	6.44	128.91	120.28
1	k	622	SER	C-N-CA	6.44	128.91	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	l	697	TYR	CA-C-N	6.44	128.81	120.44
1	l	697	TYR	C-N-CA	6.44	128.81	120.44
1	o	484	GLU	O-C-N	-6.44	115.30	122.12
1	v	420	PHE	CA-CB-CG	-6.44	107.36	113.80
1	E	635	LEU	N-CA-C	6.44	117.96	111.07
1	L	624	THR	CA-C-O	6.44	127.24	120.42
1	M	162	GLN	CA-C-N	6.44	127.89	119.84
1	M	162	GLN	C-N-CA	6.44	127.89	119.84
1	N	249	ILE	N-CA-C	6.44	117.12	110.36
1	S	143	LEU	CA-C-N	6.44	127.89	119.84
1	S	143	LEU	C-N-CA	6.44	127.89	119.84
1	W	353	HIS	CG-CD2-NE2	6.44	113.64	107.20
1	a	195	ASN	O-C-N	-6.44	115.14	122.09
1	c	537	LYS	N-CA-C	6.44	118.30	111.28
1	l	501	PHE	CA-C-O	6.44	127.37	120.55
1	t	252	TYR	N-CA-C	6.44	118.09	111.14
1	x	303	THR	CA-C-N	6.44	128.81	120.44
1	x	303	THR	C-N-CA	6.44	128.81	120.44
1	A	484	GLU	N-CA-C	6.44	118.30	111.28
1	D	156	VAL	O-C-N	-6.44	115.89	123.03
1	5	668	ILE	CA-C-O	6.43	127.67	120.85
1	b	173	TYR	CA-C-O	6.43	127.07	119.28
1	b	218	VAL	N-CA-C	6.43	116.04	108.96
1	j	102	ASP	CA-CB-CG	-6.43	106.17	112.60
1	m	577	MET	O-C-N	-6.43	115.51	123.04
1	p	412	PRO	CB-CA-C	6.43	117.25	111.40
1	s	145	ARG	CA-C-O	6.43	127.37	120.55
1	D	251	LYS	CA-C-O	-6.43	113.68	120.63
1	H	200	ASN	CA-C-N	6.43	127.11	122.16
1	H	200	ASN	C-N-CA	6.43	127.11	122.16
1	I	699	LEU	CA-C-O	6.43	127.58	120.82
1	J	675	TYR	CA-C-N	6.43	129.19	120.44
1	J	675	TYR	C-N-CA	6.43	129.19	120.44
1	L	357	ARG	CG-CD-NE	-6.43	97.85	112.00
1	O	593	ARG	N-CA-C	6.43	117.95	111.07
1	S	258	THR	N-CA-CB	6.43	119.78	110.06
1	T	527	ILE	N-CA-C	6.43	116.60	110.42
1	3	108	ARG	NE-CZ-NH2	-6.43	113.41	119.20
1	4	623	PHE	N-CA-CB	-6.43	100.66	110.12
1	6	536	LYS	O-C-N	6.43	128.94	122.12
1	8	144	PRO	N-CA-CB	6.43	108.72	103.32
1	9	231	ARG	NE-CZ-NH1	-6.43	115.07	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	p	395	GLU	CA-C-N	6.43	128.80	120.44
1	p	395	GLU	C-N-CA	6.43	128.80	120.44
1	r	397	HIS	CE1-NE2-CD2	-6.43	102.57	109.00
1	B	533	ASN	CB-CA-C	6.43	120.98	110.88
1	G	290	ILE	CA-C-N	6.43	128.02	122.29
1	G	290	ILE	C-N-CA	6.43	128.02	122.29
1	W	591	LYS	N-CA-CB	6.43	120.66	109.72
1	l	450	LEU	N-CA-C	6.43	118.29	111.28
1	d	193	ALA	N-CA-C	6.43	119.11	111.33
1	e	301	ARG	CA-C-N	6.43	127.12	119.98
1	e	301	ARG	C-N-CA	6.43	127.12	119.98
1	e	414	GLN	CA-C-N	6.43	128.80	120.44
1	e	414	GLN	C-N-CA	6.43	128.80	120.44
1	f	636	GLU	N-CA-C	6.43	120.33	112.23
1	X	525	GLU	CA-C-N	6.43	128.90	120.60
1	X	525	GLU	C-N-CA	6.43	128.90	120.60
1	Z	528	GLN	O-C-N	-6.43	115.40	122.09
1	9	688	LYS	N-CA-C	6.43	118.29	111.28
1	a	354	PRO	CA-C-N	6.43	128.90	120.28
1	a	354	PRO	C-N-CA	6.43	128.90	120.28
1	c	674	ARG	NE-CZ-NH2	6.43	124.99	119.20
1	e	283	ASP	CB-CA-C	6.43	119.12	111.15
1	l	375	THR	CA-CB-OG1	6.43	119.25	109.60
1	x	521	GLN	O-C-N	-6.43	115.45	122.07
1	D	455	ARG	NE-CZ-NH2	-6.43	113.41	119.20
1	F	253	ILE	CA-CB-CG1	6.43	121.33	110.40
1	F	373	ARG	NE-CZ-NH2	-6.43	113.41	119.20
1	H	534	VAL	N-CA-C	6.43	120.06	111.44
1	U	652	PHE	CA-C-N	6.43	128.90	120.28
1	U	652	PHE	C-N-CA	6.43	128.90	120.28
1	V	639	LYS	CA-C-O	-6.43	113.73	120.55
1	t	137	ALA	O-C-N	-6.43	114.70	122.22
1	7	414	GLN	CA-C-N	6.43	128.89	120.28
1	7	414	GLN	C-N-CA	6.43	128.89	120.28
1	a	206	HIS	ND1-CE1-NE2	6.43	114.83	108.40
1	k	462	VAL	CA-C-N	6.43	127.25	119.99
1	k	462	VAL	C-N-CA	6.43	127.25	119.99
1	n	217	GLU	N-CA-C	6.43	118.08	111.14
1	n	493	LEU	CA-C-N	6.43	127.44	120.44
1	n	493	LEU	C-N-CA	6.43	127.44	120.44
1	s	520	LEU	CA-C-N	6.43	128.79	120.44
1	s	520	LEU	C-N-CA	6.43	128.79	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	451	TYR	O-C-N	-6.43	115.31	122.12
1	I	562	ALA	CA-C-N	6.43	129.18	120.44
1	I	562	ALA	C-N-CA	6.43	129.18	120.44
1	M	340	ALA	N-CA-C	6.43	117.95	111.07
1	N	440	GLU	O-C-N	-6.43	114.31	122.34
1	W	560	HIS	CA-CB-CG	-6.43	107.37	113.80
1	1	400	ALA	CB-CA-C	6.42	121.45	110.79
1	3	530	ALA	N-CA-C	6.42	118.28	111.28
1	5	235	ASP	CA-C-N	6.42	129.88	120.82
1	5	235	ASP	C-N-CA	6.42	129.88	120.82
1	5	347	ILE	N-CA-CB	6.42	118.07	110.55
1	a	677	TRP	CD2-CE2-CZ2	-6.42	115.98	122.40
1	g	474	ASN	CA-CB-CG	6.42	119.02	112.60
1	h	339	LEU	CA-C-N	6.42	128.89	120.28
1	h	339	LEU	C-N-CA	6.42	128.89	120.28
1	j	554	GLU	CA-C-O	-6.42	114.07	120.82
1	j	703	ARG	O-C-N	-6.42	115.15	122.09
1	r	122	ALA	N-CA-C	6.42	119.41	109.07
1	w	369	ARG	NE-CZ-NH2	-6.42	113.42	119.20
1	F	246	LYS	CA-C-N	6.42	128.89	120.28
1	F	246	LYS	C-N-CA	6.42	128.89	120.28
1	I	637	THR	CA-CB-CG2	6.42	121.42	110.50
1	M	307	VAL	N-CA-C	6.42	117.17	110.62
1	M	592	VAL	CA-C-O	6.42	127.63	120.95
1	V	256	GLN	CA-C-O	6.42	127.56	120.82
1	V	293	LEU	CA-C-O	6.42	127.45	120.58
1	0	345	LYS	CA-C-N	6.42	128.79	120.44
1	0	345	LYS	C-N-CA	6.42	128.79	120.44
1	8	261	LEU	CA-C-O	6.42	127.14	120.40
1	j	425	LYS	N-CA-CB	6.42	119.32	110.01
1	o	707	CYS	CA-C-N	6.42	128.89	120.28
1	o	707	CYS	C-N-CA	6.42	128.89	120.28
1	G	285	GLU	N-CA-C	-6.42	104.06	112.41
1	3	443	VAL	N-CA-C	6.42	118.88	109.63
1	8	557	LYS	N-CA-CB	6.42	119.28	109.91
1	e	120	ALA	O-C-N	-6.42	116.29	123.48
1	r	297	ASP	CA-C-O	6.42	126.47	119.15
1	r	484	GLU	N-CA-C	6.42	119.10	111.33
1	y	543	PHE	CA-CB-CG	6.42	120.22	113.80
1	E	525	GLU	N-CA-C	6.42	118.82	111.11
1	M	663	LYS	CA-C-O	6.42	127.56	120.82
1	N	491	GLU	N-CA-CB	6.42	121.42	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	344	LYS	O-C-N	-6.42	115.31	122.12
1	Z	667	GLN	OE1-CD-NE2	-6.42	116.18	122.60
1	P	236	ASN	CA-CB-CG	6.42	119.02	112.60
1	Y	313	ASN	N-CA-CB	-6.42	100.38	110.46
1	3	327	CYS	N-CA-C	6.42	119.22	110.55
1	5	444	ARG	CD-NE-CZ	6.42	133.39	124.40
1	6	555	ASP	N-CA-C	6.42	118.28	111.28
1	a	664	ALA	CA-C-O	6.42	127.39	120.20
1	b	488	ARG	NE-CZ-NH1	-6.42	115.08	121.50
1	c	629	HIS	O-C-N	-6.42	114.38	122.27
1	h	397	HIS	N-CA-C	6.42	117.94	111.07
1	q	248	LEU	CA-C-N	6.42	129.25	120.46
1	q	248	LEU	C-N-CA	6.42	129.25	120.46
1	x	509	ILE	CA-CB-CG1	6.42	121.31	110.40
1	A	376	THR	CA-C-N	6.42	128.88	120.28
1	A	376	THR	C-N-CA	6.42	128.88	120.28
1	D	154	PRO	N-CA-CB	6.42	109.02	103.31
1	D	452	ASN	CA-CB-CG	-6.42	106.18	112.60
1	F	459	LYS	N-CA-C	6.42	119.10	111.33
1	T	108	ARG	CA-C-N	6.42	129.20	120.54
1	T	108	ARG	C-N-CA	6.42	129.20	120.54
1	X	555	ASP	N-CA-C	6.42	118.28	111.28
1	3	130	GLY	CA-C-N	6.42	129.17	120.38
1	3	130	GLY	C-N-CA	6.42	129.17	120.38
1	f	272	THR	N-CA-CB	6.42	119.55	110.12
1	j	243	LEU	O-C-N	-6.42	115.46	122.07
1	m	580	CYS	O-C-N	-6.42	114.06	122.59
1	z	108	ARG	N-CA-CB	-6.42	100.71	110.01
1	C	215	SER	O-C-N	-6.42	115.87	121.71
1	S	254	GLN	CA-C-N	6.42	130.68	121.50
1	S	254	GLN	C-N-CA	6.42	130.68	121.50
1	Z	351	GLN	CB-CG-CD	6.42	123.51	112.60
1	8	529	GLN	CA-C-O	6.42	127.35	120.55
1	c	271	ALA	O-C-N	-6.42	115.46	122.07
1	K	631	ASN	CA-C-O	6.42	127.22	120.42
1	3	511	GLN	OE1-CD-NE2	-6.41	116.19	122.60
1	q	629	HIS	CB-CG-CD2	-6.41	122.86	131.20
1	v	235	ASP	N-CA-C	6.41	124.46	110.80
1	x	547	GLN	O-C-N	-6.41	115.32	122.12
1	R	410	ASP	CA-C-N	6.41	133.25	121.70
1	R	410	ASP	C-N-CA	6.41	133.25	121.70
1	d	689	ARG	NE-CZ-NH1	6.41	127.91	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	g	625	GLU	N-CA-C	6.41	119.09	111.33
1	l	539	PHE	CA-CB-CG	6.41	120.21	113.80
1	8	307	VAL	CA-C-N	6.41	129.39	120.29
1	8	307	VAL	C-N-CA	6.41	129.39	120.29
1	h	102	ASP	O-C-N	-6.41	113.74	122.33
1	j	301	ARG	O-C-N	-6.41	114.52	123.11
1	l	398	GLN	CA-C-N	6.41	129.19	120.54
1	l	398	GLN	C-N-CA	6.41	129.19	120.54
1	p	351	GLN	CB-CG-CD	6.41	123.50	112.60
1	s	508	TYR	CB-CG-CD1	-6.41	111.19	120.80
1	v	490	LYS	CA-C-O	6.41	127.21	120.42
1	z	667	GLN	CA-C-N	6.41	128.87	120.60
1	z	667	GLN	C-N-CA	6.41	128.87	120.60
1	C	188	LYS	O-C-N	-6.41	115.32	122.12
1	D	647	PHE	CA-C-N	6.41	129.52	120.42
1	D	647	PHE	C-N-CA	6.41	129.52	120.42
1	F	690	ARG	NE-CZ-NH1	6.41	127.91	121.50
1	V	655	ARG	CB-CG-CD	6.41	126.04	111.30
1	X	140	GLY	O-C-N	-6.41	114.37	122.32
1	X	170	ARG	O-C-N	-6.41	116.09	123.33
1	X	709	PHE	N-CA-C	6.41	118.27	111.28
1	l	226	LEU	N-CA-CB	6.41	118.94	110.29
1	l	328	ARG	NH1-CZ-NH2	-6.41	110.97	119.30
1	9	218	VAL	O-C-N	-6.41	114.22	121.14
1	g	470	GLN	N-CA-C	6.41	118.27	111.28
1	h	696	ILE	CA-CB-CG1	6.41	121.30	110.40
1	o	239	ARG	NE-CZ-NH2	6.41	124.97	119.20
1	s	278	MET	N-CA-C	6.41	118.35	111.36
1	u	655	ARG	NE-CZ-NH2	6.41	124.97	119.20
1	y	278	MET	N-CA-C	6.41	118.26	111.28
1	y	374	LEU	O-C-N	-6.41	115.22	122.08
1	D	301	ARG	N-CA-CB	6.41	119.39	109.97
1	D	367	VAL	N-CA-C	6.41	116.01	108.96
1	F	222	THR	CB-CA-C	6.41	121.44	109.71
1	I	271	ALA	O-C-N	-6.41	115.33	122.12
1	S	382	ILE	N-CA-C	6.41	117.19	110.72
1	3	650	GLN	O-C-N	-6.41	114.72	122.22
1	j	405	ARG	N-CA-C	6.41	117.92	111.07
1	p	567	MET	CG-SD-CE	-6.41	86.81	100.90
1	y	549	VAL	N-CA-CB	6.41	118.05	110.55
1	B	420	PHE	CA-CB-CG	-6.41	107.39	113.80
1	P	514	GLU	O-C-N	-6.41	114.69	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8	455	ARG	NE-CZ-NH1	6.41	127.91	121.50
1	b	503	ILE	N-CA-CB	6.41	119.25	110.54
1	p	409	ALA	O-C-N	-6.41	114.07	122.59
1	t	236	ASN	O-C-N	-6.41	115.05	122.93
1	H	389	LEU	CA-C-N	6.41	129.15	120.44
1	H	389	LEU	C-N-CA	6.41	129.15	120.44
1	J	694	GLU	O-C-N	-6.41	115.47	122.07
1	S	95	GLN	OE1-CD-NE2	-6.41	116.19	122.60
1	3	353	HIS	CA-CB-CG	-6.40	107.40	113.80
1	g	538	HIS	N-CA-CB	6.40	119.80	110.26
1	Q	361	GLU	CA-C-N	6.40	131.41	120.72
1	Q	361	GLU	C-N-CA	6.40	131.41	120.72
1	4	636	GLU	N-CA-C	6.40	117.95	110.97
1	7	163	PRO	CA-C-N	6.40	130.42	120.75
1	7	163	PRO	C-N-CA	6.40	130.42	120.75
1	a	673	ASN	OD1-CG-ND2	-6.40	116.20	122.60
1	c	519	MET	N-CA-C	6.40	119.07	111.71
1	e	428	MET	O-C-N	-6.40	114.85	122.15
1	i	575	GLU	N-CA-CB	6.40	119.53	110.12
1	B	424	GLU	O-C-N	-6.40	115.47	122.07
1	N	652	PHE	N-CA-C	6.40	119.50	111.24
1	X	328	ARG	CA-C-O	6.40	127.33	120.10
1	5	291	GLY	CA-C-O	-6.40	115.82	121.58
1	r	683	SER	CA-CB-OG	6.40	123.90	111.10
1	v	655	ARG	N-CA-C	6.40	117.95	110.97
1	z	145	ARG	NE-CZ-NH2	6.40	124.96	119.20
1	B	592	VAL	O-C-N	-6.40	115.64	121.91
1	D	497	ASN	CA-C-N	6.40	129.50	120.28
1	D	497	ASN	C-N-CA	6.40	129.50	120.28
1	T	709	PHE	N-CA-C	6.40	117.92	111.07
1	V	506	HIS	CG-CD2-NE2	6.40	113.60	107.20
1	c	235	ASP	CB-CA-C	6.40	123.15	110.42
1	d	145	ARG	NE-CZ-NH1	6.40	127.90	121.50
1	f	521	GLN	CA-C-O	6.40	127.29	120.70
1	n	560	HIS	CE1-NE2-CD2	-6.40	102.60	109.00
1	A	696	ILE	CA-C-N	6.40	129.18	120.54
1	A	696	ILE	C-N-CA	6.40	129.18	120.54
1	D	304	GLU	CA-C-N	6.40	128.76	120.44
1	D	304	GLU	C-N-CA	6.40	128.76	120.44
1	M	468	ASN	OD1-CG-ND2	-6.40	116.20	122.60
1	P	709	PHE	N-CA-CB	-6.40	100.36	110.28
1	U	134	VAL	CA-C-N	6.40	129.38	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	134	VAL	C-N-CA	6.40	129.38	120.29
1	Z	543	PHE	N-CA-CB	-6.40	100.73	110.01
1	8	343	THR	CA-CB-CG2	6.40	121.38	110.50
1	g	185	GLN	CA-C-N	6.40	129.22	120.46
1	g	185	GLN	C-N-CA	6.40	129.22	120.46
1	i	541	GLU	O-C-N	-6.40	115.48	122.07
1	k	506	HIS	CA-CB-CG	6.40	120.20	113.80
1	E	558	VAL	CA-C-O	-6.40	114.07	120.85
1	K	338	SER	N-CA-C	6.40	118.28	110.41
1	O	273	THR	O-C-N	-6.40	115.74	123.10
1	P	546	ASN	N-CA-C	6.40	118.25	111.28
1	S	369	ARG	CA-C-N	6.40	130.03	120.31
1	S	369	ARG	C-N-CA	6.40	130.03	120.31
1	V	706	LEU	N-CA-C	6.40	118.33	111.36
1	p	353	HIS	CA-CB-CG	6.40	120.20	113.80
1	u	210	SER	O-C-N	-6.40	115.75	123.10
1	v	538	HIS	CE1-NE2-CD2	-6.40	102.60	109.00
1	x	526	ILE	CA-C-N	6.40	128.52	120.72
1	x	526	ILE	C-N-CA	6.40	128.52	120.72
1	A	255	ARG	NH1-CZ-NH2	-6.40	110.98	119.30
1	K	636	GLU	O-C-N	-6.40	114.86	122.15
1	5	252	TYR	CA-C-O	-6.39	113.71	120.55
1	9	343	THR	CA-C-N	6.39	128.85	120.28
1	9	343	THR	C-N-CA	6.39	128.85	120.28
1	q	457	ASP	N-CA-C	6.39	118.25	111.28
1	r	512	LEU	CA-C-O	6.39	125.81	118.97
1	t	521	GLN	CB-CA-C	-6.39	100.84	110.88
1	D	405	ARG	NH1-CZ-NH2	-6.39	110.99	119.30
1	G	373	ARG	NH1-CZ-NH2	-6.39	110.99	119.30
1	N	626	ILE	N-CA-CB	6.39	120.17	110.58
1	O	442	VAL	N-CA-C	6.39	116.45	107.37
1	T	641	LEU	CA-C-N	6.39	128.85	120.28
1	T	641	LEU	C-N-CA	6.39	128.85	120.28
1	X	430	ASN	O-C-N	-6.39	114.74	122.22
1	Z	305	LYS	CA-C-N	6.39	129.37	120.29
1	Z	305	LYS	C-N-CA	6.39	129.37	120.29
1	6	690	ARG	NE-CZ-NH1	6.39	127.89	121.50
1	a	168	ALA	CA-C-N	6.39	127.93	121.35
1	a	168	ALA	C-N-CA	6.39	127.93	121.35
1	h	252	TYR	CA-CB-CG	-6.39	102.39	113.90
1	G	544	ASN	CA-C-N	6.39	128.75	120.44
1	G	544	ASN	C-N-CA	6.39	128.75	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	574	MET	CG-SD-CE	-6.39	86.84	100.90
1	Y	698	ARG	N-CA-C	6.39	119.06	111.33
1	6	519	MET	CA-C-O	6.39	127.53	120.82
1	r	674	ARG	NE-CZ-NH1	-6.39	115.11	121.50
1	G	585	TYR	CA-C-O	-6.39	113.78	120.55
1	a	681	GLU	CA-C-O	6.39	128.47	121.06
1	m	447	GLU	CA-C-O	6.39	128.34	121.44
1	n	130	GLY	CA-C-O	-6.39	112.77	118.77
1	B	559	LYS	N-CA-C	6.39	117.93	110.97
1	D	108	ARG	O-C-N	6.39	128.89	122.12
1	J	443	VAL	O-C-N	-6.39	115.71	122.67
1	L	355	TYR	CA-C-O	-6.39	113.15	120.24
1	0	573	ARG	CA-C-O	6.39	127.32	120.55
1	n	158	LYS	CA-C-O	6.39	127.34	120.38
1	y	382	ILE	CA-C-O	-6.39	114.63	121.27
1	D	513	VAL	N-CA-C	6.39	116.50	110.30
1	M	287	ASP	CA-CB-CG	-6.39	106.21	112.60
1	M	562	ALA	CA-C-N	6.39	128.84	120.28
1	M	562	ALA	C-N-CA	6.39	128.84	120.28
1	4	670	GLN	N-CA-C	6.39	117.90	111.07
1	4	694	GLU	N-CA-C	6.39	117.90	111.07
1	d	153	CYS	CA-C-N	6.39	127.82	119.84
1	d	153	CYS	C-N-CA	6.39	127.82	119.84
1	e	482	LYS	N-CA-C	6.39	119.06	111.33
1	h	239	ARG	NE-CZ-NH2	6.39	124.95	119.20
1	u	246	LYS	O-C-N	6.39	128.65	122.07
1	y	136	GLU	CA-C-N	6.39	129.13	120.38
1	y	136	GLU	C-N-CA	6.39	129.13	120.38
1	A	235	ASP	CA-CB-CG	6.39	118.99	112.60
1	D	100	CYS	N-CA-C	6.39	118.24	111.28
1	G	138	LEU	CB-CA-C	-6.39	100.19	110.79
1	G	373	ARG	O-C-N	-6.39	114.87	122.15
1	J	695	ARG	NE-CZ-NH1	6.39	127.89	121.50
1	M	174	ARG	NE-CZ-NH2	6.39	124.95	119.20
1	P	514	GLU	CA-C-N	6.39	125.96	119.19
1	P	514	GLU	C-N-CA	6.39	125.96	119.19
1	Q	543	PHE	CA-C-O	6.39	127.28	120.70
1	V	583	GLN	CB-CG-CD	6.39	123.46	112.60
1	W	271	ALA	CA-C-N	6.39	129.13	120.44
1	W	271	ALA	C-N-CA	6.39	129.13	120.44
1	5	593	ARG	NH1-CZ-NH2	-6.38	111.00	119.30
1	7	686	ALA	O-C-N	-6.38	114.87	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	310	VAL	N-CA-C	6.38	119.07	111.09
1	c	153	CYS	CA-C-O	-6.38	112.38	120.04
1	c	690	ARG	CA-C-N	6.38	128.60	120.56
1	c	690	ARG	C-N-CA	6.38	128.60	120.56
1	f	595	GLU	CA-C-O	6.38	126.07	119.05
1	j	565	GLU	N-CA-C	6.38	118.24	111.28
1	m	262	VAL	CA-C-O	6.38	128.12	120.65
1	s	455	ARG	NE-CZ-NH1	6.38	127.88	121.50
1	E	499	LYS	CA-C-N	6.38	130.02	120.31
1	E	499	LYS	C-N-CA	6.38	130.02	120.31
1	K	695	ARG	N-CA-C	6.38	117.90	111.07
1	S	148	GLY	CA-C-N	6.38	133.46	121.97
1	S	148	GLY	C-N-CA	6.38	133.46	121.97
1	T	385	SER	CA-C-N	6.38	128.07	120.09
1	T	385	SER	C-N-CA	6.38	128.07	120.09
1	U	623	PHE	CA-C-O	6.38	128.07	120.92
1	W	401	THR	N-CA-CB	6.38	119.61	110.16
1	Z	175	ASN	OD1-CG-ND2	-6.38	116.22	122.60
1	f	135	LEU	N-CA-C	6.38	118.24	111.28
1	l	535	ALA	CA-C-N	6.38	128.83	120.28
1	l	535	ALA	C-N-CA	6.38	128.83	120.28
1	z	535	ALA	O-C-N	-6.38	115.35	122.12
1	A	213	ILE	O-C-N	-6.38	115.97	123.05
1	O	495	PHE	CA-CB-CG	-6.38	107.42	113.80
1	l	468	ASN	CA-CB-CG	-6.38	106.22	112.60
1	9	405	ARG	O-C-N	-6.38	115.36	122.12
1	e	132	SER	N-CA-C	6.38	119.22	111.82
1	g	191	HIS	CE1-NE2-CD2	-6.38	102.62	109.00
1	n	472	VAL	O-C-N	-6.38	114.78	122.06
1	t	280	HIS	CG-CD2-NE2	6.38	113.58	107.20
1	u	461	TRP	N-CA-C	6.38	118.24	111.28
1	v	573	ARG	N-CA-C	6.38	119.05	111.33
1	w	528	GLN	O-C-N	-6.38	115.36	122.12
1	x	301	ARG	O-C-N	-6.38	114.87	123.10
1	A	483	TYR	CA-C-O	-6.38	114.12	120.82
1	D	581	GLN	CB-CG-CD	6.38	123.45	112.60
1	E	640	ARG	NH1-CZ-NH2	-6.38	111.00	119.30
1	T	390	GLU	N-CA-C	6.38	118.23	111.28
1	L	381	HIS	CE1-NE2-CD2	-6.38	102.62	109.00
1	X	436	LEU	CA-C-N	6.38	130.76	120.55
1	X	436	LEU	C-N-CA	6.38	130.76	120.55
1	2	550	GLN	OE1-CD-NE2	-6.38	116.22	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8	245	ILE	CB-CA-C	6.38	120.05	111.88
1	f	441	GLU	CA-C-O	6.38	128.28	121.45
1	f	461	TRP	CA-C-N	6.38	129.20	120.46
1	f	461	TRP	C-N-CA	6.38	129.20	120.46
1	g	630	LEU	CA-C-O	6.38	127.31	120.55
1	i	278	MET	O-C-N	-6.38	114.88	122.15
1	L	236	ASN	CA-C-N	6.38	128.81	120.26
1	L	236	ASN	C-N-CA	6.38	128.81	120.26
1	N	443	VAL	N-CA-CB	-6.38	104.39	111.66
1	X	421	PHE	O-C-N	-6.38	115.36	122.12
1	1	259	ILE	N-CA-CB	6.38	118.27	111.00
1	4	506	HIS	CB-CG-CD2	-6.38	122.91	131.20
1	c	96	LYS	CA-C-N	6.38	128.60	120.56
1	c	96	LYS	C-N-CA	6.38	128.60	120.56
1	k	334	THR	CA-C-O	-6.38	113.79	120.55
1	n	449	ARG	O-C-N	-6.38	115.33	122.86
1	o	98	ARG	O-C-N	-6.38	114.49	120.55
1	s	490	LYS	N-CA-C	6.38	118.23	111.28
1	v	390	GLU	N-CA-C	6.38	117.89	111.07
1	w	530	ALA	N-CA-C	6.38	118.23	111.28
1	D	197	MET	CA-C-N	6.38	129.46	120.28
1	D	197	MET	C-N-CA	6.38	129.46	120.28
1	J	456	GLU	N-CA-C	6.38	118.23	111.28
1	N	190	ILE	O-C-N	-6.38	115.69	121.87
1	P	130	GLY	N-CA-C	-6.38	106.33	115.64
1	Q	370	LEU	O-C-N	-6.38	115.36	122.12
1	U	380	MET	CG-SD-CE	-6.38	86.87	100.90
1	1	472	VAL	O-C-N	-6.38	115.69	121.87
1	8	123	VAL	CA-C-N	6.38	130.59	122.37
1	8	123	VAL	C-N-CA	6.38	130.59	122.37
1	9	456	GLU	O-C-N	-6.38	115.36	122.12
1	r	231	ARG	NE-CZ-NH2	6.38	124.94	119.20
1	r	647	PHE	N-CA-C	6.38	119.04	111.33
1	B	386	LEU	CA-C-N	6.38	125.95	119.19
1	B	386	LEU	C-N-CA	6.38	125.95	119.19
1	C	361	GLU	O-C-N	-6.38	115.36	122.12
1	D	253	ILE	CA-C-O	6.38	125.02	118.96
1	H	214	THR	O-C-N	-6.38	115.75	123.27
1	M	181	GLN	CB-CA-C	-6.38	107.42	116.34
1	P	195	ASN	CA-C-O	6.38	127.27	120.70
1	Q	428	MET	CA-C-N	6.38	129.15	120.54
1	Q	428	MET	C-N-CA	6.38	129.15	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	105	ASP	CA-CB-CG	6.38	118.97	112.60
1	l	688	LYS	O-C-N	-6.37	114.89	122.15
1	b	419	MET	N-CA-C	6.37	118.76	111.11
1	k	368	PRO	N-CA-C	6.37	121.08	111.14
1	l	506	HIS	CE1-NE2-CD2	-6.37	102.63	109.00
1	o	487	TYR	O-C-N	-6.37	115.50	122.07
1	p	358	VAL	N-CA-CB	-6.37	103.67	110.62
1	v	636	GLU	N-CA-C	6.37	118.23	111.28
1	A	540	GLY	N-CA-C	6.37	120.61	112.83
1	D	444	ARG	O-C-N	-6.37	115.58	122.85
1	D	636	GLU	N-CA-C	6.37	118.23	111.28
1	O	436	LEU	N-CA-C	6.37	117.89	111.07
1	X	588	VAL	O-C-N	-6.37	115.69	121.87
1	3	477	HIS	ND1-CE1-NE2	6.37	114.77	108.40
1	7	136	GLU	CB-CG-CD	6.37	123.43	112.60
1	c	126	ASP	CA-C-N	6.37	129.46	120.28
1	c	126	ASP	C-N-CA	6.37	129.46	120.28
1	g	272	THR	N-CA-CB	6.37	119.69	110.20
1	r	390	GLU	CA-C-O	6.37	127.30	120.10
1	u	593	ARG	N-CA-C	6.37	118.22	111.28
1	w	318	LEU	O-C-N	-6.37	114.03	122.57
1	z	542	PHE	O-C-N	-6.37	115.10	123.13
1	F	487	TYR	N-CA-C	6.37	119.04	111.33
1	F	708	GLN	OE1-CD-NE2	-6.37	116.23	122.60
1	J	399	LYS	N-CA-C	6.37	118.22	111.28
1	L	698	ARG	N-CA-C	6.37	117.91	110.97
1	R	437	VAL	O-C-N	-6.37	115.69	121.87
1	R	554	GLU	N-CA-C	6.37	119.21	111.82
1	R	680	GLN	OE1-CD-NE2	6.37	128.97	122.60
1	U	444	ARG	O-C-N	-6.37	114.12	122.59
1	Y	653	MET	N-CA-C	-6.37	105.16	113.12
1	Z	403	GLU	CA-C-N	6.37	128.82	120.28
1	Z	403	GLU	C-N-CA	6.37	128.82	120.28
1	d	554	GLU	CB-CG-CD	6.37	123.43	112.60
1	q	417	ASP	O-C-N	-6.37	114.89	122.15
1	F	559	LYS	N-CA-C	6.37	118.22	111.28
1	G	329	GLY	O-C-N	-6.37	114.42	122.70
1	H	689	ARG	NH1-CZ-NH2	-6.37	111.02	119.30
1	I	704	HIS	CG-CD2-NE2	6.37	113.57	107.20
1	Q	356	PHE	N-CA-C	6.37	117.91	110.97
1	2	264	VAL	CA-C-N	6.37	126.39	119.89
1	2	264	VAL	C-N-CA	6.37	126.39	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3	205	SER	CA-C-N	6.37	129.45	120.28
1	3	205	SER	C-N-CA	6.37	129.45	120.28
1	8	682	GLN	N-CA-C	6.37	119.71	110.28
1	f	271	ALA	CA-C-N	6.37	128.81	120.28
1	f	271	ALA	C-N-CA	6.37	128.81	120.28
1	f	309	ASN	N-CA-C	6.37	117.89	111.07
1	g	225	ASP	CA-C-N	6.37	130.36	120.68
1	g	225	ASP	C-N-CA	6.37	130.36	120.68
1	i	540	GLY	CA-C-N	6.37	128.72	120.44
1	i	540	GLY	C-N-CA	6.37	128.72	120.44
1	x	128	SER	N-CA-C	-6.37	104.77	113.30
1	E	264	VAL	CA-C-O	-6.37	116.63	119.94
1	G	471	LYS	N-CA-C	6.37	118.30	111.36
1	H	239	ARG	CA-C-N	6.37	133.16	121.70
1	H	239	ARG	C-N-CA	6.37	133.16	121.70
1	K	560	HIS	CA-C-N	6.37	128.72	120.44
1	K	560	HIS	C-N-CA	6.37	128.72	120.44
1	Q	377	GLU	N-CA-CB	-6.37	100.76	110.12
1	R	304	GLU	N-CA-C	6.37	118.30	111.36
1	0	360	LEU	N-CA-C	6.37	118.30	111.36
1	5	575	GLU	N-CA-C	6.37	120.15	112.38
1	q	266	CYS	N-CA-C	6.37	119.03	111.71
1	r	666	MET	CA-C-O	6.37	127.29	119.97
1	F	392	GLN	N-CA-C	6.37	118.22	111.28
1	3	297	ASP	N-CA-CB	-6.37	101.32	110.80
1	4	355	TYR	N-CA-CB	6.37	119.48	110.12
1	5	389	LEU	N-CA-C	6.37	118.22	111.28
1	6	513	VAL	N-CA-C	6.37	117.04	110.36
1	h	552	THR	N-CA-CB	6.37	119.48	110.12
1	k	583	GLN	N-CA-C	6.37	118.22	111.28
1	v	560	HIS	CB-CG-ND1	6.37	132.25	122.70
1	J	304	GLU	N-CA-C	6.37	117.88	111.07
1	O	397	HIS	O-C-N	-6.37	114.89	122.15
1	Q	690	ARG	NE-CZ-NH2	-6.37	113.47	119.20
1	X	390	GLU	N-CA-C	6.37	118.30	111.36
1	X	575	GLU	O-C-N	-6.37	114.94	122.20
1	2	347	ILE	CA-C-N	6.36	128.71	120.44
1	2	347	ILE	C-N-CA	6.36	128.71	120.44
1	8	639	LYS	N-CA-CB	6.36	119.24	110.01
1	c	174	ARG	NE-CZ-NH1	6.36	127.86	121.50
1	g	239	ARG	CA-C-N	6.36	133.16	121.70
1	g	239	ARG	C-N-CA	6.36	133.16	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	u	530	ALA	CA-C-O	6.36	127.71	120.90
1	y	204	ILE	CA-C-O	6.36	127.76	120.76
1	y	427	LYS	N-CA-C	6.36	118.22	111.28
1	A	98	ARG	O-C-N	-6.36	114.73	120.71
1	F	622	SER	CA-C-N	6.36	129.13	120.54
1	F	622	SER	C-N-CA	6.36	129.13	120.54
1	I	333	ILE	N-CA-CB	-6.36	105.21	112.21
1	V	164	CYS	CA-C-N	6.36	133.69	121.54
1	V	164	CYS	C-N-CA	6.36	133.69	121.54
1	u	303	THR	CA-CB-OG1	6.36	119.14	109.60
1	A	568	ILE	O-C-N	-6.36	115.67	121.91
1	D	552	THR	N-CA-C	6.36	117.88	111.07
1	4	416	ALA	N-CA-CB	-6.36	100.79	110.01
1	9	376	THR	CA-C-O	6.36	128.07	121.07
1	d	703	ARG	NE-CZ-NH2	6.36	124.92	119.20
1	m	298	LEU	N-CA-C	6.36	119.20	111.82
1	x	689	ARG	NE-CZ-NH2	-6.36	113.47	119.20
1	A	566	ASN	O-C-N	-6.36	115.52	122.07
1	D	640	ARG	NE-CZ-NH1	6.36	127.86	121.50
1	P	306	SER	O-C-N	-6.36	115.52	122.07
1	P	417	ASP	CA-C-N	6.36	129.13	120.54
1	P	417	ASP	C-N-CA	6.36	129.13	120.54
1	Y	115	ASP	CA-CB-CG	6.36	118.96	112.60
1	Z	623	PHE	N-CA-C	6.36	117.88	111.07
1	6	477	HIS	ND1-CE1-NE2	6.36	114.76	108.40
1	u	706	LEU	O-C-N	-6.36	115.52	122.07
1	J	555	ASP	CA-C-N	6.36	128.57	120.56
1	J	555	ASP	C-N-CA	6.36	128.57	120.56
1	O	108	ARG	NE-CZ-NH2	-6.36	113.48	119.20
1	T	507	GLN	N-CA-C	6.36	119.20	111.82
1	V	585	TYR	N-CA-CB	-6.36	100.77	110.12
1	X	410	ASP	CA-CB-CG	6.36	118.96	112.60
1	9	550	GLN	OE1-CD-NE2	-6.36	116.24	122.60
1	f	218	VAL	N-CA-C	6.36	114.93	109.02
1	n	593	ARG	NE-CZ-NH2	6.36	124.92	119.20
1	w	581	GLN	CG-CD-NE2	-6.36	106.86	116.40
1	D	390	GLU	CB-CA-C	6.36	120.86	110.88
1	G	575	GLU	N-CA-C	6.36	118.21	111.28
1	J	267	ASN	O-C-N	6.36	128.86	122.12
1	S	273	THR	CA-C-N	6.36	129.09	120.38
1	S	273	THR	C-N-CA	6.36	129.09	120.38
1	T	542	PHE	CA-CB-CG	-6.36	107.44	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	563	LYS	CA-C-O	-6.36	114.14	120.82
1	0	124	ILE	CA-C-O	6.36	127.97	120.72
1	7	629	HIS	CA-C-N	6.36	128.70	120.44
1	7	629	HIS	C-N-CA	6.36	128.70	120.44
1	n	525	GLU	CA-C-N	6.36	128.57	120.56
1	n	525	GLU	C-N-CA	6.36	128.57	120.56
1	o	134	VAL	CB-CA-C	-6.36	103.83	111.97
1	w	544	ASN	CA-C-N	6.36	129.12	120.54
1	w	544	ASN	C-N-CA	6.36	129.12	120.54
1	x	231	ARG	NE-CZ-NH2	-6.36	113.48	119.20
1	B	295	LYS	O-C-N	-6.36	114.01	121.32
1	H	240	ASP	CA-CB-CG	6.36	118.95	112.60
1	K	534	VAL	N-CA-C	6.36	117.14	110.72
1	Q	495	PHE	CA-CB-CG	-6.36	107.44	113.80
1	T	374	LEU	CA-C-N	6.36	128.80	120.28
1	T	374	LEU	C-N-CA	6.36	128.80	120.28
1	T	377	GLU	N-CA-C	6.36	118.21	111.28
1	T	648	ILE	N-CA-CB	6.36	117.29	110.62
1	l	531	PHE	CA-C-N	6.35	128.57	120.56
1	l	531	PHE	C-N-CA	6.35	128.57	120.56
1	C	459	LYS	CA-C-N	6.35	128.79	120.28
1	C	459	LYS	C-N-CA	6.35	128.79	120.28
1	C	548	THR	CA-C-N	6.35	128.57	120.56
1	C	548	THR	C-N-CA	6.35	128.57	120.56
1	E	473	LYS	N-CA-C	6.35	119.02	111.71
1	I	552	THR	CA-C-N	6.35	128.80	120.60
1	I	552	THR	C-N-CA	6.35	128.80	120.60
1	P	647	PHE	CB-CA-C	-6.35	100.64	110.81
1	X	250	LYS	N-CA-C	6.35	119.02	111.33
1	X	411	ILE	CA-C-N	6.35	127.35	119.98
1	X	411	ILE	C-N-CA	6.35	127.35	119.98
1	9	386	LEU	CA-C-N	6.35	127.78	119.84
1	9	386	LEU	C-N-CA	6.35	127.78	119.84
1	p	231	ARG	NE-CZ-NH2	6.35	124.92	119.20
1	r	94	GLU	N-CA-C	6.35	117.87	111.07
1	s	187	GLU	N-CA-C	6.35	118.20	111.28
1	R	383	GLN	N-CA-C	6.35	119.02	111.71
1	8	431	GLN	O-C-N	-6.35	115.53	122.07
1	k	551	SER	N-CA-C	6.35	119.19	111.82
1	D	667	GLN	OE1-CD-NE2	-6.35	116.25	122.60
1	E	505	VAL	CA-C-N	6.35	128.79	120.28
1	E	505	VAL	C-N-CA	6.35	128.79	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	533	ASN	CA-C-N	6.35	128.69	120.56
1	Q	533	ASN	C-N-CA	6.35	128.69	120.56
1	3	165	GLU	CA-C-N	6.35	129.85	120.90
1	3	165	GLU	C-N-CA	6.35	129.85	120.90
1	6	477	HIS	CE1-NE2-CD2	-6.35	102.65	109.00
1	f	215	SER	O-C-N	-6.35	117.41	121.85
1	j	196	VAL	CA-C-N	6.35	128.79	120.28
1	j	196	VAL	C-N-CA	6.35	128.79	120.28
1	y	494	GLY	CA-C-N	6.35	133.13	121.70
1	y	494	GLY	C-N-CA	6.35	133.13	121.70
1	z	587	VAL	O-C-N	-6.35	115.29	121.83
1	z	677	TRP	CB-CG-CD1	6.35	136.42	126.90
1	B	524	MET	CA-C-N	6.35	128.79	120.28
1	B	524	MET	C-N-CA	6.35	128.79	120.28
1	I	329	GLY	N-CA-C	6.35	122.95	112.66
1	N	560	HIS	N-CA-CB	6.35	120.12	110.28
1	Z	398	GLN	CA-C-O	6.35	127.69	120.90
1	4	441	GLU	CA-C-O	6.35	128.27	121.16
1	l	639	LYS	N-CA-C	6.35	118.73	111.11
1	m	556	ILE	CA-C-O	-6.35	114.44	121.17
1	o	248	LEU	CA-C-N	6.35	129.16	120.46
1	o	248	LEU	C-N-CA	6.35	129.16	120.46
1	u	405	ARG	N-CA-C	6.35	119.87	111.75
1	C	679	LEU	N-CA-C	6.35	120.04	112.93
1	D	672	LYS	CA-C-O	6.35	126.78	119.35
1	F	393	ILE	O-C-N	-6.35	115.10	121.96
1	F	589	LEU	CA-C-O	6.35	127.28	120.55
1	F	643	ASN	CA-CB-CG	-6.35	106.25	112.60
1	P	232	VAL	CB-CA-C	-6.35	102.52	111.28
1	T	516	ALA	N-CA-C	6.35	117.86	111.07
1	T	571	GLN	CA-C-O	6.35	127.28	120.55
1	3	474	ASN	O-C-N	-6.35	115.39	122.12
1	m	477	HIS	CG-CD2-NE2	6.35	113.55	107.20
1	w	321	GLY	CA-C-O	6.35	129.49	121.56
1	w	510	GLN	OE1-CD-NE2	-6.35	116.25	122.60
1	X	573	ARG	N-CA-CB	6.35	120.12	110.28
1	4	118	LEU	CA-C-N	6.34	126.72	119.93
1	4	118	LEU	C-N-CA	6.34	126.72	119.93
1	8	573	ARG	N-CA-C	6.34	118.28	111.36
1	8	663	LYS	O-C-N	-6.34	113.83	122.33
1	9	505	VAL	N-CA-C	-6.34	104.57	110.53
1	b	400	ALA	CA-C-O	6.34	127.66	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	d	394	ARG	N-CA-C	6.34	117.86	111.07
1	k	432	ASP	CA-C-N	6.34	129.43	120.42
1	k	432	ASP	C-N-CA	6.34	129.43	120.42
1	s	167	TRP	CB-CG-CD2	6.34	135.68	126.80
1	D	559	LYS	CA-C-O	6.34	127.14	120.42
1	H	342	ALA	CA-C-N	6.34	129.11	120.54
1	H	342	ALA	C-N-CA	6.34	129.11	120.54
1	S	266	CYS	CA-C-N	6.34	128.69	120.44
1	S	266	CYS	C-N-CA	6.34	128.69	120.44
1	T	539	PHE	CA-C-N	6.34	127.16	119.99
1	T	539	PHE	C-N-CA	6.34	127.16	119.99
1	X	268	VAL	CA-C-N	6.34	133.66	121.54
1	X	268	VAL	C-N-CA	6.34	133.66	121.54
1	Y	350	PHE	N-CA-C	6.34	118.19	111.28
1	7	571	GLN	CA-C-O	6.34	127.27	120.55
1	E	649	ILE	N-CA-C	6.34	116.51	110.42
1	J	441	GLU	CA-C-O	6.34	129.58	120.51
1	5	103	LEU	N-CA-C	-6.34	103.66	111.40
1	a	198	ALA	CB-CA-C	-6.34	100.81	111.02
1	c	583	GLN	OE1-CD-NE2	-6.34	116.26	122.60
1	f	473	LYS	CA-C-O	6.34	127.27	120.10
1	j	573	ARG	NH1-CZ-NH2	6.34	127.54	119.30
1	t	349	PHE	N-CA-C	6.34	118.19	111.28
1	x	172	SER	O-C-N	-6.34	115.33	122.75
1	z	506	HIS	ND1-CE1-NE2	6.34	114.74	108.40
1	E	250	LYS	N-CA-C	6.34	118.19	111.28
1	I	296	PRO	CA-C-N	6.34	129.64	120.38
1	I	296	PRO	C-N-CA	6.34	129.64	120.38
1	K	305	LYS	O-C-N	-6.34	114.92	122.15
1	L	379	ILE	O-C-N	-6.34	115.72	121.87
1	N	510	GLN	CA-C-O	6.34	127.27	120.55
1	U	501	PHE	CA-CB-CG	-6.34	107.46	113.80
1	Y	426	ILE	N-CA-C	6.34	117.09	110.62
1	2	630	LEU	CA-C-N	6.34	128.68	120.44
1	2	630	LEU	C-N-CA	6.34	128.68	120.44
1	4	238	PRO	N-CA-CB	-6.34	97.45	103.41
1	m	208	LEU	CB-CA-C	-6.34	100.64	110.78
1	n	298	LEU	CA-C-N	6.34	129.87	120.87
1	n	298	LEU	C-N-CA	6.34	129.87	120.87
1	o	708	GLN	N-CA-C	6.34	118.19	111.28
1	q	127	GLN	O-C-N	-6.34	115.40	122.12
1	q	388	LEU	O-C-N	6.34	128.60	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	u	682	GLN	OE1-CD-NE2	-6.34	116.26	122.60
1	M	558	VAL	N-CA-C	6.34	122.53	109.34
1	P	286	GLY	O-C-N	-6.34	114.92	122.34
1	V	353	HIS	CA-C-N	6.34	125.76	118.85
1	V	353	HIS	C-N-CA	6.34	125.76	118.85
1	Y	195	ASN	CA-C-O	-6.34	114.16	120.82
1	9	107	LEU	CA-C-N	6.34	128.77	120.28
1	9	107	LEU	C-N-CA	6.34	128.77	120.28
1	a	560	HIS	ND1-CE1-NE2	6.34	114.74	108.40
1	d	675	TYR	CB-CG-CD1	-6.34	111.29	120.80
1	u	628	ILE	N-CA-C	6.34	117.08	110.62
1	A	503	ILE	O-C-N	-6.34	115.72	121.87
1	J	291	GLY	CA-C-O	6.34	126.72	120.89
1	L	455	ARG	NH1-CZ-NH2	-6.34	111.06	119.30
1	L	512	LEU	N-CA-C	6.34	119.17	111.82
1	R	276	LEU	CA-C-N	6.34	128.77	120.28
1	R	276	LEU	C-N-CA	6.34	128.77	120.28
1	2	537	LYS	CA-C-N	6.34	131.29	120.71
1	2	537	LYS	C-N-CA	6.34	131.29	120.71
1	5	270	ILE	CA-C-N	6.34	128.77	120.28
1	5	270	ILE	C-N-CA	6.34	128.77	120.28
1	i	306	SER	O-C-N	6.34	128.84	122.12
1	k	268	VAL	CA-C-N	6.34	130.11	121.05
1	k	268	VAL	C-N-CA	6.34	130.11	121.05
1	l	135	LEU	CA-C-N	6.34	128.77	120.28
1	l	135	LEU	C-N-CA	6.34	128.77	120.28
1	m	516	ALA	O-C-N	-6.34	114.93	122.15
1	n	104	ILE	CB-CG1-CD1	6.34	127.11	113.80
1	o	134	VAL	N-CA-C	6.34	116.50	110.42
1	s	515	PRO	CA-C-N	6.34	129.06	120.38
1	s	515	PRO	C-N-CA	6.34	129.06	120.38
1	t	333	ILE	CB-CA-C	6.34	119.58	110.33
1	t	647	PHE	N-CA-C	6.34	117.85	111.07
1	t	655	ARG	N-CA-C	6.34	118.71	111.11
1	u	572	PHE	CA-CB-CG	-6.34	107.46	113.80
1	v	157	LEU	O-C-N	-6.34	115.81	123.29
1	B	707	CYS	CB-CA-C	6.34	121.31	110.79
1	E	98	ARG	CA-CB-CG	-6.34	101.42	114.10
1	J	501	PHE	CA-C-N	6.34	128.68	120.44
1	J	501	PHE	C-N-CA	6.34	128.68	120.44
1	O	311	VAL	CA-C-O	-6.34	114.45	121.17
1	O	640	ARG	NH1-CZ-NH2	-6.34	111.06	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	155	LEU	N-CA-CB	6.34	120.83	110.37
1	U	131	LYS	N-CA-C	6.34	119.86	111.75
1	X	404	LEU	CA-C-N	6.34	129.40	120.28
1	X	404	LEU	C-N-CA	6.34	129.40	120.28
1	l	213	ILE	O-C-N	-6.33	116.89	123.03
1	g	447	GLU	O-C-N	-6.33	114.76	123.12
1	v	164	CYS	N-CA-C	6.33	118.73	110.43
1	w	484	GLU	O-C-N	-6.33	113.84	122.33
1	L	550	GLN	OE1-CD-NE2	6.33	128.94	122.60
1	T	311	VAL	N-CA-C	6.33	119.01	111.09
1	X	682	GLN	N-CA-C	6.33	117.98	111.14
1	l	664	ALA	O-C-N	-6.33	115.41	122.12
1	8	564	ALA	N-CA-C	6.33	117.85	111.07
1	8	629	HIS	N-CA-CB	6.33	120.10	110.28
1	8	696	ILE	N-CA-C	6.33	117.08	110.62
1	9	133	SER	N-CA-C	6.33	118.18	111.28
1	a	210	SER	N-CA-C	-6.33	97.48	108.69
1	h	677	TRP	CA-C-O	6.33	127.13	120.42
1	j	418	LYS	CA-C-N	6.33	128.67	120.44
1	j	418	LYS	C-N-CA	6.33	128.67	120.44
1	r	118	LEU	CA-C-N	6.33	126.36	119.90
1	r	118	LEU	C-N-CA	6.33	126.36	119.90
1	r	319	LYS	CA-C-O	6.33	127.16	119.31
1	r	525	GLU	N-CA-C	6.33	117.85	111.07
1	t	306	SER	N-CA-CB	6.33	119.53	110.16
1	v	101	ILE	N-CA-C	6.33	117.01	110.36
1	F	677	TRP	CE2-CD2-CE3	6.33	125.13	118.80
1	J	250	LYS	O-C-N	-6.33	115.41	122.12
1	S	310	VAL	O-C-N	-6.33	115.31	121.83
1	V	343	THR	N-CA-C	6.33	118.99	111.33
1	V	578	VAL	N-CA-CB	6.33	121.68	111.23
1	0	383	GLN	OE1-CD-NE2	-6.33	116.27	122.60
1	p	153	CYS	O-C-N	-6.33	116.61	121.55
1	p	434	GLU	N-CA-C	6.33	117.84	111.07
1	y	199	GLY	CA-C-N	6.33	131.12	122.19
1	y	199	GLY	C-N-CA	6.33	131.12	122.19
1	J	152	ARG	NE-CZ-NH1	6.33	127.83	121.50
1	T	494	GLY	N-CA-C	6.33	119.29	112.33
1	T	578	VAL	CA-C-O	6.33	128.61	120.95
1	W	174	ARG	NE-CZ-NH2	-6.33	113.50	119.20
1	X	626	ILE	O-C-N	-6.33	115.31	121.90
1	d	442	VAL	N-CA-C	6.33	117.92	109.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	x	708	GLN	CA-C-N	6.33	128.76	120.28
1	x	708	GLN	C-N-CA	6.33	128.76	120.28
1	C	640	ARG	NH1-CZ-NH2	-6.33	111.07	119.30
1	P	591	LYS	N-CA-C	6.33	118.18	111.28
1	Q	382	ILE	N-CA-C	6.33	117.01	110.36
1	8	125	GLY	CA-C-O	6.33	128.00	121.35
1	i	93	TYR	CA-C-N	6.33	128.67	120.44
1	i	93	TYR	C-N-CA	6.33	128.67	120.44
1	r	566	ASN	CA-CB-CG	-6.33	106.27	112.60
1	u	131	LYS	N-CA-C	6.33	118.99	111.71
1	C	627	GLY	N-CA-C	6.33	120.32	112.73
1	N	335	ASN	CA-C-N	6.33	131.32	121.26
1	N	335	ASN	C-N-CA	6.33	131.32	121.26
1	N	406	ARG	O-C-N	-6.33	113.85	122.33
1	f	250	LYS	CA-C-O	6.33	127.29	120.20
1	o	174	ARG	CA-C-O	6.33	127.42	119.95
1	w	375	THR	CA-C-N	6.33	128.66	120.44
1	w	375	THR	C-N-CA	6.33	128.66	120.44
1	K	657	ASN	CA-CB-CG	6.33	118.93	112.60
1	M	359	LEU	CA-C-N	6.33	128.67	120.44
1	M	359	LEU	C-N-CA	6.33	128.67	120.44
1	2	403	GLU	N-CA-C	6.33	118.17	111.28
1	7	496	VAL	CB-CA-C	-6.33	102.85	111.33
1	c	401	THR	CA-C-O	6.33	127.25	120.10
1	o	162	GLN	OE1-CD-NE2	6.33	128.93	122.60
1	y	213	ILE	CA-CB-CG1	6.33	121.15	110.40
1	y	250	LYS	N-CA-C	6.33	118.98	111.33
1	F	127	GLN	OE1-CD-NE2	-6.33	116.28	122.60
1	H	98	ARG	CA-C-O	-6.33	111.50	120.16
1	K	137	ALA	CA-C-O	6.33	126.71	119.18
1	Q	484	GLU	N-CA-C	6.33	117.84	111.07
1	0	511	GLN	CG-CD-NE2	6.32	125.89	116.40
1	2	202	ARG	O-C-N	6.32	130.44	123.04
1	5	236	ASN	N-CA-CB	6.32	119.37	109.69
1	6	458	PHE	CA-C-N	6.32	128.75	120.28
1	6	458	PHE	C-N-CA	6.32	128.75	120.28
1	f	501	PHE	CA-CB-CG	6.32	120.12	113.80
1	k	434	GLU	CB-CG-CD	6.32	123.35	112.60
1	t	132	SER	CA-C-N	6.32	128.75	120.28
1	t	132	SER	C-N-CA	6.32	128.75	120.28
1	z	312	ARG	NE-CZ-NH1	6.32	127.82	121.50
1	D	665	MET	CA-C-O	6.32	127.25	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	210	SER	CB-CA-C	-6.32	99.09	109.53
1	N	145	ARG	NE-CZ-NH1	6.32	127.82	121.50
1	S	325	VAL	O-C-N	-6.32	116.23	123.00
1	U	571	GLN	OE1-CD-NE2	-6.32	116.28	122.60
1	V	416	ALA	N-CA-C	6.32	118.69	110.53
1	8	134	VAL	N-CA-C	6.32	117.07	110.62
1	d	108	ARG	N-CA-CB	-6.32	100.90	110.07
1	i	428	MET	N-CA-C	6.32	119.15	111.82
1	5	404	LEU	CA-C-N	6.32	128.75	120.28
1	5	404	LEU	C-N-CA	6.32	128.75	120.28
1	9	348	THR	O-C-N	-6.32	115.42	122.12
1	d	234	VAL	CA-C-N	6.32	128.75	120.28
1	d	234	VAL	C-N-CA	6.32	128.75	120.28
1	f	187	GLU	CA-C-N	6.32	129.57	120.79
1	f	187	GLU	C-N-CA	6.32	129.57	120.79
1	o	93	TYR	CA-C-N	6.32	128.75	120.28
1	o	93	TYR	C-N-CA	6.32	128.75	120.28
1	t	674	ARG	CG-CD-NE	-6.32	98.09	112.00
1	z	697	TYR	O-C-N	-6.32	115.56	122.07
1	A	218	VAL	CA-C-O	6.32	125.31	119.62
1	G	304	GLU	CA-C-O	6.32	127.24	119.97
1	J	208	LEU	CA-C-N	6.32	133.00	122.57
1	J	208	LEU	C-N-CA	6.32	133.00	122.57
1	P	655	ARG	NH1-CZ-NH2	-6.32	111.08	119.30
1	R	108	ARG	NE-CZ-NH2	-6.32	113.51	119.20
1	S	571	GLN	O-C-N	-6.32	115.56	122.07
1	S	659	ASP	N-CA-C	6.32	118.17	111.28
1	W	102	ASP	O-C-N	-6.32	114.82	122.22
1	7	138	LEU	CA-C-O	6.32	126.95	119.56
1	a	559	LYS	N-CA-C	6.32	117.83	111.07
1	b	394	ARG	O-C-N	-6.32	115.42	122.12
1	d	239	ARG	CA-C-N	6.32	133.07	121.70
1	d	239	ARG	C-N-CA	6.32	133.07	121.70
1	d	430	ASN	OD1-CG-ND2	-6.32	116.28	122.60
1	e	704	HIS	CE1-NE2-CD2	-6.32	102.68	109.00
1	t	480	VAL	N-CA-C	6.32	117.06	110.62
1	C	273	THR	N-CA-CB	6.32	119.33	110.04
1	E	330	GLN	CA-C-O	6.32	127.25	119.79
1	Z	427	LYS	CB-CA-C	-6.32	100.30	110.79
1	7	682	GLN	CA-C-N	6.32	133.07	121.70
1	7	682	GLN	C-N-CA	6.32	133.07	121.70
1	z	186	VAL	O-C-N	-6.32	115.49	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	z	367	VAL	CA-CB-CG1	-6.32	99.66	110.40
1	A	359	LEU	N-CA-C	6.32	117.83	111.07
1	B	203	GLY	CA-C-N	6.32	128.97	120.50
1	B	203	GLY	C-N-CA	6.32	128.97	120.50
1	B	511	GLN	OE1-CD-NE2	-6.32	116.28	122.60
1	D	662	GLN	N-CA-C	6.32	118.69	111.11
1	X	214	THR	CA-C-O	6.32	128.31	120.54
1	Z	337	LEU	CA-C-O	6.32	128.25	121.11
1	l	488	ARG	NH1-CZ-NH2	-6.32	111.09	119.30
1	r	552	THR	O-C-N	-6.32	115.42	122.12
1	s	350	PHE	O-C-N	-6.32	115.43	122.12
1	t	526	ILE	O-C-N	6.32	128.00	121.87
1	B	466	ALA	CA-C-N	6.32	128.65	120.44
1	B	466	ALA	C-N-CA	6.32	128.65	120.44
1	M	449	ARG	CA-C-O	-6.32	114.92	121.87
1	N	692	LEU	N-CA-C	6.32	118.16	111.28
1	U	301	ARG	O-C-N	-6.32	115.59	122.79
1	p	414	GLN	CA-C-N	6.31	128.74	120.28
1	p	414	GLN	C-N-CA	6.31	128.74	120.28
1	y	105	ASP	CA-CB-CG	-6.31	106.29	112.60
1	K	311	VAL	CB-CA-C	-6.31	103.77	112.04
1	0	405	ARG	NE-CZ-NH2	-6.31	113.52	119.20
1	7	694	GLU	O-C-N	-6.31	115.57	122.07
1	8	499	LYS	O-C-N	-6.31	115.57	122.07
1	d	346	GLU	CA-C-N	6.31	128.51	120.56
1	d	346	GLU	C-N-CA	6.31	128.51	120.56
1	f	465	LEU	N-CA-CB	6.31	119.16	110.01
1	t	645	ILE	CB-CA-C	6.31	122.27	114.00
1	E	390	GLU	CA-C-N	6.31	126.99	119.98
1	E	390	GLU	C-N-CA	6.31	126.99	119.98
1	F	148	GLY	CA-C-O	6.31	126.32	119.06
1	F	633	TYR	CA-C-O	6.31	127.24	119.79
1	J	449	ARG	N-CA-C	6.31	119.38	110.23
1	T	312	ARG	N-CA-C	6.31	120.24	112.54
1	6	247	ALA	CB-CA-C	-6.31	100.31	110.79
1	j	671	GLU	CA-CB-CG	6.31	126.72	114.10
1	k	308	MET	N-CA-C	6.31	118.16	111.28
1	o	307	VAL	CA-C-O	-6.31	114.39	120.95
1	z	428	MET	CA-C-O	6.31	127.45	120.82
1	A	458	PHE	CA-C-N	6.31	128.74	120.28
1	A	458	PHE	C-N-CA	6.31	128.74	120.28
1	C	108	ARG	NE-CZ-NH1	6.31	127.81	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	137	ALA	N-CA-C	6.31	118.16	111.28
1	U	94	GLU	CA-C-O	-6.31	113.81	120.63
1	5	624	THR	N-CA-C	6.31	117.95	111.14
1	7	400	ALA	N-CA-C	6.31	118.16	111.28
1	8	522	LYS	N-CA-C	6.31	119.14	111.82
1	b	667	GLN	O-C-N	-6.31	114.84	122.22
1	f	309	ASN	OD1-CG-ND2	-6.31	116.29	122.60
1	g	251	LYS	N-CA-CB	6.31	119.16	110.01
1	h	658	GLY	CA-C-N	6.31	128.64	120.44
1	h	658	GLY	C-N-CA	6.31	128.64	120.44
1	l	409	ALA	O-C-N	-6.31	114.20	122.59
1	l	477	HIS	N-CA-C	6.31	118.97	111.71
1	m	186	VAL	N-CA-C	6.31	117.06	110.62
1	p	234	VAL	CA-C-N	6.31	133.59	121.54
1	p	234	VAL	C-N-CA	6.31	133.59	121.54
1	q	264	VAL	CA-C-N	6.31	126.34	119.90
1	q	264	VAL	C-N-CA	6.31	126.34	119.90
1	r	261	LEU	CA-C-O	6.31	127.21	120.46
1	s	340	ALA	CA-C-O	-6.31	113.86	120.55
1	x	638	SER	CA-C-O	6.31	127.11	120.42
1	B	170	ARG	NE-CZ-NH2	6.31	124.88	119.20
1	F	486	GLN	O-C-N	-6.31	114.20	122.59
1	L	652	PHE	CA-CB-CG	-6.31	107.49	113.80
1	M	272	THR	CA-CB-OG1	6.31	119.06	109.60
1	X	528	GLN	N-CA-C	6.31	117.82	111.07
1	4	130	GLY	CA-C-N	6.31	129.59	120.38
1	4	130	GLY	C-N-CA	6.31	129.59	120.38
1	4	200	ASN	CA-CB-CG	-6.31	106.29	112.60
1	8	515	PRO	N-CD-CG	6.31	112.66	103.20
1	b	255	ARG	N-CA-CB	-6.31	100.70	109.97
1	b	685	THR	CA-C-O	6.31	127.23	120.55
1	k	683	SER	N-CA-C	6.31	118.23	111.36
1	o	642	ALA	N-CA-C	6.31	118.96	111.71
1	r	301	ARG	N-CA-C	6.31	119.39	110.50
1	t	278	MET	N-CA-C	6.31	117.82	111.07
1	v	165	GLU	CA-C-O	6.31	128.09	121.15
1	y	315	THR	CA-C-O	6.31	127.23	120.55
1	E	410	ASP	CA-CB-CG	-6.31	106.29	112.60
1	G	641	LEU	CA-C-N	6.31	129.36	120.28
1	G	641	LEU	C-N-CA	6.31	129.36	120.28
1	H	114	GLN	N-CA-CB	6.31	119.39	110.24
1	6	562	ALA	CA-C-O	6.31	127.11	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7	351	GLN	N-CA-CB	6.31	119.49	110.16
1	b	167	TRP	O-C-N	-6.31	116.06	123.25
1	g	367	VAL	CA-C-N	6.31	127.72	119.84
1	g	367	VAL	C-N-CA	6.31	127.72	119.84
1	k	221	LEU	O-C-N	-6.31	117.22	123.46
1	p	339	LEU	CA-C-N	6.31	129.05	120.54
1	p	339	LEU	C-N-CA	6.31	129.05	120.54
1	s	155	LEU	CA-C-N	6.31	130.50	122.37
1	s	155	LEU	C-N-CA	6.31	130.50	122.37
1	t	256	GLN	CB-CG-CD	6.31	123.32	112.60
1	z	97	VAL	N-CA-CB	6.31	120.04	110.58
1	D	519	MET	CA-C-N	6.31	128.64	120.44
1	D	519	MET	C-N-CA	6.31	128.64	120.44
1	P	280	HIS	N-CA-C	6.31	118.23	111.36
1	7	707	CYS	CB-CA-C	-6.30	100.98	110.88
1	m	552	THR	CA-CB-CG2	6.30	121.22	110.50
1	u	444	ARG	NE-CZ-NH2	-6.30	113.53	119.20
1	x	664	ALA	CA-C-N	6.30	129.05	120.54
1	x	664	ALA	C-N-CA	6.30	129.05	120.54
1	G	288	ARG	NH1-CZ-NH2	-6.30	111.10	119.30
1	I	393	ILE	CA-C-O	-6.30	114.49	121.17
1	I	401	THR	N-CA-CB	6.30	119.39	110.12
1	M	478	GLU	CA-C-O	-6.30	113.74	120.42
1	Z	209	ILE	N-CA-C	-6.30	99.04	108.12
1	2	202	ARG	NE-CZ-NH1	6.30	127.80	121.50
1	d	626	ILE	N-CA-CB	6.30	117.92	110.55
1	m	671	GLU	CB-CG-CD	6.30	123.31	112.60
1	t	659	ASP	CA-CB-CG	6.30	118.90	112.60
1	u	523	ALA	O-C-N	-6.30	115.44	122.12
1	D	675	TYR	O-C-N	-6.30	114.21	122.59
1	4	649	ILE	N-CA-CB	6.30	118.64	110.57
1	5	380	MET	N-CA-C	6.30	118.96	111.71
1	b	263	VAL	CB-CA-C	6.30	120.44	111.81
1	k	144	PRO	N-CA-C	6.30	121.53	111.26
1	m	128	SER	N-CA-C	6.30	118.95	111.33
1	A	152	ARG	N-CA-C	-6.30	104.86	113.30
1	H	237	GLN	CA-C-N	6.30	126.25	119.76
1	H	237	GLN	C-N-CA	6.30	126.25	119.76
1	N	292	ILE	N-CA-CB	6.30	119.29	111.41
1	V	355	TYR	N-CA-C	6.30	119.13	111.82
1	X	334	THR	CA-C-N	6.30	129.82	120.87
1	X	334	THR	C-N-CA	6.30	129.82	120.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	692	LEU	O-C-N	-6.30	115.58	122.07
1	1	119	PRO	CA-C-N	6.30	130.08	120.82
1	1	119	PRO	C-N-CA	6.30	130.08	120.82
1	2	237	GLN	CA-C-O	-6.30	114.15	120.64
1	6	345	LYS	N-CA-CB	-6.30	100.84	110.16
1	h	551	SER	CA-C-O	6.30	127.64	120.90
1	i	94	GLU	N-CA-C	6.30	117.81	111.07
1	p	309	ASN	CA-CB-CG	-6.30	106.30	112.60
1	q	152	ARG	NE-CZ-NH1	6.30	127.80	121.50
1	s	500	THR	N-CA-CB	6.30	119.14	110.01
1	u	582	ASP	CA-CB-CG	-6.30	106.30	112.60
1	E	540	GLY	N-CA-C	6.30	120.26	112.64
1	K	463	GLY	O-C-N	6.30	128.23	122.18
1	V	637	THR	CA-C-N	6.30	128.72	120.28
1	V	637	THR	C-N-CA	6.30	128.72	120.28
1	W	182	ASP	N-CA-C	6.30	117.83	109.83
1	X	512	LEU	N-CA-C	6.30	120.22	112.54
1	2	652	PHE	CB-CA-C	-6.30	100.99	110.88
1	j	377	GLU	O-C-N	-6.30	115.44	122.12
1	U	649	ILE	N-CA-CB	6.30	117.92	110.55
1	a	395	GLU	N-CA-C	6.30	118.14	111.28
1	g	329	GLY	CA-C-N	6.30	132.16	121.14
1	g	329	GLY	C-N-CA	6.30	132.16	121.14
1	i	151	THR	CA-C-N	6.30	132.93	122.54
1	i	151	THR	C-N-CA	6.30	132.93	122.54
1	i	277	SER	CA-C-O	6.30	127.22	120.55
1	p	133	SER	N-CA-CB	6.30	119.14	110.01
1	p	150	VAL	O-C-N	-6.30	114.70	122.57
1	v	516	ALA	O-C-N	-6.30	115.59	122.07
1	z	682	GLN	CA-C-N	6.30	133.03	121.70
1	z	682	GLN	C-N-CA	6.30	133.03	121.70
1	F	623	PHE	CA-C-N	6.30	128.63	120.44
1	F	623	PHE	C-N-CA	6.30	128.63	120.44
1	G	306	SER	N-CA-C	-6.30	104.34	111.14
1	U	358	VAL	O-C-N	6.30	128.08	121.91
1	0	703	ARG	NE-CZ-NH2	-6.29	113.53	119.20
1	q	442	VAL	O-C-N	-6.29	115.59	122.64
1	u	416	ALA	CA-C-N	6.29	128.62	120.44
1	u	416	ALA	C-N-CA	6.29	128.62	120.44
1	X	297	ASP	N-CA-C	6.29	120.06	112.38
1	2	665	MET	CA-C-O	6.29	127.21	119.97
1	4	551	SER	N-CA-C	6.29	118.14	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	461	TRP	CA-C-N	6.29	128.72	120.60
1	6	461	TRP	C-N-CA	6.29	128.72	120.60
1	b	378	LEU	O-C-N	6.29	128.79	122.12
1	e	624	THR	N-CA-CB	6.29	119.91	110.22
1	g	346	GLU	N-CA-C	6.29	118.95	111.33
1	g	450	LEU	CA-C-O	6.29	127.43	120.63
1	l	312	ARG	CA-C-O	6.29	127.21	119.97
1	l	339	LEU	CA-C-N	6.29	128.71	120.28
1	l	339	LEU	C-N-CA	6.29	128.71	120.28
1	q	665	MET	CA-C-O	-6.29	113.83	120.63
1	t	537	LYS	N-CA-C	6.29	118.14	111.28
1	B	441	GLU	CB-CG-CD	6.29	123.30	112.60
1	E	212	GLU	CA-C-O	6.29	127.03	120.30
1	H	528	GLN	OE1-CD-NE2	-6.29	116.31	122.60
1	L	444	ARG	CA-C-N	6.29	131.27	121.26
1	L	444	ARG	C-N-CA	6.29	131.27	121.26
1	Q	396	SER	CA-C-N	6.29	129.00	120.44
1	Q	396	SER	C-N-CA	6.29	129.00	120.44
1	S	191	HIS	CA-C-N	6.29	128.71	120.28
1	S	191	HIS	C-N-CA	6.29	128.71	120.28
1	X	283	ASP	CA-C-N	6.29	125.71	118.85
1	X	283	ASP	C-N-CA	6.29	125.71	118.85
1	7	287	ASP	CA-C-O	6.29	126.67	119.18
1	b	685	THR	CA-CB-CG2	-6.29	99.80	110.50
1	g	351	GLN	N-CA-CB	6.29	120.03	110.28
1	m	104	ILE	CA-C-N	6.29	128.71	120.28
1	m	104	ILE	C-N-CA	6.29	128.71	120.28
1	m	240	ASP	CA-C-N	6.29	129.08	120.46
1	m	240	ASP	C-N-CA	6.29	129.08	120.46
1	o	624	THR	N-CA-C	6.29	118.14	111.28
1	J	309	ASN	CB-CA-C	-6.29	100.74	110.81
1	K	640	ARG	CD-NE-CZ	6.29	133.21	124.40
1	O	404	LEU	N-CA-C	6.29	118.94	111.71
1	h	465	LEU	N-CA-C	6.29	118.14	111.28
1	q	551	SER	N-CA-C	6.29	118.94	111.33
1	y	636	GLU	N-CA-C	6.29	118.66	111.11
1	K	197	MET	O-C-N	-6.29	115.45	122.12
1	U	462	VAL	CA-C-N	6.29	128.27	120.34
1	U	462	VAL	C-N-CA	6.29	128.27	120.34
1	7	314	LEU	N-CA-C	6.29	124.20	110.80
1	7	548	THR	CA-C-N	6.29	128.48	120.56
1	7	548	THR	C-N-CA	6.29	128.48	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	623	PHE	CA-C-N	6.29	128.71	120.28
1	c	623	PHE	C-N-CA	6.29	128.71	120.28
1	c	649	ILE	CA-C-N	6.29	128.71	120.28
1	c	649	ILE	C-N-CA	6.29	128.71	120.28
1	g	457	ASP	CA-C-N	6.29	129.87	120.31
1	g	457	ASP	C-N-CA	6.29	129.87	120.31
1	B	674	ARG	N-CA-C	6.29	120.69	112.89
1	D	252	TYR	CA-C-N	-6.29	114.24	122.16
1	D	252	TYR	C-N-CA	-6.29	114.24	122.16
1	D	506	HIS	ND1-CE1-NE2	6.29	114.69	108.40
1	J	243	LEU	N-CA-C	6.29	119.11	111.82
1	J	357	ARG	NE-CZ-NH1	6.29	127.79	121.50
1	J	690	ARG	NE-CZ-NH2	-6.29	113.54	119.20
1	K	451	TYR	CA-C-N	6.29	128.71	120.28
1	K	451	TYR	C-N-CA	6.29	128.71	120.28
1	X	383	GLN	OE1-CD-NE2	-6.29	116.31	122.60
1	Y	192	LYS	CA-C-N	6.29	128.62	120.44
1	Y	192	LYS	C-N-CA	6.29	128.62	120.44
1	Y	456	GLU	O-C-N	-6.29	115.45	122.12
1	Z	567	MET	CA-C-O	6.29	127.11	119.31
1	a	578	VAL	N-CA-CB	6.29	121.60	111.23
1	e	376	THR	CA-CB-OG1	6.29	119.03	109.60
1	u	168	ALA	O-C-N	-6.29	116.44	123.48
1	v	98	ARG	O-C-N	-6.29	114.80	120.71
1	A	684	GLU	CB-CG-CD	6.29	123.29	112.60
1	C	431	GLN	OE1-CD-NE2	-6.29	116.31	122.60
1	V	541	GLU	CA-C-O	6.29	127.08	120.42
1	Y	121	ILE	CB-CA-C	6.29	119.70	110.77
1	3	591	LYS	N-CA-C	6.29	117.80	111.07
1	d	458	PHE	CB-CG-CD2	-6.29	110.02	120.70
1	j	324	ILE	O-C-N	-6.29	116.47	123.26
1	l	484	GLU	CA-CB-CG	6.29	126.67	114.10
1	S	221	LEU	N-CA-C	6.29	118.69	108.76
1	T	533	ASN	OD1-CG-ND2	-6.29	116.31	122.60
1	U	529	GLN	N-CA-C	6.29	117.79	111.07
1	k	506	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
1	X	479	GLU	CB-CG-CD	6.28	123.28	112.60
1	v	530	ALA	N-CA-C	6.28	117.79	111.07
1	y	329	GLY	CA-C-N	6.28	129.86	120.31
1	y	329	GLY	C-N-CA	6.28	129.86	120.31
1	T	586	SER	N-CA-CB	6.28	119.35	110.12
1	b	462	VAL	N-CA-C	6.28	117.78	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	264	VAL	O-C-N	-6.28	114.93	120.96
1	h	579	PHE	O-C-N	-6.28	116.70	123.42
1	q	170	ARG	NH1-CZ-NH2	6.28	127.47	119.30
1	q	582	ASP	CA-C-O	-6.28	111.65	119.38
1	u	538	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
1	F	398	GLN	OE1-CD-NE2	-6.28	116.32	122.60
1	I	126	ASP	O-C-N	-6.28	115.33	122.68
1	U	422	LEU	O-C-N	-6.28	115.60	122.07
1	Z	140	GLY	CA-C-O	6.28	126.11	119.07
1	6	588	VAL	CA-CB-CG2	-6.28	99.72	110.40
1	p	108	ARG	CA-C-N	6.28	128.60	120.44
1	p	108	ARG	C-N-CA	6.28	128.60	120.44
1	r	182	ASP	N-CA-C	-6.28	100.97	108.25
1	r	397	HIS	CA-C-N	6.28	128.69	120.28
1	r	397	HIS	C-N-CA	6.28	128.69	120.28
1	t	174	ARG	NH1-CZ-NH2	-6.28	111.14	119.30
1	t	512	LEU	N-CA-C	6.28	120.94	113.28
1	u	309	ASN	OD1-CG-ND2	-6.28	116.32	122.60
1	u	403	GLU	N-CA-C	6.28	118.12	111.28
1	x	579	PHE	CA-C-N	6.28	133.53	121.54
1	x	579	PHE	C-N-CA	6.28	133.53	121.54
1	H	624	THR	CA-C-O	6.28	127.62	120.90
1	T	699	LEU	CA-C-O	6.28	127.21	120.55
1	5	674	ARG	NH1-CZ-NH2	6.28	127.46	119.30
1	c	460	ASN	OD1-CG-ND2	-6.28	116.32	122.60
1	h	538	HIS	CA-CB-CG	-6.28	107.52	113.80
1	j	538	HIS	CG-CD2-NE2	6.28	113.48	107.20
1	D	430	ASN	N-CA-CB	6.28	119.30	109.94
1	E	686	ALA	O-C-N	6.28	128.54	122.07
1	N	256	GLN	N-CA-C	6.28	118.93	111.71
1	N	409	ALA	O-C-N	-6.28	114.24	122.59
1	T	676	SER	CA-C-N	6.28	129.01	120.54
1	T	676	SER	C-N-CA	6.28	129.01	120.54
1	U	145	ARG	NE-CZ-NH1	6.28	127.78	121.50
1	X	280	HIS	N-CA-C	6.28	117.79	111.07
1	Z	165	GLU	N-CA-C	6.28	118.40	110.24
1	l	235	ASP	N-CA-C	6.28	118.12	111.28
1	a	547	GLN	CA-C-N	6.28	128.60	120.44
1	a	547	GLN	C-N-CA	6.28	128.60	120.44
1	c	548	THR	CA-C-N	6.28	128.47	120.56
1	c	548	THR	C-N-CA	6.28	128.47	120.56
1	l	450	LEU	N-CA-C	6.28	118.12	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	q	292	ILE	CA-CB-CG1	6.28	121.07	110.40
1	r	630	LEU	CA-C-O	6.28	127.41	120.82
1	K	548	THR	CA-C-N	6.28	128.47	120.56
1	K	548	THR	C-N-CA	6.28	128.47	120.56
1	L	504	ILE	CA-C-O	6.28	127.50	120.85
1	P	128	SER	N-CA-C	-6.28	104.93	112.59
1	R	525	GLU	CA-C-N	6.28	128.38	120.72
1	R	525	GLU	C-N-CA	6.28	128.38	120.72
1	S	171	ILE	CA-C-N	6.28	129.78	120.87
1	S	171	ILE	C-N-CA	6.28	129.78	120.87
1	U	667	GLN	CA-C-O	6.28	125.95	119.05
1	2	195	ASN	CA-C-O	6.27	127.07	120.42
1	f	656	GLU	CA-C-N	6.27	128.60	120.44
1	f	656	GLU	C-N-CA	6.27	128.60	120.44
1	h	488	ARG	NE-CZ-NH2	-6.27	113.55	119.20
1	q	247	ALA	N-CA-C	6.27	118.92	111.71
1	L	413	SER	N-CA-C	6.27	118.20	111.36
1	E	279	ALA	N-CA-C	6.27	118.12	111.28
1	E	676	SER	CA-C-N	6.27	129.31	120.28
1	E	676	SER	C-N-CA	6.27	129.31	120.28
1	H	403	GLU	CA-C-O	6.27	126.61	119.27
1	U	641	LEU	N-CA-C	6.27	118.12	111.28
1	Y	430	ASN	OD1-CG-ND2	-6.27	116.33	122.60
1	3	104	ILE	CA-C-N	6.27	128.59	120.44
1	3	104	ILE	C-N-CA	6.27	128.59	120.44
1	a	528	GLN	N-CA-C	6.27	117.78	111.07
1	j	239	ARG	CA-C-N	6.27	132.99	121.70
1	j	239	ARG	C-N-CA	6.27	132.99	121.70
1	w	309	ASN	OD1-CG-ND2	-6.27	116.33	122.60
1	0	350	PHE	O-C-N	-6.27	113.51	122.41
1	5	237	GLN	CA-C-O	-6.27	112.77	118.79
1	5	389	LEU	CA-C-N	6.27	128.59	120.44
1	5	389	LEU	C-N-CA	6.27	128.59	120.44
1	d	539	PHE	CA-C-N	6.27	128.03	120.13
1	d	539	PHE	C-N-CA	6.27	128.03	120.13
1	d	647	PHE	CA-C-N	6.27	128.54	120.70
1	d	647	PHE	C-N-CA	6.27	128.54	120.70
1	f	239	ARG	NE-CZ-NH2	-6.27	113.56	119.20
1	j	702	ALA	CA-C-N	6.27	128.97	120.44
1	j	702	ALA	C-N-CA	6.27	128.97	120.44
1	l	511	GLN	OE1-CD-NE2	-6.27	116.33	122.60
1	y	101	ILE	N-CA-CB	6.27	117.47	110.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	y	237	GLN	N-CA-C	6.27	118.51	109.48
1	E	120	ALA	N-CA-CB	6.27	122.28	111.69
1	K	218	VAL	CA-C-N	6.27	127.68	119.84
1	K	218	VAL	C-N-CA	6.27	127.68	119.84
1	T	491	GLU	CA-C-O	6.27	127.61	120.84
1	U	462	VAL	O-C-N	-6.27	115.37	121.83
1	l	520	LEU	N-CA-C	6.27	118.91	111.33
1	4	174	ARG	NE-CZ-NH2	-6.27	113.56	119.20
1	f	301	ARG	NH1-CZ-NH2	-6.27	111.15	119.30
1	h	251	LYS	N-CA-C	6.27	118.11	111.28
1	k	671	GLU	CA-C-N	6.27	128.68	120.28
1	k	671	GLU	C-N-CA	6.27	128.68	120.28
1	q	632	ALA	CB-CA-C	6.27	120.72	110.88
1	r	289	THR	OG1-CB-CG2	-6.27	96.77	109.30
1	t	285	GLU	CA-C-N	6.27	133.85	121.06
1	t	285	GLU	C-N-CA	6.27	133.85	121.06
1	w	624	THR	N-CA-C	6.27	118.11	111.28
1	A	414	GLN	OE1-CD-NE2	-6.27	116.33	122.60
1	l	297	ASP	CA-CB-CG	6.27	118.87	112.60
1	a	380	MET	CA-C-O	6.27	127.18	119.79
1	j	471	LYS	N-CA-C	6.27	118.63	111.11
1	k	504	ILE	CA-CB-CG1	6.27	121.05	110.40
1	s	332	GLU	CA-C-O	-6.27	113.91	120.55
1	u	322	TYR	CA-C-O	-6.27	114.03	121.11
1	A	566	ASN	CA-C-N	6.27	128.68	120.28
1	A	566	ASN	C-N-CA	6.27	128.68	120.28
1	L	354	PRO	N-CA-CB	6.27	107.09	101.83
1	5	167	TRP	CE3-CZ3-CH2	-6.26	112.96	121.10
1	b	256	GLN	OE1-CD-NE2	-6.26	116.34	122.60
1	b	466	ALA	N-CA-C	6.26	118.63	111.11
1	i	509	ILE	N-CA-C	6.26	116.43	110.42
1	k	395	GLU	N-CA-CB	6.26	119.09	110.01
1	k	630	LEU	CA-C-N	6.26	128.96	120.38
1	k	630	LEU	C-N-CA	6.26	128.96	120.38
1	p	344	LYS	CA-C-O	6.26	127.06	120.42
1	F	405	ARG	N-CA-C	6.26	118.63	111.11
1	F	427	LYS	N-CA-C	6.26	118.63	111.11
1	G	296	PRO	N-CA-CB	6.26	109.15	103.20
1	H	297	ASP	CB-CA-C	6.26	120.08	109.55
1	K	239	ARG	CA-C-N	6.26	132.98	121.70
1	K	239	ARG	C-N-CA	6.26	132.98	121.70
1	M	94	GLU	CA-C-N	6.26	129.83	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	94	GLU	C-N-CA	6.26	129.83	120.31
1	N	367	VAL	N-CA-C	6.26	122.41	108.88
1	N	506	HIS	N-CA-CB	6.26	119.34	109.82
1	P	256	GLN	N-CA-C	6.26	119.09	111.82
1	V	398	GLN	OE1-CD-NE2	-6.26	116.33	122.60
1	V	704	HIS	CE1-NE2-CD2	-6.26	102.74	109.00
1	Z	543	PHE	CA-CB-CG	-6.26	107.54	113.80
1	q	506	HIS	CA-CB-CG	6.26	120.06	113.80
1	3	366	THR	CA-CB-CG2	-6.26	99.86	110.50
1	4	554	GLU	N-CA-C	6.26	118.10	111.28
1	6	126	ASP	CA-CB-CG	6.26	118.86	112.60
1	9	570	LEU	N-CA-C	6.26	118.18	111.36
1	g	468	ASN	OD1-CG-ND2	-6.26	116.34	122.60
1	j	412	PRO	O-C-N	-6.26	115.81	123.01
1	m	324	ILE	O-C-N	-6.26	116.31	123.07
1	m	414	GLN	CA-C-N	6.26	128.67	120.28
1	m	414	GLN	C-N-CA	6.26	128.67	120.28
1	q	202	ARG	NE-CZ-NH1	6.26	127.76	121.50
1	r	705	ALA	CA-C-N	6.26	128.58	120.44
1	r	705	ALA	C-N-CA	6.26	128.58	120.44
1	0	513	VAL	N-CA-C	6.26	117.04	110.72
1	l	113	GLU	N-CA-CB	-6.26	100.87	110.20
1	d	702	ALA	N-CA-C	-6.26	104.54	111.36
1	g	243	LEU	N-CA-C	6.26	118.10	111.28
1	j	240	ASP	CA-CB-CG	6.26	118.86	112.60
1	j	576	GLN	O-C-N	-6.26	115.48	122.12
1	r	659	ASP	N-CA-C	6.26	118.10	111.28
1	s	569	GLN	OE1-CD-NE2	-6.26	116.34	122.60
1	u	178	LEU	CA-C-N	6.26	131.02	122.19
1	u	178	LEU	C-N-CA	6.26	131.02	122.19
1	E	162	GLN	O-C-N	-6.26	116.22	121.54
1	I	554	GLU	O-C-N	-6.26	115.01	122.15
1	I	555	ASP	CA-CB-CG	6.26	118.86	112.60
1	P	585	TYR	CA-C-O	6.26	127.17	120.10
1	V	453	LYS	CA-C-O	6.26	127.19	120.55
1	C	280	HIS	CE1-NE2-CD2	-6.26	102.74	109.00
1	0	507	GLN	CA-C-N	6.26	128.57	120.44
1	0	507	GLN	C-N-CA	6.26	128.57	120.44
1	7	444	ARG	NE-CZ-NH2	6.26	124.83	119.20
1	8	450	LEU	N-CA-CB	-6.26	100.67	110.06
1	g	319	LYS	CA-C-O	6.26	127.12	119.11
1	m	256	GLN	N-CA-C	6.26	118.91	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	r	422	LEU	CA-C-N	6.26	128.44	120.56
1	r	422	LEU	C-N-CA	6.26	128.44	120.56
1	u	570	LEU	N-CA-C	6.26	118.91	111.71
1	C	361	GLU	CA-C-O	6.26	127.18	120.55
1	E	244	GLN	CA-C-N	6.26	128.44	120.56
1	E	244	GLN	C-N-CA	6.26	128.44	120.56
1	N	521	GLN	CA-C-N	6.26	128.66	120.28
1	N	521	GLN	C-N-CA	6.26	128.66	120.28
1	O	99	PRO	N-CA-CB	6.26	110.15	103.52
1	Q	489	GLY	N-CA-C	6.26	120.21	112.64
1	Y	431	GLN	CA-C-N	6.26	128.57	120.44
1	Y	431	GLN	C-N-CA	6.26	128.57	120.44
1	4	226	LEU	CA-C-O	-6.25	114.97	120.60
1	o	414	GLN	CA-C-N	6.25	128.95	120.38
1	o	414	GLN	C-N-CA	6.25	128.95	120.38
1	z	532	ILE	N-CA-C	6.25	117.00	110.62
1	E	420	PHE	CA-CB-CG	-6.25	107.55	113.80
1	T	211	LEU	CB-CA-C	6.25	120.07	109.75
1	5	461	TRP	CA-C-O	6.25	127.18	120.55
1	j	332	GLU	N-CA-C	6.25	119.30	110.23
1	l	260	ASN	O-C-N	-6.25	115.89	123.27
1	o	519	MET	N-CA-C	6.25	119.07	111.82
1	v	155	LEU	N-CA-CB	-6.25	100.89	110.65
1	w	484	GLU	CA-C-O	6.25	127.17	119.79
1	w	519	MET	N-CA-C	6.25	118.10	111.28
1	y	582	ASP	N-CA-C	6.25	118.10	111.28
1	B	667	GLN	CA-C-N	6.25	130.51	120.82
1	B	667	GLN	C-N-CA	6.25	130.51	120.82
1	D	350	PHE	N-CA-C	6.25	119.07	111.82
1	H	435	LYS	CA-C-N	6.25	128.57	120.44
1	H	435	LYS	C-N-CA	6.25	128.57	120.44
1	I	111	GLY	O-C-N	-6.25	116.77	122.96
1	K	525	GLU	O-C-N	-6.25	115.02	122.15
1	L	699	LEU	N-CA-C	6.25	118.61	111.11
1	P	443	VAL	CB-CA-C	-6.25	103.76	111.08
1	S	372	GLU	CA-C-N	6.25	129.48	120.79
1	S	372	GLU	C-N-CA	6.25	129.48	120.79
1	X	452	ASN	N-CA-C	6.25	118.09	111.28
1	3	666	MET	CA-C-O	6.25	127.07	119.38
1	b	169	GLY	O-C-N	-6.25	117.95	123.76
1	b	336	ARG	NH1-CZ-NH2	-6.25	111.17	119.30
1	f	695	ARG	NH1-CZ-NH2	-6.25	111.17	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	l	570	LEU	CA-C-N	6.25	128.57	120.44
1	l	570	LEU	C-N-CA	6.25	128.57	120.44
1	w	577	MET	N-CA-C	6.25	119.30	110.23
1	B	699	LEU	CA-C-N	6.25	129.17	120.29
1	B	699	LEU	C-N-CA	6.25	129.17	120.29
1	K	501	PHE	O-C-N	-6.25	115.63	122.07
1	N	560	HIS	CA-CB-CG	-6.25	107.55	113.80
1	0	655	ARG	O-C-N	-6.25	115.39	122.08
1	e	444	ARG	O-C-N	-6.25	115.59	122.84
1	k	377	GLU	CA-C-N	6.25	128.94	120.44
1	k	377	GLU	C-N-CA	6.25	128.94	120.44
1	n	643	ASN	N-CA-C	6.25	121.14	112.45
1	D	327	CYS	N-CA-C	6.25	118.85	110.35
1	Q	372	GLU	O-C-N	-6.25	115.63	122.07
1	U	288	ARG	NH1-CZ-NH2	-6.25	111.17	119.30
1	l	228	GLY	CA-C-N	6.25	129.81	120.69
1	l	228	GLY	C-N-CA	6.25	129.81	120.69
1	h	696	ILE	N-CA-C	6.25	118.90	111.09
1	p	633	TYR	N-CA-CB	6.25	119.41	110.16
1	t	674	ARG	CA-C-N	6.25	128.97	120.54
1	t	674	ARG	C-N-CA	6.25	128.97	120.54
1	v	525	GLU	CA-C-N	6.25	129.29	120.42
1	v	525	GLU	C-N-CA	6.25	129.29	120.42
1	x	93	TYR	O-C-N	-6.25	113.00	123.00
1	B	409	ALA	CA-C-N	6.25	132.95	121.70
1	B	409	ALA	C-N-CA	6.25	132.95	121.70
1	F	206	HIS	ND1-CE1-NE2	6.25	114.65	108.40
1	H	381	HIS	ND1-CE1-NE2	6.25	114.65	108.40
1	N	238	PRO	CB-CA-C	-6.25	103.23	111.23
1	T	292	ILE	CA-C-O	6.25	127.99	120.74
1	T	312	ARG	CA-C-N	6.25	132.65	122.65
1	T	312	ARG	C-N-CA	6.25	132.65	122.65
1	W	486	GLN	OE1-CD-NE2	-6.25	116.35	122.60
1	X	534	VAL	N-CA-C	6.25	116.99	110.62
1	Z	504	ILE	N-CA-C	6.25	117.03	110.72
1	2	476	ILE	O-C-N	-6.25	115.56	121.87
1	3	426	ILE	N-CA-C	6.25	117.03	110.72
1	a	305	LYS	N-CA-C	6.25	119.75	111.75
1	h	430	ASN	OD1-CG-ND2	-6.25	116.35	122.60
1	i	488	ARG	CA-C-O	6.25	127.17	120.55
1	u	208	LEU	N-CA-C	6.25	119.27	109.96
1	u	708	GLN	N-CA-C	6.25	118.09	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	394	ARG	CB-CA-C	6.25	121.16	110.79
1	C	537	LYS	O-C-N	-6.25	113.96	122.33
1	E	703	ARG	CD-NE-CZ	6.25	133.15	124.40
1	K	581	GLN	OE1-CD-NE2	-6.25	116.35	122.60
1	M	535	ALA	N-CA-C	6.25	117.75	111.07
1	O	505	VAL	CA-CB-CG1	6.25	121.02	110.40
1	X	513	VAL	N-CA-C	6.25	116.40	110.53
1	Y	444	ARG	NE-CZ-NH2	-6.25	113.58	119.20
1	e	316	TYR	N-CA-C	6.25	118.52	109.84
1	m	385	SER	N-CA-C	6.25	119.06	111.82
1	x	631	ASN	N-CA-C	6.25	118.09	111.28
1	Y	215	SER	CA-C-N	6.25	127.65	119.84
1	Y	215	SER	C-N-CA	6.25	127.65	119.84
1	9	217	GLU	CA-C-O	6.24	127.38	120.82
1	c	397	HIS	ND1-CE1-NE2	6.24	114.64	108.40
1	g	287	ASP	O-C-N	-6.24	115.50	122.12
1	k	435	LYS	N-CA-C	6.24	120.00	112.38
1	o	555	ASP	CA-C-N	6.24	128.55	120.56
1	o	555	ASP	C-N-CA	6.24	128.55	120.56
1	s	677	TRP	CA-C-N	6.24	128.93	120.38
1	s	677	TRP	C-N-CA	6.24	128.93	120.38
1	v	202	ARG	NH1-CZ-NH2	-6.24	111.18	119.30
1	z	175	ASN	OD1-CG-ND2	-6.24	116.36	122.60
1	E	593	ARG	N-CA-C	6.24	118.09	111.28
1	E	672	LYS	N-CA-C	6.24	118.09	111.28
1	R	118	LEU	N-CA-CB	6.24	121.48	110.37
1	S	698	ARG	NE-CZ-NH2	6.24	124.82	119.20
1	W	485	LYS	N-CA-C	6.24	119.06	111.82
1	j	682	GLN	N-CA-C	6.24	118.88	111.33
1	m	393	ILE	CB-CA-C	-6.24	103.98	111.97
1	H	664	ALA	CA-C-N	6.24	129.27	120.28
1	H	664	ALA	C-N-CA	6.24	129.27	120.28
1	L	304	GLU	O-C-N	-6.24	115.64	122.07
1	O	296	PRO	CA-C-N	6.24	128.93	120.38
1	O	296	PRO	C-N-CA	6.24	128.93	120.38
1	P	449	ARG	NE-CZ-NH1	6.24	127.74	121.50
1	0	455	ARG	NH1-CZ-NH2	-6.24	111.19	119.30
1	9	675	TYR	CA-CB-CG	-6.24	102.67	113.90
1	b	290	ILE	O-C-N	-6.24	116.98	123.03
1	j	112	VAL	N-CA-CB	6.24	122.11	111.50
1	n	193	ALA	N-CA-C	6.24	118.08	111.28
1	z	157	LEU	N-CA-C	-6.24	100.03	109.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	544	ASN	CA-C-O	6.24	127.16	120.55
1	H	425	LYS	CA-C-O	6.24	127.15	119.97
1	V	289	THR	N-CA-C	6.24	118.80	109.25
1	5	319	LYS	CA-C-O	6.24	127.05	119.38
1	6	106	SER	N-CA-CB	6.24	119.06	110.01
1	7	353	HIS	ND1-CE1-NE2	6.24	114.64	108.40
1	c	695	ARG	NE-CZ-NH2	6.24	124.81	119.20
1	p	191	HIS	CA-C-O	6.24	127.37	120.82
1	r	343	THR	O-C-N	-6.24	115.64	122.07
1	z	344	LYS	CA-C-N	6.24	128.96	120.54
1	z	344	LYS	C-N-CA	6.24	128.96	120.54
1	z	525	GLU	N-CA-CB	6.24	119.06	110.01
1	B	389	LEU	N-CA-C	-6.24	104.39	111.07
1	F	478	GLU	N-CA-C	6.24	118.16	111.36
1	I	173	TYR	CA-C-O	6.24	126.86	119.56
1	J	170	ARG	CD-NE-CZ	6.24	133.13	124.40
1	K	492	LEU	CA-C-O	6.24	129.43	120.51
1	M	290	ILE	CA-C-O	6.24	126.57	120.27
1	Z	151	THR	N-CA-C	6.24	118.79	109.25
1	Z	417	ASP	CA-C-N	6.24	128.55	120.44
1	Z	417	ASP	C-N-CA	6.24	128.55	120.44
1	v	492	LEU	N-CA-C	6.24	118.13	109.15
1	x	171	ILE	N-CA-CB	6.24	119.77	112.35
1	F	327	CYS	O-C-N	-6.24	115.91	122.96
1	F	397	HIS	ND1-CE1-NE2	6.24	114.64	108.40
1	Q	301	ARG	NE-CZ-NH2	-6.24	113.59	119.20
1	c	532	ILE	CA-C-O	-6.24	114.56	121.17
1	g	682	GLN	CA-C-N	6.24	128.96	120.54
1	g	682	GLN	C-N-CA	6.24	128.96	120.54
1	h	343	THR	CA-C-O	6.24	127.57	120.90
1	l	381	HIS	CG-CD2-NE2	6.24	113.44	107.20
1	s	560	HIS	CB-CA-C	6.24	121.45	110.85
1	y	508	TYR	CA-C-N	6.24	128.42	120.56
1	y	508	TYR	C-N-CA	6.24	128.42	120.56
1	L	298	LEU	CA-C-N	6.24	129.61	120.82
1	L	298	LEU	C-N-CA	6.24	129.61	120.82
1	O	245	ILE	CA-C-N	6.24	129.15	120.29
1	O	245	ILE	C-N-CA	6.24	129.15	120.29
1	Q	491	GLU	N-CA-CB	-6.24	101.53	110.57
1	V	320	LYS	CA-C-O	6.24	126.64	119.35
1	d	287	ASP	CA-CB-CG	-6.23	106.37	112.60
1	3	347	ILE	CA-C-O	-6.23	114.47	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7	195	ASN	OD1-CG-ND2	-6.23	116.37	122.60
1	9	378	LEU	O-C-N	-6.23	115.51	122.12
1	f	483	TYR	CA-C-O	-6.23	114.22	121.07
1	u	655	ARG	N-CA-CB	-6.23	101.03	110.07
1	y	253	ILE	O-C-N	-6.23	113.52	122.12
1	y	422	LEU	O-C-N	-6.23	114.93	122.22
1	z	280	HIS	CA-CB-CG	6.23	120.03	113.80
1	J	155	LEU	O-C-N	-6.23	115.98	123.27
1	J	170	ARG	CA-C-N	6.23	131.39	123.10
1	J	170	ARG	C-N-CA	6.23	131.39	123.10
1	J	336	ARG	NH1-CZ-NH2	-6.23	111.20	119.30
1	P	643	ASN	CA-C-N	6.23	128.54	120.44
1	P	643	ASN	C-N-CA	6.23	128.54	120.44
1	U	483	TYR	CA-C-N	6.23	128.54	120.44
1	U	483	TYR	C-N-CA	6.23	128.54	120.44
1	Y	529	GLN	O-C-N	-6.23	115.04	122.15
1	3	267	ASN	OD1-CG-ND2	-6.23	116.37	122.60
1	4	579	PHE	N-CA-C	6.23	118.45	107.61
1	c	141	VAL	N-CA-C	6.23	117.45	108.48
1	d	296	PRO	N-CA-CB	-6.23	97.28	103.20
1	m	147	SER	N-CA-C	6.23	118.50	110.65
1	n	419	MET	CA-C-N	6.23	129.14	120.29
1	n	419	MET	C-N-CA	6.23	129.14	120.29
1	n	640	ARG	N-CA-CB	6.23	119.04	110.01
1	w	273	THR	CA-CB-OG1	6.23	118.94	109.60
1	A	231	ARG	CA-C-N	6.23	128.85	120.50
1	A	231	ARG	C-N-CA	6.23	128.85	120.50
1	B	117	ALA	N-CA-C	6.23	118.07	111.28
1	J	238	PRO	N-CA-C	6.23	122.12	111.03
1	M	278	MET	CG-SD-CE	-6.23	87.19	100.90
1	W	339	LEU	O-C-N	-6.23	113.86	122.46
1	1	361	GLU	N-CA-CB	6.23	119.28	110.12
1	8	345	LYS	N-CA-C	6.23	117.87	111.14
1	u	640	ARG	O-C-N	-6.23	115.36	122.09
1	F	290	ILE	CA-C-N	6.23	128.08	120.92
1	F	290	ILE	C-N-CA	6.23	128.08	120.92
1	G	593	ARG	CA-CB-CG	-6.23	101.64	114.10
1	O	499	LYS	O-C-N	-6.23	115.65	122.07
1	Y	367	VAL	N-CA-CB	-6.23	102.67	110.33
1	Z	537	LYS	N-CA-C	6.23	118.07	111.28
1	1	295	LYS	CA-C-N	6.23	125.79	119.19
1	1	295	LYS	C-N-CA	6.23	125.79	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	690	ARG	N-CA-C	6.23	124.06	110.80
1	4	405	ARG	NE-CZ-NH1	6.23	127.73	121.50
1	o	103	LEU	N-CA-C	6.23	118.58	111.11
1	F	239	ARG	CD-NE-CZ	6.23	133.12	124.40
1	H	390	GLU	CA-C-N	6.23	126.89	119.98
1	H	390	GLU	C-N-CA	6.23	126.89	119.98
1	M	105	ASP	CA-C-N	6.23	128.91	120.44
1	M	105	ASP	C-N-CA	6.23	128.91	120.44
1	Q	200	ASN	OD1-CG-ND2	-6.23	116.37	122.60
1	U	405	ARG	N-CA-C	6.23	118.07	111.28
1	Z	704	HIS	ND1-CE1-NE2	6.23	114.63	108.40
1	0	135	LEU	O-C-N	-6.23	114.61	122.27
1	m	226	LEU	N-CA-C	6.23	118.49	109.84
1	t	544	ASN	N-CA-C	6.23	118.07	111.28
1	E	625	GLU	O-C-N	-6.23	115.66	122.07
1	5	576	GLN	OE1-CD-NE2	-6.22	116.38	122.60
1	6	569	GLN	OE1-CD-NE2	-6.22	116.38	122.60
1	6	634	PHE	N-CA-C	6.22	118.07	111.28
1	8	591	LYS	CA-C-N	6.22	128.99	120.46
1	8	591	LYS	C-N-CA	6.22	128.99	120.46
1	a	195	ASN	CA-C-O	6.22	127.11	120.70
1	c	625	GLU	N-CA-C	6.22	118.15	111.36
1	e	232	VAL	CA-CB-CG1	-6.22	99.82	110.40
1	f	184	GLY	N-CA-C	6.22	121.31	114.40
1	h	511	GLN	OE1-CD-NE2	-6.22	116.38	122.60
1	m	134	VAL	CA-C-N	6.22	129.13	120.29
1	m	134	VAL	C-N-CA	6.22	129.13	120.29
1	n	374	LEU	N-CA-C	6.22	117.73	111.07
1	o	676	SER	CA-C-O	6.22	127.02	120.42
1	q	268	VAL	O-C-N	-6.22	116.64	123.18
1	r	624	THR	O-C-N	-6.22	115.52	122.12
1	u	431	GLN	N-CA-CB	6.22	119.03	110.01
1	x	276	LEU	O-C-N	-6.22	115.05	122.15
1	y	435	LYS	CA-C-N	6.22	128.62	120.28
1	y	435	LYS	C-N-CA	6.22	128.62	120.28
1	z	597	PHE	CA-CB-CG	-6.22	107.58	113.80
1	K	544	ASN	CA-C-N	6.22	128.53	120.44
1	K	544	ASN	C-N-CA	6.22	128.53	120.44
1	L	286	GLY	CA-C-N	6.22	128.90	120.44
1	L	286	GLY	C-N-CA	6.22	128.90	120.44
1	L	701	GLN	CA-CB-CG	-6.22	101.65	114.10
1	P	660	SER	CA-C-O	6.22	127.15	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	703	ARG	NH1-CZ-NH2	-6.22	111.21	119.30
1	5	521	GLN	OE1-CD-NE2	6.22	128.82	122.60
1	l	283	ASP	CA-CB-CG	6.22	118.82	112.60
1	p	143	LEU	CA-C-N	6.22	127.62	119.84
1	p	143	LEU	C-N-CA	6.22	127.62	119.84
1	y	366	THR	CA-CB-OG1	6.22	118.93	109.60
1	z	366	THR	CA-C-O	6.22	125.98	119.14
1	R	329	GLY	CA-C-N	6.22	129.13	120.29
1	R	329	GLY	C-N-CA	6.22	129.13	120.29
1	m	218	VAL	CA-C-N	6.22	126.25	119.90
1	m	218	VAL	C-N-CA	6.22	126.25	119.90
1	p	574	MET	CA-C-O	-6.22	114.29	120.82
1	I	514	GLU	CA-C-N	6.22	125.95	119.05
1	I	514	GLU	C-N-CA	6.22	125.95	119.05
1	T	529	GLN	CG-CD-NE2	6.22	125.73	116.40
1	f	597	PHE	N-CA-C	6.22	118.06	111.28
1	h	182	ASP	CA-CB-CG	6.22	118.82	112.60
1	i	563	LYS	CA-C-O	6.22	127.35	120.82
1	v	444	ARG	NH1-CZ-NH2	-6.22	111.21	119.30
1	y	303	THR	CA-C-O	6.22	127.01	120.42
1	z	627	GLY	N-CA-C	6.22	120.17	112.64
1	C	576	GLN	N-CA-C	6.22	118.06	111.28
1	I	94	GLU	N-CA-C	6.22	118.14	111.36
1	T	503	ILE	O-C-N	-6.22	115.82	121.91
1	Z	579	PHE	N-CA-C	6.22	118.75	108.99
1	5	290	ILE	CA-C-N	6.22	126.65	120.31
1	5	290	ILE	C-N-CA	6.22	126.65	120.31
1	7	587	VAL	CA-C-N	6.22	128.98	120.46
1	7	587	VAL	C-N-CA	6.22	128.98	120.46
1	t	567	MET	CG-SD-CE	-6.22	87.22	100.90
1	x	356	PHE	O-C-N	-6.22	115.37	122.09
1	A	456	GLU	O-C-N	-6.22	115.62	122.09
1	D	297	ASP	CA-CB-CG	6.22	118.82	112.60
1	P	255	ARG	NE-CZ-NH1	6.22	127.72	121.50
1	0	394	ARG	NE-CZ-NH1	6.22	127.72	121.50
1	3	394	ARG	NE-CZ-NH1	6.22	127.72	121.50
1	3	548	THR	CA-CB-OG1	6.22	118.93	109.60
1	4	444	ARG	N-CA-CB	6.22	119.25	110.36
1	5	212	GLU	CA-C-O	6.22	127.16	120.38
1	7	402	GLU	O-C-N	-6.22	115.53	122.12
1	9	662	GLN	CA-C-N	6.22	128.52	120.44
1	9	662	GLN	C-N-CA	6.22	128.52	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	d	152	ARG	NE-CZ-NH1	6.22	127.72	121.50
1	d	278	MET	CA-C-N	6.22	128.89	120.44
1	d	278	MET	C-N-CA	6.22	128.89	120.44
1	f	215	SER	CB-CA-C	6.22	119.31	109.55
1	j	472	VAL	O-C-N	6.22	128.82	121.80
1	r	571	GLN	OE1-CD-NE2	-6.22	116.38	122.60
1	x	243	LEU	O-C-N	-6.22	115.53	122.12
1	x	585	TYR	O-C-N	6.22	128.71	122.12
1	A	236	ASN	OD1-CG-ND2	-6.22	116.38	122.60
1	B	108	ARG	N-CA-C	6.22	118.61	111.02
1	C	113	GLU	CA-C-O	6.22	126.58	119.18
1	K	510	GLN	OE1-CD-NE2	6.22	128.82	122.60
1	N	455	ARG	NE-CZ-NH2	-6.22	113.61	119.20
1	T	226	LEU	CA-C-O	-6.22	114.97	120.19
1	T	250	LYS	N-CA-C	6.22	119.96	112.38
1	Z	229	ILE	CA-C-N	6.22	128.61	120.28
1	Z	229	ILE	C-N-CA	6.22	128.61	120.28
1	8	645	ILE	N-CA-CB	-6.21	106.58	110.50
1	b	658	GLY	O-C-N	-6.21	116.21	122.18
1	i	483	TYR	CB-CA-C	6.21	121.11	110.79
1	l	644	GLN	CB-CA-C	-6.21	100.47	110.79
1	o	348	THR	CA-CB-OG1	-6.21	100.28	109.60
1	q	441	GLU	CA-C-N	6.21	132.13	121.63
1	q	441	GLU	C-N-CA	6.21	132.13	121.63
1	B	134	VAL	N-CA-C	6.21	116.39	110.42
1	Z	512	LEU	CA-C-O	6.21	125.98	119.14
1	3	439	GLY	O-C-N	-6.21	115.07	122.34
1	F	634	PHE	O-C-N	-6.21	115.53	122.12
1	G	702	ALA	CA-C-N	6.21	128.52	120.44
1	G	702	ALA	C-N-CA	6.21	128.52	120.44
1	O	373	ARG	NE-CZ-NH2	-6.21	113.61	119.20
1	U	706	LEU	N-CA-C	6.21	118.05	111.28
1	4	350	PHE	O-C-N	-6.21	115.07	122.15
1	4	698	ARG	NE-CZ-NH1	6.21	127.71	121.50
1	d	464	ILE	N-CA-C	6.21	117.70	110.62
1	j	567	MET	CG-SD-CE	-6.21	87.24	100.90
1	E	228	GLY	CA-C-O	-6.21	115.93	121.64
1	I	691	ILE	CB-CG1-CD1	6.21	126.84	113.80
1	J	460	ASN	CA-C-N	6.21	128.51	120.44
1	J	460	ASN	C-N-CA	6.21	128.51	120.44
1	O	498	TYR	N-CA-CB	-6.21	101.00	110.01
1	T	278	MET	CA-C-O	6.21	127.34	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	502	GLU	CA-C-N	6.21	128.39	120.56
1	T	502	GLU	C-N-CA	6.21	128.39	120.56
1	O	522	LYS	CA-C-O	6.21	127.34	120.82
1	V	381	HIS	CE1-NE2-CD2	-6.21	102.79	109.00
1	5	528	GLN	CA-C-N	6.21	128.51	120.44
1	5	528	GLN	C-N-CA	6.21	128.51	120.44
1	a	564	ALA	CA-C-N	6.21	128.51	120.44
1	a	564	ALA	C-N-CA	6.21	128.51	120.44
1	h	524	MET	N-CA-C	6.21	118.05	111.28
1	v	406	ARG	O-C-N	6.21	130.97	122.46
1	x	497	ASN	CA-CB-CG	-6.21	106.39	112.60
1	z	684	GLU	N-CA-C	6.21	117.85	111.14
1	A	385	SER	CA-C-N	6.21	128.58	120.26
1	A	385	SER	C-N-CA	6.21	128.58	120.26
1	B	245	ILE	CA-C-N	6.21	129.11	120.29
1	B	245	ILE	C-N-CA	6.21	129.11	120.29
1	B	261	LEU	CA-C-O	6.21	127.15	120.32
1	G	390	GLU	N-CA-C	6.21	118.84	111.33
1	N	649	ILE	O-C-N	-6.21	115.83	121.91
1	P	377	GLU	CA-C-N	6.21	128.51	120.44
1	P	377	GLU	C-N-CA	6.21	128.51	120.44
1	W	481	GLU	CA-C-N	6.21	128.51	120.44
1	W	481	GLU	C-N-CA	6.21	128.51	120.44
1	X	225	ASP	N-CA-CB	-6.21	99.74	110.17
1	1	353	HIS	O-C-N	-6.21	115.64	121.35
1	4	426	ILE	N-CA-C	6.21	116.88	110.36
1	p	338	SER	CA-C-N	6.21	128.51	120.44
1	p	338	SER	C-N-CA	6.21	128.51	120.44
1	q	238	PRO	CA-C-N	6.21	129.65	120.90
1	q	238	PRO	C-N-CA	6.21	129.65	120.90
1	s	209	ILE	N-CA-CB	6.21	117.94	110.31
1	u	550	GLN	OE1-CD-NE2	-6.21	116.39	122.60
1	x	239	ARG	CA-C-N	6.21	132.87	121.70
1	x	239	ARG	C-N-CA	6.21	132.87	121.70
1	G	239	ARG	CA-C-N	6.21	132.87	121.70
1	G	239	ARG	C-N-CA	6.21	132.87	121.70
1	K	288	ARG	NH1-CZ-NH2	-6.21	111.23	119.30
1	N	535	ALA	N-CA-C	-6.21	104.43	111.07
1	Z	187	GLU	CA-C-O	6.21	127.87	120.92
1	g	216	PRO	N-CA-C	-6.21	105.89	114.27
1	h	664	ALA	O-C-N	-6.21	113.90	122.46
1	k	701	GLN	OE1-CD-NE2	-6.21	116.39	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	m	257	GLN	CA-C-N	6.21	131.24	121.56
1	m	257	GLN	C-N-CA	6.21	131.24	121.56
1	q	185	GLN	CA-C-N	6.21	129.28	120.53
1	q	185	GLN	C-N-CA	6.21	129.28	120.53
1	v	177	GLU	CB-CA-C	6.21	120.93	109.70
1	6	540	GLY	N-CA-C	6.20	120.40	112.83
1	8	567	MET	CG-SD-CE	-6.20	87.25	100.90
1	g	484	GLU	N-CA-C	6.20	118.04	111.28
1	p	204	ILE	O-C-N	-6.20	116.36	123.00
1	w	225	ASP	CB-CA-C	6.20	119.97	109.80
1	y	667	GLN	CA-C-N	6.20	129.28	120.53
1	y	667	GLN	C-N-CA	6.20	129.28	120.53
1	B	246	LYS	CA-C-N	6.20	129.10	120.29
1	B	246	LYS	C-N-CA	6.20	129.10	120.29
1	B	291	GLY	O-C-N	-6.20	117.66	122.99
1	G	514	GLU	CA-C-N	6.20	127.59	119.84
1	G	514	GLU	C-N-CA	6.20	127.59	119.84
1	H	145	ARG	NE-CZ-NH2	-6.20	113.62	119.20
1	R	233	ALA	N-CA-C	6.20	119.48	110.42
1	7	341	GLU	N-CA-C	6.20	118.04	111.28
1	g	191	HIS	N-CA-C	6.20	118.83	111.33
1	p	217	GLU	CA-C-O	6.20	125.62	118.55
1	J	244	GLN	N-CA-C	6.20	117.71	111.07
1	e	495	PHE	N-CA-CB	6.20	121.04	110.50
1	g	559	LYS	N-CA-C	6.20	118.04	111.28
1	r	113	GLU	O-C-N	-6.20	114.34	122.59
1	t	690	ARG	CB-CA-C	-6.20	100.50	110.79
1	E	189	GLU	CA-C-N	6.20	128.95	120.46
1	E	189	GLU	C-N-CA	6.20	128.95	120.46
1	R	665	MET	CA-C-N	6.20	129.09	120.29
1	R	665	MET	C-N-CA	6.20	129.09	120.29
1	Y	483	TYR	O-C-N	-6.20	115.58	122.03
1	7	189	GLU	CA-C-O	6.20	127.33	120.82
1	c	559	LYS	CA-C-O	6.20	127.10	119.79
1	c	566	ASN	OD1-CG-ND2	-6.20	116.40	122.60
1	d	235	ASP	CA-C-N	6.20	129.51	120.71
1	d	235	ASP	C-N-CA	6.20	129.51	120.71
1	k	546	ASN	O-C-N	-6.20	115.55	122.12
1	l	249	ILE	N-CA-C	6.20	116.37	110.42
1	p	459	LYS	CB-CA-C	-6.20	100.50	110.79
1	u	100	CYS	O-C-N	-6.20	115.58	122.03
1	u	134	VAL	CA-C-O	6.20	127.74	121.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	y	109	ALA	CB-CA-C	-6.20	100.38	110.79
1	A	218	VAL	N-CA-C	6.20	114.78	109.02
1	D	661	LEU	N-CA-C	6.20	118.04	111.28
1	J	110	LEU	N-CA-C	-6.20	105.30	112.92
1	P	143	LEU	CA-C-N	6.20	127.59	119.84
1	P	143	LEU	C-N-CA	6.20	127.59	119.84
1	R	450	LEU	N-CA-C	6.20	117.70	111.07
1	0	538	HIS	CE1-NE2-CD2	-6.20	102.80	109.00
1	l	274	GLU	O-C-N	-6.20	114.65	122.27
1	b	530	ALA	O-C-N	-6.20	115.69	122.07
1	j	191	HIS	CA-C-N	6.20	128.50	120.44
1	j	191	HIS	C-N-CA	6.20	128.50	120.44
1	D	357	ARG	NE-CZ-NH2	-6.20	113.62	119.20
1	Q	402	GLU	CA-C-O	6.20	126.99	120.42
1	S	527	ILE	N-CA-C	6.20	116.94	110.62
1	W	314	LEU	N-CA-CB	-6.20	101.24	111.53
1	p	376	THR	N-CA-C	6.20	117.70	111.07
1	r	533	ASN	N-CA-CB	6.20	119.23	110.12
1	w	108	ARG	NH1-CZ-NH2	-6.20	111.25	119.30
1	C	435	LYS	O-C-N	-6.20	115.55	122.12
1	I	276	LEU	CA-C-O	6.20	127.12	120.55
1	O	333	ILE	N-CA-C	6.20	117.75	111.00
1	S	452	ASN	CA-CB-CG	-6.20	106.41	112.60
1	V	688	LYS	CA-C-N	6.20	128.58	120.28
1	V	688	LYS	C-N-CA	6.20	128.58	120.28
1	Y	449	ARG	NH1-CZ-NH2	-6.20	111.25	119.30
1	l	539	PHE	CA-C-N	6.19	127.88	120.14
1	l	539	PHE	C-N-CA	6.19	127.88	120.14
1	g	318	LEU	O-C-N	-6.19	115.93	123.30
1	g	333	ILE	N-CA-C	6.19	116.94	110.62
1	4	574	MET	O-C-N	-6.19	115.56	122.12
1	6	97	VAL	O-C-N	-6.19	114.94	122.12
1	e	428	MET	N-CA-CB	6.19	119.33	110.16
1	h	682	GLN	CA-C-N	6.19	132.85	121.70
1	h	682	GLN	C-N-CA	6.19	132.85	121.70
1	j	373	ARG	NE-CZ-NH1	-6.19	115.31	121.50
1	j	431	GLN	O-C-N	-6.19	115.69	122.07
1	z	247	ALA	O-C-N	-6.19	115.09	122.15
1	z	396	SER	O-C-N	-6.19	115.09	122.15
1	z	570	LEU	CA-C-O	6.19	127.32	120.82
1	C	152	ARG	NE-CZ-NH2	-6.19	113.63	119.20
1	I	212	GLU	CA-C-O	6.19	127.90	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	140	GLY	O-C-N	-6.19	115.19	122.50
1	R	684	GLU	N-CA-C	6.19	117.70	111.07
1	U	450	LEU	CA-C-N	6.19	128.90	120.54
1	U	450	LEU	C-N-CA	6.19	128.90	120.54
1	0	313	ASN	OD1-CG-ND2	-6.19	116.41	122.60
1	2	248	LEU	N-CA-C	6.19	118.03	111.28
1	4	555	ASP	N-CA-C	6.19	118.03	111.28
1	6	162	GLN	OE1-CD-NE2	-6.19	116.41	122.60
1	f	458	PHE	CA-CB-CG	6.19	119.99	113.80
1	k	506	HIS	N-CA-CB	6.19	118.99	110.01
1	k	560	HIS	ND1-CE1-NE2	6.19	114.59	108.40
1	p	344	LYS	O-C-N	-6.19	115.09	122.15
1	t	255	ARG	CD-NE-CZ	-6.19	115.73	124.40
1	C	485	LYS	N-CA-C	6.19	119.00	111.82
1	C	561	THR	O-C-N	-6.19	115.56	122.12
1	K	143	LEU	CA-C-O	-6.19	114.51	119.71
1	d	517	LEU	CA-C-N	6.19	128.86	120.38
1	d	517	LEU	C-N-CA	6.19	128.86	120.38
1	k	497	ASN	CA-CB-CG	-6.19	106.41	112.60
1	u	626	ILE	CA-C-O	6.19	127.39	120.95
1	w	446	ASN	CA-CB-CG	-6.19	106.41	112.60
1	K	297	ASP	CA-CB-CG	6.19	118.79	112.60
1	M	227	PRO	N-CA-C	6.19	121.35	111.26
1	2	421	PHE	N-CA-C	6.19	118.02	111.28
1	4	93	TYR	CB-CA-C	6.19	121.86	110.10
1	8	478	GLU	N-CA-CB	-6.19	101.04	110.01
1	9	235	ASP	CA-C-N	6.19	133.36	121.54
1	9	235	ASP	C-N-CA	6.19	133.36	121.54
1	d	672	LYS	CA-C-N	6.19	132.08	122.49
1	d	672	LYS	C-N-CA	6.19	132.08	122.49
1	f	106	SER	N-CA-CB	6.19	119.04	110.07
1	g	555	ASP	N-CA-C	6.19	118.53	111.11
1	P	499	LYS	N-CA-C	6.19	118.02	111.28
1	5	511	GLN	CA-C-O	-6.19	113.11	120.10
1	9	460	ASN	N-CA-C	6.19	117.69	111.07
1	g	482	LYS	N-CA-C	6.19	118.02	111.28
1	l	205	SER	CA-C-O	6.19	128.02	120.60
1	l	312	ARG	NE-CZ-NH2	-6.19	113.63	119.20
1	n	398	GLN	OE1-CD-NE2	-6.19	116.41	122.60
1	p	303	THR	CA-C-N	6.19	128.48	120.44
1	p	303	THR	C-N-CA	6.19	128.48	120.44
1	v	426	ILE	O-C-N	-6.19	115.46	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	503	ILE	CA-CB-CG2	6.19	121.02	110.50
1	F	689	ARG	NE-CZ-NH2	-6.19	113.63	119.20
1	Q	130	GLY	CA-C-N	6.19	133.36	121.54
1	Q	130	GLY	C-N-CA	6.19	133.36	121.54
1	U	592	VAL	CA-C-O	6.19	127.38	120.95
1	Z	634	PHE	N-CA-CB	6.19	119.21	110.12
1	e	156	VAL	N-CA-CB	6.18	119.02	111.60
1	f	580	CYS	N-CA-CB	-6.18	101.33	111.66
1	i	288	ARG	O-C-N	6.18	130.26	122.22
1	w	239	ARG	CA-C-N	6.18	132.83	121.70
1	w	239	ARG	C-N-CA	6.18	132.83	121.70
1	z	316	TYR	CB-CA-C	6.18	119.30	110.02
1	A	127	GLN	CA-C-N	6.18	129.19	120.28
1	A	127	GLN	C-N-CA	6.18	129.19	120.28
1	C	358	VAL	CB-CA-C	-6.18	104.05	111.97
1	E	709	PHE	CA-CB-CG	6.18	119.98	113.80
1	T	426	ILE	CA-C-N	6.18	128.57	120.28
1	T	426	ILE	C-N-CA	6.18	128.57	120.28
1	W	313	ASN	N-CA-C	-6.18	105.77	113.38
1	1	538	HIS	N-CA-C	6.18	118.10	111.36
1	2	494	GLY	O-C-N	-6.18	117.63	123.81
1	5	398	GLN	CA-C-N	6.18	128.56	120.28
1	5	398	GLN	C-N-CA	6.18	128.56	120.28
1	b	699	LEU	O-C-N	-6.18	115.10	122.15
1	c	173	TYR	CA-C-O	6.18	126.98	119.38
1	t	589	LEU	O-C-N	6.18	129.20	122.15
1	B	532	ILE	CA-C-O	6.18	127.40	120.85
1	F	356	PHE	N-CA-C	6.18	118.81	111.33
1	N	580	CYS	CA-C-O	-6.18	114.61	121.23
1	P	579	PHE	N-CA-C	-6.18	99.33	108.79
1	P	695	ARG	NE-CZ-NH2	-6.18	113.64	119.20
1	Z	505	VAL	CB-CA-C	-6.18	103.79	112.14
1	c	398	GLN	N-CA-C	6.18	117.68	111.07
1	z	387	PRO	CA-C-N	6.18	128.56	120.28
1	z	387	PRO	C-N-CA	6.18	128.56	120.28
1	D	698	ARG	O-C-N	-6.18	115.70	122.07
1	E	554	GLU	N-CA-C	6.18	117.68	111.07
1	M	592	VAL	N-CA-C	6.18	116.92	110.62
1	R	155	LEU	CA-C-O	6.18	127.07	120.46
1	S	449	ARG	NE-CZ-NH1	6.18	127.68	121.50
1	T	342	ALA	N-CA-C	6.18	118.02	111.28
1	T	394	ARG	N-CA-C	6.18	118.10	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	562	ALA	N-CA-C	6.18	118.02	111.28
1	4	471	LYS	CA-C-N	6.18	131.04	121.34
1	4	471	LYS	C-N-CA	6.18	131.04	121.34
1	4	631	ASN	O-C-N	-6.18	115.70	122.07
1	b	196	VAL	CA-C-N	6.18	128.47	120.44
1	b	196	VAL	C-N-CA	6.18	128.47	120.44
1	e	418	LYS	CA-C-O	6.18	127.31	120.82
1	f	361	GLU	N-CA-C	6.18	118.81	111.33
1	g	700	THR	N-CA-C	6.18	118.02	111.28
1	i	584	ILE	CA-C-N	6.18	128.84	120.38
1	i	584	ILE	C-N-CA	6.18	128.84	120.38
1	m	444	ARG	NE-CZ-NH2	-6.18	113.64	119.20
1	o	336	ARG	CA-C-N	6.18	130.08	120.75
1	o	336	ARG	C-N-CA	6.18	130.08	120.75
1	B	320	LYS	N-CA-CB	-6.18	101.54	110.56
1	I	101	ILE	CA-C-O	-6.18	114.62	121.17
1	I	328	ARG	NE-CZ-NH2	-6.18	113.64	119.20
1	J	667	GLN	CA-C-N	6.18	128.93	120.46
1	J	667	GLN	C-N-CA	6.18	128.93	120.46
1	P	522	LYS	CA-C-N	6.18	128.47	120.44
1	P	522	LYS	C-N-CA	6.18	128.47	120.44
1	Q	156	VAL	N-CA-CB	6.18	117.27	110.53
1	R	658	GLY	CA-C-N	6.18	128.47	120.44
1	R	658	GLY	C-N-CA	6.18	128.47	120.44
1	R	695	ARG	N-CA-CB	6.18	118.97	110.01
1	X	289	THR	CA-C-O	6.18	127.11	120.38
1	Z	468	ASN	OD1-CG-ND2	-6.18	116.42	122.60
1	a	124	ILE	O-C-N	-6.18	116.69	123.18
1	f	105	ASP	N-CA-CB	-6.18	100.70	110.28
1	r	353	HIS	O-C-N	-6.18	115.67	121.72
1	w	278	MET	N-CA-C	6.18	118.81	111.33
1	N	244	GLN	N-CA-C	6.18	118.09	111.36
1	N	389	LEU	N-CA-C	-6.18	104.46	111.07
1	P	578	VAL	CB-CA-C	6.18	118.57	110.91
1	Y	705	ALA	CA-C-N	6.18	129.18	120.28
1	Y	705	ALA	C-N-CA	6.18	129.18	120.28
1	Z	683	SER	CA-C-N	6.18	128.88	120.54
1	Z	683	SER	C-N-CA	6.18	128.88	120.54
1	7	444	ARG	CA-C-N	6.18	130.13	121.24
1	7	444	ARG	C-N-CA	6.18	130.13	121.24
1	g	362	GLU	CA-C-O	6.18	127.06	120.70
1	n	357	ARG	CA-C-O	6.18	127.07	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	p	684	GLU	N-CA-C	6.18	121.56	111.37
1	r	263	VAL	N-CA-CB	6.18	117.45	110.72
1	s	416	ALA	CA-C-N	6.18	128.56	120.28
1	s	416	ALA	C-N-CA	6.18	128.56	120.28
1	s	695	ARG	CA-C-N	6.18	128.57	120.60
1	s	695	ARG	C-N-CA	6.18	128.57	120.60
1	x	218	VAL	O-C-N	6.18	127.55	120.69
1	N	333	ILE	CA-C-N	6.18	128.47	120.44
1	N	333	ILE	C-N-CA	6.18	128.47	120.44
1	N	561	THR	CA-C-N	6.18	128.84	120.38
1	N	561	THR	C-N-CA	6.18	128.84	120.38
1	O	353	HIS	O-C-N	-6.18	115.89	121.39
1	O	479	GLU	N-CA-C	6.18	117.68	111.07
1	W	533	ASN	N-CA-CB	-6.18	101.05	110.01
1	X	696	ILE	CA-C-N	6.18	128.56	120.28
1	X	696	ILE	C-N-CA	6.18	128.56	120.28
1	2	302	GLY	CA-C-O	-6.17	113.73	120.40
1	2	695	ARG	O-C-N	-6.17	115.71	122.07
1	3	460	ASN	CA-CB-CG	-6.17	106.42	112.60
1	8	704	HIS	N-CA-CB	6.17	118.96	110.01
1	f	152	ARG	N-CA-C	-6.17	105.65	113.43
1	f	480	VAL	N-CA-C	6.17	116.92	110.62
1	g	471	LYS	N-CA-C	6.17	118.01	111.28
1	g	563	LYS	N-CA-C	6.17	117.68	111.07
1	k	147	SER	O-C-N	-6.17	114.38	122.59
1	k	309	ASN	N-CA-C	6.17	118.09	111.36
1	n	666	MET	O-C-N	-6.17	114.06	122.33
1	o	460	ASN	CA-C-N	6.17	128.47	120.44
1	o	460	ASN	C-N-CA	6.17	128.47	120.44
1	q	444	ARG	O-C-N	-6.17	115.75	122.79
1	G	234	VAL	CA-C-N	6.17	133.33	121.54
1	G	234	VAL	C-N-CA	6.17	133.33	121.54
1	S	342	ALA	N-CA-C	6.17	118.98	111.82
1	V	685	THR	CA-C-O	6.17	127.30	120.82
1	W	174	ARG	CA-C-O	6.17	127.18	119.59
1	b	569	GLN	N-CA-C	6.17	120.01	112.23
1	d	429	PHE	CA-C-O	6.17	127.30	120.82
1	m	519	MET	CA-C-O	6.17	127.09	120.55
1	s	191	HIS	CA-CB-CG	-6.17	107.63	113.80
1	w	189	GLU	N-CA-C	6.17	119.28	111.69
1	N	269	ASP	N-CA-C	6.17	118.75	110.35
1	O	565	GLU	CA-C-N	6.17	129.06	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	565	GLU	C-N-CA	6.17	129.06	120.29
1	2	505	VAL	N-CA-C	6.17	116.91	110.62
1	6	208	LEU	N-CA-C	6.17	118.94	110.24
1	7	704	HIS	ND1-CE1-NE2	6.17	114.57	108.40
1	b	237	GLN	CA-C-N	6.17	127.55	119.84
1	b	237	GLN	C-N-CA	6.17	127.55	119.84
1	B	366	THR	N-CA-C	-6.17	105.75	113.28
1	C	144	PRO	N-CA-C	6.17	121.02	111.21
1	E	376	THR	N-CA-C	6.17	117.67	111.07
1	F	262	VAL	N-CA-CB	6.17	119.93	111.41
1	J	276	LEU	O-C-N	-6.17	115.11	122.15
1	L	348	THR	N-CA-C	6.17	118.52	111.11
1	N	235	ASP	CA-C-N	6.17	130.13	121.24
1	N	235	ASP	C-N-CA	6.17	130.13	121.24
1	Q	168	ALA	CA-C-N	6.17	129.41	121.27
1	Q	168	ALA	C-N-CA	6.17	129.41	121.27
1	T	652	PHE	CA-CB-CG	-6.17	107.63	113.80
1	U	678	LEU	N-CA-C	6.17	118.01	111.28
1	g	334	THR	N-CA-C	6.17	118.81	111.71
1	k	183	PRO	N-CA-C	6.17	121.86	113.84
1	w	455	ARG	CA-C-O	6.17	127.09	120.55
1	W	702	ALA	N-CA-C	6.17	118.00	111.28
1	0	584	ILE	CA-C-N	6.17	129.05	120.29
1	0	584	ILE	C-N-CA	6.17	129.05	120.29
1	3	217	GLU	N-CA-C	6.17	117.67	111.07
1	3	574	MET	CA-C-O	6.17	127.09	120.55
1	k	360	LEU	O-C-N	6.17	128.75	122.09
1	o	436	LEU	CA-C-N	6.17	128.91	120.46
1	o	436	LEU	C-N-CA	6.17	128.91	120.46
1	p	663	LYS	CA-C-N	6.17	128.55	120.28
1	p	663	LYS	C-N-CA	6.17	128.55	120.28
1	s	210	SER	O-C-N	-6.17	114.98	123.12
1	w	236	ASN	CA-CB-CG	-6.17	106.43	112.60
1	D	168	ALA	CA-C-N	6.17	126.89	121.58
1	D	168	ALA	C-N-CA	6.17	126.89	121.58
1	I	562	ALA	N-CA-CB	-6.17	100.72	110.22
1	K	532	ILE	N-CA-C	6.17	116.84	110.36
1	M	191	HIS	CA-CB-CG	6.17	119.97	113.80
1	Q	424	GLU	N-CA-C	6.17	118.55	111.02
1	Q	694	GLU	O-C-N	-6.17	115.58	122.12
1	W	667	GLN	CA-C-O	6.17	127.09	120.55
1	Y	519	MET	N-CA-C	6.17	117.67	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	469	THR	CA-C-O	6.17	127.50	120.90
1	2	548	THR	N-CA-C	6.17	118.08	111.36
1	2	640	ARG	CA-C-N	6.17	129.04	120.29
1	2	640	ARG	C-N-CA	6.17	129.04	120.29
1	4	356	PHE	N-CA-C	6.17	118.00	111.28
1	f	413	SER	N-CA-C	6.17	120.81	113.16
1	h	480	VAL	N-CA-CB	6.17	118.18	110.47
1	h	649	ILE	O-C-N	-6.17	115.89	121.87
1	i	565	GLU	N-CA-C	6.17	117.67	111.07
1	n	301	ARG	NE-CZ-NH1	6.17	127.67	121.50
1	n	386	LEU	O-C-N	-6.17	114.69	120.55
1	o	154	PRO	N-CA-CB	6.17	109.72	103.25
1	q	689	ARG	NE-CZ-NH2	-6.17	113.65	119.20
1	r	645	ILE	O-C-N	6.17	124.37	120.42
1	E	640	ARG	NE-CZ-NH1	6.17	127.67	121.50
1	G	400	ALA	N-CA-C	6.17	118.00	111.28
1	N	152	ARG	NE-CZ-NH2	-6.17	113.65	119.20
1	T	540	GLY	N-CA-C	6.17	120.10	112.64
1	W	373	ARG	NE-CZ-NH1	6.17	127.67	121.50
1	X	342	ALA	CA-C-N	6.17	128.54	120.28
1	X	342	ALA	C-N-CA	6.17	128.54	120.28
1	5	297	ASP	CA-C-N	6.17	131.16	120.68
1	5	297	ASP	C-N-CA	6.17	131.16	120.68
1	9	393	ILE	CA-C-N	6.17	128.54	120.28
1	9	393	ILE	C-N-CA	6.17	128.54	120.28
1	c	415	GLU	N-CA-C	6.17	118.80	111.71
1	k	101	ILE	CB-CA-C	-6.17	103.82	112.14
1	o	496	VAL	O-C-N	-6.17	115.41	122.62
1	p	369	ARG	NE-CZ-NH2	6.17	124.75	119.20
1	v	563	LYS	N-CA-C	6.17	117.67	111.07
1	x	514	GLU	O-C-N	-6.17	114.92	120.71
1	A	93	TYR	CB-CG-CD1	-6.17	111.55	120.80
1	H	136	GLU	O-C-N	-6.17	115.17	122.20
1	H	237	GLN	OE1-CD-NE2	-6.17	116.44	122.60
1	R	701	GLN	N-CA-C	6.17	118.08	111.36
1	j	671	GLU	CB-CG-CD	6.16	123.08	112.60
1	n	112	VAL	CA-C-N	6.16	129.04	120.29
1	n	112	VAL	C-N-CA	6.16	129.04	120.29
1	o	227	PRO	CA-C-N	6.16	126.60	120.31
1	o	227	PRO	C-N-CA	6.16	126.60	120.31
1	p	136	GLU	O-C-N	-6.16	115.68	122.09
1	s	698	ARG	NE-CZ-NH2	-6.16	113.65	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	649	ILE	N-CA-C	6.16	116.94	110.72
1	H	339	LEU	N-CA-C	6.16	118.79	111.33
1	J	538	HIS	N-CA-CB	6.16	118.92	109.98
1	Q	115	ASP	CA-CB-CG	6.16	118.76	112.60
1	X	120	ALA	N-CA-C	6.16	118.73	110.35
1	X	286	GLY	CA-C-N	6.16	129.04	120.29
1	X	286	GLY	C-N-CA	6.16	129.04	120.29
1	Z	633	TYR	N-CA-C	-6.16	104.11	111.69
1	2	665	MET	N-CA-C	6.16	118.97	111.82
1	u	560	HIS	CE1-NE2-CD2	-6.16	102.84	109.00
1	z	544	ASN	CA-CB-CG	-6.16	106.44	112.60
1	A	202	ARG	NE-CZ-NH2	-6.16	113.65	119.20
1	H	356	PHE	CA-CB-CG	-6.16	107.64	113.80
1	I	95	GLN	CA-C-O	6.16	126.74	119.28
1	T	549	VAL	N-CA-C	6.16	116.33	110.42
1	1	259	ILE	CB-CA-C	-6.16	103.50	110.96
1	9	449	ARG	NH1-CZ-NH2	-6.16	111.29	119.30
1	f	690	ARG	NE-CZ-NH1	6.16	127.66	121.50
1	i	465	LEU	CA-C-N	6.16	128.53	120.28
1	i	465	LEU	C-N-CA	6.16	128.53	120.28
1	m	521	GLN	OE1-CD-NE2	-6.16	116.44	122.60
1	o	115	ASP	CA-C-O	6.16	129.32	120.51
1	p	657	ASN	CA-C-N	6.16	126.66	119.94
1	p	657	ASN	C-N-CA	6.16	126.66	119.94
1	q	589	LEU	CA-C-N	6.16	129.15	120.28
1	q	589	LEU	C-N-CA	6.16	129.15	120.28
1	G	334	THR	CB-CA-C	-6.16	99.23	110.63
1	K	662	GLN	O-C-N	-6.16	115.59	122.12
1	M	623	PHE	CA-C-N	6.16	128.45	120.44
1	M	623	PHE	C-N-CA	6.16	128.45	120.44
1	R	541	GLU	N-CA-C	6.16	118.07	111.36
1	W	351	GLN	N-CA-C	6.16	118.00	111.28
1	W	647	PHE	N-CA-CB	6.16	119.18	110.12
1	W	657	ASN	N-CA-CB	-6.16	101.06	110.12
1	e	487	TYR	CA-C-O	6.16	126.17	119.15
1	t	239	ARG	NE-CZ-NH1	6.16	127.66	121.50
1	v	289	THR	O-C-N	-6.16	116.02	123.29
1	x	241	ILE	O-C-N	-6.16	115.88	121.91
1	y	220	ASP	CA-CB-CG	6.16	118.76	112.60
1	y	374	LEU	N-CA-CB	6.16	119.18	109.82
1	J	366	THR	CA-C-O	6.16	126.96	119.38
1	J	689	ARG	NE-CZ-NH1	6.16	127.66	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	97	VAL	N-CA-C	6.16	116.90	110.62
1	T	444	ARG	NH1-CZ-NH2	-6.16	111.30	119.30
1	T	520	LEU	N-CA-C	6.16	117.66	111.07
1	Z	397	HIS	CA-CB-CG	6.16	119.96	113.80
1	2	240	ASP	O-C-N	-6.16	113.15	123.00
1	c	534	VAL	N-CA-CB	6.16	119.81	110.58
1	g	703	ARG	N-CA-C	6.16	118.50	111.11
1	C	109	ALA	N-CA-C	6.16	117.99	111.28
1	X	245	ILE	O-C-N	-6.16	115.88	121.91
1	9	141	VAL	CA-C-O	6.16	127.87	120.67
1	p	577	MET	O-C-N	6.16	128.64	122.12
1	A	645	ILE	CA-C-O	-6.16	114.57	118.69
1	L	567	MET	N-CA-C	6.16	118.07	111.36
1	L	670	GLN	N-CA-C	-6.16	105.26	112.89
1	5	156	VAL	O-C-N	-6.15	115.94	122.83
1	d	548	THR	CA-C-N	6.15	128.31	120.56
1	d	548	THR	C-N-CA	6.15	128.31	120.56
1	B	433	ILE	N-CA-C	6.15	116.90	110.62
1	J	594	GLU	N-CA-C	6.15	118.96	111.82
1	3	290	ILE	O-C-N	-6.15	116.86	123.14
1	f	593	ARG	NE-CZ-NH1	6.15	127.65	121.50
1	l	578	VAL	N-CA-CB	6.15	118.04	111.46
1	n	328	ARG	NE-CZ-NH2	-6.15	113.66	119.20
1	o	241	ILE	CA-C-N	6.15	127.88	120.13
1	o	241	ILE	C-N-CA	6.15	127.88	120.13
1	u	581	GLN	CA-CB-CG	6.15	126.40	114.10
1	B	238	PRO	O-C-N	-6.15	115.38	123.01
1	D	310	VAL	N-CA-C	6.15	116.89	110.62
1	I	538	HIS	CE1-NE2-CD2	-6.15	102.85	109.00
1	M	298	LEU	N-CA-C	6.15	120.52	112.89
1	O	308	MET	N-CA-C	6.15	118.78	111.33
1	P	160	LYS	CA-C-O	6.15	127.71	120.20
1	S	659	ASP	O-C-N	-6.15	115.60	122.12
1	1	145	ARG	NE-CZ-NH1	6.15	127.65	121.50
1	5	563	LYS	N-CA-C	6.15	117.65	111.07
1	6	498	TYR	CA-C-O	-6.15	114.03	120.55
1	6	555	ASP	O-C-N	-6.15	115.60	122.12
1	b	672	LYS	CA-C-O	6.15	126.16	119.15
1	d	476	ILE	N-CA-C	6.15	122.13	109.34
1	g	658	GLY	CA-C-N	6.15	128.44	120.44
1	g	658	GLY	C-N-CA	6.15	128.44	120.44
1	h	338	SER	CA-C-O	-6.15	114.43	121.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	110	LEU	N-CA-C	-6.15	106.41	114.04
1	w	150	VAL	O-C-N	-6.15	116.12	122.82
1	K	301	ARG	CA-C-N	6.15	126.77	119.94
1	K	301	ARG	C-N-CA	6.15	126.77	119.94
1	L	441	GLU	O-C-N	-6.15	115.78	122.79
1	O	478	GLU	N-CA-C	6.15	118.06	111.36
1	Q	626	ILE	CA-C-N	6.15	126.94	119.99
1	Q	626	ILE	C-N-CA	6.15	126.94	119.99
1	U	395	GLU	N-CA-C	6.15	118.06	111.36
1	V	673	ASN	OD1-CG-ND2	-6.15	116.45	122.60
1	Z	514	GLU	O-C-N	-6.15	114.93	120.71
1	s	625	GLU	N-CA-C	6.15	117.86	111.03
1	x	684	GLU	N-CA-C	6.15	118.52	111.02
1	E	563	LYS	O-C-N	-6.15	115.60	122.12
1	R	680	GLN	CA-C-N	6.15	129.44	120.71
1	R	680	GLN	C-N-CA	6.15	129.44	120.71
1	S	210	SER	N-CA-C	6.15	118.92	108.90
1	T	405	ARG	CG-CD-NE	-6.15	98.47	112.00
1	W	473	LYS	N-CA-C	6.15	117.98	111.28
1	9	663	LYS	CA-C-N	6.15	129.02	120.29
1	9	663	LYS	C-N-CA	6.15	129.02	120.29
1	d	624	THR	CA-C-N	6.15	129.02	120.29
1	d	624	THR	C-N-CA	6.15	129.02	120.29
1	e	573	ARG	NH1-CZ-NH2	-6.15	111.31	119.30
1	l	532	ILE	CA-C-N	6.15	128.52	120.28
1	l	532	ILE	C-N-CA	6.15	128.52	120.28
1	p	457	ASP	O-C-N	-6.15	115.60	122.12
1	p	631	ASN	CA-C-N	6.15	128.43	120.44
1	p	631	ASN	C-N-CA	6.15	128.43	120.44
1	q	373	ARG	NE-CZ-NH2	-6.15	113.67	119.20
1	q	463	GLY	CA-C-N	6.15	130.75	121.65
1	q	463	GLY	C-N-CA	6.15	130.75	121.65
1	w	652	PHE	O-C-N	-6.15	115.03	122.22
1	B	523	ALA	CA-C-O	6.15	127.06	120.55
1	D	593	ARG	N-CA-CB	6.15	119.54	110.56
1	E	231	ARG	NE-CZ-NH1	6.15	127.65	121.50
1	M	408	GLY	CA-C-N	6.15	129.44	120.71
1	M	408	GLY	C-N-CA	6.15	129.44	120.71
1	T	381	HIS	CG-CD2-NE2	6.15	113.35	107.20
1	V	278	MET	N-CA-C	6.15	117.98	111.28
1	X	446	ASN	CA-C-N	6.15	131.89	120.95
1	X	446	ASN	C-N-CA	6.15	131.89	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	582	ASP	CA-CB-CG	6.15	118.75	112.60
1	7	505	VAL	O-C-N	6.15	127.93	121.91
1	c	453	LYS	N-CA-C	6.15	117.98	111.28
1	e	448	THR	CA-C-N	6.15	129.85	120.82
1	e	448	THR	C-N-CA	6.15	129.85	120.82
1	i	190	ILE	CA-C-N	6.15	128.80	120.44
1	i	190	ILE	C-N-CA	6.15	128.80	120.44
1	p	570	LEU	N-CA-C	6.15	117.65	111.07
1	E	468	ASN	N-CA-CB	6.15	119.69	110.22
1	F	506	HIS	N-CA-C	6.15	118.48	111.11
1	G	153	CYS	CA-C-N	6.15	126.09	119.76
1	G	153	CYS	C-N-CA	6.15	126.09	119.76
1	R	278	MET	N-CA-C	6.15	118.48	111.11
1	l	356	PHE	N-CA-C	6.14	117.64	111.07
1	g	665	MET	N-CA-C	6.14	117.64	111.07
1	n	394	ARG	NE-CZ-NH1	-6.14	115.36	121.50
1	r	162	GLN	CA-C-O	-6.14	112.80	120.23
1	s	323	MET	CG-SD-CE	-6.14	87.38	100.90
1	t	524	MET	CA-C-N	6.14	128.43	120.44
1	t	524	MET	C-N-CA	6.14	128.43	120.44
1	v	189	GLU	CA-C-O	6.14	126.93	120.42
1	z	300	ASP	CA-C-N	6.14	129.85	120.82
1	z	300	ASP	C-N-CA	6.14	129.85	120.82
1	I	372	GLU	O-C-N	-6.14	115.74	122.07
1	I	393	ILE	CA-C-N	6.14	128.51	120.28
1	I	393	ILE	C-N-CA	6.14	128.51	120.28
1	P	515	PRO	N-CA-CB	6.14	110.03	103.52
1	Q	398	GLN	N-CA-CB	6.14	118.92	110.01
1	S	393	ILE	N-CA-C	6.14	116.89	110.62
1	S	635	LEU	N-CA-C	6.14	117.67	110.97
1	T	551	SER	CA-C-N	6.14	128.43	120.44
1	T	551	SER	C-N-CA	6.14	128.43	120.44
1	V	393	ILE	N-CA-CB	6.14	117.74	110.55
1	2	480	VAL	CB-CA-C	-6.14	103.74	112.22
1	4	175	ASN	CB-CG-ND2	-6.14	107.19	116.40
1	k	358	VAL	CA-C-N	6.14	128.43	120.44
1	k	358	VAL	C-N-CA	6.14	128.43	120.44
1	u	116	LEU	N-CA-C	6.14	118.70	110.35
1	L	252	TYR	O-C-N	-6.14	114.01	122.30
1	P	656	GLU	CA-C-N	6.14	128.83	120.54
1	P	656	GLU	C-N-CA	6.14	128.83	120.54
1	S	495	PHE	CA-CB-CG	-6.14	107.66	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	152	ARG	NE-CZ-NH1	6.14	127.64	121.50
1	l	482	LYS	N-CA-C	6.14	117.97	111.28
1	e	518	SER	CA-C-N	6.14	128.51	120.28
1	e	518	SER	C-N-CA	6.14	128.51	120.28
1	t	317	PRO	CA-C-N	6.14	130.28	121.50
1	t	317	PRO	C-N-CA	6.14	130.28	121.50
1	A	513	VAL	N-CA-C	6.14	116.32	110.42
1	H	399	LYS	O-C-N	-6.14	115.15	122.15
1	H	474	ASN	CA-C-O	6.14	127.03	119.97
1	P	106	SER	CA-C-O	6.14	127.03	119.97
1	Q	301	ARG	NE-CZ-NH1	6.14	127.64	121.50
1	6	645	ILE	CB-CA-C	6.14	122.54	111.36
1	9	300	ASP	CA-CB-CG	6.14	118.74	112.60
1	c	382	ILE	CA-C-O	6.14	127.33	120.95
1	e	561	THR	CA-C-N	6.14	128.42	120.44
1	e	561	THR	C-N-CA	6.14	128.42	120.44
1	l	371	ALA	CA-C-N	6.14	128.51	120.28
1	l	371	ALA	C-N-CA	6.14	128.51	120.28
1	m	273	THR	N-CA-C	6.14	119.16	110.50
1	o	465	LEU	CA-C-O	6.14	127.27	120.82
1	u	507	GLN	N-CA-C	6.14	118.05	111.36
1	x	645	ILE	CA-C-O	-6.14	114.58	118.69
1	B	339	LEU	N-CA-C	6.14	118.48	111.11
1	B	579	PHE	CA-C-N	6.14	132.29	122.10
1	B	579	PHE	C-N-CA	6.14	132.29	122.10
1	I	313	ASN	N-CA-CB	6.14	119.80	110.28
1	J	423	ILE	CA-C-N	6.14	128.42	120.44
1	J	423	ILE	C-N-CA	6.14	128.42	120.44
1	L	546	ASN	CB-CA-C	-6.14	101.24	110.88
1	M	494	GLY	CA-C-N	6.14	132.75	121.70
1	M	494	GLY	C-N-CA	6.14	132.75	121.70
1	Y	118	LEU	CA-C-N	6.14	126.50	119.93
1	Y	118	LEU	C-N-CA	6.14	126.50	119.93
1	Y	345	LYS	CA-C-N	6.14	129.01	120.29
1	Y	345	LYS	C-N-CA	6.14	129.01	120.29
1	Y	364	SER	N-CA-CB	6.14	119.15	110.12
1	o	577	MET	CB-CA-C	-6.14	100.35	110.72
1	v	255	ARG	NE-CZ-NH1	-6.14	115.36	121.50
1	C	537	LYS	CA-C-O	6.14	127.03	119.79
1	5	503	ILE	CB-CA-C	-6.14	104.00	112.04
1	9	187	GLU	N-CA-CB	6.14	119.14	110.12
1	e	192	LYS	O-C-N	-6.14	115.04	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	533	ASN	CA-CB-CG	-6.14	106.46	112.60
1	k	276	LEU	CA-C-O	6.14	127.03	119.79
1	k	277	SER	CA-C-N	6.14	128.50	120.28
1	k	277	SER	C-N-CA	6.14	128.50	120.28
1	o	567	MET	N-CA-C	6.14	117.97	111.28
1	v	647	PHE	N-CA-CB	6.14	119.14	110.12
1	w	132	SER	CA-C-N	6.14	128.50	120.28
1	w	132	SER	C-N-CA	6.14	128.50	120.28
1	z	330	GLN	OE1-CD-NE2	-6.14	116.46	122.60
1	C	402	GLU	N-CA-C	6.14	117.97	111.28
1	L	231	ARG	CG-CD-NE	-6.14	98.50	112.00
1	L	468	ASN	CA-C-N	6.14	129.12	120.28
1	L	468	ASN	C-N-CA	6.14	129.12	120.28
1	N	415	GLU	N-CA-C	6.14	117.97	111.28
1	Q	336	ARG	NE-CZ-NH1	6.14	127.64	121.50
1	4	367	VAL	N-CA-CB	6.13	119.80	111.21
1	8	553	ILE	N-CA-C	6.13	116.88	110.62
1	a	383	GLN	N-CA-C	6.13	118.47	111.11
1	a	406	ARG	CA-CB-CG	-6.13	101.83	114.10
1	b	317	PRO	N-CA-CB	6.13	108.77	103.31
1	c	440	GLU	N-CA-C	-6.13	105.66	113.02
1	i	309	ASN	OD1-CG-ND2	-6.13	116.47	122.60
1	j	136	GLU	CA-C-N	6.13	130.96	120.72
1	j	136	GLU	C-N-CA	6.13	130.96	120.72
1	q	469	THR	OG1-CB-CG2	-6.13	97.03	109.30
1	c	491	GLU	N-CA-C	6.13	120.38	113.02
1	f	695	ARG	CD-NE-CZ	-6.13	115.81	124.40
1	D	125	GLY	O-C-N	-6.13	114.73	122.70
1	H	213	ILE	CA-C-N	6.13	131.64	123.05
1	H	213	ILE	C-N-CA	6.13	131.64	123.05
1	R	251	LYS	CA-C-N	6.13	128.50	120.28
1	R	251	LYS	C-N-CA	6.13	128.50	120.28
1	V	231	ARG	NE-CZ-NH1	6.13	127.63	121.50
1	6	258	THR	N-CA-C	-6.13	99.87	109.25
1	6	283	ASP	N-CA-CB	-6.13	103.37	111.40
1	7	146	GLY	N-CA-C	-6.13	105.15	113.37
1	b	662	GLN	OE1-CD-NE2	-6.13	116.47	122.60
1	c	367	VAL	CA-C-N	6.13	127.50	119.84
1	c	367	VAL	C-N-CA	6.13	127.50	119.84
1	c	703	ARG	NE-CZ-NH2	6.13	124.72	119.20
1	h	417	ASP	O-C-N	-6.13	114.21	122.43
1	t	113	GLU	N-CA-C	6.13	118.50	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	350	PHE	CA-C-N	6.13	128.50	120.28
1	B	350	PHE	C-N-CA	6.13	128.50	120.28
1	C	132	SER	N-CA-C	-6.13	104.50	112.23
1	K	652	PHE	CA-CB-CG	-6.13	107.67	113.80
1	O	525	GLU	N-CA-C	6.13	118.47	111.11
1	P	640	ARG	N-CA-CB	6.13	119.13	110.12
1	6	452	ASN	N-CA-CB	-6.13	101.11	110.12
1	d	170	ARG	NH1-CZ-NH2	-6.13	111.33	119.30
1	x	479	GLU	N-CA-C	6.13	118.04	111.36
1	D	107	LEU	CA-C-N	6.13	128.49	120.28
1	D	107	LEU	C-N-CA	6.13	128.49	120.28
1	D	280	HIS	N-CA-C	6.13	118.76	111.71
1	R	210	SER	CA-C-O	6.13	127.32	120.70
1	V	455	ARG	N-CA-C	6.13	117.96	111.28
1	4	636	GLU	CA-C-N	6.13	128.49	120.28
1	4	636	GLU	C-N-CA	6.13	128.49	120.28
1	9	645	ILE	N-CA-C	6.13	121.50	112.61
1	c	314	LEU	O-C-N	-6.13	114.38	122.47
1	d	695	ARG	CG-CD-NE	-6.13	98.52	112.00
1	g	661	LEU	CA-C-N	6.13	128.41	120.44
1	g	661	LEU	C-N-CA	6.13	128.41	120.44
1	k	426	ILE	CA-C-O	6.13	127.00	119.58
1	z	428	MET	O-C-N	-6.13	115.76	122.07
1	J	96	LYS	O-C-N	-6.13	115.62	122.12
1	K	627	GLY	CA-C-N	6.13	128.86	120.46
1	K	627	GLY	C-N-CA	6.13	128.86	120.46
1	L	430	ASN	OD1-CG-ND2	-6.13	116.47	122.60
1	N	434	GLU	CA-C-N	6.13	128.41	120.44
1	N	434	GLU	C-N-CA	6.13	128.41	120.44
1	X	97	VAL	N-CA-CB	6.13	117.06	110.62
1	Z	290	ILE	O-C-N	-6.13	116.64	123.26
1	1	597	PHE	O-C-N	-6.13	115.76	122.07
1	4	667	GLN	CA-C-N	6.13	130.35	120.30
1	4	667	GLN	C-N-CA	6.13	130.35	120.30
1	5	182	ASP	CA-CB-CG	6.13	118.73	112.60
1	8	128	SER	N-CA-C	6.13	117.96	111.28
1	g	455	ARG	CA-C-N	6.13	128.49	120.28
1	g	455	ARG	C-N-CA	6.13	128.49	120.28
1	i	328	ARG	NE-CZ-NH2	-6.13	113.69	119.20
1	k	290	ILE	CB-CA-C	-6.13	102.02	110.96
1	o	102	ASP	N-CA-C	6.13	117.96	111.28
1	x	301	ARG	NE-CZ-NH1	6.13	127.63	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	x	484	GLU	N-CA-C	6.13	120.92	113.38
1	y	260	ASN	CA-CB-CG	6.13	118.73	112.60
1	z	223	ILE	N-CA-C	6.13	116.44	108.35
1	z	308	MET	N-CA-C	6.13	118.46	111.11
1	D	514	GLU	CA-C-N	6.13	126.30	119.32
1	D	514	GLU	C-N-CA	6.13	126.30	119.32
1	E	409	ALA	N-CA-C	6.13	119.92	110.42
1	E	457	ASP	N-CA-C	6.13	119.23	111.69
1	I	409	ALA	O-C-N	-6.13	115.81	122.79
1	L	629	HIS	ND1-CE1-NE2	6.13	114.53	108.40
1	R	423	ILE	N-CA-C	6.13	116.87	110.62
1	T	701	GLN	N-CA-C	6.13	117.63	111.07
1	W	170	ARG	CB-CA-C	6.13	122.18	109.38
1	7	263	VAL	CA-C-N	6.12	133.46	122.13
1	7	263	VAL	C-N-CA	6.12	133.46	122.13
1	9	657	ASN	CA-C-N	6.12	126.74	119.94
1	9	657	ASN	C-N-CA	6.12	126.74	119.94
1	g	370	LEU	N-CA-C	6.12	117.96	111.28
1	j	477	HIS	CA-CB-CG	-6.12	107.67	113.80
1	J	449	ARG	NE-CZ-NH2	6.12	124.71	119.20
1	4	524	MET	CG-SD-CE	-6.12	87.43	100.90
1	7	703	ARG	NE-CZ-NH1	6.12	127.62	121.50
1	j	704	HIS	CE1-NE2-CD2	-6.12	102.88	109.00
1	m	532	ILE	O-C-N	-6.12	114.92	122.57
1	o	689	ARG	CG-CD-NE	-6.12	98.53	112.00
1	s	596	ILE	CA-CB-CG1	6.12	120.81	110.40
1	x	267	ASN	CA-C-N	-6.12	115.20	123.10
1	x	267	ASN	C-N-CA	-6.12	115.20	123.10
1	G	688	LYS	O-C-N	6.12	128.61	122.12
1	H	233	ALA	O-C-N	-6.12	115.63	122.86
1	L	397	HIS	O-C-N	-6.12	115.42	122.03
1	T	674	ARG	CA-C-N	6.12	128.81	120.54
1	T	674	ARG	C-N-CA	6.12	128.81	120.54
1	X	166	ALA	N-CA-C	6.12	119.11	110.23
1	5	346	GLU	O-C-N	-6.12	115.17	122.15
1	5	353	HIS	CE1-NE2-CD2	-6.12	102.88	109.00
1	5	681	GLU	O-C-N	-6.12	115.81	122.79
1	e	574	MET	N-CA-C	6.12	118.03	111.36
1	g	629	HIS	ND1-CE1-NE2	6.12	114.52	108.40
1	i	383	GLN	CA-C-N	6.12	129.61	120.31
1	i	383	GLN	C-N-CA	6.12	129.61	120.31
1	k	305	LYS	CA-C-O	6.12	127.01	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	l	242	GLY	O-C-N	6.12	128.95	122.28
1	t	396	SER	N-CA-CB	6.12	119.77	110.28
1	x	93	TYR	CA-C-N	6.12	128.80	120.54
1	x	93	TYR	C-N-CA	6.12	128.80	120.54
1	y	562	ALA	CA-C-N	6.12	128.48	120.28
1	y	562	ALA	C-N-CA	6.12	128.48	120.28
1	y	565	GLU	CA-C-N	6.12	128.48	120.28
1	y	565	GLU	C-N-CA	6.12	128.48	120.28
1	B	240	ASP	CA-CB-CG	6.12	118.72	112.60
1	N	331	GLN	OE1-CD-NE2	-6.12	116.48	122.60
1	N	389	LEU	CA-C-O	-6.12	114.39	120.82
1	P	127	GLN	N-CA-C	6.12	118.74	111.33
1	0	251	LYS	N-CA-C	6.12	117.95	111.28
1	1	509	ILE	CA-C-N	6.12	130.94	120.72
1	1	509	ILE	C-N-CA	6.12	130.94	120.72
1	6	591	LYS	CB-CG-CD	6.12	125.38	111.30
1	u	185	GLN	CA-C-N	6.12	128.39	120.56
1	u	185	GLN	C-N-CA	6.12	128.39	120.56
1	B	303	THR	CB-CA-C	-6.12	100.45	110.85
1	H	305	LYS	CA-C-N	6.12	128.40	120.44
1	H	305	LYS	C-N-CA	6.12	128.40	120.44
1	I	682	GLN	CA-C-O	6.12	127.90	120.92
1	L	512	LEU	CB-CA-C	-6.12	98.92	110.67
1	0	678	LEU	N-CA-CB	6.12	119.11	110.12
1	3	546	ASN	N-CA-C	6.12	117.62	111.07
1	8	238	PRO	CA-C-N	6.12	132.89	122.37
1	8	238	PRO	C-N-CA	6.12	132.89	122.37
1	b	381	HIS	CG-CD2-NE2	6.12	113.32	107.20
1	g	629	HIS	CE1-NE2-CD2	-6.12	102.88	109.00
1	n	698	ARG	N-CA-C	6.12	118.03	111.36
1	q	322	TYR	O-C-N	-6.12	116.11	123.03
1	q	406	ARG	NE-CZ-NH2	-6.12	113.69	119.20
1	s	347	ILE	CA-C-N	6.12	128.98	120.29
1	s	347	ILE	C-N-CA	6.12	128.98	120.29
1	t	397	HIS	CA-CB-CG	6.12	119.92	113.80
1	v	506	HIS	CA-CB-CG	6.12	119.92	113.80
1	v	571	GLN	OE1-CD-NE2	6.12	128.72	122.60
1	v	682	GLN	OE1-CD-NE2	-6.12	116.48	122.60
1	G	540	GLY	N-CA-C	6.12	121.41	113.27
1	M	335	ASN	CA-CB-CG	6.12	118.72	112.60
1	N	662	GLN	CA-C-N	6.12	128.80	120.54
1	N	662	GLN	C-N-CA	6.12	128.80	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	168	ALA	O-C-N	-6.12	116.15	123.31
1	R	545	LEU	CA-C-N	6.12	128.39	120.44
1	R	545	LEU	C-N-CA	6.12	128.39	120.44
1	a	324	ILE	CB-CA-C	6.12	119.68	110.63
1	b	455	ARG	CA-C-O	6.12	126.68	119.28
1	c	361	GLU	N-CA-C	-6.12	105.31	112.89
1	d	455	ARG	N-CA-C	6.12	117.95	111.28
1	t	598	ASN	CA-CB-CG	6.12	118.72	112.60
1	L	624	THR	O-C-N	-6.12	115.18	122.15
1	P	176	THR	CA-CB-OG1	6.12	118.78	109.60
1	W	571	GLN	CB-CA-C	6.12	120.48	110.88
1	a	416	ALA	N-CA-CB	-6.12	101.13	110.12
1	g	674	ARG	NE-CZ-NH1	6.12	127.62	121.50
1	k	662	GLN	N-CA-C	6.12	118.45	111.11
1	r	182	ASP	O-C-N	-6.12	117.19	121.65
1	t	479	GLU	CA-C-O	6.12	126.42	119.27
1	z	304	GLU	N-CA-C	6.12	118.03	111.36
1	B	106	SER	N-CA-C	6.12	117.61	111.07
1	B	151	THR	N-CA-CB	6.12	119.70	109.92
1	B	250	LYS	N-CA-C	6.12	117.94	111.28
1	F	448	THR	O-C-N	-6.12	115.77	123.17
1	K	489	GLY	O-C-N	6.12	128.06	122.19
1	L	592	VAL	CB-CA-C	-6.12	103.88	112.14
1	Q	371	ALA	CA-C-N	6.12	128.39	120.44
1	Q	371	ALA	C-N-CA	6.12	128.39	120.44
1	R	436	LEU	N-CA-C	6.12	117.61	111.07
1	W	158	LYS	N-CA-C	6.12	118.15	108.67
1	l	541	GLU	N-CA-C	6.11	117.94	111.28
1	h	191	HIS	CE1-NE2-CD2	-6.11	102.89	109.00
1	j	373	ARG	CA-C-N	6.11	128.75	120.44
1	j	373	ARG	C-N-CA	6.11	128.75	120.44
1	q	349	PHE	N-CA-C	6.11	117.61	111.07
1	r	106	SER	CA-C-O	6.11	127.24	120.82
1	s	336	ARG	CB-CA-C	6.11	120.57	111.89
1	w	130	GLY	CA-C-N	6.11	130.38	120.60
1	w	130	GLY	C-N-CA	6.11	130.38	120.60
1	z	345	LYS	N-CA-C	6.11	118.45	111.11
1	G	155	LEU	O-C-N	6.11	130.57	123.30
1	M	232	VAL	N-CA-C	6.11	116.82	107.77
1	P	705	ALA	O-C-N	-6.11	115.64	122.12
1	Q	569	GLN	CA-C-N	6.11	128.47	120.28
1	Q	569	GLN	C-N-CA	6.11	128.47	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8	463	GLY	CA-C-O	-6.11	114.45	120.75
1	g	634	PHE	N-CA-CB	6.11	119.10	110.12
1	C	339	LEU	N-CA-C	6.11	118.91	111.82
1	N	308	MET	CA-C-N	6.11	128.47	120.28
1	N	308	MET	C-N-CA	6.11	128.47	120.28
1	R	390	GLU	CA-C-N	6.11	133.39	121.41
1	R	390	GLU	C-N-CA	6.11	133.39	121.41
1	b	127	GLN	O-C-N	-6.11	114.30	122.43
1	j	500	THR	CA-C-N	6.11	128.79	120.54
1	j	500	THR	C-N-CA	6.11	128.79	120.54
1	l	195	ASN	CA-C-N	6.11	128.83	120.46
1	l	195	ASN	C-N-CA	6.11	128.83	120.46
1	v	448	THR	CA-CB-OG1	6.11	118.77	109.60
1	F	381	HIS	CA-CB-CG	-6.11	107.69	113.80
1	G	461	TRP	N-CA-C	6.11	117.94	111.28
1	P	200	ASN	CA-CB-CG	-6.11	106.49	112.60
1	V	303	THR	CA-C-O	6.11	127.24	120.82
1	W	186	VAL	CB-CA-C	6.11	119.79	111.97
1	0	160	LYS	O-C-N	-6.11	115.21	123.15
1	7	643	ASN	OD1-CG-ND2	-6.11	116.49	122.60
1	g	215	SER	N-CA-C	-6.11	102.72	108.22
1	h	190	ILE	O-C-N	-6.11	114.90	121.80
1	i	444	ARG	NH1-CZ-NH2	-6.11	111.36	119.30
1	l	556	ILE	CB-CA-C	6.11	119.79	111.97
1	l	634	PHE	CA-C-N	6.11	128.75	120.44
1	l	634	PHE	C-N-CA	6.11	128.75	120.44
1	w	191	HIS	CA-C-N	6.11	128.38	120.44
1	w	191	HIS	C-N-CA	6.11	128.38	120.44
1	y	171	ILE	N-CA-C	-6.11	99.32	108.12
1	C	363	GLY	CA-C-N	6.11	133.21	121.54
1	C	363	GLY	C-N-CA	6.11	133.21	121.54
1	J	645	ILE	N-CA-CB	6.11	119.76	111.21
1	L	97	VAL	CA-C-O	-6.11	114.38	120.85
1	X	582	ASP	CA-C-N	6.11	128.75	120.38
1	X	582	ASP	C-N-CA	6.11	128.75	120.38
1	1	535	ALA	N-CA-C	6.11	117.61	111.07
1	4	394	ARG	N-CA-C	6.11	118.02	111.36
1	6	95	GLN	CA-C-N	6.11	129.59	120.31
1	6	95	GLN	C-N-CA	6.11	129.59	120.31
1	c	577	MET	CG-SD-CE	-6.11	87.47	100.90
1	d	520	LEU	CA-C-N	6.11	128.78	120.54
1	d	520	LEU	C-N-CA	6.11	128.78	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	s	675	TYR	N-CA-C	6.11	117.61	111.07
1	u	693	LYS	CA-C-N	6.11	128.46	120.28
1	u	693	LYS	C-N-CA	6.11	128.46	120.28
1	z	315	THR	N-CA-C	-6.11	105.78	113.72
1	T	338	SER	CA-C-O	6.11	128.04	121.44
1	U	433	ILE	CA-C-N	6.11	128.38	120.44
1	U	433	ILE	C-N-CA	6.11	128.38	120.44
1	2	377	GLU	O-C-N	-6.11	115.65	122.12
1	2	441	GLU	CA-C-O	6.11	127.91	121.19
1	3	393	ILE	N-CA-CB	6.11	117.28	110.62
1	9	111	GLY	CA-C-O	-6.11	114.75	121.71
1	c	108	ARG	NE-CZ-NH1	6.11	127.61	121.50
1	i	206	HIS	CA-CB-CG	-6.11	107.69	113.80
1	s	355	TYR	CG-CD1-CE1	-6.11	112.04	121.20
1	B	623	PHE	CA-C-N	6.11	128.38	120.44
1	B	623	PHE	C-N-CA	6.11	128.38	120.44
1	E	593	ARG	CA-C-N	6.11	128.96	120.29
1	E	593	ARG	C-N-CA	6.11	128.96	120.29
1	G	535	ALA	N-CA-C	6.11	117.94	111.28
1	I	639	LYS	CA-C-O	6.11	127.00	120.10
1	M	250	LYS	CA-C-O	-6.11	114.04	120.63
1	S	415	GLU	O-C-N	-6.11	115.65	122.12
1	X	662	GLN	N-CA-C	6.11	118.44	111.11
1	k	142	ALA	CA-C-N	6.10	129.56	120.83
1	k	142	ALA	C-N-CA	6.10	129.56	120.83
1	w	588	VAL	N-CA-C	6.10	116.85	110.62
1	L	401	THR	CA-C-N	6.10	128.74	120.44
1	L	401	THR	C-N-CA	6.10	128.74	120.44
1	R	336	ARG	CA-C-N	6.10	131.60	123.05
1	R	336	ARG	C-N-CA	6.10	131.60	123.05
1	U	524	MET	CA-CB-CG	6.10	126.31	114.10
1	8	509	ILE	N-CA-C	6.10	116.88	110.72
1	9	162	GLN	CG-CD-NE2	6.10	125.55	116.40
1	e	202	ARG	N-CA-CB	6.10	120.38	110.43
1	f	167	TRP	O-C-N	-6.10	116.81	123.52
1	f	278	MET	CB-CA-C	6.10	120.92	110.79
1	t	270	ILE	CA-C-N	6.10	129.29	120.38
1	t	270	ILE	C-N-CA	6.10	129.29	120.38
1	K	402	GLU	N-CA-C	6.10	117.93	111.28
1	M	527	ILE	CA-C-N	6.10	128.46	120.28
1	M	527	ILE	C-N-CA	6.10	128.46	120.28
1	2	211	LEU	N-CA-C	6.10	118.39	108.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8	345	LYS	CA-C-O	6.10	126.98	120.70
1	a	488	ARG	CA-C-N	6.10	126.71	120.00
1	a	488	ARG	C-N-CA	6.10	126.71	120.00
1	c	374	LEU	N-CA-C	6.10	118.71	111.33
1	u	496	VAL	CA-C-O	6.10	127.60	120.71
1	E	191	HIS	CE1-NE2-CD2	-6.10	102.90	109.00
1	3	313	ASN	N-CA-C	-6.10	106.50	112.97
1	4	474	ASN	CA-C-N	6.10	128.25	120.56
1	4	474	ASN	C-N-CA	6.10	128.25	120.56
1	7	322	TYR	CA-C-O	-6.10	113.97	121.11
1	a	462	VAL	O-C-N	-6.10	115.95	121.87
1	b	145	ARG	NE-CZ-NH1	6.10	127.60	121.50
1	e	98	ARG	NE-CZ-NH2	-6.10	113.71	119.20
1	y	643	ASN	CA-CB-CG	6.10	118.70	112.60
1	D	288	ARG	NE-CZ-NH1	-6.10	115.40	121.50
1	F	287	ASP	CA-CB-CG	6.10	118.70	112.60
1	H	679	LEU	N-CA-C	6.10	119.67	112.72
1	L	221	LEU	CA-C-O	6.10	127.81	121.28
1	O	569	GLN	CB-CG-CD	6.10	122.97	112.60
1	S	275	ALA	N-CA-C	6.10	117.93	111.28
1	S	573	ARG	CG-CD-NE	-6.10	98.58	112.00
1	V	518	SER	CA-C-O	6.10	127.02	120.55
1	X	123	VAL	O-C-N	-6.10	114.92	122.97
1	2	114	GLN	CG-CD-OE1	6.10	133.00	120.80
1	3	628	ILE	CA-C-N	6.10	128.77	120.54
1	3	628	ILE	C-N-CA	6.10	128.77	120.54
1	4	194	GLN	N-CA-CB	-6.10	101.17	110.01
1	d	434	GLU	N-CA-CB	6.10	119.08	110.12
1	e	328	ARG	CG-CD-NE	-6.10	98.59	112.00
1	h	685	THR	N-CA-CB	6.10	119.08	110.12
1	o	169	GLY	CA-C-O	-6.10	115.57	121.06
1	q	98	ARG	NE-CZ-NH1	6.10	127.60	121.50
1	x	403	GLU	N-CA-C	6.10	118.01	111.36
1	D	182	ASP	CA-C-N	6.10	127.46	119.84
1	D	182	ASP	C-N-CA	6.10	127.46	119.84
1	D	325	VAL	O-C-N	-6.10	117.48	122.97
1	J	542	PHE	CA-CB-CG	-6.10	107.70	113.80
1	J	628	ILE	O-C-N	-6.10	115.55	121.83
1	R	564	ALA	N-CA-C	6.10	117.92	111.28
1	Y	565	GLU	CA-C-O	6.10	127.22	120.82
1	Z	437	VAL	N-CA-C	6.10	120.58	112.04
1	1	279	ALA	CA-C-O	6.10	127.01	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5	224	ILE	CB-CA-C	6.10	119.13	110.84
1	8	579	PHE	N-CA-C	6.10	119.06	108.76
1	d	500	THR	CA-C-N	6.10	128.36	120.44
1	d	500	THR	C-N-CA	6.10	128.36	120.44
1	n	417	ASP	CA-C-O	6.10	129.23	120.51
1	x	560	HIS	CG-CD2-NE2	6.10	113.30	107.20
1	J	410	ASP	CA-C-N	6.10	132.67	121.70
1	J	410	ASP	C-N-CA	6.10	132.67	121.70
1	U	417	ASP	CA-C-O	6.10	127.01	120.55
1	W	109	ALA	N-CA-C	6.10	118.84	111.40
1	0	472	VAL	CB-CA-C	6.09	118.76	111.20
1	2	471	LYS	CA-C-O	6.09	126.97	119.05
1	7	494	GLY	O-C-N	-6.09	114.78	122.70
1	b	341	GLU	N-CA-C	6.09	119.91	112.23
1	c	634	PHE	N-CA-C	6.09	117.92	111.28
1	l	328	ARG	NE-CZ-NH2	-6.09	113.72	119.20
1	m	529	GLN	CB-CG-CD	6.09	122.96	112.60
1	o	684	GLU	CA-C-O	6.09	127.22	120.82
1	q	640	ARG	NH1-CZ-NH2	-6.09	111.38	119.30
1	x	299	MET	N-CA-C	6.09	119.18	110.10
1	z	494	GLY	CA-C-N	6.09	132.67	121.70
1	z	494	GLY	C-N-CA	6.09	132.67	121.70
1	B	331	GLN	OE1-CD-NE2	-6.09	116.51	122.60
1	B	582	ASP	CA-CB-CG	6.09	118.69	112.60
1	H	709	PHE	N-CA-C	6.09	118.70	111.33
1	I	175	ASN	CA-CB-CG	-6.09	106.50	112.60
1	O	700	THR	CA-CB-CG2	6.09	120.86	110.50
1	T	591	LYS	CA-C-N	6.09	128.24	120.56
1	T	591	LYS	C-N-CA	6.09	128.24	120.56
1	X	555	ASP	CA-CB-CG	6.09	118.69	112.60
1	Y	702	ALA	CA-C-N	6.09	128.45	120.28
1	Y	702	ALA	C-N-CA	6.09	128.45	120.28
1	Z	513	VAL	CA-C-N	6.09	127.71	120.09
1	Z	513	VAL	C-N-CA	6.09	127.71	120.09
1	3	683	SER	O-C-N	-6.09	113.25	123.00
1	i	450	LEU	CA-C-O	6.09	127.42	120.90
1	v	628	ILE	N-CA-CB	6.09	117.68	110.55
1	F	538	HIS	CE1-NE2-CD2	-6.09	102.91	109.00
1	V	660	SER	N-CA-C	6.09	117.92	111.28
1	X	234	VAL	CA-C-O	6.09	127.67	121.58
1	2	188	LYS	CA-C-N	6.09	128.44	120.28
1	2	188	LYS	C-N-CA	6.09	128.44	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5	691	ILE	N-CA-C	6.09	116.83	110.62
1	a	200	ASN	N-CA-C	6.09	119.96	111.74
1	e	457	ASP	O-C-N	-6.09	114.78	122.27
1	f	191	HIS	CE1-NE2-CD2	-6.09	102.91	109.00
1	g	545	LEU	N-CA-CB	-6.09	101.14	110.16
1	j	106	SER	CA-C-O	6.09	127.01	120.55
1	p	218	VAL	CA-C-N	6.09	126.03	119.76
1	p	218	VAL	C-N-CA	6.09	126.03	119.76
1	z	160	LYS	CA-C-O	6.09	126.91	120.33
1	A	161	LYS	CA-C-O	6.09	127.98	121.16
1	N	395	GLU	CB-CA-C	-6.09	100.49	110.85
1	0	698	ARG	NE-CZ-NH2	6.09	124.68	119.20
1	6	687	THR	CA-C-N	6.09	128.44	120.28
1	6	687	THR	C-N-CA	6.09	128.44	120.28
1	7	293	LEU	CA-C-O	6.09	126.88	120.36
1	c	698	ARG	N-CA-C	6.09	117.92	111.28
1	h	690	ARG	CA-C-N	6.09	128.35	120.56
1	h	690	ARG	C-N-CA	6.09	128.35	120.56
1	o	342	ALA	N-CA-C	6.09	118.71	111.71
1	P	493	LEU	N-CA-C	6.09	119.76	111.17
1	S	648	ILE	O-C-N	-6.09	115.94	121.91
1	U	580	CYS	N-CA-CB	6.09	120.78	110.49
1	Z	247	ALA	CA-C-N	6.09	128.36	120.44
1	Z	247	ALA	C-N-CA	6.09	128.36	120.44
1	Z	481	GLU	N-CA-CB	-6.09	101.17	110.12
1	9	575	GLU	CA-C-N	6.09	128.44	120.28
1	9	575	GLU	C-N-CA	6.09	128.44	120.28
1	d	368	PRO	CA-C-N	6.09	129.05	120.28
1	d	368	PRO	C-N-CA	6.09	129.05	120.28
1	i	683	SER	CA-C-N	6.09	128.72	120.44
1	i	683	SER	C-N-CA	6.09	128.72	120.44
1	p	150	VAL	N-CA-C	6.09	122.00	109.34
1	w	191	HIS	CE1-NE2-CD2	-6.09	102.91	109.00
1	w	267	ASN	N-CA-C	-6.09	105.03	112.88
1	A	336	ARG	CA-C-O	6.09	129.22	120.51
1	T	338	SER	CA-C-N	6.09	128.44	120.28
1	T	338	SER	C-N-CA	6.09	128.44	120.28
1	6	336	ARG	NH1-CZ-NH2	-6.09	111.39	119.30
1	a	455	ARG	O-C-N	6.09	128.57	122.12
1	k	273	THR	N-CA-C	6.09	118.77	110.55
1	l	682	GLN	N-CA-C	6.09	117.58	111.07
1	q	657	ASN	N-CA-CB	-6.09	101.17	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	355	TYR	N-CA-C	6.09	117.91	111.28
1	I	133	SER	N-CA-C	6.09	119.97	112.54
1	N	667	GLN	O-C-N	-6.09	115.67	122.12
1	Y	630	LEU	N-CA-CB	-6.09	101.15	110.16
1	0	665	MET	O-C-N	-6.08	114.28	122.43
1	4	93	TYR	O-C-N	-6.08	113.26	123.00
1	s	704	HIS	CE1-NE2-CD2	-6.08	102.92	109.00
1	u	247	ALA	CA-C-N	6.08	128.43	120.28
1	u	247	ALA	C-N-CA	6.08	128.43	120.28
1	z	694	GLU	O-C-N	-6.08	115.80	122.07
1	C	411	ILE	N-CA-CB	6.08	119.73	111.21
1	R	377	GLU	N-CA-C	6.08	117.58	111.07
1	9	152	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	9	538	HIS	N-CA-CB	-6.08	101.11	110.42
1	l	255	ARG	N-CA-CB	6.08	118.91	109.97
1	l	506	HIS	CG-CD2-NE2	6.08	113.28	107.20
1	q	124	ILE	O-C-N	-6.08	115.98	123.10
1	s	665	MET	N-CA-C	6.08	118.71	111.71
1	D	217	GLU	N-CA-C	6.08	117.91	111.28
1	I	460	ASN	CA-C-N	6.08	128.43	120.28
1	I	460	ASN	C-N-CA	6.08	128.43	120.28
1	L	116	LEU	N-CA-C	-6.08	99.80	109.23
1	M	508	TYR	N-CA-C	6.08	117.58	111.07
1	Q	145	ARG	N-CA-C	6.08	117.91	111.28
1	3	405	ARG	NH1-CZ-NH2	-6.08	111.39	119.30
1	4	127	GLN	O-C-N	6.08	128.35	122.03
1	6	418	LYS	CA-C-O	6.08	127.20	120.82
1	c	702	ALA	N-CA-C	6.08	118.41	111.11
1	e	194	GLN	CA-C-N	6.08	128.35	120.44
1	e	194	GLN	C-N-CA	6.08	128.35	120.44
1	g	336	ARG	N-CA-C	6.08	119.75	111.17
1	i	704	HIS	CG-CD2-NE2	6.08	113.28	107.20
1	o	238	PRO	CB-CA-C	-6.08	101.86	111.04
1	x	314	LEU	CB-CA-C	-6.08	103.23	112.11
1	z	328	ARG	N-CA-C	6.08	117.91	111.28
1	A	648	ILE	N-CA-C	6.08	116.82	110.62
1	J	683	SER	CA-C-N	6.08	128.68	120.65
1	J	683	SER	C-N-CA	6.08	128.68	120.65
1	K	670	GLN	N-CA-CB	6.08	119.16	110.16
1	L	344	LYS	CA-C-N	6.08	128.71	120.38
1	L	344	LYS	C-N-CA	6.08	128.71	120.38
1	L	629	HIS	CE1-NE2-CD2	-6.08	102.92	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	397	HIS	CE1-NE2-CD2	-6.08	102.92	109.00
1	S	122	ALA	CA-C-N	6.08	130.68	122.90
1	S	122	ALA	C-N-CA	6.08	130.68	122.90
1	Y	277	SER	N-CA-C	6.08	118.41	111.11
1	7	353	HIS	CE1-NE2-CD2	-6.08	102.92	109.00
1	a	593	ARG	CA-C-N	6.08	129.26	120.38
1	a	593	ARG	C-N-CA	6.08	129.26	120.38
1	y	191	HIS	CA-C-O	6.08	126.99	120.24
1	B	357	ARG	CA-C-O	-6.08	114.44	120.70
1	P	100	CYS	N-CA-C	6.08	118.41	111.11
1	T	396	SER	CA-C-N	6.08	128.34	120.44
1	T	396	SER	C-N-CA	6.08	128.34	120.44
1	Y	280	HIS	N-CA-C	6.08	118.70	111.71
1	4	224	ILE	O-C-N	-6.08	114.92	122.88
1	D	356	PHE	CA-C-O	6.08	126.96	119.79
1	J	437	VAL	N-CA-C	6.08	117.55	110.62
1	K	582	ASP	CA-C-O	6.08	126.96	119.79
1	T	202	ARG	NE-CZ-NH2	-6.08	113.73	119.20
1	U	295	LYS	CA-C-N	6.08	125.63	119.19
1	U	295	LYS	C-N-CA	6.08	125.63	119.19
1	U	381	HIS	CA-CB-CG	6.08	119.88	113.80
1	W	143	LEU	CA-C-N	6.08	127.44	119.84
1	W	143	LEU	C-N-CA	6.08	127.44	119.84
1	X	556	ILE	CA-C-N	6.08	128.75	120.54
1	X	556	ILE	C-N-CA	6.08	128.75	120.54
1	7	584	ILE	O-C-N	-6.08	114.93	121.80
1	a	153	CYS	CA-C-N	6.08	127.44	119.84
1	a	153	CYS	C-N-CA	6.08	127.44	119.84
1	m	220	ASP	CA-CB-CG	6.08	118.68	112.60
1	o	200	ASN	CA-C-O	6.08	127.86	120.57
1	q	571	GLN	N-CA-C	6.08	117.90	111.28
1	Q	160	LYS	O-C-N	-6.08	115.95	123.36
1	V	208	LEU	N-CA-CB	6.08	118.92	110.17
1	V	426	ILE	CA-CB-CG2	6.08	120.83	110.50
1	W	390	GLU	CA-C-O	6.08	127.40	120.90
1	X	533	ASN	CA-CB-CG	-6.08	106.52	112.60
1	1	212	GLU	O-C-N	-6.08	116.07	123.30
1	5	538	HIS	CE1-NE2-CD2	-6.08	102.92	109.00
1	a	385	SER	O-C-N	-6.08	115.02	122.25
1	f	640	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	o	182	ASP	N-CA-CB	-6.08	101.33	110.32
1	o	399	LYS	CB-CG-CD	6.08	125.27	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	191	HIS	ND1-CE1-NE2	6.08	114.48	108.40
1	G	554	GLU	O-C-N	6.08	128.56	122.12
1	K	249	ILE	CA-C-O	-6.08	114.63	120.95
1	L	322	TYR	O-C-N	-6.08	115.33	123.23
1	T	376	THR	N-CA-CB	6.08	119.05	110.12
1	2	704	HIS	CA-C-N	6.07	128.34	120.44
1	2	704	HIS	C-N-CA	6.07	128.34	120.44
1	6	575	GLU	N-CA-C	6.07	117.90	111.28
1	a	244	GLN	CA-C-N	6.07	128.78	120.46
1	a	244	GLN	C-N-CA	6.07	128.78	120.46
1	e	546	ASN	CA-CB-CG	6.07	118.67	112.60
1	i	260	ASN	N-CA-C	6.07	119.40	107.98
1	o	319	LYS	CB-CA-C	-6.07	100.30	110.56
1	K	397	HIS	CB-CG-CD2	-6.07	123.30	131.20
1	u	128	SER	N-CA-CB	6.07	119.15	110.16
1	B	135	LEU	N-CA-C	6.07	117.90	111.28
1	F	356	PHE	CA-CB-CG	-6.07	107.73	113.80
1	L	403	GLU	O-C-N	-6.07	115.82	122.07
1	N	349	PHE	N-CA-C	6.07	117.57	111.07
1	W	175	ASN	CA-C-O	6.07	129.19	120.51
1	0	586	SER	CA-C-N	6.07	130.23	120.82
1	0	586	SER	C-N-CA	6.07	130.23	120.82
1	6	490	LYS	CA-C-N	6.07	132.07	122.60
1	6	490	LYS	C-N-CA	6.07	132.07	122.60
1	b	110	LEU	CA-C-O	6.07	126.95	120.70
1	c	327	CYS	N-CA-CB	-6.07	100.93	110.46
1	g	450	LEU	CA-C-N	6.07	128.41	120.28
1	g	450	LEU	C-N-CA	6.07	128.41	120.28
1	u	423	ILE	CA-C-N	6.07	128.91	120.29
1	u	423	ILE	C-N-CA	6.07	128.91	120.29
1	u	590	LYS	O-C-N	-6.07	114.83	122.17
1	A	685	THR	CA-C-N	6.07	128.73	120.54
1	A	685	THR	C-N-CA	6.07	128.73	120.54
1	B	283	ASP	O-C-N	6.07	128.30	121.32
1	C	352	THR	N-CA-C	-6.07	105.45	112.92
1	H	553	ILE	O-C-N	-6.07	115.98	121.87
1	L	329	GLY	CA-C-N	6.07	131.76	121.14
1	L	329	GLY	C-N-CA	6.07	131.76	121.14
1	N	473	LYS	N-CA-C	6.07	118.67	111.33
1	0	494	GLY	CA-C-N	6.07	132.62	121.70
1	0	494	GLY	C-N-CA	6.07	132.62	121.70
1	1	123	VAL	O-C-N	-6.07	116.17	122.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	l	183	PRO	N-CA-CB	-6.07	97.70	103.41
1	d	267	ASN	CA-CB-CG	6.07	118.67	112.60
1	f	263	VAL	O-C-N	-6.07	115.24	122.77
1	g	272	THR	CA-C-O	6.07	126.98	120.24
1	C	380	MET	CA-C-O	-6.07	114.45	120.82
1	C	698	ARG	NE-CZ-NH2	-6.07	113.74	119.20
1	G	392	GLN	OE1-CD-NE2	-6.07	116.53	122.60
1	O	693	LYS	N-CA-C	6.07	117.56	111.07
1	S	479	GLU	N-CA-C	6.07	118.69	111.71
1	X	316	TYR	N-CA-C	-6.07	100.17	109.64
1	Y	452	ASN	CA-C-N	6.07	128.33	120.44
1	Y	452	ASN	C-N-CA	6.07	128.33	120.44
1	0	530	ALA	CB-CA-C	-6.07	100.72	110.79
1	3	311	VAL	N-CA-C	6.07	116.81	110.62
1	a	578	VAL	O-C-N	-6.07	114.99	122.57
1	b	506	HIS	CE1-NE2-CD2	-6.07	102.93	109.00
1	c	162	GLN	N-CA-C	-6.07	102.76	108.22
1	p	660	SER	CB-CA-C	-6.07	101.35	110.88
1	t	495	PHE	N-CA-CB	6.07	120.82	110.50
1	u	578	VAL	N-CA-C	6.07	115.35	106.55
1	v	227	PRO	CA-C-N	6.07	125.74	119.92
1	v	227	PRO	C-N-CA	6.07	125.74	119.92
1	y	215	SER	CA-C-O	-6.07	114.91	120.13
1	J	377	GLU	N-CA-C	6.07	118.67	111.33
1	U	271	ALA	N-CA-C	6.07	118.67	111.33
1	3	470	GLN	CA-C-O	6.07	126.84	119.38
1	9	269	ASP	CA-C-N	6.07	128.20	120.56
1	9	269	ASP	C-N-CA	6.07	128.20	120.56
1	9	474	ASN	CA-C-N	6.07	128.77	120.46
1	9	474	ASN	C-N-CA	6.07	128.77	120.46
1	a	201	GLY	N-CA-C	-6.07	106.56	115.72
1	p	678	LEU	CA-C-O	6.07	126.95	120.10
1	z	422	LEU	CA-C-N	6.07	128.77	120.46
1	z	422	LEU	C-N-CA	6.07	128.77	120.46
1	D	108	ARG	CA-C-O	-6.07	114.12	120.55
1	H	201	GLY	O-C-N	-6.07	118.53	123.14
1	I	127	GLN	N-CA-C	6.07	118.69	111.71
1	P	487	TYR	N-CA-C	6.07	117.56	111.07
1	V	383	GLN	N-CA-C	6.07	117.89	111.28
1	0	318	LEU	N-CA-C	6.06	123.72	110.80
1	7	472	VAL	CA-CB-CG1	6.06	120.71	110.40
1	h	527	ILE	N-CA-C	6.06	116.73	110.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	468	ASN	OD1-CG-ND2	-6.06	116.54	122.60
1	E	400	ALA	N-CA-C	6.06	117.69	111.14
1	H	690	ARG	NE-CZ-NH1	6.06	127.56	121.50
1	M	701	GLN	N-CA-C	6.06	117.56	111.07
1	U	399	LYS	CA-C-O	6.06	126.98	120.55
1	0	198	ALA	CA-C-N	6.06	132.35	121.92
1	0	198	ALA	C-N-CA	6.06	132.35	121.92
1	6	217	GLU	N-CA-C	6.06	117.97	111.36
1	j	356	PHE	CA-CB-CG	-6.06	107.74	113.80
1	l	436	LEU	CB-CA-C	6.06	120.40	110.88
1	o	631	ASN	CA-C-N	6.06	128.72	120.54
1	o	631	ASN	C-N-CA	6.06	128.72	120.54
1	r	271	ALA	CA-C-O	6.06	126.98	120.55
1	D	345	LYS	N-CA-C	6.06	117.89	111.28
1	G	473	LYS	O-C-N	-6.06	115.13	122.22
1	I	405	ARG	CG-CD-NE	-6.06	98.66	112.00
1	O	573	ARG	CA-C-O	-6.06	114.12	120.55
1	Q	137	ALA	N-CA-C	6.06	118.68	111.71
1	U	353	HIS	CG-CD2-NE2	6.06	113.26	107.20
1	Z	428	MET	N-CA-C	6.06	117.89	111.28
1	1	444	ARG	NH1-CZ-NH2	-6.06	111.42	119.30
1	i	325	VAL	O-C-N	-6.06	116.52	123.00
1	G	576	GLN	N-CA-C	6.06	123.71	110.80
1	I	443	VAL	N-CA-C	6.06	117.91	109.55
1	J	449	ARG	CA-C-N	6.06	128.90	120.29
1	J	449	ARG	C-N-CA	6.06	128.90	120.29
1	Y	108	ARG	N-CA-C	6.06	117.89	111.28
1	6	372	GLU	N-CA-C	6.06	117.55	111.07
1	a	275	ALA	CA-C-N	6.06	128.32	120.44
1	a	275	ALA	C-N-CA	6.06	128.32	120.44
1	g	185	GLN	N-CA-C	6.06	117.97	111.36
1	g	288	ARG	NH1-CZ-NH2	-6.06	111.42	119.30
1	A	652	PHE	CA-CB-CG	-6.06	107.74	113.80
1	G	371	ALA	CA-C-N	6.06	128.40	120.28
1	G	371	ALA	C-N-CA	6.06	128.40	120.28
1	K	239	ARG	O-C-N	-6.06	115.36	122.81
1	K	468	ASN	O-C-N	-6.06	114.82	122.27
1	O	215	SER	O-C-N	-6.06	116.20	121.71
1	R	227	PRO	N-CA-CB	-6.06	96.89	103.25
1	1	381	HIS	CE1-NE2-CD2	-6.06	102.94	109.00
1	6	172	SER	O-C-N	-6.06	115.86	123.01
1	8	443	VAL	N-CA-CB	6.06	118.92	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	589	LEU	O-C-N	-6.06	115.13	122.22
1	h	134	VAL	CA-C-N	6.06	128.31	120.44
1	h	134	VAL	C-N-CA	6.06	128.31	120.44
1	i	528	GLN	O-C-N	6.06	128.39	122.09
1	l	257	GLN	O-C-N	-6.06	114.37	122.49
1	n	358	VAL	CA-C-N	6.06	128.89	120.29
1	n	358	VAL	C-N-CA	6.06	128.89	120.29
1	n	518	SER	CA-C-N	6.06	128.40	120.28
1	n	518	SER	C-N-CA	6.06	128.40	120.28
1	F	419	MET	CA-C-N	6.06	128.31	120.44
1	F	419	MET	C-N-CA	6.06	128.31	120.44
1	K	690	ARG	NE-CZ-NH1	6.06	127.56	121.50
1	L	415	GLU	CA-C-O	6.06	126.95	120.10
1	N	444	ARG	NE-CZ-NH2	-6.06	113.75	119.20
1	O	388	LEU	CA-C-N	6.06	128.40	120.28
1	O	388	LEU	C-N-CA	6.06	128.40	120.28
1	T	331	GLN	OE1-CD-NE2	-6.06	116.54	122.60
1	X	434	GLU	N-CA-CB	6.06	118.79	110.01
1	Y	129	SER	N-CA-CB	6.06	118.79	110.01
1	Z	369	ARG	CA-C-O	6.06	126.81	119.78
1	9	233	ALA	N-CA-C	6.06	119.01	110.23
1	h	566	ASN	N-CA-C	6.06	117.96	111.36
1	N	288	ARG	NE-CZ-NH2	6.06	124.65	119.20
1	2	105	ASP	CA-CB-CG	6.05	118.66	112.60
1	a	276	LEU	N-CA-CB	6.05	118.79	110.01
1	d	530	ALA	CA-C-N	6.05	128.71	120.54
1	d	530	ALA	C-N-CA	6.05	128.71	120.54
1	e	573	ARG	NE-CZ-NH2	6.05	124.65	119.20
1	o	280	HIS	ND1-CE1-NE2	6.05	114.45	108.40
1	r	145	ARG	CA-C-N	6.05	127.97	120.34
1	r	145	ARG	C-N-CA	6.05	127.97	120.34
1	y	343	THR	CB-CA-C	-6.05	101.38	110.88
1	A	458	PHE	N-CA-CB	6.05	119.02	110.12
1	B	398	GLN	CB-CG-CD	6.05	122.89	112.60
1	C	356	PHE	CA-C-O	6.05	126.84	120.42
1	D	442	VAL	CA-C-O	6.05	128.32	120.69
1	F	576	GLN	CA-C-N	6.05	129.36	120.82
1	F	576	GLN	C-N-CA	6.05	129.36	120.82
1	W	410	ASP	CB-CA-C	-6.05	101.37	110.88
1	W	648	ILE	N-CA-C	-6.05	104.61	110.42
1	6	191	HIS	CA-C-N	6.05	128.67	120.38
1	6	191	HIS	C-N-CA	6.05	128.67	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	f	98	ARG	NE-CZ-NH2	6.05	124.65	119.20
1	k	643	ASN	O-C-N	-6.05	114.54	122.59
1	y	461	TRP	N-CA-C	6.05	117.88	111.28
1	J	406	ARG	NE-CZ-NH2	6.05	124.65	119.20
1	N	348	THR	CA-C-N	6.05	128.31	120.44
1	N	348	THR	C-N-CA	6.05	128.31	120.44
1	X	509	ILE	N-CA-C	6.05	117.52	110.62
1	X	518	SER	N-CA-CB	6.05	119.02	110.12
1	Z	180	LEU	CA-C-N	6.05	133.10	121.54
1	Z	180	LEU	C-N-CA	6.05	133.10	121.54
1	Z	673	ASN	OD1-CG-ND2	-6.05	116.55	122.60
1	6	208	LEU	CA-C-O	-6.05	114.49	121.15
1	m	531	PHE	CA-CB-CG	-6.05	107.75	113.80
1	m	593	ARG	NE-CZ-NH1	6.05	127.55	121.50
1	q	415	GLU	O-C-N	-6.05	115.70	122.12
1	t	511	GLN	N-CA-CB	6.05	119.12	110.16
1	x	573	ARG	CA-C-N	6.05	128.39	120.28
1	x	573	ARG	C-N-CA	6.05	128.39	120.28
1	y	280	HIS	CA-CB-CG	6.05	119.85	113.80
1	y	703	ARG	CA-C-N	6.05	128.71	120.54
1	y	703	ARG	C-N-CA	6.05	128.71	120.54
1	B	131	LYS	N-CA-C	6.05	117.88	111.28
1	C	235	ASP	CA-CB-CG	6.05	118.65	112.60
1	J	678	LEU	N-CA-C	6.05	117.55	111.07
1	M	304	GLU	CA-C-N	6.05	128.39	120.28
1	M	304	GLU	C-N-CA	6.05	128.39	120.28
1	Q	280	HIS	N-CA-C	6.05	119.50	111.75
1	T	407	CYS	CB-CA-C	-6.05	99.30	109.53
1	Z	292	ILE	CA-C-O	6.05	126.68	120.39
1	1	586	SER	CA-C-N	6.05	129.01	120.42
1	1	586	SER	C-N-CA	6.05	129.01	120.42
1	8	406	ARG	CD-NE-CZ	6.05	132.87	124.40
1	b	162	GLN	CB-CA-C	-6.05	100.59	109.97
1	d	138	LEU	CA-C-N	6.05	128.39	120.28
1	d	138	LEU	C-N-CA	6.05	128.39	120.28
1	p	206	HIS	ND1-CE1-NE2	6.05	114.45	108.40
1	p	251	LYS	N-CA-C	6.05	118.67	111.71
1	r	456	GLU	N-CA-CB	6.05	118.84	110.07
1	w	129	SER	N-CA-C	6.05	118.67	111.71
1	F	307	VAL	N-CA-C	6.05	116.23	110.42
1	O	381	HIS	CA-C-N	6.05	128.18	120.56
1	O	381	HIS	C-N-CA	6.05	128.18	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	472	VAL	N-CA-CB	-6.05	99.82	110.77
1	V	551	SER	CA-C-N	6.05	128.31	120.44
1	V	551	SER	C-N-CA	6.05	128.31	120.44
1	0	574	MET	CA-C-O	6.05	126.96	120.55
1	b	332	GLU	N-CA-C	6.05	119.13	110.24
1	e	369	ARG	NE-CZ-NH1	-6.05	115.45	121.50
1	u	633	TYR	CA-C-N	6.05	128.88	120.29
1	u	633	TYR	C-N-CA	6.05	128.88	120.29
1	B	375	THR	CA-C-O	6.05	126.96	120.55
1	L	394	ARG	O-C-N	-6.05	115.84	122.07
1	W	131	LYS	N-CA-C	-6.05	104.77	111.36
1	0	336	ARG	NH1-CZ-NH2	-6.05	111.44	119.30
1	0	406	ARG	CD-NE-CZ	6.05	132.87	124.40
1	0	579	PHE	CA-CB-CG	6.05	119.85	113.80
1	1	308	MET	CG-SD-CE	-6.05	87.60	100.90
1	1	640	ARG	N-CA-C	6.05	117.95	111.36
1	2	657	ASN	CA-C-N	6.05	127.96	120.34
1	2	657	ASN	C-N-CA	6.05	127.96	120.34
1	5	117	ALA	CA-C-O	6.05	128.35	121.58
1	a	500	THR	CA-C-O	6.05	126.96	120.55
1	f	674	ARG	O-C-N	-6.05	114.50	122.42
1	u	421	PHE	O-C-N	6.05	128.53	122.12
1	u	567	MET	N-CA-C	6.05	117.87	111.28
1	w	567	MET	N-CA-C	6.05	117.87	111.28
1	y	537	LYS	N-CA-C	6.05	117.95	111.36
1	J	123	VAL	N-CA-C	6.05	116.87	108.89
1	J	673	ASN	CA-C-O	6.05	126.34	119.27
1	M	257	GLN	CB-CG-CD	-6.05	102.32	112.60
1	N	471	LYS	N-CA-C	6.05	118.36	111.11
1	O	377	GLU	CA-C-N	6.05	128.63	120.65
1	O	377	GLU	C-N-CA	6.05	128.63	120.65
1	R	191	HIS	CG-CD2-NE2	6.05	113.25	107.20
1	W	689	ARG	N-CA-C	6.05	117.54	111.07
1	Y	108	ARG	NH1-CZ-NH2	-6.05	111.44	119.30
1	1	175	ASN	CA-CB-CG	6.04	118.64	112.60
1	H	256	GLN	O-C-N	-6.04	115.71	122.12
1	H	457	ASP	CA-CB-CG	6.04	118.64	112.60
1	P	254	GLN	N-CA-C	-6.04	104.61	111.14
1	R	528	GLN	CA-C-N	6.04	128.70	120.54
1	R	528	GLN	C-N-CA	6.04	128.70	120.54
1	Y	477	HIS	CE1-NE2-CD2	-6.04	102.95	109.00
1	0	593	ARG	NE-CZ-NH2	-6.04	113.76	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	268	VAL	O-C-N	-6.04	116.65	123.18
1	4	640	ARG	N-CA-C	6.04	117.87	111.28
1	7	393	ILE	CA-C-N	6.04	128.30	120.44
1	7	393	ILE	C-N-CA	6.04	128.30	120.44
1	c	259	ILE	N-CA-CB	6.04	118.28	111.21
1	w	640	ARG	NE-CZ-NH1	6.04	127.54	121.50
1	J	312	ARG	NE-CZ-NH1	6.04	127.54	121.50
1	K	397	HIS	CB-CG-ND1	6.04	131.76	122.70
1	M	541	GLU	N-CA-C	6.04	118.83	111.82
1	X	135	LEU	CA-C-N	6.04	128.38	120.28
1	X	135	LEU	C-N-CA	6.04	128.38	120.28
1	Y	355	TYR	CB-CG-CD2	6.04	129.87	120.80
1	7	272	THR	N-CA-C	-6.04	105.83	112.72
1	b	121	ILE	N-CA-CB	-6.04	103.94	110.53
1	g	506	HIS	CE1-NE2-CD2	-6.04	102.96	109.00
1	h	658	GLY	O-C-N	-6.04	116.33	122.19
1	h	690	ARG	CA-C-O	6.04	126.95	120.55
1	k	573	ARG	CG-CD-NE	-6.04	98.71	112.00
1	r	258	THR	CA-C-N	6.04	128.66	120.63
1	r	258	THR	C-N-CA	6.04	128.66	120.63
1	B	646	PRO	CA-C-N	6.04	128.66	120.38
1	B	646	PRO	C-N-CA	6.04	128.66	120.38
1	G	254	GLN	CG-CD-NE2	6.04	125.46	116.40
1	N	152	ARG	NE-CZ-NH1	6.04	127.54	121.50
1	N	640	ARG	NE-CZ-NH2	-6.04	113.76	119.20
1	P	122	ALA	CA-C-N	6.04	130.54	122.93
1	P	122	ALA	C-N-CA	6.04	130.54	122.93
1	P	183	PRO	CA-C-N	6.04	126.80	120.03
1	P	183	PRO	C-N-CA	6.04	126.80	120.03
1	P	344	LYS	CA-C-O	6.04	126.95	120.55
1	Q	461	TRP	N-CA-C	6.04	118.64	111.33
1	S	656	GLU	CA-C-O	6.04	126.95	120.55
1	T	498	TYR	N-CA-C	-6.04	105.74	113.23
1	V	98	ARG	NE-CZ-NH2	-6.04	113.76	119.20
1	Y	112	VAL	CA-C-O	-6.04	115.37	121.59
1	Z	644	GLN	N-CA-C	6.04	117.53	111.07
1	8	708	GLN	CA-C-N	6.04	128.29	120.44
1	8	708	GLN	C-N-CA	6.04	128.29	120.44
1	e	199	GLY	O-C-N	-6.04	116.38	122.54
1	g	154	PRO	CA-C-N	6.04	131.33	122.39
1	g	154	PRO	C-N-CA	6.04	131.33	122.39
1	l	93	TYR	CA-C-N	6.04	128.66	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	l	93	TYR	C-N-CA	6.04	128.66	120.38
1	l	500	THR	N-CA-CB	6.04	118.77	110.01
1	r	555	ASP	N-CA-C	6.04	118.36	111.11
1	A	417	ASP	CA-C-N	6.04	128.29	120.44
1	A	417	ASP	C-N-CA	6.04	128.29	120.44
1	S	528	GLN	N-CA-C	6.04	117.86	111.28
1	U	366	THR	CA-C-N	6.04	128.58	123.33
1	U	366	THR	C-N-CA	6.04	128.58	123.33
1	0	173	TYR	CA-C-O	6.04	127.02	119.59
1	5	263	VAL	O-C-N	-6.04	115.28	122.77
1	a	514	GLU	CA-C-N	6.04	127.39	119.84
1	a	514	GLU	C-N-CA	6.04	127.39	119.84
1	c	500	THR	N-CA-C	6.04	117.86	111.28
1	g	118	LEU	N-CA-C	6.04	123.16	109.81
1	k	586	SER	O-C-N	6.04	128.52	122.12
1	m	641	LEU	CA-C-O	6.04	126.91	119.97
1	u	626	ILE	N-CA-C	6.04	116.78	110.62
1	x	637	THR	CA-C-N	6.04	128.87	120.29
1	x	637	THR	C-N-CA	6.04	128.87	120.29
1	y	154	PRO	N-CA-CB	-6.04	97.75	103.19
1	B	411	ILE	CA-C-N	6.04	126.39	119.93
1	B	411	ILE	C-N-CA	6.04	126.39	119.93
1	H	440	GLU	CA-C-N	6.04	129.87	120.75
1	H	440	GLU	C-N-CA	6.04	129.87	120.75
1	K	240	ASP	N-CA-CB	6.04	120.77	110.50
1	P	437	VAL	N-CA-C	6.04	116.70	110.36
1	Q	121	ILE	N-CA-CB	-6.04	103.04	111.25
1	Q	552	THR	O-C-N	-6.04	115.72	122.12
1	R	238	PRO	N-CD-CG	6.04	112.26	103.20
1	T	102	ASP	CB-CA-C	6.04	120.81	110.79
1	T	687	THR	N-CA-CB	6.04	119.10	110.16
1	W	170	ARG	NE-CZ-NH2	-6.04	113.77	119.20
1	Z	182	ASP	CA-C-N	6.04	127.39	119.84
1	Z	182	ASP	C-N-CA	6.04	127.39	119.84
1	x	534	VAL	O-C-N	-6.04	116.01	121.87
1	K	632	ALA	N-CA-C	6.04	117.55	110.97
1	W	377	GLU	CA-C-N	6.04	128.69	120.54
1	W	377	GLU	C-N-CA	6.04	128.69	120.54
1	Y	625	GLU	CA-C-N	6.04	128.25	120.70
1	Y	625	GLU	C-N-CA	6.04	128.25	120.70
1	9	506	HIS	CG-CD2-NE2	6.04	113.23	107.20
1	d	164	CYS	O-C-N	-6.04	116.35	123.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	j	240	ASP	CA-C-N	6.04	128.73	120.46
1	j	240	ASP	C-N-CA	6.04	128.73	120.46
1	p	388	LEU	CA-C-N	6.04	128.29	120.44
1	p	388	LEU	C-N-CA	6.04	128.29	120.44
1	r	118	LEU	N-CA-C	6.04	123.15	109.81
1	s	391	GLY	CA-C-O	-6.04	114.14	120.90
1	x	540	GLY	N-CA-C	-6.04	106.86	114.16
1	B	95	GLN	CA-C-O	-6.04	114.48	120.82
1	B	449	ARG	NH1-CZ-NH2	-6.04	111.45	119.30
1	D	491	GLU	N-CA-CB	6.04	119.69	110.70
1	J	525	GLU	CB-CG-CD	6.04	122.86	112.60
1	M	140	GLY	O-C-N	-6.04	117.88	122.71
1	O	191	HIS	O-C-N	-6.04	114.84	122.27
1	P	283	ASP	CA-C-N	6.04	125.59	119.19
1	P	283	ASP	C-N-CA	6.04	125.59	119.19
1	U	246	LYS	CA-C-O	-6.04	114.02	120.42
1	V	356	PHE	CA-CB-CG	-6.04	107.77	113.80
1	W	510	GLN	CA-C-N	6.04	128.97	120.28
1	W	510	GLN	C-N-CA	6.04	128.97	120.28
1	0	486	GLN	CA-C-N	6.03	131.70	122.29
1	0	486	GLN	C-N-CA	6.03	131.70	122.29
1	2	187	GLU	N-CA-CB	-6.03	101.25	110.12
1	9	625	GLU	N-CA-C	6.03	117.53	111.07
1	d	260	ASN	CA-C-O	-6.03	113.90	120.36
1	e	209	ILE	O-C-N	-6.03	116.74	123.26
1	i	176	THR	N-CA-CB	6.03	120.64	110.69
1	i	221	LEU	O-C-N	-6.03	115.91	123.27
1	o	200	ASN	CA-CB-CG	-6.03	106.57	112.60
1	w	549	VAL	N-CA-C	6.03	116.21	110.42
1	G	519	MET	N-CA-C	6.03	117.86	111.28
1	5	427	LYS	N-CA-C	6.03	117.53	111.07
1	a	137	ALA	O-C-N	-6.03	114.14	122.46
1	a	419	MET	O-C-N	-6.03	115.82	122.09
1	j	703	ARG	CA-C-N	6.03	128.36	120.28
1	j	703	ARG	C-N-CA	6.03	128.36	120.28
1	z	420	PHE	N-CA-C	6.03	117.86	111.28
1	C	520	LEU	N-CA-C	6.03	118.35	111.11
1	L	700	THR	N-CA-CB	6.03	119.09	110.16
1	X	660	SER	CA-C-N	6.03	129.18	120.79
1	X	660	SER	C-N-CA	6.03	129.18	120.79
1	0	173	TYR	O-C-N	-6.03	114.65	122.37
1	0	376	THR	O-C-N	-6.03	115.73	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	639	LYS	CA-C-N	6.03	128.36	120.28
1	2	639	LYS	C-N-CA	6.03	128.36	120.28
1	5	258	THR	N-CA-C	6.03	119.10	110.24
1	6	486	GLN	CA-C-N	6.03	128.64	120.38
1	6	486	GLN	C-N-CA	6.03	128.64	120.38
1	g	288	ARG	NE-CZ-NH1	6.03	127.53	121.50
1	i	497	ASN	CB-CA-C	6.03	120.18	110.29
1	k	116	LEU	CA-C-O	6.03	127.91	121.16
1	k	211	LEU	O-C-N	-6.03	115.56	123.28
1	l	205	SER	N-CA-C	6.03	119.31	109.06
1	s	630	LEU	CA-C-O	6.03	126.94	120.55
1	z	152	ARG	N-CA-CB	6.03	118.92	110.90
1	L	323	MET	CB-CA-C	6.03	120.17	110.16
1	S	705	ALA	N-CA-CB	6.03	118.93	109.94
1	V	193	ALA	O-C-N	-6.03	115.16	122.22
1	g	481	GLU	N-CA-C	6.03	117.85	111.28
1	i	593	ARG	N-CA-C	6.03	117.54	110.97
1	G	430	ASN	OD1-CG-ND2	-6.03	116.57	122.60
1	a	204	ILE	N-CA-C	6.03	117.41	109.21
1	d	174	ARG	NH1-CZ-NH2	-6.03	111.46	119.30
1	d	221	LEU	N-CA-C	6.03	117.40	108.60
1	g	356	PHE	N-CA-CB	6.03	118.98	110.12
1	h	693	LYS	N-CA-C	6.03	117.85	111.28
1	k	168	ALA	O-C-N	-6.03	116.38	123.25
1	m	694	GLU	CB-CA-C	6.03	120.34	110.88
1	t	651	TYR	N-CA-C	6.03	117.54	110.97
1	I	452	ASN	CA-C-N	6.03	128.28	120.44
1	I	452	ASN	C-N-CA	6.03	128.28	120.44
1	O	277	SER	CA-C-N	6.03	128.36	120.28
1	O	277	SER	C-N-CA	6.03	128.36	120.28
1	O	698	ARG	NH1-CZ-NH2	-6.03	111.46	119.30
1	R	483	TYR	O-C-N	-6.03	115.73	122.12
1	S	588	VAL	CA-C-O	-6.03	114.46	120.85
1	0	107	LEU	N-CA-CB	6.03	119.62	110.28
1	0	566	ASN	OD1-CG-ND2	-6.03	116.57	122.60
1	1	488	ARG	CA-C-O	6.03	126.78	119.31
1	2	427	LYS	N-CA-C	6.03	117.85	111.28
1	a	350	PHE	O-C-N	-6.03	115.73	122.12
1	e	195	ASN	CA-C-N	6.03	128.72	120.46
1	e	195	ASN	C-N-CA	6.03	128.72	120.46
1	o	290	ILE	N-CA-C	-6.03	98.95	107.75
1	q	641	LEU	CA-C-N	6.03	128.96	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	q	641	LEU	C-N-CA	6.03	128.96	120.28
1	w	351	GLN	N-CA-C	6.03	118.62	111.33
1	w	470	GLN	CG-CD-OE1	6.03	132.85	120.80
1	x	529	GLN	N-CA-C	6.03	117.85	111.28
1	B	475	ILE	CA-CB-CG2	6.03	120.74	110.50
1	J	355	TYR	CB-CG-CD2	-6.03	111.76	120.80
1	L	547	GLN	OE1-CD-NE2	-6.03	116.58	122.60
1	V	677	TRP	CA-CB-CG	6.03	125.05	113.60
1	X	307	VAL	CA-C-O	6.03	127.22	120.95
1	9	296	PRO	CB-CA-C	6.02	120.91	112.11
1	o	326	LYS	O-C-N	-6.02	115.52	122.93
1	o	433	ILE	O-C-N	-6.02	116.03	121.87
1	A	478	GLU	N-CA-C	6.02	117.52	111.07
1	M	655	ARG	N-CA-C	6.02	118.37	111.02
1	a	368	PRO	CA-C-N	6.02	128.35	120.28
1	a	368	PRO	C-N-CA	6.02	128.35	120.28
1	h	173	TYR	CA-C-O	6.02	127.87	119.80
1	y	554	GLU	N-CA-C	6.02	118.34	111.11
1	C	541	GLU	N-CA-C	6.02	117.51	111.07
1	F	353	HIS	CA-CB-CG	-6.02	107.78	113.80
1	M	514	GLU	O-C-N	-6.02	115.12	120.48
1	S	474	ASN	CA-C-N	6.02	128.15	120.56
1	S	474	ASN	C-N-CA	6.02	128.15	120.56
1	T	484	GLU	CA-C-O	6.02	125.77	119.14
1	U	513	VAL	CA-C-N	6.02	127.62	120.09
1	U	513	VAL	C-N-CA	6.02	127.62	120.09
1	2	244	GLN	CA-C-N	6.02	128.15	120.56
1	2	244	GLN	C-N-CA	6.02	128.15	120.56
1	4	567	MET	CG-SD-CE	-6.02	87.65	100.90
1	d	482	LYS	N-CA-C	6.02	117.92	111.36
1	e	684	GLU	CA-C-O	6.02	127.14	120.82
1	f	252	TYR	N-CA-CB	6.02	119.52	110.19
1	l	173	TYR	CA-C-N	6.02	131.94	122.49
1	l	173	TYR	C-N-CA	6.02	131.94	122.49
1	n	632	ALA	O-C-N	6.02	128.50	122.12
1	s	598	ASN	OD1-CG-ND2	-6.02	116.58	122.60
1	t	325	VAL	N-CA-CB	6.02	121.87	111.39
1	K	400	ALA	N-CA-C	6.02	117.84	111.28
1	Z	285	GLU	N-CA-C	6.02	119.82	112.23
1	0	336	ARG	NE-CZ-NH1	6.02	127.52	121.50
1	4	468	ASN	OD1-CG-ND2	-6.02	116.58	122.60
1	6	329	GLY	N-CA-C	6.02	120.32	112.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	695	ARG	NE-CZ-NH2	-6.02	113.78	119.20
1	c	331	GLN	CB-CG-CD	6.02	122.83	112.60
1	e	510	GLN	N-CA-C	6.02	117.84	111.28
1	m	174	ARG	N-CA-C	-6.02	105.52	112.92
1	r	108	ARG	NH1-CZ-NH2	-6.02	111.47	119.30
1	z	279	ALA	CA-C-N	6.02	128.35	120.28
1	z	279	ALA	C-N-CA	6.02	128.35	120.28
1	M	640	ARG	CD-NE-CZ	6.02	132.83	124.40
1	O	573	ARG	N-CA-C	6.02	117.84	111.28
1	Q	650	GLN	N-CA-C	6.02	117.92	111.36
1	W	189	GLU	O-C-N	-6.02	115.87	122.07
1	Y	424	GLU	N-CA-C	6.02	117.84	111.28
1	Y	484	GLU	O-C-N	-6.02	115.29	122.15
1	2	429	PHE	CA-C-N	6.02	128.34	120.28
1	2	429	PHE	C-N-CA	6.02	128.34	120.28
1	5	224	ILE	CA-CB-CG2	6.02	120.73	110.50
1	c	182	ASP	N-CA-C	6.02	118.20	109.84
1	d	432	ASP	CA-CB-CG	-6.02	106.58	112.60
1	g	350	PHE	O-C-N	-6.02	115.29	122.15
1	g	642	ALA	O-C-N	6.02	128.27	122.07
1	i	381	HIS	CA-CB-CG	-6.02	107.78	113.80
1	l	109	ALA	CA-C-O	6.02	127.14	120.82
1	v	366	THR	N-CA-CB	6.02	120.21	110.40
1	z	366	THR	CA-CB-OG1	6.02	118.63	109.60
1	I	629	HIS	CE1-NE2-CD2	-6.02	102.98	109.00
1	J	114	GLN	CA-C-O	-6.02	114.36	121.16
1	K	448	THR	N-CA-C	6.02	118.98	110.50
1	T	189	GLU	CA-C-N	6.02	128.71	120.46
1	T	189	GLU	C-N-CA	6.02	128.71	120.46
1	U	248	LEU	CA-C-N	6.02	128.36	120.60
1	U	248	LEU	C-N-CA	6.02	128.36	120.60
1	W	122	ALA	O-C-N	-6.02	116.47	123.27
1	W	312	ARG	NE-CZ-NH1	6.02	127.52	121.50
1	3	593	ARG	CA-C-O	6.02	127.14	120.82
1	j	137	ALA	CA-C-O	6.02	126.78	119.38
1	n	485	LYS	N-CA-C	6.02	117.51	111.07
1	q	354	PRO	CB-CA-C	-6.02	103.33	112.11
1	z	535	ALA	CA-C-N	6.02	128.26	120.44
1	z	535	ALA	C-N-CA	6.02	128.26	120.44
1	B	476	ILE	CB-CA-C	6.02	119.92	112.04
1	0	704	HIS	CG-CD2-NE2	6.01	113.22	107.20
1	5	285	GLU	CA-C-O	6.01	126.48	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	239	ARG	CA-C-N	6.01	132.53	121.70
1	6	239	ARG	C-N-CA	6.01	132.53	121.70
1	6	552	THR	CA-C-N	6.01	128.70	120.46
1	6	552	THR	C-N-CA	6.01	128.70	120.46
1	a	598	ASN	CA-CB-CG	-6.01	106.58	112.60
1	c	248	LEU	CA-C-O	-6.01	114.50	120.70
1	l	502	GLU	CA-C-O	-6.01	114.04	120.42
1	n	122	ALA	CB-CA-C	-6.01	101.06	110.74
1	r	189	GLU	O-C-N	-6.01	114.87	122.27
1	t	146	GLY	O-C-N	-6.01	115.88	122.68
1	v	513	VAL	N-CA-C	6.01	116.75	110.62
1	E	582	ASP	CA-C-N	6.01	128.94	120.28
1	E	582	ASP	C-N-CA	6.01	128.94	120.28
1	X	535	ALA	N-CA-C	6.01	117.92	111.36
1	c	285	GLU	N-CA-C	6.01	120.75	113.17
1	s	320	LYS	CA-C-N	6.01	130.05	120.07
1	s	320	LYS	C-N-CA	6.01	130.05	120.07
1	A	401	THR	CA-C-O	6.01	126.89	120.10
1	G	421	PHE	CA-CB-CG	6.01	119.81	113.80
1	M	446	ASN	CA-C-N	6.01	129.25	120.71
1	M	446	ASN	C-N-CA	6.01	129.25	120.71
1	U	309	ASN	CA-CB-CG	-6.01	106.59	112.60
1	4	687	THR	O-C-N	-6.01	115.75	122.12
1	5	248	LEU	O-C-N	-6.01	115.88	122.07
1	6	425	LYS	O-C-N	6.01	128.49	122.12
1	a	705	ALA	N-CA-C	6.01	118.61	111.33
1	c	149	ILE	N-CA-CB	6.01	118.18	110.13
1	c	478	GLU	CA-C-O	6.01	126.92	120.55
1	e	161	LYS	N-CA-CB	6.01	118.83	110.17
1	k	336	ARG	N-CA-C	6.01	119.53	111.24
1	m	420	PHE	CA-CB-CG	-6.01	107.79	113.80
1	n	238	PRO	O-C-N	-6.01	115.76	123.03
1	w	255	ARG	N-CA-C	6.01	118.72	110.24
1	I	623	PHE	CA-C-N	6.01	128.34	120.28
1	I	623	PHE	C-N-CA	6.01	128.34	120.28
1	I	642	ALA	CA-C-O	6.01	126.77	119.38
1	J	536	LYS	N-CA-C	6.01	117.63	111.14
1	N	167	TRP	CG-CD2-CE3	-6.01	127.89	133.90
1	P	160	LYS	O-C-N	-6.01	115.59	123.28
1	R	245	ILE	N-CA-CB	6.01	117.58	110.55
1	1	649	ILE	N-CA-C	6.01	116.19	110.42
1	7	446	ASN	CA-CB-CG	-6.01	106.59	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8	477	HIS	N-CA-C	6.01	117.83	111.28
1	8	589	LEU	CA-C-N	6.01	128.25	120.44
1	8	589	LEU	C-N-CA	6.01	128.25	120.44
1	b	475	ILE	CA-C-N	6.01	128.13	120.56
1	b	475	ILE	C-N-CA	6.01	128.13	120.56
1	s	288	ARG	NE-CZ-NH2	-6.01	113.79	119.20
1	D	568	ILE	N-CA-C	6.01	116.48	110.23
1	J	464	ILE	CA-C-N	6.01	128.33	120.28
1	J	464	ILE	C-N-CA	6.01	128.33	120.28
1	M	700	THR	N-CA-C	6.01	117.83	111.28
1	P	331	GLN	OE1-CD-NE2	-6.01	116.59	122.60
1	W	706	LEU	N-CA-C	6.01	118.32	111.11
1	Y	441	GLU	N-CA-C	6.01	118.05	110.24
1	Z	625	GLU	N-CA-C	6.01	117.50	111.07
1	b	115	ASP	CB-CA-C	6.01	120.42	111.89
1	f	290	ILE	CA-C-N	6.01	127.64	122.29
1	f	290	ILE	C-N-CA	6.01	127.64	122.29
1	n	458	PHE	O-C-N	-6.01	114.28	122.33
1	y	581	GLN	OE1-CD-NE2	-6.01	116.59	122.60
1	B	455	ARG	NE-CZ-NH1	6.01	127.51	121.50
1	D	595	GLU	N-CA-C	6.01	118.62	111.71
1	G	698	ARG	NH1-CZ-NH2	-6.01	111.49	119.30
1	U	191	HIS	N-CA-C	6.01	117.50	111.07
1	V	303	THR	O-C-N	-6.01	115.88	122.07
1	m	209	ILE	N-CA-CB	6.01	118.49	110.26
1	m	423	ILE	N-CA-C	6.01	116.75	110.62
1	v	547	GLN	CA-C-O	6.01	126.89	120.10
1	w	477	HIS	CA-C-O	-6.01	114.05	120.42
1	E	509	ILE	N-CA-CB	-6.01	103.52	110.55
1	F	290	ILE	CA-C-O	6.01	126.96	120.53
1	L	640	ARG	NH1-CZ-NH2	-6.01	111.49	119.30
1	4	314	LEU	CA-C-O	6.00	129.10	120.51
1	k	493	LEU	N-CA-C	6.00	119.39	111.28
1	q	144	PRO	CA-C-O	-6.00	114.49	121.34
1	B	192	LYS	CB-CA-C	-6.00	100.82	110.79
1	H	94	GLU	N-CA-C	6.00	118.60	111.33
1	H	247	ALA	N-CA-C	6.00	117.50	111.07
1	K	489	GLY	CA-C-O	-6.00	114.56	120.75
1	R	657	ASN	CA-CB-CG	6.00	118.61	112.60
1	4	197	MET	CA-C-O	6.00	126.88	119.97
1	6	650	GLN	N-CA-C	6.00	117.49	111.07
1	7	202	ARG	NH1-CZ-NH2	-6.00	111.50	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	n	428	MET	N-CA-CB	-6.00	101.29	110.12
1	r	533	ASN	CB-CA-C	-6.00	100.83	110.79
1	y	244	GLN	CG-CD-OE1	6.00	132.81	120.80
1	y	448	THR	O-C-N	-6.00	116.25	123.03
1	I	678	LEU	CA-C-O	-6.00	114.06	120.42
1	O	110	LEU	O-C-N	-6.00	114.39	122.43
1	V	703	ARG	O-C-N	-6.00	115.75	122.12
1	X	126	ASP	CA-C-O	6.00	128.83	121.87
1	1	255	ARG	CA-C-N	6.00	128.92	120.28
1	1	255	ARG	C-N-CA	6.00	128.92	120.28
1	1	336	ARG	CA-C-O	6.00	127.45	120.49
1	b	97	VAL	CA-C-N	6.00	128.50	120.58
1	b	97	VAL	C-N-CA	6.00	128.50	120.58
1	d	569	GLN	N-CA-C	-6.00	104.74	111.28
1	e	301	ARG	NE-CZ-NH1	6.00	127.50	121.50
1	g	325	VAL	CA-C-N	6.00	129.28	120.82
1	g	325	VAL	C-N-CA	6.00	129.28	120.82
1	l	216	PRO	CB-CA-C	-6.00	102.92	111.68
1	v	550	GLN	OE1-CD-NE2	-6.00	116.60	122.60
1	x	470	GLN	OE1-CD-NE2	-6.00	116.60	122.60
1	H	526	ILE	CA-C-O	6.00	127.21	120.85
1	I	340	ALA	CB-CA-C	-6.00	100.83	110.79
1	I	368	PRO	N-CA-CB	6.00	109.55	103.25
1	I	689	ARG	NH1-CZ-NH2	-6.00	111.50	119.30
1	M	551	SER	N-CA-CB	6.00	118.94	110.12
1	Z	336	ARG	CB-CG-CD	6.00	125.11	111.30
1	1	226	LEU	CA-C-O	-6.00	115.15	120.19
1	7	680	GLN	N-CA-C	6.00	119.06	110.24
1	l	514	GLU	CA-C-N	6.00	125.71	119.05
1	l	514	GLU	C-N-CA	6.00	125.71	119.05
1	v	550	GLN	N-CA-C	6.00	117.90	111.36
1	w	552	THR	N-CA-C	6.00	117.49	111.07
1	H	635	LEU	O-C-N	6.00	128.25	122.07
1	K	644	GLN	OE1-CD-NE2	-6.00	116.60	122.60
1	T	695	ARG	N-CA-C	6.00	117.90	111.36
1	Z	213	ILE	N-CA-CB	6.00	119.98	111.82
1	5	213	ILE	CA-C-O	6.00	126.33	120.27
1	d	397	HIS	CA-CB-CG	-6.00	107.80	113.80
1	h	295	LYS	O-C-N	-6.00	114.42	121.32
1	n	113	GLU	N-CA-C	6.00	117.90	111.36
1	t	235	ASP	N-CA-C	6.00	117.90	111.36
1	t	631	ASN	N-CA-CB	-6.00	100.98	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	134	VAL	CA-CB-CG1	6.00	120.60	110.40
1	C	435	LYS	CA-C-O	6.00	126.91	120.55
1	J	409	ALA	O-C-N	-6.00	114.61	122.59
1	N	535	ALA	CA-C-N	6.00	129.14	120.38
1	N	535	ALA	C-N-CA	6.00	129.14	120.38
1	l	102	ASP	N-CA-C	6.00	118.78	111.82
1	l	455	ARG	NE-CZ-NH1	6.00	127.50	121.50
1	4	334	THR	N-CA-CB	6.00	119.32	110.33
1	c	372	GLU	N-CA-C	6.00	117.49	111.07
1	e	239	ARG	CA-C-N	6.00	132.49	121.70
1	e	239	ARG	C-N-CA	6.00	132.49	121.70
1	h	457	ASP	O-C-N	-6.00	114.89	122.27
1	m	178	LEU	O-C-N	-6.00	115.21	123.01
1	o	513	VAL	N-CA-CB	6.00	117.57	110.55
1	p	563	LYS	N-CA-C	6.00	117.49	111.07
1	y	531	PHE	CA-CB-CG	6.00	119.80	113.80
1	z	449	ARG	N-CA-C	6.00	119.17	110.42
1	A	644	GLN	CA-C-N	6.00	125.13	120.33
1	A	644	GLN	C-N-CA	6.00	125.13	120.33
1	B	507	GLN	O-C-N	-6.00	114.89	122.27
1	E	191	HIS	CB-CG-CD2	-6.00	123.40	131.20
1	G	645	ILE	CA-C-N	6.00	125.39	118.85
1	G	645	ILE	C-N-CA	6.00	125.39	118.85
1	J	511	GLN	CA-C-N	6.00	130.19	120.60
1	J	511	GLN	C-N-CA	6.00	130.19	120.60
1	L	538	HIS	CG-CD2-NE2	6.00	113.20	107.20
1	P	677	TRP	CB-CG-CD1	6.00	135.89	126.90
1	S	384	LYS	N-CA-CB	-6.00	101.29	110.16
1	a	255	ARG	NE-CZ-NH1	6.00	127.50	121.50
1	j	430	ASN	CB-CG-ND2	-6.00	107.41	116.40
1	w	266	CYS	N-CA-C	6.00	119.42	111.75
1	x	506	HIS	O-C-N	-6.00	115.77	122.12
1	z	227	PRO	N-CA-C	6.00	120.60	111.19
1	O	442	VAL	CA-C-N	6.00	129.25	122.48
1	O	442	VAL	C-N-CA	6.00	129.25	122.48
1	1	377	GLU	CA-C-N	5.99	128.78	120.63
1	1	377	GLU	C-N-CA	5.99	128.78	120.63
1	2	134	VAL	CA-C-O	5.99	127.18	120.95
1	6	572	PHE	N-CA-C	5.99	119.85	112.54
1	f	495	PHE	N-CA-CB	5.99	120.69	110.50
1	l	675	TYR	CA-C-N	5.99	130.72	121.19
1	l	675	TYR	C-N-CA	5.99	130.72	121.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	o	202	ARG	NE-CZ-NH2	-5.99	113.81	119.20
1	p	404	LEU	CA-C-N	5.99	128.80	120.29
1	p	404	LEU	C-N-CA	5.99	128.80	120.29
1	s	519	MET	CA-C-O	5.99	126.87	120.10
1	A	98	ARG	CA-C-N	5.99	125.70	119.05
1	A	98	ARG	C-N-CA	5.99	125.70	119.05
1	F	313	ASN	CA-CB-CG	5.99	118.59	112.60
1	Q	101	ILE	CA-C-N	5.99	128.80	120.29
1	Q	101	ILE	C-N-CA	5.99	128.80	120.29
1	R	651	TYR	O-C-N	-5.99	115.90	122.07
1	W	163	PRO	N-CA-C	5.99	121.43	113.40
1	X	437	VAL	CB-CA-C	-5.99	104.21	112.24
1	1	256	GLN	N-CA-C	5.99	118.60	111.71
1	b	657	ASN	CA-C-O	5.99	127.11	120.82
1	f	471	LYS	CA-C-N	5.99	129.94	120.47
1	f	471	LYS	C-N-CA	5.99	129.94	120.47
1	g	525	GLU	O-C-N	5.99	128.47	122.12
1	m	150	VAL	CA-C-N	5.99	129.22	120.71
1	m	150	VAL	C-N-CA	5.99	129.22	120.71
1	v	476	ILE	CB-CA-C	5.99	121.12	111.29
1	D	655	ARG	N-CA-C	5.99	117.61	111.14
1	N	297	ASP	CA-C-N	5.99	130.87	120.68
1	N	297	ASP	C-N-CA	5.99	130.87	120.68
1	5	348	THR	N-CA-C	5.99	118.77	111.82
1	6	531	PHE	CA-C-N	5.99	128.33	120.60
1	6	531	PHE	C-N-CA	5.99	128.33	120.60
1	7	215	SER	CA-C-O	-5.99	111.95	120.16
1	d	139	SER	N-CA-C	5.99	117.81	111.28
1	g	437	VAL	N-CA-CB	5.99	117.15	110.62
1	i	597	PHE	O-C-N	-5.99	115.77	122.12
1	p	198	ALA	N-CA-C	5.99	119.85	112.54
1	u	410	ASP	CB-CA-C	-5.99	101.47	110.88
1	w	226	LEU	N-CA-CB	5.99	118.39	109.88
1	E	401	THR	O-C-N	-5.99	115.77	122.12
1	F	581	GLN	OE1-CD-NE2	-5.99	116.61	122.60
1	L	267	ASN	CA-C-O	-5.99	112.59	119.60
1	P	205	SER	CA-C-O	5.99	126.83	120.36
1	R	430	ASN	N-CA-C	5.99	117.81	111.28
1	W	269	ASP	CA-C-N	5.99	128.11	120.56
1	W	269	ASP	C-N-CA	5.99	128.11	120.56
1	X	548	THR	CA-C-O	5.99	127.11	120.82
1	1	708	GLN	N-CA-C	5.99	117.81	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	9	590	LYS	CA-C-N	5.99	128.62	120.54
1	9	590	LYS	C-N-CA	5.99	128.62	120.54
1	9	705	ALA	O-C-N	-5.99	115.32	122.15
1	k	422	LEU	CA-C-N	5.99	128.23	120.56
1	k	422	LEU	C-N-CA	5.99	128.23	120.56
1	l	422	LEU	N-CA-CB	5.99	118.75	110.07
1	q	477	HIS	N-CA-C	5.99	117.48	111.07
1	t	228	GLY	O-C-N	-5.99	115.54	122.91
1	u	299	MET	N-CA-CB	5.99	118.93	109.71
1	B	194	GLN	N-CA-CB	-5.99	101.35	110.33
1	D	206	HIS	ND1-CE1-NE2	5.99	114.39	108.40
1	M	373	ARG	N-CA-C	5.99	117.81	111.28
1	O	300	ASP	CA-CB-CG	5.99	118.59	112.60
1	O	498	TYR	N-CA-C	5.99	117.48	111.07
1	Q	528	GLN	CA-C-N	5.99	128.30	120.28
1	Q	528	GLN	C-N-CA	5.99	128.30	120.28
1	R	397	HIS	CA-CB-CG	5.99	119.79	113.80
1	U	266	CYS	CA-C-N	5.99	128.79	120.29
1	U	266	CYS	C-N-CA	5.99	128.79	120.29
1	V	551	SER	CA-C-O	5.99	126.90	120.55
1	3	316	TYR	CA-C-O	-5.99	114.08	119.59
1	3	648	ILE	O-C-N	-5.99	116.04	121.91
1	7	206	HIS	ND1-CE1-NE2	5.99	114.39	108.40
1	r	390	GLU	O-C-N	-5.99	115.22	122.22
1	t	101	ILE	CA-C-N	5.99	128.30	120.28
1	t	101	ILE	C-N-CA	5.99	128.30	120.28
1	5	301	ARG	NE-CZ-NH1	-5.99	115.52	121.50
1	6	421	PHE	CA-C-N	5.99	128.22	120.44
1	6	421	PHE	C-N-CA	5.99	128.22	120.44
1	i	108	ARG	N-CA-C	5.99	118.59	111.71
1	r	104	ILE	CA-C-N	5.99	128.58	120.44
1	r	104	ILE	C-N-CA	5.99	128.58	120.44
1	v	640	ARG	N-CA-C	5.99	117.47	111.07
1	z	655	ARG	NE-CZ-NH2	5.99	124.59	119.20
1	A	690	ARG	O-C-N	-5.99	114.45	122.23
1	O	165	GLU	CA-C-O	5.99	129.07	120.51
1	O	187	GLU	CA-C-N	5.99	128.22	120.44
1	O	187	GLU	C-N-CA	5.99	128.22	120.44
1	V	380	MET	N-CA-C	5.99	118.57	111.33
1	W	116	LEU	CA-C-O	-5.99	115.25	120.88
1	4	191	HIS	CE1-NE2-CD2	-5.98	103.02	109.00
1	6	640	ARG	NE-CZ-NH1	5.98	127.48	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	313	ASN	N-CA-C	5.98	120.31	112.89
1	g	578	VAL	CB-CA-C	5.98	118.33	110.91
1	s	167	TRP	CB-CG-CD1	-5.98	117.92	126.90
1	z	460	ASN	CA-CB-CG	-5.98	106.62	112.60
1	K	140	GLY	CA-C-O	5.98	125.65	119.01
1	K	269	ASP	CA-C-N	5.98	128.97	120.53
1	K	269	ASP	C-N-CA	5.98	128.97	120.53
1	R	157	LEU	CA-C-O	5.98	126.90	120.32
1	T	623	PHE	CA-CB-CG	5.98	119.78	113.80
1	a	452	ASN	CA-CB-CG	-5.98	106.62	112.60
1	e	430	ASN	N-CA-C	5.98	117.80	111.28
1	e	503	ILE	CA-C-N	5.98	128.66	120.46
1	e	503	ILE	C-N-CA	5.98	128.66	120.46
1	k	548	THR	CA-CB-OG1	5.98	118.57	109.60
1	l	295	LYS	N-CA-C	5.98	123.03	109.81
1	o	181	GLN	N-CA-CB	5.98	120.60	110.49
1	t	440	GLU	CA-C-N	5.98	129.78	120.75
1	t	440	GLU	C-N-CA	5.98	129.78	120.75
1	v	246	LYS	CA-C-N	5.98	128.78	120.29
1	v	246	LYS	C-N-CA	5.98	128.78	120.29
1	w	215	SER	N-CA-C	-5.98	102.75	108.07
1	w	301	ARG	N-CA-C	5.98	119.33	110.48
1	x	343	THR	CA-C-N	5.98	128.30	120.28
1	x	343	THR	C-N-CA	5.98	128.30	120.28
1	z	326	LYS	N-CA-CB	-5.98	101.18	109.97
1	A	444	ARG	NE-CZ-NH2	-5.98	113.82	119.20
1	D	598	ASN	OD1-CG-ND2	-5.98	116.62	122.60
1	J	381	HIS	N-CA-C	5.98	117.88	111.36
1	W	550	GLN	OE1-CD-NE2	5.98	128.58	122.60
1	2	151	THR	N-CA-C	5.98	118.93	109.96
1	e	704	HIS	ND1-CE1-NE2	5.98	114.38	108.40
1	f	644	GLN	N-CA-C	5.98	117.80	111.28
1	h	259	ILE	O-C-N	-5.98	115.66	122.72
1	k	518	SER	N-CA-C	5.98	117.80	111.28
1	q	280	HIS	O-C-N	-5.98	114.21	122.46
1	v	182	ASP	O-C-N	-5.98	115.62	121.18
1	I	371	ALA	CA-C-O	-5.98	113.09	119.97
1	O	145	ARG	NE-CZ-NH1	5.98	127.48	121.50
1	P	102	ASP	CA-C-N	5.98	128.57	120.44
1	P	102	ASP	C-N-CA	5.98	128.57	120.44
1	T	124	ILE	O-C-N	-5.98	116.72	123.18
1	U	667	GLN	O-C-N	-5.98	115.00	122.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	309	ASN	CA-CB-CG	5.98	118.58	112.60
1	Y	657	ASN	OD1-CG-ND2	-5.98	116.62	122.60
1	Z	586	SER	CA-C-N	5.98	128.10	120.56
1	Z	586	SER	C-N-CA	5.98	128.10	120.56
1	2	683	SER	N-CA-C	5.98	117.47	111.07
1	y	340	ALA	O-C-N	-5.98	115.91	122.07
1	B	538	HIS	CB-CG-CD2	-5.98	123.43	131.20
1	S	482	LYS	N-CA-CB	5.98	119.01	110.16
1	X	398	GLN	CA-CB-CG	5.98	126.06	114.10
1	Z	554	GLU	CA-C-N	5.98	129.10	120.79
1	Z	554	GLU	C-N-CA	5.98	129.10	120.79
1	2	328	ARG	N-CA-C	5.98	123.53	110.80
1	4	702	ALA	O-C-N	-5.98	115.91	122.07
1	6	175	ASN	CA-CB-CG	-5.98	106.62	112.60
1	d	590	LYS	CA-C-N	5.98	128.57	120.38
1	d	590	LYS	C-N-CA	5.98	128.57	120.38
1	p	505	VAL	CA-C-N	5.98	128.61	120.54
1	p	505	VAL	C-N-CA	5.98	128.61	120.54
1	r	174	ARG	CA-C-N	5.98	131.24	122.63
1	r	174	ARG	C-N-CA	5.98	131.24	122.63
1	r	559	LYS	N-CA-C	5.98	117.60	111.14
1	y	288	ARG	NE-CZ-NH2	-5.98	113.82	119.20
1	J	624	THR	CA-C-N	5.98	128.21	120.44
1	J	624	THR	C-N-CA	5.98	128.21	120.44
1	L	515	PRO	CA-C-O	-5.98	109.72	120.60
1	O	246	LYS	N-CA-CB	5.98	119.01	110.16
1	Y	249	ILE	N-CA-C	5.98	116.72	110.62
1	Y	352	THR	N-CA-CB	5.98	118.68	110.01
1	0	488	ARG	NE-CZ-NH2	-5.98	113.82	119.20
1	a	538	HIS	CE1-NE2-CD2	-5.98	103.02	109.00
1	r	647	PHE	CA-C-N	5.98	128.91	120.42
1	r	647	PHE	C-N-CA	5.98	128.91	120.42
1	t	523	ALA	CB-CA-C	5.98	120.16	110.96
1	C	548	THR	O-C-N	-5.98	115.64	122.09
1	Q	567	MET	CA-C-N	5.98	128.65	120.46
1	Q	567	MET	C-N-CA	5.98	128.65	120.46
1	T	280	HIS	CE1-NE2-CD2	-5.98	103.02	109.00
1	W	336	ARG	NE-CZ-NH1	5.98	127.48	121.50
1	1	477	HIS	CG-CD2-NE2	5.97	113.17	107.20
1	5	625	GLU	N-CA-C	5.97	117.87	111.36
1	6	394	ARG	NE-CZ-NH2	5.97	124.58	119.20
1	6	548	THR	CA-C-N	5.97	128.09	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	548	THR	C-N-CA	5.97	128.09	120.56
1	6	638	SER	N-CA-CB	5.97	119.02	110.06
1	b	546	ASN	O-C-N	-5.97	115.34	122.15
1	e	428	MET	CA-C-O	5.97	126.75	120.42
1	e	594	GLU	N-CA-C	5.97	117.79	111.28
1	h	102	ASP	CA-C-O	5.97	126.84	119.79
1	m	98	ARG	NH1-CZ-NH2	-5.97	111.53	119.30
1	z	374	LEU	N-CA-C	5.97	119.40	111.75
1	L	280	HIS	CA-CB-CG	5.97	119.78	113.80
1	U	335	ASN	OD1-CG-ND2	-5.97	116.62	122.60
1	X	285	GLU	CA-C-N	5.97	129.75	121.26
1	X	285	GLU	C-N-CA	5.97	129.75	121.26
1	6	556	ILE	N-CA-C	5.97	120.40	112.04
1	6	627	GLY	N-CA-C	5.97	119.87	112.64
1	c	579	PHE	N-CA-C	5.97	118.20	108.76
1	m	373	ARG	CA-C-N	5.97	128.21	120.44
1	m	373	ARG	C-N-CA	5.97	128.21	120.44
1	p	307	VAL	N-CA-C	5.97	116.71	110.62
1	v	249	ILE	CA-C-N	5.97	128.28	120.28
1	v	249	ILE	C-N-CA	5.97	128.28	120.28
1	v	339	LEU	CA-C-N	5.97	128.28	120.28
1	v	339	LEU	C-N-CA	5.97	128.28	120.28
1	x	358	VAL	N-CA-C	5.97	117.43	110.62
1	G	269	ASP	CA-CB-CG	5.97	118.57	112.60
1	L	627	GLY	CA-C-N	5.97	128.64	120.46
1	L	627	GLY	C-N-CA	5.97	128.64	120.46
1	M	566	ASN	O-C-N	-5.97	115.34	122.15
1	T	151	THR	N-CA-C	5.97	119.26	110.30
1	U	288	ARG	NE-CZ-NH2	5.97	124.58	119.20
1	X	357	ARG	N-CA-C	5.97	117.46	111.07
1	Z	338	SER	CA-C-N	5.97	128.28	120.28
1	Z	338	SER	C-N-CA	5.97	128.28	120.28
1	g	335	ASN	CA-CB-CG	-5.97	106.63	112.60
1	x	573	ARG	O-C-N	-5.97	115.34	122.15
1	E	249	ILE	CA-C-N	5.97	128.28	120.28
1	E	249	ILE	C-N-CA	5.97	128.28	120.28
1	F	490	LYS	N-CA-CB	5.97	118.67	110.01
1	I	376	THR	N-CA-C	5.97	117.87	111.36
1	J	98	ARG	N-CA-C	5.97	120.61	112.55
1	N	490	LYS	CA-C-N	5.97	132.45	121.70
1	N	490	LYS	C-N-CA	5.97	132.45	121.70
1	W	455	ARG	CA-C-N	5.97	128.56	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	455	ARG	C-N-CA	5.97	128.56	120.44
1	Z	394	ARG	NE-CZ-NH1	5.97	127.47	121.50
1	5	110	LEU	N-CA-C	-5.97	105.65	113.17
1	5	202	ARG	NE-CZ-NH2	-5.97	113.83	119.20
1	5	267	ASN	CA-CB-CG	5.97	118.57	112.60
1	9	430	ASN	OD1-CG-ND2	-5.97	116.63	122.60
1	9	589	LEU	CA-C-N	5.97	128.28	120.28
1	9	589	LEU	C-N-CA	5.97	128.28	120.28
1	a	557	LYS	N-CA-CB	5.97	118.84	109.94
1	i	270	ILE	CA-C-O	-5.97	114.52	120.85
1	k	415	GLU	O-C-N	-5.97	115.79	122.12
1	o	110	LEU	CA-C-O	-5.97	114.22	120.55
1	q	311	VAL	CA-C-O	-5.97	114.52	120.85
1	r	502	GLU	N-CA-C	5.97	117.79	111.28
1	s	379	ILE	CB-CG1-CD1	5.97	126.34	113.80
1	t	444	ARG	NH1-CZ-NH2	-5.97	111.54	119.30
1	A	273	THR	CA-CB-OG1	5.97	118.55	109.60
1	E	497	ASN	OD1-CG-ND2	-5.97	116.63	122.60
1	G	284	PRO	N-CA-CB	5.97	109.52	103.25
1	O	244	GLN	CA-C-N	5.97	128.08	120.56
1	O	244	GLN	C-N-CA	5.97	128.08	120.56
1	O	302	GLY	N-CA-C	5.97	119.89	112.73
1	Q	312	ARG	NE-CZ-NH2	-5.97	113.83	119.20
1	W	487	TYR	CA-C-O	-5.97	114.22	120.55
1	X	95	GLN	CA-CB-CG	5.97	126.04	114.10
1	X	280	HIS	CA-C-O	5.97	127.09	120.82
1	Y	689	ARG	N-CA-C	5.97	117.79	111.28
1	c	118	LEU	CA-C-N	5.97	127.30	119.84
1	c	118	LEU	C-N-CA	5.97	127.30	119.84
1	c	511	GLN	N-CA-CB	5.97	120.44	110.41
1	j	697	TYR	CA-C-N	5.97	128.60	120.54
1	j	697	TYR	C-N-CA	5.97	128.60	120.54
1	m	350	PHE	O-C-N	-5.97	115.92	122.07
1	y	313	ASN	CA-CB-CG	-5.97	106.63	112.60
1	F	476	ILE	CB-CA-C	5.97	119.78	110.95
1	R	466	ALA	CA-C-N	5.97	128.28	120.28
1	R	466	ALA	C-N-CA	5.97	128.28	120.28
1	a	344	LYS	CA-C-N	5.97	128.76	120.29
1	a	344	LYS	C-N-CA	5.97	128.76	120.29
1	c	233	ALA	N-CA-C	5.97	119.01	110.24
1	i	270	ILE	N-CA-C	5.97	116.75	110.72
1	k	151	THR	N-CA-C	5.97	119.47	110.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	p	376	THR	O-C-N	-5.97	115.92	122.07
1	x	538	HIS	N-CA-C	5.97	117.58	111.14
1	A	170	ARG	NE-CZ-NH2	-5.97	113.83	119.20
1	H	688	LYS	CA-C-O	5.97	126.88	120.55
1	J	559	LYS	N-CA-CB	-5.97	101.11	110.06
1	O	399	LYS	CA-C-N	5.97	128.20	120.44
1	O	399	LYS	C-N-CA	5.97	128.20	120.44
1	T	550	GLN	N-CA-C	5.97	117.78	111.28
1	Y	255	ARG	NE-CZ-NH2	-5.97	113.83	119.20
1	2	650	GLN	O-C-N	-5.96	115.24	122.22
1	8	496	VAL	N-CA-CB	5.96	117.64	110.31
1	a	243	LEU	CA-C-N	5.96	128.19	120.44
1	a	243	LEU	C-N-CA	5.96	128.19	120.44
1	d	164	CYS	N-CA-C	5.96	119.13	110.42
1	d	236	ASN	CB-CA-C	5.96	119.62	109.72
1	k	670	GLN	N-CA-C	5.96	117.78	111.28
1	q	415	GLU	N-CA-C	5.96	117.78	111.28
1	q	685	THR	CA-C-O	5.96	126.87	120.55
1	C	389	LEU	O-C-N	5.96	128.95	122.15
1	D	193	ALA	N-CA-C	5.96	117.45	111.07
1	L	349	PHE	O-C-N	-5.96	115.80	122.12
1	N	688	LYS	N-CA-C	5.96	118.74	111.82
1	S	657	ASN	OD1-CG-ND2	-5.96	116.64	122.60
1	V	99	PRO	N-CD-CG	5.96	112.15	103.20
1	W	237	GLN	N-CA-C	5.96	118.13	109.84
1	Z	204	ILE	O-C-N	-5.96	117.06	123.14
1	6	225	ASP	CA-C-O	5.96	127.42	120.98
1	e	302	GLY	CA-C-N	5.96	128.59	120.54
1	e	302	GLY	C-N-CA	5.96	128.59	120.54
1	m	542	PHE	CA-C-O	5.96	127.28	120.84
1	r	698	ARG	NE-CZ-NH1	5.96	127.46	121.50
1	t	182	ASP	CA-CB-CG	5.96	118.56	112.60
1	T	102	ASP	CA-CB-CG	-5.96	106.64	112.60
1	Z	593	ARG	N-CA-C	5.96	117.78	111.28
1	2	356	PHE	N-CA-C	5.96	117.58	111.14
1	7	271	ALA	N-CA-C	5.96	117.78	111.28
1	g	482	LYS	CA-C-O	5.96	126.87	120.55
1	g	489	GLY	O-C-N	5.96	127.90	122.18
1	j	422	LEU	O-C-N	-5.96	115.35	122.15
1	j	644	GLN	N-CA-C	5.96	117.47	110.97
1	l	374	LEU	CA-C-N	5.96	128.27	120.28
1	l	374	LEU	C-N-CA	5.96	128.27	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	m	264	VAL	O-C-N	-5.96	114.30	121.10
1	p	122	ALA	CA-C-N	5.96	129.89	121.66
1	p	122	ALA	C-N-CA	5.96	129.89	121.66
1	p	662	GLN	CA-C-N	5.96	128.19	120.44
1	p	662	GLN	C-N-CA	5.96	128.19	120.44
1	y	465	LEU	N-CA-C	5.96	118.26	111.11
1	z	623	PHE	CB-CG-CD1	5.96	130.84	120.70
1	A	484	GLU	CA-C-O	5.96	126.87	120.55
1	B	228	GLY	CA-C-O	-5.96	116.16	121.41
1	H	256	GLN	CA-C-O	5.96	127.07	120.63
1	M	310	VAL	CA-C-N	5.96	128.88	120.42
1	M	310	VAL	C-N-CA	5.96	128.88	120.42
1	Q	478	GLU	O-C-N	-5.96	115.89	122.09
1	R	510	GLN	N-CA-C	5.96	118.56	111.71
1	R	699	LEU	O-C-N	5.96	128.44	122.12
1	T	189	GLU	N-CA-C	5.96	117.45	111.07
1	T	437	VAL	N-CA-C	5.96	116.14	110.42
1	Z	454	ILE	CA-C-O	5.96	127.49	121.17
1	5	268	VAL	CA-C-N	5.96	129.17	120.71
1	5	268	VAL	C-N-CA	5.96	129.17	120.71
1	k	288	ARG	NH1-CZ-NH2	-5.96	111.55	119.30
1	m	386	LEU	N-CA-C	5.96	121.64	113.77
1	n	652	PHE	N-CA-CB	5.96	119.43	110.19
1	n	691	ILE	N-CA-C	5.96	116.62	110.36
1	q	239	ARG	O-C-N	-5.96	115.70	122.97
1	A	114	GLN	N-CA-C	5.96	118.87	110.23
1	D	688	LYS	CA-C-N	5.96	128.27	120.28
1	D	688	LYS	C-N-CA	5.96	128.27	120.28
1	H	486	GLN	O-C-N	-5.96	114.37	122.36
1	K	273	THR	O-C-N	-5.96	115.48	122.81
1	T	409	ALA	CA-C-N	5.96	132.43	121.70
1	T	409	ALA	C-N-CA	5.96	132.43	121.70
1	7	551	SER	CA-C-N	5.96	128.75	120.29
1	7	551	SER	C-N-CA	5.96	128.75	120.29
1	8	465	LEU	CA-C-O	5.96	126.87	120.55
1	b	277	SER	N-CA-C	5.96	117.45	111.07
1	b	491	GLU	O-C-N	-5.96	116.26	123.29
1	c	280	HIS	CG-CD2-NE2	5.96	113.16	107.20
1	c	569	GLN	N-CA-C	5.96	117.78	111.28
1	r	276	LEU	O-C-N	-5.96	115.89	122.09
1	t	596	ILE	CA-C-N	5.96	128.54	120.44
1	t	596	ILE	C-N-CA	5.96	128.54	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	x	190	ILE	CA-C-O	5.96	127.17	120.85
1	z	389	LEU	N-CA-CB	5.96	118.65	110.01
1	A	533	ASN	OD1-CG-ND2	-5.96	116.64	122.60
1	E	218	VAL	N-CA-CB	5.96	119.55	111.21
1	G	564	ALA	N-CA-CB	-5.96	101.34	110.16
1	H	109	ALA	N-CA-C	5.96	117.47	110.97
1	H	482	LYS	CA-C-O	-5.96	114.56	120.82
1	H	698	ARG	N-CA-C	5.96	117.77	111.28
1	M	520	LEU	N-CA-C	5.96	117.78	111.28
1	T	373	ARG	CA-C-N	5.96	128.26	120.28
1	T	373	ARG	C-N-CA	5.96	128.26	120.28
1	X	127	GLN	OE1-CD-NE2	5.96	128.56	122.60
1	Z	108	ARG	O-C-N	-5.96	115.36	122.15
1	0	346	GLU	CA-C-N	5.96	128.62	120.46
1	0	346	GLU	C-N-CA	5.96	128.62	120.46
1	0	373	ARG	NE-CZ-NH1	5.96	127.46	121.50
1	f	191	HIS	ND1-CE1-NE2	5.96	114.36	108.40
1	f	391	GLY	N-CA-C	5.96	119.70	112.49
1	f	475	ILE	O-C-N	-5.96	115.69	121.83
1	g	547	GLN	N-CA-C	5.96	117.44	111.07
1	m	508	TYR	N-CA-C	5.96	117.77	111.28
1	m	514	GLU	O-C-N	-5.96	115.11	120.71
1	o	704	HIS	CA-C-N	5.96	128.26	120.28
1	o	704	HIS	C-N-CA	5.96	128.26	120.28
1	s	359	LEU	N-CA-C	5.96	117.44	111.07
1	D	550	GLN	CA-C-N	5.96	128.75	120.29
1	D	550	GLN	C-N-CA	5.96	128.75	120.29
1	G	694	GLU	N-CA-C	5.96	117.44	111.07
1	J	342	ALA	N-CA-C	5.96	117.44	111.07
1	N	236	ASN	N-CA-C	5.96	118.35	109.59
1	N	702	ALA	CA-C-O	-5.96	114.75	121.00
1	O	571	GLN	N-CA-C	5.96	117.77	111.28
1	R	548	THR	N-CA-C	5.96	118.26	111.11
1	T	510	GLN	OE1-CD-NE2	5.96	128.56	122.60
1	U	382	ILE	N-CA-C	5.96	118.50	111.05
1	W	171	ILE	CA-C-O	5.96	126.90	120.53
1	i	165	GLU	N-CA-C	5.96	118.86	110.23
1	Z	480	VAL	N-CA-C	5.96	116.69	110.62
1	0	258	THR	CA-CB-OG1	5.95	118.53	109.60
1	0	484	GLU	CA-CB-CG	5.95	126.01	114.10
1	2	97	VAL	CA-C-O	5.95	126.68	120.25
1	9	532	ILE	CA-C-N	5.95	128.75	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	9	532	ILE	C-N-CA	5.95	128.75	120.29
1	b	373	ARG	O-C-N	-5.95	115.90	122.09
1	d	273	THR	CA-C-N	5.95	128.74	120.29
1	d	273	THR	C-N-CA	5.95	128.74	120.29
1	f	222	THR	N-CA-CB	5.95	120.59	110.71
1	f	225	ASP	CA-CB-CG	-5.95	106.65	112.60
1	z	360	LEU	CA-C-O	-5.95	112.51	119.24
1	A	522	LYS	CA-C-O	5.95	126.73	120.42
1	C	348	THR	N-CA-C	5.95	117.77	111.28
1	E	700	THR	N-CA-CB	5.95	118.87	110.12
1	K	688	LYS	N-CA-CB	-5.95	101.05	110.28
1	L	307	VAL	O-C-N	-5.95	116.08	121.91
1	M	103	LEU	CA-C-O	-5.95	114.57	120.82
1	T	586	SER	CA-C-N	5.95	128.87	120.42
1	T	586	SER	C-N-CA	5.95	128.87	120.42
1	U	417	ASP	CA-C-N	5.95	128.18	120.44
1	U	417	ASP	C-N-CA	5.95	128.18	120.44
1	b	316	TYR	CA-C-N	5.95	125.89	119.76
1	b	316	TYR	C-N-CA	5.95	125.89	119.76
1	c	110	LEU	CA-C-N	5.95	128.85	121.83
1	c	110	LEU	C-N-CA	5.95	128.85	121.83
1	c	472	VAL	CA-C-O	5.95	127.23	119.85
1	d	695	ARG	N-CA-C	5.95	117.85	111.36
1	l	432	ASP	CA-CB-CG	5.95	118.55	112.60
1	w	672	LYS	N-CA-C	5.95	117.44	111.07
1	I	97	VAL	O-C-N	-5.95	115.67	122.04
1	R	551	SER	CA-C-N	5.95	128.57	120.54
1	R	551	SER	C-N-CA	5.95	128.57	120.54
1	V	675	TYR	N-CA-C	5.95	117.77	111.28
1	1	95	GLN	N-CA-C	5.95	117.77	111.28
1	2	688	LYS	CA-C-N	5.95	128.57	120.54
1	2	688	LYS	C-N-CA	5.95	128.57	120.54
1	f	194	GLN	OE1-CD-NE2	-5.95	116.65	122.60
1	f	266	CYS	N-CA-C	5.95	117.77	111.28
1	l	323	MET	CG-SD-CE	-5.95	87.81	100.90
1	n	97	VAL	N-CA-C	5.95	116.12	110.53
1	q	352	THR	N-CA-C	5.95	117.84	111.36
1	r	163	PRO	CA-C-O	-5.95	116.91	121.31
1	t	654	LEU	CA-C-N	5.95	128.57	120.54
1	t	654	LEU	C-N-CA	5.95	128.57	120.54
1	v	487	TYR	O-C-N	-5.95	115.20	122.34
1	B	508	TYR	N-CA-C	5.95	117.77	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	630	LEU	N-CA-C	5.95	117.84	111.36
1	L	560	HIS	CA-CB-CG	-5.95	107.85	113.80
1	N	206	HIS	N-CA-C	-5.95	106.02	113.28
1	R	591	LYS	CA-C-O	5.95	127.27	120.90
1	R	596	ILE	CA-C-O	-5.95	115.64	120.70
1	S	406	ARG	N-CA-C	5.95	117.77	111.28
1	W	386	LEU	CA-C-N	5.95	126.11	119.32
1	W	386	LEU	C-N-CA	5.95	126.11	119.32
1	1	286	GLY	CA-C-N	5.95	129.35	120.31
1	1	286	GLY	C-N-CA	5.95	129.35	120.31
1	1	357	ARG	CB-CA-C	-5.95	100.57	110.68
1	4	491	GLU	CA-C-N	5.95	131.03	122.35
1	4	491	GLU	C-N-CA	5.95	131.03	122.35
1	6	393	ILE	N-CA-C	5.95	116.13	110.42
1	7	336	ARG	CA-C-N	5.95	131.39	123.00
1	7	336	ARG	C-N-CA	5.95	131.39	123.00
1	b	593	ARG	NE-CZ-NH1	5.95	127.45	121.50
1	i	351	GLN	N-CA-C	5.95	117.76	111.28
1	m	547	GLN	OE1-CD-NE2	-5.95	116.65	122.60
1	m	660	SER	CA-C-N	5.95	128.17	120.44
1	m	660	SER	C-N-CA	5.95	128.17	120.44
1	p	134	VAL	N-CA-C	5.95	116.42	110.23
1	p	158	LYS	O-C-N	-5.95	116.27	123.29
1	q	397	HIS	ND1-CE1-NE2	5.95	114.35	108.40
1	t	174	ARG	NE-CZ-NH1	5.95	127.45	121.50
1	u	640	ARG	NE-CZ-NH2	-5.95	113.85	119.20
1	D	593	ARG	NE-CZ-NH2	5.95	124.55	119.20
1	J	415	GLU	O-C-N	-5.95	115.37	122.15
1	Q	301	ARG	N-CA-CB	5.95	118.86	110.36
1	V	380	MET	CG-SD-CE	-5.95	87.81	100.90
1	4	313	ASN	OD1-CG-ND2	-5.95	116.65	122.60
1	7	528	GLN	CA-C-O	-5.95	114.58	120.82
1	c	164	CYS	N-CA-C	5.95	118.85	110.23
1	h	170	ARG	NE-CZ-NH1	5.95	127.45	121.50
1	i	183	PRO	N-CA-C	5.95	124.72	112.47
1	j	505	VAL	N-CA-CB	5.95	118.63	110.54
1	k	684	GLU	CA-C-N	5.95	128.17	120.44
1	k	684	GLU	C-N-CA	5.95	128.17	120.44
1	l	309	ASN	O-C-N	-5.95	115.82	122.12
1	C	126	ASP	CA-C-N	5.95	130.21	120.63
1	C	126	ASP	C-N-CA	5.95	130.21	120.63
1	K	573	ARG	NE-CZ-NH1	5.95	127.45	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	260	ASN	O-C-N	-5.95	115.09	122.82
1	T	176	THR	CA-C-N	5.95	130.68	122.77
1	T	176	THR	C-N-CA	5.95	130.68	122.77
1	X	501	PHE	CA-CB-CG	5.95	119.75	113.80
1	1	493	LEU	O-C-N	-5.95	115.95	122.67
1	4	125	GLY	CA-C-O	-5.95	115.14	121.38
1	4	272	THR	N-CA-CB	5.95	119.59	110.61
1	9	624	THR	O-C-N	-5.95	115.94	122.07
1	h	705	ALA	O-C-N	-5.95	115.82	122.12
1	j	206	HIS	CE1-NE2-CD2	-5.95	103.06	109.00
1	j	548	THR	N-CA-CB	5.95	118.63	110.01
1	r	285	GLU	N-CA-C	5.95	121.27	113.30
1	u	567	MET	CG-SD-CE	-5.95	87.82	100.90
1	v	572	PHE	N-CA-C	5.95	118.72	111.82
1	A	626	ILE	CA-C-N	5.95	126.58	119.98
1	A	626	ILE	C-N-CA	5.95	126.58	119.98
1	H	252	TYR	O-C-N	-5.95	114.50	122.23
1	H	408	GLY	CA-C-N	5.95	129.28	120.90
1	H	408	GLY	C-N-CA	5.95	129.28	120.90
1	I	458	PHE	CA-C-N	5.95	128.25	120.28
1	I	458	PHE	C-N-CA	5.95	128.25	120.28
1	J	518	SER	O-C-N	-5.95	115.82	122.12
1	M	94	GLU	N-CA-C	5.95	117.76	111.28
1	P	141	VAL	N-CA-C	5.95	117.25	108.45
1	P	482	LYS	CA-C-N	5.95	128.25	120.28
1	P	482	LYS	C-N-CA	5.95	128.25	120.28
1	Q	139	SER	CA-C-N	5.95	131.54	122.86
1	Q	139	SER	C-N-CA	5.95	131.54	122.86
1	R	409	ALA	CA-C-N	5.95	132.40	121.70
1	R	409	ALA	C-N-CA	5.95	132.40	121.70
1	U	449	ARG	NH1-CZ-NH2	-5.95	111.57	119.30
1	V	677	TRP	CA-C-N	5.95	128.57	120.54
1	V	677	TRP	C-N-CA	5.95	128.57	120.54
1	3	292	ILE	N-CA-CB	5.94	120.20	111.52
1	a	509	ILE	N-CA-C	5.94	116.68	110.62
1	A	240	ASP	CA-CB-CG	5.94	118.54	112.60
1	X	287	ASP	N-CA-C	5.94	117.84	111.36
1	Y	658	GLY	CA-C-N	5.94	128.17	120.44
1	Y	658	GLY	C-N-CA	5.94	128.17	120.44
1	Z	135	LEU	CA-C-N	5.94	128.84	120.28
1	Z	135	LEU	C-N-CA	5.94	128.84	120.28
1	4	310	VAL	CA-CB-CG2	-5.94	100.30	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	98	ARG	NH1-CZ-NH2	-5.94	111.58	119.30
1	b	663	LYS	N-CA-C	5.94	117.76	111.28
1	c	667	GLN	O-C-N	-5.94	114.67	122.39
1	j	497	ASN	OD1-CG-ND2	-5.94	116.66	122.60
1	m	372	GLU	CA-C-N	5.94	128.24	120.28
1	m	372	GLU	C-N-CA	5.94	128.24	120.28
1	o	549	VAL	N-CA-C	5.94	116.12	110.42
1	r	301	ARG	NE-CZ-NH2	-5.94	113.85	119.20
1	w	139	SER	CA-C-O	5.94	125.33	118.97
1	z	336	ARG	NE-CZ-NH1	5.94	127.44	121.50
1	B	101	ILE	CA-C-N	5.94	129.34	120.31
1	B	101	ILE	C-N-CA	5.94	129.34	120.31
1	B	455	ARG	N-CA-C	5.94	118.52	111.33
1	R	452	ASN	OD1-CG-ND2	-5.94	116.66	122.60
1	S	220	ASP	CA-CB-CG	5.94	118.54	112.60
1	U	196	VAL	N-CA-C	5.94	116.68	110.62
1	Y	378	LEU	N-CA-CB	5.94	118.79	109.94
1	l	701	GLN	N-CA-C	5.94	118.24	111.11
1	a	508	TYR	N-CA-C	5.94	117.42	111.07
1	k	383	GLN	N-CA-C	5.94	117.43	111.07
1	n	311	VAL	N-CA-C	5.94	116.12	110.42
1	n	391	GLY	CA-C-N	5.94	128.52	120.38
1	n	391	GLY	C-N-CA	5.94	128.52	120.38
1	o	497	ASN	CA-C-O	5.94	127.47	120.58
1	q	171	ILE	CA-CB-CG2	-5.94	100.40	110.50
1	q	511	GLN	CB-CG-CD	5.94	122.70	112.60
1	t	531	PHE	CA-CB-CG	5.94	119.74	113.80
1	v	490	LYS	N-CA-C	5.94	117.83	111.36
1	x	483	TYR	CA-C-O	-5.94	114.58	120.70
1	y	678	LEU	CA-C-O	5.94	126.85	120.55
1	D	421	PHE	CA-C-O	-5.94	114.58	120.70
1	G	546	ASN	N-CA-CB	5.94	118.62	110.01
1	N	486	GLN	CB-CA-C	-5.94	100.75	110.85
1	O	640	ARG	CA-C-N	5.94	128.16	120.44
1	O	640	ARG	C-N-CA	5.94	128.16	120.44
1	U	195	ASN	N-CA-C	5.94	117.75	111.28
1	V	573	ARG	NH1-CZ-NH2	-5.94	111.58	119.30
1	W	674	ARG	CA-C-N	5.94	128.24	120.28
1	W	674	ARG	C-N-CA	5.94	128.24	120.28
1	p	378	LEU	CB-CA-C	-5.94	101.52	110.90
1	r	385	SER	CB-CA-C	-5.94	100.13	110.17
1	L	295	LYS	O-C-N	-5.94	114.49	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	148	GLY	CA-C-N	5.94	128.53	120.63
1	O	148	GLY	C-N-CA	5.94	128.53	120.63
1	R	702	ALA	CA-C-N	5.94	128.72	120.29
1	R	702	ALA	C-N-CA	5.94	128.72	120.29
1	1	279	ALA	O-C-N	-5.94	115.83	122.12
1	2	199	GLY	CA-C-N	5.94	130.81	122.08
1	2	199	GLY	C-N-CA	5.94	130.81	122.08
1	7	381	HIS	CG-CD2-NE2	5.94	113.14	107.20
1	b	171	ILE	CA-C-O	5.94	126.65	120.36
1	h	506	HIS	CE1-NE2-CD2	-5.94	103.06	109.00
1	k	660	SER	CA-C-O	-5.94	114.58	120.82
1	A	670	GLN	OE1-CD-NE2	-5.94	116.66	122.60
1	D	444	ARG	NE-CZ-NH1	5.94	127.44	121.50
1	D	629	HIS	CA-CB-CG	-5.94	107.86	113.80
1	F	224	ILE	O-C-N	-5.94	115.13	122.97
1	L	218	VAL	CA-C-N	5.94	125.91	120.03
1	L	218	VAL	C-N-CA	5.94	125.91	120.03
1	P	511	GLN	OE1-CD-NE2	-5.94	116.66	122.60
1	Q	528	GLN	OE1-CD-NE2	5.94	128.54	122.60
1	S	649	ILE	O-C-N	-5.94	115.71	121.83
1	i	454	ILE	N-CA-C	5.94	118.47	111.05
1	j	223	ILE	O-C-N	-5.94	116.66	123.07
1	k	351	GLN	CG-CD-NE2	5.94	125.31	116.40
1	l	678	LEU	N-CA-C	5.94	117.75	111.28
1	w	271	ALA	N-CA-C	5.94	120.25	113.19
1	E	542	PHE	CB-CA-C	-5.94	101.02	111.05
1	W	162	GLN	O-C-N	-5.94	117.32	121.65
1	0	375	THR	CA-C-O	5.93	126.71	120.42
1	g	225	ASP	CA-CB-CG	5.93	118.53	112.60
1	s	508	TYR	N-CA-CB	-5.93	101.41	110.01
1	A	472	VAL	CA-C-O	5.93	126.93	119.39
1	C	662	GLN	OE1-CD-NE2	-5.93	116.67	122.60
1	C	682	GLN	O-C-N	-5.93	115.86	122.86
1	J	675	TYR	O-C-N	-5.93	115.92	122.09
1	K	382	ILE	N-CA-C	5.93	116.67	110.62
1	L	221	LEU	O-C-N	-5.93	117.36	123.29
1	S	455	ARG	CA-C-N	5.93	128.55	120.54
1	S	455	ARG	C-N-CA	5.93	128.55	120.54
1	1	510	GLN	CA-C-N	5.93	129.33	120.31
1	1	510	GLN	C-N-CA	5.93	129.33	120.31
1	4	166	ALA	N-CA-CB	-5.93	101.88	110.36
1	a	461	TRP	N-CA-C	5.93	117.75	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	391	GLY	O-C-N	-5.93	116.44	122.19
1	h	697	TYR	CA-C-N	5.93	128.23	120.28
1	h	697	TYR	C-N-CA	5.93	128.23	120.28
1	k	398	GLN	CA-C-N	5.93	128.55	120.54
1	k	398	GLN	C-N-CA	5.93	128.55	120.54
1	s	550	GLN	N-CA-CB	-5.93	101.08	110.22
1	s	597	PHE	N-CA-C	5.93	117.75	111.28
1	y	422	LEU	N-CA-C	5.93	118.53	111.71
1	A	680	GLN	N-CA-C	5.93	118.42	110.35
1	D	378	LEU	N-CA-C	5.93	117.42	111.07
1	E	383	GLN	CA-C-O	5.93	126.84	120.55
1	H	357	ARG	NE-CZ-NH1	5.93	127.43	121.50
1	K	232	VAL	CA-C-N	5.93	129.25	120.95
1	K	232	VAL	C-N-CA	5.93	129.25	120.95
1	L	536	LYS	N-CA-C	5.93	118.51	111.33
1	N	515	PRO	N-CA-C	5.93	121.55	113.84
1	Q	560	HIS	CE1-NE2-CD2	-5.93	103.07	109.00
1	R	552	THR	N-CA-CB	5.93	118.78	109.94
1	S	151	THR	N-CA-C	5.93	117.95	110.24
1	1	487	TYR	N-CA-C	5.93	118.51	111.33
1	1	506	HIS	CE1-NE2-CD2	-5.93	103.07	109.00
1	2	668	ILE	O-C-N	-5.93	115.30	122.06
1	b	330	GLN	CG-CD-NE2	5.93	125.30	116.40
1	m	575	GLU	O-C-N	-5.93	114.74	122.39
1	o	299	MET	N-CA-C	5.93	118.83	110.23
1	A	420	PHE	N-CA-C	5.93	117.55	111.14
1	C	381	HIS	CE1-NE2-CD2	-5.93	103.07	109.00
1	E	237	GLN	N-CA-C	5.93	117.17	109.64
1	N	664	ALA	N-CA-C	5.93	118.51	111.33
1	S	550	GLN	CA-C-N	5.93	128.50	120.38
1	S	550	GLN	C-N-CA	5.93	128.50	120.38
1	U	448	THR	N-CA-CB	5.93	119.88	110.57
1	2	221	LEU	O-C-N	-5.93	117.28	123.56
1	6	462	VAL	CB-CA-C	5.93	119.47	111.88
1	7	477	HIS	N-CA-C	5.93	117.74	111.28
1	8	472	VAL	CA-C-N	5.93	128.82	120.28
1	8	472	VAL	C-N-CA	5.93	128.82	120.28
1	b	497	ASN	CA-CB-CG	-5.93	106.67	112.60
1	g	480	VAL	CB-CA-C	5.93	120.14	112.14
1	h	356	PHE	CA-CB-CG	-5.93	107.87	113.80
1	h	507	GLN	CB-CG-CD	5.93	122.68	112.60
1	h	699	LEU	CA-C-N	5.93	128.23	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	699	LEU	C-N-CA	5.93	128.23	120.28
1	n	281	GLU	N-CA-CB	5.93	118.84	110.12
1	q	183	PRO	CA-C-N	5.93	127.81	120.34
1	q	183	PRO	C-N-CA	5.93	127.81	120.34
1	t	421	PHE	N-CA-CB	-5.93	101.38	110.16
1	y	500	THR	N-CA-CB	5.93	118.84	110.12
1	A	209	ILE	CA-C-N	5.93	131.36	123.00
1	A	209	ILE	C-N-CA	5.93	131.36	123.00
1	E	152	ARG	CA-C-O	5.93	126.29	119.35
1	G	304	GLU	O-C-N	-5.93	114.98	122.27
1	W	248	LEU	N-CA-C	5.93	117.74	111.28
1	5	438	GLU	N-CA-C	5.93	118.53	111.71
1	8	397	HIS	CA-CB-CG	-5.93	107.87	113.80
1	h	231	ARG	NE-CZ-NH2	5.93	124.53	119.20
1	l	349	PHE	CA-C-O	5.93	127.05	120.82
1	n	138	LEU	N-CA-C	5.93	117.43	110.97
1	B	290	ILE	O-C-N	5.93	129.33	122.99
1	D	549	VAL	N-CA-C	5.93	116.71	110.72
1	4	305	LYS	CA-C-O	5.93	126.83	120.55
1	4	689	ARG	NE-CZ-NH1	5.93	127.43	121.50
1	5	673	ASN	CA-C-O	5.93	125.91	119.15
1	6	678	LEU	N-CA-C	-5.93	106.01	113.18
1	d	313	ASN	CA-C-N	5.93	131.07	122.36
1	d	313	ASN	C-N-CA	5.93	131.07	122.36
1	m	639	LYS	CA-C-O	5.93	126.83	120.55
1	p	299	MET	CG-SD-CE	-5.93	87.86	100.90
1	q	634	PHE	CA-CB-CG	5.93	119.73	113.80
1	s	113	GLU	N-CA-C	-5.93	105.88	113.23
1	u	156	VAL	CA-CB-CG2	-5.93	100.33	110.40
1	A	239	ARG	O-C-N	-5.93	114.71	122.59
1	F	271	ALA	N-CA-C	5.93	117.82	111.36
1	G	195	ASN	N-CA-C	5.93	117.41	111.07
1	I	424	GLU	CB-CG-CD	5.93	122.68	112.60
1	L	98	ARG	CG-CD-NE	-5.93	98.96	112.00
1	U	665	MET	CA-C-O	5.93	126.67	119.38
1	2	341	GLU	CA-C-O	5.92	126.83	120.55
1	3	227	PRO	N-CA-C	5.92	120.38	111.14
1	5	495	PHE	N-CA-CB	5.92	120.57	110.50
1	7	120	ALA	CA-C-N	5.92	130.48	122.90
1	7	120	ALA	C-N-CA	5.92	130.48	122.90
1	b	236	ASN	CA-CB-CG	5.92	118.52	112.60
1	d	286	GLY	CA-C-N	5.92	130.71	120.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	d	286	GLY	C-N-CA	5.92	130.71	120.58
1	d	460	ASN	N-CA-C	-5.92	104.90	111.36
1	e	645	ILE	CA-C-N	5.92	125.13	118.97
1	e	645	ILE	C-N-CA	5.92	125.13	118.97
1	h	350	PHE	N-CA-CB	5.92	119.34	110.22
1	k	637	THR	CA-C-N	5.92	128.81	120.28
1	k	637	THR	C-N-CA	5.92	128.81	120.28
1	l	191	HIS	CE1-NE2-CD2	-5.92	103.08	109.00
1	u	349	PHE	CA-C-O	5.92	126.83	120.55
1	u	436	LEU	N-CA-C	5.92	117.82	111.36
1	x	508	TYR	CA-C-N	5.92	128.58	120.46
1	x	508	TYR	C-N-CA	5.92	128.58	120.46
1	z	204	ILE	O-C-N	-5.92	116.93	123.03
1	z	647	PHE	N-CA-CB	5.92	118.60	110.01
1	A	538	HIS	ND1-CE1-NE2	5.92	114.32	108.40
1	C	287	ASP	CA-CB-CG	5.92	118.52	112.60
1	H	642	ALA	CA-C-O	5.92	126.67	119.38
1	J	232	VAL	N-CA-C	5.92	119.14	109.78
1	N	464	ILE	CA-C-O	-5.92	114.89	121.17
1	O	382	ILE	N-CA-CB	5.92	117.48	110.55
1	O	673	ASN	N-CA-C	5.92	118.50	111.33
1	T	391	GLY	O-C-N	-5.92	116.50	122.19
1	q	667	GLN	CA-C-N	5.92	128.57	120.46
1	q	667	GLN	C-N-CA	5.92	128.57	120.46
1	v	397	HIS	CB-CG-CD2	-5.92	123.50	131.20
1	I	425	LYS	O-C-N	-5.92	115.40	122.15
1	J	471	LYS	O-C-N	-5.92	115.40	122.15
1	O	531	PHE	CA-CB-CG	-5.92	107.88	113.80
1	Q	419	MET	N-CA-C	5.92	118.25	111.02
1	R	452	ASN	CA-C-O	5.92	127.04	120.82
1	S	362	GLU	N-CA-CB	-5.92	101.38	110.44
1	4	346	GLU	O-C-N	-5.92	115.97	122.07
1	6	204	ILE	CA-C-N	5.92	131.99	121.75
1	6	204	ILE	C-N-CA	5.92	131.99	121.75
1	8	501	PHE	CA-C-N	5.92	128.22	120.28
1	8	501	PHE	C-N-CA	5.92	128.22	120.28
1	s	654	LEU	O-C-N	-5.92	114.71	122.59
1	x	202	ARG	CA-C-O	-5.92	113.16	119.97
1	N	301	ARG	NE-CZ-NH1	5.92	127.42	121.50
1	N	637	THR	N-CA-C	5.92	117.73	111.28
1	O	313	ASN	OD1-CG-ND2	-5.92	116.68	122.60
1	O	373	ARG	NE-CZ-NH1	5.92	127.42	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	482	LYS	CA-C-O	-5.92	114.60	120.70
1	V	695	ARG	NE-CZ-NH2	-5.92	113.87	119.20
1	4	439	GLY	N-CA-C	5.92	122.12	113.48
1	w	408	GLY	CA-C-N	5.92	129.69	120.75
1	w	408	GLY	C-N-CA	5.92	129.69	120.75
1	y	232	VAL	CA-CB-CG1	5.92	120.46	110.40
1	H	252	TYR	CA-C-O	5.92	126.81	120.24
1	3	474	ASN	CB-CG-OD1	5.92	132.64	120.80
1	f	381	HIS	N-CA-C	5.92	117.40	111.07
1	f	529	GLN	CA-C-N	5.92	128.69	120.29
1	f	529	GLN	C-N-CA	5.92	128.69	120.29
1	g	407	CYS	N-CA-C	5.92	120.63	113.17
1	i	210	SER	N-CA-C	5.92	118.38	108.02
1	m	196	VAL	O-C-N	5.92	127.61	121.87
1	m	534	VAL	O-C-N	-5.92	116.13	121.87
1	p	192	LYS	CA-C-O	5.92	126.80	120.70
1	q	663	LYS	O-C-N	-5.92	114.99	122.27
1	x	246	LYS	N-CA-CB	5.92	118.82	110.12
1	y	306	SER	O-C-N	-5.92	115.97	122.07
1	D	538	HIS	ND1-CE1-NE2	5.92	114.32	108.40
1	I	158	LYS	CA-C-N	5.92	131.17	123.00
1	I	158	LYS	C-N-CA	5.92	131.17	123.00
1	K	328	ARG	N-CA-C	5.92	123.41	110.80
1	L	260	ASN	CA-CB-CG	-5.92	106.68	112.60
1	M	513	VAL	CA-C-O	5.92	127.04	120.71
1	O	633	TYR	O-C-N	-5.92	115.85	122.12
1	6	462	VAL	O-C-N	-5.92	116.02	121.94
1	k	589	LEU	CA-C-N	5.92	128.53	120.54
1	k	589	LEU	C-N-CA	5.92	128.53	120.54
1	k	597	PHE	N-CA-C	5.92	117.40	111.07
1	l	241	ILE	N-CA-CB	-5.92	103.63	110.55
1	l	429	PHE	N-CA-C	5.92	117.40	111.07
1	r	640	ARG	N-CA-CB	5.92	119.41	110.30
1	u	250	LYS	CG-CD-CE	5.92	124.91	111.30
1	x	639	LYS	CB-CA-C	5.92	120.17	110.88
1	B	403	GLU	CA-C-N	5.92	128.13	120.44
1	B	403	GLU	C-N-CA	5.92	128.13	120.44
1	F	190	ILE	CA-C-N	5.92	128.13	120.44
1	F	190	ILE	C-N-CA	5.92	128.13	120.44
1	F	361	GLU	N-CA-CB	5.92	118.55	109.91
1	Y	301	ARG	NE-CZ-NH2	5.92	124.53	119.20
1	I	301	ARG	N-CA-C	5.92	118.16	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	585	TYR	CA-C-N	5.92	128.21	120.28
1	K	585	TYR	C-N-CA	5.92	128.21	120.28
1	N	500	THR	CA-C-N	5.92	128.46	120.65
1	N	500	THR	C-N-CA	5.92	128.46	120.65
1	4	534	VAL	CA-C-O	-5.91	114.90	121.17
1	a	381	HIS	CE1-NE2-CD2	-5.91	103.09	109.00
1	f	242	GLY	O-C-N	5.91	127.91	122.17
1	g	473	LYS	O-C-N	-5.91	115.85	122.12
1	j	252	TYR	CA-C-O	-5.91	114.15	120.42
1	l	266	CYS	N-CA-C	5.91	118.48	111.33
1	l	472	VAL	O-C-N	-5.91	116.11	121.91
1	n	328	ARG	CA-C-O	5.91	126.64	119.49
1	n	372	GLU	CA-C-N	5.91	128.20	120.28
1	n	372	GLU	C-N-CA	5.91	128.20	120.28
1	o	657	ASN	CA-C-N	5.91	126.50	120.00
1	o	657	ASN	C-N-CA	5.91	126.50	120.00
1	o	704	HIS	O-C-N	-5.91	115.98	122.07
1	p	383	GLN	N-CA-C	5.91	117.73	111.28
1	p	698	ARG	NE-CZ-NH1	5.91	127.41	121.50
1	w	126	ASP	CA-CB-CG	5.91	118.51	112.60
1	y	147	SER	O-C-N	-5.91	114.76	122.39
1	A	684	GLU	N-CA-C	5.91	117.40	111.07
1	D	202	ARG	CA-C-N	5.91	133.00	121.41
1	D	202	ARG	C-N-CA	5.91	133.00	121.41
1	I	103	LEU	CA-C-N	5.91	128.01	120.56
1	I	103	LEU	C-N-CA	5.91	128.01	120.56
1	I	553	ILE	N-CA-C	5.91	116.57	110.36
1	S	252	TYR	CA-C-N	-5.91	114.81	121.85
1	S	252	TYR	C-N-CA	-5.91	114.81	121.85
1	T	545	LEU	N-CA-CB	-5.91	101.43	110.12
1	1	683	SER	CB-CA-C	5.91	121.33	110.10
1	1	692	LEU	O-C-N	-5.91	115.30	122.22
1	a	574	MET	N-CA-C	5.91	117.72	111.28
1	i	536	LYS	N-CA-CB	5.91	118.64	110.07
1	t	440	GLU	O-C-N	-5.91	114.75	122.20
1	u	563	LYS	CA-C-O	5.91	127.03	120.82
1	P	128	SER	CA-C-N	5.91	130.59	120.72
1	P	128	SER	C-N-CA	5.91	130.59	120.72
1	P	477	HIS	ND1-CE1-NE2	5.91	114.31	108.40
1	0	635	LEU	O-C-N	-5.91	115.98	122.07
1	6	308	MET	O-C-N	-5.91	115.85	122.12
1	9	430	ASN	CA-C-N	5.91	128.20	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	9	430	ASN	C-N-CA	5.91	128.20	120.28
1	d	290	ILE	CA-C-N	5.91	128.23	122.73
1	d	290	ILE	C-N-CA	5.91	128.23	122.73
1	k	694	GLU	N-CA-C	5.91	117.41	110.97
1	l	334	THR	N-CA-CB	5.91	119.74	110.46
1	w	421	PHE	O-C-N	5.91	128.16	122.07
1	F	640	ARG	N-CA-CB	5.91	118.64	110.07
1	K	460	ASN	CA-CB-CG	-5.91	106.69	112.60
1	N	425	LYS	N-CA-C	5.91	117.72	111.28
1	Q	272	THR	CA-C-O	5.91	125.89	119.15
1	W	328	ARG	N-CA-CB	5.91	120.48	110.49
1	2	539	PHE	O-C-N	-5.91	115.22	122.25
1	c	472	VAL	O-C-N	-5.91	114.31	122.05
1	t	583	GLN	OE1-CD-NE2	-5.91	116.69	122.60
1	x	506	HIS	CG-CD2-NE2	5.91	113.11	107.20
1	y	678	LEU	N-CA-C	5.91	117.72	111.28
1	z	430	ASN	N-CA-C	5.91	117.72	111.28
1	J	688	LYS	CA-C-N	5.91	128.20	120.28
1	J	688	LYS	C-N-CA	5.91	128.20	120.28
1	T	576	GLN	N-CA-C	5.91	117.52	111.14
1	6	183	PRO	CA-C-N	5.91	126.65	120.03
1	6	183	PRO	C-N-CA	5.91	126.65	120.03
1	e	144	PRO	CB-CA-C	5.91	118.73	110.17
1	g	409	ALA	N-CA-C	-5.91	100.17	109.50
1	u	557	LYS	CA-C-N	5.91	128.00	120.56
1	u	557	LYS	C-N-CA	5.91	128.00	120.56
1	v	595	GLU	CA-C-N	-5.91	116.90	123.16
1	v	595	GLU	C-N-CA	-5.91	116.90	123.16
1	H	112	VAL	CA-C-N	5.91	131.65	122.26
1	H	112	VAL	C-N-CA	5.91	131.65	122.26
1	K	449	ARG	NE-CZ-NH2	5.91	124.52	119.20
1	K	528	GLN	OE1-CD-NE2	-5.91	116.69	122.60
1	O	100	CYS	O-C-N	-5.91	115.86	122.12
1	W	682	GLN	CA-C-N	5.91	128.12	120.44
1	W	682	GLN	C-N-CA	5.91	128.12	120.44
1	2	528	GLN	N-CA-C	5.91	117.72	111.28
1	9	152	ARG	CG-CD-NE	-5.91	99.01	112.00
1	9	700	THR	N-CA-C	5.91	118.20	111.11
1	c	376	THR	O-C-N	-5.91	115.01	122.27
1	e	696	ILE	N-CA-C	5.91	116.64	110.62
1	f	434	GLU	N-CA-C	5.91	117.39	111.07
1	g	681	GLU	N-CA-C	5.91	118.17	110.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	191	HIS	O-C-N	-5.91	115.03	122.17
1	j	446	ASN	CA-CB-CG	-5.91	106.69	112.60
1	j	656	GLU	CB-CG-CD	5.91	122.64	112.60
1	k	143	LEU	O-C-N	-5.91	116.54	121.38
1	k	588	VAL	CA-C-N	5.91	128.19	120.28
1	k	588	VAL	C-N-CA	5.91	128.19	120.28
1	t	481	GLU	N-CA-C	5.91	117.39	111.07
1	H	555	ASP	N-CA-CB	-5.91	101.44	110.12
1	K	593	ARG	NH1-CZ-NH2	-5.91	111.62	119.30
1	N	452	ASN	CB-CG-ND2	5.91	125.26	116.40
1	Y	165	GLU	CA-C-N	5.91	130.11	121.31
1	Y	165	GLU	C-N-CA	5.91	130.11	121.31
1	5	520	LEU	CA-C-O	5.90	127.01	120.63
1	e	380	MET	O-C-N	-5.90	115.86	122.12
1	j	248	LEU	N-CA-C	5.90	117.72	111.28
1	C	687	THR	CA-C-O	5.90	127.20	121.00
1	E	402	GLU	CA-C-N	5.90	128.12	120.44
1	E	402	GLU	C-N-CA	5.90	128.12	120.44
1	N	211	LEU	O-C-N	-5.90	116.27	123.30
1	N	341	GLU	CA-C-N	5.90	129.28	120.31
1	N	341	GLU	C-N-CA	5.90	129.28	120.31
1	U	367	VAL	N-CA-C	-5.90	100.58	107.61
1	Z	132	SER	N-CA-C	-5.90	105.57	112.89
1	6	273	THR	CA-C-N	5.90	128.19	120.28
1	6	273	THR	C-N-CA	5.90	128.19	120.28
1	e	474	ASN	N-CA-CB	5.90	118.90	110.16
1	g	357	ARG	CA-C-N	5.90	128.80	120.42
1	g	357	ARG	C-N-CA	5.90	128.80	120.42
1	j	369	ARG	NE-CZ-NH2	5.90	124.51	119.20
1	j	372	GLU	O-C-N	-5.90	115.86	122.12
1	j	684	GLU	CB-CA-C	-5.90	99.34	110.67
1	E	646	PRO	N-CA-C	5.90	121.73	113.53
1	G	387	PRO	CB-CA-C	-5.90	103.06	111.68
1	T	701	GLN	OE1-CD-NE2	-5.90	116.70	122.60
1	V	689	ARG	NH1-CZ-NH2	-5.90	111.62	119.30
1	6	145	ARG	N-CA-C	5.90	117.71	111.28
1	d	521	GLN	CA-C-O	-5.90	114.59	120.90
1	k	262	VAL	N-CA-CB	5.90	118.78	111.41
1	L	206	HIS	ND1-CE1-NE2	5.90	114.30	108.40
1	L	350	PHE	O-C-N	-5.90	115.01	122.27
1	L	520	LEU	CB-CA-C	5.90	120.14	110.88
1	R	196	VAL	N-CA-CB	5.90	117.45	110.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	247	ALA	CB-CA-C	-5.90	100.99	110.79
1	Z	460	ASN	CA-C-N	5.90	128.78	120.28
1	Z	460	ASN	C-N-CA	5.90	128.78	120.28
1	0	145	ARG	NE-CZ-NH2	-5.90	113.89	119.20
1	7	349	PHE	CA-CB-CG	-5.90	107.90	113.80
1	r	297	ASP	O-C-N	-5.90	114.69	122.42
1	v	352	THR	CA-C-O	5.90	126.80	120.55
1	x	323	MET	O-C-N	-5.90	115.98	123.24
1	x	396	SER	N-CA-C	5.90	117.38	111.07
1	J	208	LEU	N-CA-CB	-5.90	100.63	111.37
1	P	425	LYS	CA-C-N	5.90	128.11	120.56
1	P	425	LYS	C-N-CA	5.90	128.11	120.56
1	0	121	ILE	CA-C-O	5.90	126.84	120.53
1	l	122	ALA	O-C-N	-5.90	116.43	123.27
1	d	630	LEU	CA-C-O	-5.90	114.63	120.82
1	h	353	HIS	O-C-N	-5.90	113.98	121.29
1	h	512	LEU	N-CA-C	5.90	120.32	113.18
1	j	357	ARG	CA-C-N	5.90	127.99	120.56
1	j	357	ARG	C-N-CA	5.90	127.99	120.56
1	m	330	GLN	N-CA-C	5.90	117.51	111.14
1	p	305	LYS	CA-C-N	5.90	128.11	120.44
1	p	305	LYS	C-N-CA	5.90	128.11	120.44
1	r	272	THR	CA-CB-CG2	5.90	120.53	110.50
1	r	399	LYS	N-CA-C	5.90	117.51	111.14
1	B	313	ASN	OD1-CG-ND2	-5.90	116.70	122.60
1	C	442	VAL	CA-C-N	5.90	130.03	121.18
1	C	442	VAL	C-N-CA	5.90	130.03	121.18
1	D	343	THR	CA-C-O	5.90	126.67	120.42
1	D	484	GLU	CB-CA-C	5.90	120.58	110.79
1	E	521	GLN	OE1-CD-NE2	-5.90	116.70	122.60
1	I	243	LEU	CA-C-N	5.90	128.18	120.28
1	I	243	LEU	C-N-CA	5.90	128.18	120.28
1	I	467	THR	CA-C-O	5.90	126.80	120.55
1	I	624	THR	CA-CB-CG2	-5.90	100.47	110.50
1	N	532	ILE	O-C-N	-5.90	115.75	121.83
1	R	244	GLN	CA-C-N	5.90	127.99	120.56
1	R	244	GLN	C-N-CA	5.90	127.99	120.56
1	U	358	VAL	CA-C-O	-5.90	114.92	121.17
1	Y	353	HIS	ND1-CE1-NE2	5.90	114.30	108.40
1	5	557	LYS	O-C-N	-5.90	115.87	122.12
1	i	357	ARG	NE-CZ-NH2	-5.90	113.89	119.20
1	n	417	ASP	O-C-N	-5.90	114.75	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	488	ARG	CA-C-N	5.90	127.77	120.34
1	w	488	ARG	C-N-CA	5.90	127.77	120.34
1	V	381	HIS	ND1-CE1-NE2	5.90	114.30	108.40
1	0	375	THR	CA-CB-CG2	5.89	120.52	110.50
1	1	317	PRO	N-CA-C	5.89	120.11	111.03
1	1	569	GLN	N-CA-C	5.89	118.66	111.82
1	5	231	ARG	N-CA-CB	5.89	120.45	110.49
1	6	511	GLN	OE1-CD-NE2	-5.89	116.70	122.60
1	9	185	GLN	OE1-CD-NE2	-5.89	116.70	122.60
1	d	556	ILE	O-C-N	-5.89	116.13	121.91
1	e	231	ARG	O-C-N	-5.89	114.97	122.34
1	g	302	GLY	CA-C-O	5.89	126.77	120.40
1	n	429	PHE	N-CA-C	5.89	117.38	111.07
1	q	523	ALA	N-CA-C	5.89	117.78	111.36
1	I	451	TYR	N-CA-C	5.89	118.18	111.11
1	0	223	ILE	O-C-N	-5.89	116.95	123.20
1	3	108	ARG	NE-CZ-NH1	5.89	127.39	121.50
1	6	535	ALA	N-CA-C	5.89	117.70	111.28
1	f	125	GLY	O-C-N	-5.89	116.83	123.61
1	p	105	ASP	CA-CB-CG	-5.89	106.71	112.60
1	t	633	TYR	CD1-CG-CD2	5.89	126.94	118.10
1	w	696	ILE	O-C-N	-5.89	116.14	121.91
1	I	370	LEU	N-CA-C	5.89	118.18	111.11
1	M	258	THR	N-CA-CB	5.89	119.48	109.87
1	O	397	HIS	CG-CD2-NE2	5.89	113.09	107.20
1	S	238	PRO	O-C-N	-5.89	114.69	122.64
1	S	642	ALA	O-C-N	-5.89	113.67	122.39
1	T	182	ASP	CA-C-O	-5.89	113.89	120.25
1	X	662	GLN	CA-C-N	5.89	128.18	120.28
1	X	662	GLN	C-N-CA	5.89	128.18	120.28
1	e	320	LYS	N-CA-CB	-5.89	101.92	110.70
1	f	639	LYS	N-CA-C	5.89	117.70	111.28
1	s	106	SER	CA-C-O	5.89	126.99	120.63
1	z	328	ARG	NE-CZ-NH1	5.89	127.39	121.50
1	Z	657	ASN	CA-CB-CG	5.89	118.49	112.60
1	0	655	ARG	N-CA-C	5.89	118.21	111.02
1	g	127	GLN	N-CA-C	5.89	117.78	111.36
1	g	262	VAL	CA-C-O	5.89	126.72	120.48
1	k	441	GLU	CB-CG-CD	5.89	122.61	112.60
1	y	548	THR	CA-C-O	5.89	126.79	120.55
1	C	685	THR	O-C-N	5.89	128.36	122.12
1	I	640	ARG	NH1-CZ-NH2	-5.89	111.64	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	304	GLU	CA-C-N	5.89	128.17	120.28
1	P	304	GLU	C-N-CA	5.89	128.17	120.28
1	S	375	THR	CA-C-O	-5.89	114.64	120.82
1	r	152	ARG	CB-CG-CD	5.89	124.84	111.30
1	t	331	GLN	CA-C-N	5.89	129.07	120.71
1	t	331	GLN	C-N-CA	5.89	129.07	120.71
1	A	497	ASN	N-CA-C	5.89	119.12	109.76
1	F	297	ASP	CA-C-O	5.89	125.62	119.14
1	G	687	THR	N-CA-CB	5.89	118.55	110.01
1	0	701	GLN	N-CA-CB	5.89	118.77	110.12
1	3	630	LEU	O-C-N	-5.89	115.88	122.12
1	a	700	THR	N-CA-C	-5.89	104.99	111.82
1	c	431	GLN	CB-CG-CD	5.89	122.61	112.60
1	n	274	GLU	CB-CG-CD	5.89	122.61	112.60
1	t	220	ASP	CA-CB-CG	-5.89	106.71	112.60
1	t	478	GLU	O-C-N	-5.89	114.71	122.42
1	u	651	TYR	CA-C-O	-5.89	114.84	120.90
1	x	336	ARG	N-CA-C	5.89	118.14	110.43
1	D	184	GLY	CA-C-O	5.89	126.40	119.45
1	L	640	ARG	CA-C-O	5.89	126.79	120.55
1	O	524	MET	CA-C-O	-5.89	114.64	120.82
1	V	500	THR	N-CA-CB	5.89	118.89	110.06
1	W	276	LEU	CA-C-O	-5.89	113.20	119.97
1	Z	447	GLU	O-C-N	-5.89	117.12	123.42
1	0	316	TYR	CA-C-O	-5.88	114.60	120.66
1	3	394	ARG	NE-CZ-NH2	-5.88	113.90	119.20
1	4	93	TYR	CA-C-N	5.88	128.16	120.28
1	4	93	TYR	C-N-CA	5.88	128.16	120.28
1	5	658	GLY	CA-C-O	5.88	127.36	121.00
1	i	560	HIS	CG-CD2-NE2	5.88	113.08	107.20
1	n	357	ARG	CB-CA-C	-5.88	99.37	110.67
1	q	665	MET	CA-C-N	5.88	128.44	120.38
1	q	665	MET	C-N-CA	5.88	128.44	120.38
1	r	401	THR	CA-C-O	5.88	126.79	120.55
1	A	97	VAL	CA-C-O	-5.88	114.99	120.34
1	C	380	MET	O-C-N	5.88	128.13	122.07
1	H	409	ALA	CA-C-N	5.88	132.29	121.70
1	H	409	ALA	C-N-CA	5.88	132.29	121.70
1	S	401	THR	N-CA-C	5.88	117.69	111.28
1	9	211	LEU	CA-C-O	-5.88	114.94	121.23
1	9	448	THR	CA-C-N	5.88	129.06	120.71
1	9	448	THR	C-N-CA	5.88	129.06	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	397	HIS	CG-CD2-NE2	5.88	113.08	107.20
1	S	365	ALA	O-C-N	5.88	130.41	122.59
1	V	425	LYS	N-CA-C	5.88	117.36	111.07
1	4	572	PHE	N-CA-C	5.88	118.17	111.11
1	6	199	GLY	CA-C-N	5.88	132.77	121.54
1	6	199	GLY	C-N-CA	5.88	132.77	121.54
1	8	142	ALA	N-CA-C	-5.88	100.62	108.74
1	c	279	ALA	CA-C-N	5.88	128.16	120.28
1	c	279	ALA	C-N-CA	5.88	128.16	120.28
1	f	688	LYS	CA-C-O	5.88	126.61	119.38
1	o	341	GLU	N-CA-C	5.88	118.17	111.11
1	q	270	ILE	O-C-N	-5.88	115.93	121.87
1	q	657	ASN	CB-CA-C	5.88	120.56	110.79
1	r	552	THR	CA-C-O	5.88	126.78	120.55
1	y	415	GLU	CA-C-N	5.88	128.41	120.65
1	y	415	GLU	C-N-CA	5.88	128.41	120.65
1	E	239	ARG	NE-CZ-NH1	5.88	127.38	121.50
1	L	301	ARG	O-C-N	-5.88	116.14	122.85
1	M	626	ILE	CA-C-N	5.88	126.35	119.94
1	M	626	ILE	C-N-CA	5.88	126.35	119.94
1	Q	543	PHE	CA-C-N	5.88	128.09	120.44
1	Q	543	PHE	C-N-CA	5.88	128.09	120.44
1	S	480	VAL	N-CA-C	5.88	116.62	110.62
1	U	541	GLU	CA-C-O	5.88	127.00	120.82
1	W	554	GLU	CA-C-O	-5.88	114.32	120.55
1	6	302	GLY	N-CA-C	5.88	119.79	112.73
1	8	511	GLN	OE1-CD-NE2	-5.88	116.72	122.60
1	a	415	GLU	CB-CG-CD	5.88	122.60	112.60
1	c	113	GLU	CA-C-N	5.88	129.06	120.71
1	c	113	GLU	C-N-CA	5.88	129.06	120.71
1	f	122	ALA	O-C-N	-5.88	116.63	123.27
1	l	451	TYR	N-CA-C	5.88	117.77	111.36
1	n	644	GLN	O-C-N	-5.88	114.45	122.33
1	p	280	HIS	CA-CB-CG	-5.88	107.92	113.80
1	w	370	LEU	CA-C-N	5.88	128.64	120.29
1	w	370	LEU	C-N-CA	5.88	128.64	120.29
1	x	271	ALA	CA-C-O	5.88	126.73	119.97
1	y	417	ASP	N-CA-C	5.88	118.44	111.33
1	N	214	THR	CB-CA-C	-5.88	101.27	110.74
1	3	186	VAL	CB-CA-C	-5.88	104.20	112.14
1	3	290	ILE	CA-C-O	5.88	127.42	120.72
1	3	420	PHE	N-CA-CB	5.88	118.70	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5	670	GLN	N-CA-C	5.88	118.64	111.82
1	7	709	PHE	N-CA-C	5.88	118.47	111.71
1	d	387	PRO	N-CD-CG	5.88	112.02	103.20
1	e	577	MET	CA-C-N	5.88	128.38	120.50
1	e	577	MET	C-N-CA	5.88	128.38	120.50
1	f	94	GLU	O-C-N	-5.88	115.89	122.12
1	g	381	HIS	CA-C-O	5.88	126.74	120.10
1	h	257	GLN	CB-CG-CD	5.88	122.59	112.60
1	h	280	HIS	O-C-N	-5.88	115.89	122.12
1	j	674	ARG	NE-CZ-NH1	5.88	127.38	121.50
1	k	255	ARG	NH1-CZ-NH2	-5.88	111.66	119.30
1	k	339	LEU	CA-C-N	5.88	128.08	120.44
1	k	339	LEU	C-N-CA	5.88	128.08	120.44
1	l	165	GLU	N-CA-C	5.88	123.32	110.80
1	l	280	HIS	CA-C-O	-5.88	112.02	119.31
1	m	477	HIS	ND1-CE1-NE2	5.88	114.28	108.40
1	q	388	LEU	CA-C-N	5.88	128.64	120.29
1	q	388	LEU	C-N-CA	5.88	128.64	120.29
1	q	483	TYR	CB-CG-CD1	-5.88	111.98	120.80
1	s	339	LEU	N-CA-C	5.88	118.47	111.71
1	E	507	GLN	CA-CB-CG	-5.88	102.34	114.10
1	F	255	ARG	NE-CZ-NH2	5.88	124.49	119.20
1	J	522	LYS	CA-C-N	5.88	129.25	120.31
1	J	522	LYS	C-N-CA	5.88	129.25	120.31
1	J	681	GLU	O-C-N	-5.88	116.34	123.16
1	L	554	GLU	CB-CG-CD	-5.88	102.61	112.60
1	M	531	PHE	CA-C-N	5.88	128.51	120.46
1	M	531	PHE	C-N-CA	5.88	128.51	120.46
1	Q	549	VAL	CB-CA-C	5.88	119.50	111.97
1	V	93	TYR	CB-CA-C	5.88	121.27	110.10
1	Y	486	GLN	O-C-N	-5.88	114.77	122.59
1	0	200	ASN	OD1-CG-ND2	-5.88	116.72	122.60
1	0	631	ASN	N-CA-CB	-5.88	101.48	110.12
1	4	170	ARG	NE-CZ-NH2	-5.88	113.91	119.20
1	a	133	SER	O-C-N	-5.88	115.89	122.12
1	a	431	GLN	N-CA-CB	5.88	118.49	109.91
1	d	437	VAL	N-CA-C	5.88	116.53	110.36
1	g	441	GLU	N-CA-C	5.88	118.34	110.35
1	g	639	LYS	CG-CD-CE	5.88	124.82	111.30
1	o	448	THR	O-C-N	-5.88	116.34	123.10
1	r	487	TYR	N-CA-C	5.88	118.44	111.33
1	s	449	ARG	N-CA-CB	5.88	120.22	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	t	410	ASP	N-CA-C	5.88	127.45	111.00
1	u	461	TRP	CB-CG-CD1	-5.88	118.09	126.90
1	z	533	ASN	CB-CG-ND2	-5.88	107.59	116.40
1	M	458	PHE	CA-CB-CG	5.88	119.68	113.80
1	O	410	ASP	CA-C-O	5.88	126.99	120.82
1	O	432	ASP	CA-C-N	5.88	127.96	120.56
1	O	432	ASP	C-N-CA	5.88	127.96	120.56
1	Q	632	ALA	N-CA-C	5.88	117.36	111.07
1	U	521	GLN	O-C-N	-5.88	116.02	122.07
1	3	121	ILE	O-C-N	-5.88	116.23	123.10
1	8	381	HIS	ND1-CE1-NE2	5.88	114.28	108.40
1	c	127	GLN	N-CA-C	5.88	118.47	111.71
1	H	149	ILE	N-CA-C	5.88	117.61	109.80
1	H	218	VAL	N-CA-C	5.88	121.57	108.88
1	N	274	GLU	CA-C-N	5.88	128.15	120.28
1	N	274	GLU	C-N-CA	5.88	128.15	120.28
1	P	516	ALA	CA-C-O	5.88	126.65	120.42
1	Y	458	PHE	O-C-N	-5.88	115.89	122.12
1	Z	593	ARG	NE-CZ-NH1	5.88	127.38	121.50
1	1	543	PHE	CA-C-O	-5.87	114.61	120.90
1	4	460	ASN	CA-C-N	5.87	128.15	120.28
1	4	460	ASN	C-N-CA	5.87	128.15	120.28
1	d	703	ARG	NH1-CZ-NH2	-5.87	111.66	119.30
1	l	269	ASP	CA-CB-CG	5.87	118.47	112.60
1	p	265	PRO	CA-C-O	-5.87	114.75	121.56
1	q	650	GLN	N-CA-C	5.87	117.68	111.28
1	r	412	PRO	CB-CA-C	-5.87	103.29	110.98
1	x	528	GLN	CA-C-N	5.87	128.15	120.28
1	x	528	GLN	C-N-CA	5.87	128.15	120.28
1	E	690	ARG	N-CA-C	5.87	117.76	111.36
1	U	350	PHE	N-CA-C	5.87	117.68	111.28
1	Z	629	HIS	CB-CG-CD2	-5.87	123.56	131.20
1	3	653	MET	CA-C-N	5.87	129.43	122.44
1	3	653	MET	C-N-CA	5.87	129.43	122.44
1	4	137	ALA	N-CA-C	5.87	117.76	111.36
1	7	238	PRO	N-CA-C	5.87	120.43	111.15
1	7	281	GLU	N-CA-C	5.87	117.35	111.07
1	8	476	ILE	CB-CA-C	5.87	119.48	111.97
1	9	95	GLN	OE1-CD-NE2	-5.87	116.73	122.60
1	a	645	ILE	N-CA-CB	5.87	114.20	110.50
1	a	653	MET	N-CA-C	5.87	118.63	111.82
1	b	163	PRO	CA-C-N	5.87	131.14	121.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	163	PRO	C-N-CA	5.87	131.14	121.39
1	d	101	ILE	CA-CB-CG2	5.87	120.48	110.50
1	k	123	VAL	O-C-N	-5.87	115.49	122.77
1	n	385	SER	N-CA-C	5.87	120.28	113.18
1	r	558	VAL	CA-C-N	5.87	128.43	120.44
1	r	558	VAL	C-N-CA	5.87	128.43	120.44
1	s	309	ASN	N-CA-CB	5.87	118.85	110.16
1	x	273	THR	N-CA-CB	5.87	119.23	109.60
1	z	443	VAL	O-C-N	-5.87	116.27	122.67
1	I	534	VAL	O-C-N	-5.87	115.17	121.80
1	L	134	VAL	CA-C-O	-5.87	114.84	120.95
1	M	191	HIS	CE1-NE2-CD2	-5.87	103.13	109.00
1	P	698	ARG	NE-CZ-NH2	-5.87	113.92	119.20
1	U	482	LYS	CA-C-N	5.87	128.15	120.28
1	U	482	LYS	C-N-CA	5.87	128.15	120.28
1	X	524	MET	N-CA-C	5.87	117.48	111.14
1	e	459	LYS	O-C-N	-5.87	115.46	122.15
1	A	383	GLN	N-CA-C	5.87	117.35	111.07
1	K	503	ILE	N-CA-C	5.87	116.61	110.62
1	Q	153	CYS	CA-C-N	5.87	127.18	119.84
1	Q	153	CYS	C-N-CA	5.87	127.18	119.84
1	2	476	ILE	CA-C-N	5.87	128.07	120.44
1	2	476	ILE	C-N-CA	5.87	128.07	120.44
1	2	548	THR	CA-C-O	5.87	126.64	120.42
1	e	397	HIS	CA-C-N	5.87	128.07	120.44
1	e	397	HIS	C-N-CA	5.87	128.07	120.44
1	f	560	HIS	N-CA-C	5.87	117.76	111.36
1	m	353	HIS	CA-C-N	5.87	125.34	119.24
1	m	353	HIS	C-N-CA	5.87	125.34	119.24
1	n	517	LEU	O-C-N	-5.87	115.90	122.12
1	q	166	ALA	N-CA-C	5.87	118.74	110.23
1	q	428	MET	N-CA-CB	5.87	118.85	110.16
1	s	355	TYR	CD1-CG-CD2	5.87	126.90	118.10
1	w	457	ASP	CA-C-N	5.87	128.14	120.28
1	w	457	ASP	C-N-CA	5.87	128.14	120.28
1	w	476	ILE	N-CA-CB	5.87	119.38	110.58
1	z	108	ARG	O-C-N	-5.87	116.03	122.07
1	z	125	GLY	O-C-N	-5.87	116.57	123.55
1	z	456	GLU	CA-C-N	5.87	128.14	120.28
1	z	456	GLU	C-N-CA	5.87	128.14	120.28
1	C	538	HIS	ND1-CE1-NE2	5.87	114.27	108.40
1	F	182	ASP	O-C-N	-5.87	115.41	121.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	195	ASN	CA-C-N	5.87	128.81	120.53
1	J	195	ASN	C-N-CA	5.87	128.81	120.53
1	Q	429	PHE	CA-C-O	5.87	127.18	120.90
1	T	381	HIS	ND1-CE1-NE2	5.87	114.27	108.40
1	U	132	SER	N-CA-C	5.87	117.68	111.28
1	1	683	SER	CA-C-N	5.87	128.07	120.44
1	1	683	SER	C-N-CA	5.87	128.07	120.44
1	j	406	ARG	NH1-CZ-NH2	-5.87	111.67	119.30
1	k	562	ALA	O-C-N	-5.87	115.90	122.12
1	z	197	MET	CA-C-O	5.87	126.77	120.55
1	F	411	ILE	CA-C-O	-5.87	110.83	120.80
1	O	505	VAL	N-CA-C	5.87	116.60	110.62
1	T	197	MET	CA-C-N	5.87	130.52	120.72
1	T	197	MET	C-N-CA	5.87	130.52	120.72
1	3	442	VAL	CA-C-N	5.87	128.36	120.50
1	3	442	VAL	C-N-CA	5.87	128.36	120.50
1	4	228	GLY	CA-C-N	5.87	132.53	121.97
1	4	228	GLY	C-N-CA	5.87	132.53	121.97
1	7	500	THR	CA-C-N	5.87	128.06	120.44
1	7	500	THR	C-N-CA	5.87	128.06	120.44
1	8	366	THR	CA-C-O	5.87	126.49	119.10
1	f	547	GLN	OE1-CD-NE2	-5.87	116.73	122.60
1	t	263	VAL	O-C-N	-5.87	116.24	123.10
1	t	707	CYS	O-C-N	-5.87	116.03	122.07
1	z	555	ASP	N-CA-CB	-5.87	101.51	110.01
1	H	262	VAL	CB-CA-C	-5.87	102.44	110.77
1	I	297	ASP	CA-C-N	5.87	128.62	120.29
1	I	297	ASP	C-N-CA	5.87	128.62	120.29
1	N	362	GLU	O-C-N	-5.87	115.30	122.34
1	N	524	MET	CA-C-N	5.87	128.06	120.44
1	N	524	MET	C-N-CA	5.87	128.06	120.44
1	R	434	GLU	O-C-N	5.87	128.43	122.09
1	S	224	ILE	CA-CB-CG1	5.87	120.37	110.40
1	X	148	GLY	CA-C-N	5.87	128.50	120.35
1	X	148	GLY	C-N-CA	5.87	128.50	120.35
1	Y	441	GLU	CA-C-O	-5.87	115.11	121.44
1	0	524	MET	CA-C-N	5.86	128.39	120.65
1	0	524	MET	C-N-CA	5.86	128.39	120.65
1	3	303	THR	N-CA-C	5.86	118.43	111.33
1	3	309	ASN	CB-CA-C	5.86	120.82	110.85
1	8	453	LYS	N-CA-C	5.86	118.45	111.71
1	e	420	PHE	N-CA-CB	5.86	118.74	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	j	409	ALA	O-C-N	-5.86	114.79	122.59
1	k	484	GLU	N-CA-C	5.86	117.34	111.07
1	k	639	LYS	CG-CD-CE	5.86	124.79	111.30
1	l	325	VAL	O-C-N	-5.86	116.74	123.07
1	m	553	ILE	N-CA-C	5.86	116.60	110.62
1	p	120	ALA	O-C-N	-5.86	117.66	123.46
1	p	685	THR	N-CA-CB	5.86	118.74	110.12
1	s	108	ARG	NE-CZ-NH1	5.86	127.36	121.50
1	t	671	GLU	CA-C-O	5.86	126.73	120.46
1	v	629	HIS	CE1-NE2-CD2	-5.86	103.14	109.00
1	D	186	VAL	CA-C-O	5.86	127.06	120.85
1	D	681	GLU	CA-C-N	5.86	128.41	120.38
1	D	681	GLU	C-N-CA	5.86	128.41	120.38
1	J	405	ARG	N-CA-C	5.86	118.62	111.82
1	W	441	GLU	CB-CA-C	5.86	117.86	109.71
1	X	493	LEU	N-CA-C	5.86	123.29	110.80
1	Y	566	ASN	O-C-N	-5.86	115.91	122.12
1	Z	245	ILE	CA-C-N	5.86	128.72	120.28
1	Z	245	ILE	C-N-CA	5.86	128.72	120.28
1	1	657	ASN	CA-CB-CG	5.86	118.46	112.60
1	2	510	GLN	N-CA-C	5.86	119.25	111.75
1	4	527	ILE	N-CA-CB	5.86	117.41	110.55
1	5	315	THR	CA-CB-OG1	5.86	118.39	109.60
1	e	655	ARG	NE-CZ-NH1	5.86	127.36	121.50
1	r	551	SER	O-C-N	-5.86	115.47	122.15
1	z	446	ASN	CA-CB-CG	-5.86	106.74	112.60
1	z	584	ILE	O-C-N	-5.86	116.18	121.87
1	L	410	ASP	CA-CB-CG	5.86	118.46	112.60
1	M	597	PHE	N-CA-C	5.86	117.75	111.36
1	Q	108	ARG	NE-CZ-NH2	5.86	124.48	119.20
1	3	280	HIS	ND1-CE1-NE2	5.86	114.26	108.40
1	6	448	THR	CB-CA-C	5.86	121.80	109.79
1	9	397	HIS	CA-C-N	5.86	128.13	120.28
1	9	397	HIS	C-N-CA	5.86	128.13	120.28
1	d	690	ARG	N-CA-C	5.86	117.34	111.07
1	j	676	SER	O-C-N	-5.86	116.03	122.07
1	q	236	ASN	OD1-CG-ND2	-5.86	116.74	122.60
1	J	169	GLY	O-C-N	-5.86	118.48	123.23
1	K	292	ILE	CA-C-N	5.86	130.21	122.30
1	K	292	ILE	C-N-CA	5.86	130.21	122.30
1	Q	306	SER	O-C-N	-5.86	115.76	122.09
1	W	594	GLU	O-C-N	-5.86	116.03	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	182	ASP	CA-C-N	5.86	125.97	119.87
1	Y	182	ASP	C-N-CA	5.86	125.97	119.87
1	Y	449	ARG	NE-CZ-NH2	5.86	124.47	119.20
1	5	464	ILE	CB-CA-C	5.86	119.47	111.97
1	g	108	ARG	O-C-N	5.86	128.10	122.07
1	n	96	LYS	CA-C-N	5.86	128.06	120.56
1	n	96	LYS	C-N-CA	5.86	128.06	120.56
1	z	330	GLN	N-CA-C	5.86	117.67	111.28
1	A	341	GLU	CA-C-N	5.86	128.13	120.28
1	A	341	GLU	C-N-CA	5.86	128.13	120.28
1	M	130	GLY	O-C-N	-5.86	116.56	122.54
1	P	199	GLY	CA-C-O	5.86	125.54	118.86
1	3	296	PRO	CA-C-N	5.86	131.43	122.29
1	3	296	PRO	C-N-CA	5.86	131.43	122.29
1	3	683	SER	CA-C-O	5.86	130.76	120.80
1	4	359	LEU	CA-C-O	5.86	127.17	120.90
1	5	658	GLY	N-CA-C	5.86	119.29	112.50
1	5	669	LEU	CA-C-O	5.86	126.57	119.31
1	q	264	VAL	CA-C-O	-5.86	112.10	119.95
1	r	623	PHE	O-C-N	-5.86	115.52	122.20
1	B	706	LEU	CA-C-N	5.86	128.13	120.28
1	B	706	LEU	C-N-CA	5.86	128.13	120.28
1	C	639	LYS	CA-C-N	-5.86	111.60	122.09
1	C	639	LYS	C-N-CA	-5.86	111.60	122.09
1	F	419	MET	O-C-N	5.86	128.10	122.07
1	H	119	PRO	N-CA-CB	5.86	109.40	103.25
1	I	542	PHE	CA-CB-CG	-5.86	107.94	113.80
1	K	121	ILE	N-CA-C	-5.86	100.05	108.48
1	L	633	TYR	CA-C-N	5.86	128.45	120.54
1	L	633	TYR	C-N-CA	5.86	128.45	120.54
1	M	229	ILE	CA-C-O	-5.86	114.92	121.36
1	R	553	ILE	CA-C-O	-5.86	114.86	120.95
1	S	267	ASN	OD1-CG-ND2	-5.86	116.74	122.60
1	V	376	THR	O-C-N	-5.86	116.04	122.07
1	W	356	PHE	CA-CB-CG	-5.86	107.94	113.80
1	1	111	GLY	O-C-N	-5.86	115.09	122.70
1	3	569	GLN	N-CA-C	5.86	117.33	111.07
1	6	418	LYS	CB-CA-C	5.86	120.07	110.88
1	8	658	GLY	N-CA-C	5.86	119.29	112.50
1	a	101	ILE	CA-C-N	5.86	128.40	120.38
1	a	101	ILE	C-N-CA	5.86	128.40	120.38
1	f	406	ARG	CA-C-O	5.86	126.76	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	g	446	ASN	CB-CG-ND2	5.86	125.18	116.40
1	h	357	ARG	NE-CZ-NH1	5.86	127.36	121.50
1	i	556	ILE	CA-C-N	5.86	128.13	120.28
1	i	556	ILE	C-N-CA	5.86	128.13	120.28
1	j	325	VAL	CA-CB-CG1	5.86	120.36	110.40
1	n	486	GLN	O-C-N	-5.86	115.91	122.12
1	A	296	PRO	N-CA-C	-5.86	107.03	114.35
1	E	434	GLU	N-CA-C	5.86	117.66	111.28
1	G	255	ARG	N-CA-CB	5.86	119.20	109.60
1	K	256	GLN	N-CA-C	5.86	120.15	112.89
1	L	552	THR	CA-C-N	5.86	128.15	120.60
1	L	552	THR	C-N-CA	5.86	128.15	120.60
1	P	332	GLU	CA-C-N	5.86	130.89	123.10
1	P	332	GLU	C-N-CA	5.86	130.89	123.10
1	X	692	LEU	CA-C-O	-5.86	114.21	120.42
1	Z	276	LEU	CA-C-N	5.86	128.12	120.28
1	Z	276	LEU	C-N-CA	5.86	128.12	120.28
1	b	403	GLU	CA-C-O	5.85	126.62	120.42
1	d	629	HIS	ND1-CE1-NE2	5.85	114.25	108.40
1	d	704	HIS	CA-C-O	-5.85	114.64	120.90
1	n	665	MET	N-CA-C	5.85	119.68	112.54
1	o	190	ILE	CA-C-N	5.85	128.44	120.54
1	o	190	ILE	C-N-CA	5.85	128.44	120.54
1	r	462	VAL	CA-C-N	5.85	126.44	119.94
1	r	462	VAL	C-N-CA	5.85	126.44	119.94
1	s	635	LEU	N-CA-C	5.85	118.14	111.11
1	x	485	LYS	N-CA-C	-5.85	106.18	113.38
1	C	307	VAL	O-C-N	-5.85	115.80	121.83
1	F	683	SER	CA-C-N	5.85	128.05	120.44
1	F	683	SER	C-N-CA	5.85	128.05	120.44
1	F	690	ARG	O-C-N	-5.85	115.92	122.12
1	Z	269	ASP	CA-CB-CG	-5.85	106.75	112.60
1	2	398	GLN	N-CA-C	5.85	117.33	111.07
1	9	152	ARG	CA-C-O	5.85	126.15	119.18
1	a	214	THR	O-C-N	-5.85	116.55	123.22
1	d	255	ARG	NE-CZ-NH1	-5.85	115.65	121.50
1	g	685	THR	CA-CB-OG1	-5.85	100.82	109.60
1	t	560	HIS	N-CA-C	5.85	119.68	112.54
1	u	261	LEU	CA-C-N	5.85	130.21	122.95
1	u	261	LEU	C-N-CA	5.85	130.21	122.95
1	w	136	GLU	N-CA-C	5.85	118.13	111.11
1	w	347	ILE	CA-C-N	5.85	128.44	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	347	ILE	C-N-CA	5.85	128.44	120.54
1	w	570	LEU	O-C-N	-5.85	116.00	122.09
1	x	503	ILE	N-CA-C	5.85	116.04	110.42
1	A	218	VAL	O-C-N	-5.85	114.82	121.14
1	I	192	LYS	CA-C-O	5.85	126.62	120.42
1	J	558	VAL	CA-C-O	-5.85	114.65	120.85
1	K	384	LYS	CG-CD-CE	5.85	124.76	111.30
1	L	433	ILE	CA-C-O	-5.85	114.86	120.95
1	V	164	CYS	N-CA-C	5.85	118.72	110.23
1	Z	109	ALA	N-CA-C	5.85	117.46	111.14
1	Z	661	LEU	CA-C-N	5.85	128.05	120.44
1	Z	661	LEU	C-N-CA	5.85	128.05	120.44
1	j	288	ARG	CA-C-O	5.85	125.47	119.97
1	r	463	GLY	CA-C-N	5.85	127.93	120.56
1	r	463	GLY	C-N-CA	5.85	127.93	120.56
1	z	383	GLN	N-CA-C	5.85	117.66	111.28
1	E	576	GLN	CB-CG-CD	5.85	122.55	112.60
1	I	210	SER	N-CA-C	5.85	117.83	108.41
1	I	342	ALA	N-CA-C	5.85	117.66	111.28
1	Q	697	TYR	CB-CA-C	5.85	120.50	110.79
1	6	513	VAL	CA-C-N	5.85	128.10	120.26
1	6	513	VAL	C-N-CA	5.85	128.10	120.26
1	9	191	HIS	CG-CD2-NE2	5.85	113.05	107.20
1	9	418	LYS	CA-C-N	5.85	128.12	120.28
1	9	418	LYS	C-N-CA	5.85	128.12	120.28
1	a	99	PRO	O-C-N	5.85	129.25	122.23
1	b	353	HIS	CE1-NE2-CD2	-5.85	103.15	109.00
1	d	241	ILE	CA-C-N	5.85	126.47	119.98
1	d	241	ILE	C-N-CA	5.85	126.47	119.98
1	d	370	LEU	CA-C-N	5.85	128.12	120.28
1	d	370	LEU	C-N-CA	5.85	128.12	120.28
1	v	667	GLN	O-C-N	-5.85	115.03	122.34
1	w	511	GLN	OE1-CD-NE2	-5.85	116.75	122.60
1	y	301	ARG	NE-CZ-NH2	-5.85	113.94	119.20
1	z	347	ILE	CA-C-O	5.85	127.37	121.17
1	C	497	ASN	OD1-CG-ND2	-5.85	116.75	122.60
1	H	150	VAL	CA-CB-CG2	-5.85	100.46	110.40
1	J	152	ARG	NE-CZ-NH2	-5.85	113.94	119.20
1	L	112	VAL	O-C-N	-5.85	113.64	123.00
1	O	539	PHE	CB-CA-C	-5.85	100.83	110.72
1	P	186	VAL	N-CA-C	5.85	116.59	110.62
1	P	381	HIS	N-CA-C	5.85	117.33	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	674	ARG	CD-NE-CZ	5.85	132.59	124.40
1	V	353	HIS	CA-C-O	5.85	125.66	119.69
1	V	545	LEU	CA-C-N	5.85	128.44	120.54
1	V	545	LEU	C-N-CA	5.85	128.44	120.54
1	Y	494	GLY	CA-C-N	5.85	132.23	121.70
1	Y	494	GLY	C-N-CA	5.85	132.23	121.70
1	O	226	LEU	CA-C-O	-5.85	115.34	120.60
1	3	675	TYR	N-CA-C	5.85	117.65	111.28
1	5	372	GLU	O-C-N	5.85	128.09	122.07
1	5	450	LEU	N-CA-C	5.85	117.65	111.28
1	e	569	GLN	N-CA-CB	5.85	118.71	109.82
1	i	429	PHE	CA-CB-CG	-5.85	107.95	113.80
1	l	641	LEU	CA-C-O	5.85	126.69	119.97
1	p	232	VAL	O-C-N	-5.85	115.40	122.59
1	u	509	ILE	N-CA-C	5.85	116.03	110.42
1	A	421	PHE	CB-CA-C	5.85	120.50	110.79
1	D	442	VAL	O-C-N	-5.85	116.09	122.64
1	H	295	LYS	O-C-N	-5.85	114.60	121.32
1	K	206	HIS	N-CA-C	5.85	120.04	113.02
1	K	665	MET	O-C-N	-5.85	116.05	122.07
1	L	324	ILE	CB-CA-C	5.85	117.72	111.35
1	L	680	GLN	OE1-CD-NE2	-5.85	116.75	122.60
1	P	235	ASP	N-CA-C	5.85	118.60	111.82
1	P	357	ARG	NE-CZ-NH1	5.85	127.35	121.50
1	R	248	LEU	O-C-N	-5.85	115.92	122.12
1	R	528	GLN	CA-C-O	5.85	126.96	120.82
1	Y	202	ARG	NE-CZ-NH1	5.85	127.35	121.50
1	5	101	ILE	N-CA-C	5.85	116.03	110.42
1	9	229	ILE	N-CA-C	5.85	116.61	109.30
1	b	677	TRP	CA-C-O	5.85	126.62	120.42
1	e	481	GLU	N-CA-C	-5.85	104.60	110.97
1	q	201	GLY	N-CA-C	-5.85	107.19	115.43
1	q	332	GLU	N-CA-C	5.85	117.65	111.28
1	A	678	LEU	O-C-N	-5.85	114.60	122.43
1	B	236	ASN	CA-C-N	5.85	128.09	120.26
1	B	236	ASN	C-N-CA	5.85	128.09	120.26
1	P	707	CYS	O-C-N	-5.85	114.81	122.59
1	Q	373	ARG	N-CA-C	5.85	118.60	111.82
1	S	108	ARG	N-CA-C	5.85	117.65	111.28
1	4	644	GLN	CA-C-N	5.84	123.92	120.24
1	4	644	GLN	C-N-CA	5.84	123.92	120.24
1	5	667	GLN	CA-C-O	5.84	126.56	119.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	668	ILE	CA-C-O	5.84	127.10	119.85
1	g	520	LEU	CA-C-N	5.84	128.39	120.44
1	g	520	LEU	C-N-CA	5.84	128.39	120.44
1	l	546	ASN	CA-CB-CG	5.84	118.44	112.60
1	r	380	MET	CA-C-N	5.84	128.39	120.38
1	r	380	MET	C-N-CA	5.84	128.39	120.38
1	u	456	GLU	O-C-N	-5.84	116.01	122.09
1	v	106	SER	N-CA-CB	5.84	118.48	110.01
1	w	435	LYS	N-CA-CB	5.84	118.65	109.94
1	w	537	LYS	N-CA-C	-5.84	105.73	112.92
1	z	191	HIS	ND1-CE1-NE2	5.84	114.24	108.40
1	B	149	ILE	N-CA-C	5.84	121.50	109.34
1	E	635	LEU	CA-C-N	5.84	128.04	120.44
1	E	635	LEU	C-N-CA	5.84	128.04	120.44
1	R	423	ILE	O-C-N	5.84	127.54	121.87
1	T	295	LYS	CA-C-O	-5.84	115.98	120.48
1	T	407	CYS	O-C-N	-5.84	116.11	123.01
1	T	490	LYS	CA-C-N	5.84	130.97	122.85
1	T	490	LYS	C-N-CA	5.84	130.97	122.85
1	V	143	LEU	CA-C-O	-5.84	113.78	119.51
1	W	458	PHE	CA-C-N	5.84	128.11	120.28
1	W	458	PHE	C-N-CA	5.84	128.11	120.28
1	Z	703	ARG	O-C-N	-5.84	115.49	122.15
1	r	695	ARG	NH1-CZ-NH2	-5.84	111.70	119.30
1	s	704	HIS	O-C-N	-5.84	116.05	122.07
1	t	521	GLN	N-CA-C	5.84	117.32	111.07
1	K	426	ILE	CA-C-N	5.84	128.43	120.54
1	K	426	ILE	C-N-CA	5.84	128.43	120.54
1	M	564	ALA	N-CA-CB	-5.84	101.60	110.07
1	P	694	GLU	N-CA-C	5.84	117.32	111.07
1	S	375	THR	N-CA-C	5.84	117.32	111.07
1	1	573	ARG	NH1-CZ-NH2	-5.84	111.71	119.30
1	2	330	GLN	OE1-CD-NE2	-5.84	116.76	122.60
1	6	681	GLU	CA-C-N	5.84	129.01	120.71
1	6	681	GLU	C-N-CA	5.84	129.01	120.71
1	c	405	ARG	NE-CZ-NH2	-5.84	113.94	119.20
1	f	689	ARG	N-CA-CB	5.84	118.64	109.94
1	C	101	ILE	O-C-N	-5.84	115.81	121.83
1	D	530	ALA	CA-C-N	5.84	128.03	120.44
1	D	530	ALA	C-N-CA	5.84	128.03	120.44
1	E	238	PRO	N-CA-CB	5.84	109.12	103.51
1	I	474	ASN	CA-CB-CG	5.84	118.44	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	401	THR	N-CA-CB	5.84	118.81	110.16
1	Y	650	GLN	N-CA-C	5.84	117.65	111.28
1	1	238	PRO	CB-CA-C	5.84	118.99	111.46
1	1	397	HIS	CG-CD2-NE2	5.84	113.04	107.20
1	2	647	PHE	CA-CB-CG	5.84	119.64	113.80
1	b	474	ASN	OD1-CG-ND2	-5.84	116.76	122.60
1	f	710	SER	O-C-N	-5.84	115.69	122.87
1	g	522	LYS	N-CA-CB	5.84	118.70	110.12
1	g	707	CYS	N-CA-C	5.84	117.32	111.07
1	m	557	LYS	N-CA-C	5.84	118.43	111.71
1	p	446	ASN	N-CA-C	-5.84	105.46	112.58
1	p	643	ASN	CA-C-N	5.84	128.91	120.79
1	p	643	ASN	C-N-CA	5.84	128.91	120.79
1	t	155	LEU	O-C-N	-5.84	116.50	123.27
1	u	707	CYS	N-CA-CB	5.84	118.70	110.12
1	A	465	LEU	CA-C-N	5.84	128.10	120.28
1	A	465	LEU	C-N-CA	5.84	128.10	120.28
1	E	680	GLN	OE1-CD-NE2	5.84	128.44	122.60
1	K	399	LYS	N-CA-C	5.84	117.34	110.97
1	O	597	PHE	CA-CB-CG	-5.84	107.96	113.80
1	Q	474	ASN	CB-CA-C	-5.84	101.67	110.90
1	U	196	VAL	CA-C-N	5.84	128.38	120.44
1	U	196	VAL	C-N-CA	5.84	128.38	120.44
1	Y	573	ARG	NH1-CZ-NH2	-5.84	111.71	119.30
1	1	324	ILE	O-C-N	-5.84	117.01	123.20
1	2	341	GLU	O-C-N	-5.84	115.93	122.12
1	c	698	ARG	NE-CZ-NH1	5.84	127.34	121.50
1	o	381	HIS	CA-C-N	5.84	128.46	120.46
1	o	381	HIS	C-N-CA	5.84	128.46	120.46
1	t	152	ARG	CD-NE-CZ	5.84	132.57	124.40
1	t	651	TYR	O-C-N	-5.84	115.96	122.03
1	y	461	TRP	CA-C-N	5.84	128.76	120.53
1	y	461	TRP	C-N-CA	5.84	128.76	120.53
1	z	668	ILE	O-C-N	-5.84	116.10	121.94
1	B	397	HIS	N-CA-C	5.84	117.32	111.07
1	E	632	ALA	CA-C-O	5.84	126.68	119.97
1	M	183	PRO	CA-C-N	5.84	131.18	120.79
1	M	183	PRO	C-N-CA	5.84	131.18	120.79
1	V	464	ILE	CA-C-N	5.84	128.10	120.28
1	V	464	ILE	C-N-CA	5.84	128.10	120.28
1	0	162	GLN	CA-C-O	-5.84	114.72	120.26
1	0	664	ALA	CA-C-N	5.84	130.47	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	0	664	ALA	C-N-CA	5.84	130.47	120.72
1	3	372	GLU	CA-C-O	5.84	126.74	120.55
1	3	548	THR	CA-C-N	5.84	127.91	120.56
1	3	548	THR	C-N-CA	5.84	127.91	120.56
1	5	211	LEU	O-C-N	-5.84	116.24	123.36
1	6	272	THR	CA-C-N	5.84	129.05	120.82
1	6	272	THR	C-N-CA	5.84	129.05	120.82
1	7	483	TYR	O-C-N	-5.84	115.93	122.12
1	b	551	SER	N-CA-C	5.84	117.64	111.28
1	c	524	MET	CA-C-N	5.84	128.03	120.44
1	c	524	MET	C-N-CA	5.84	128.03	120.44
1	e	264	VAL	CB-CA-C	5.84	115.79	110.13
1	f	695	ARG	CB-CA-C	-5.84	101.10	110.79
1	g	706	LEU	CB-CA-C	-5.84	100.93	110.85
1	l	501	PHE	CA-C-N	5.84	128.58	120.29
1	l	501	PHE	C-N-CA	5.84	128.58	120.29
1	m	435	LYS	N-CA-C	5.84	118.14	111.02
1	o	324	ILE	CA-C-N	5.84	131.27	122.98
1	o	324	ILE	C-N-CA	5.84	131.27	122.98
1	s	252	TYR	N-CA-C	5.84	117.44	111.14
1	v	565	GLU	CA-C-N	5.84	128.10	120.28
1	v	565	GLU	C-N-CA	5.84	128.10	120.28
1	A	230	THR	O-C-N	-5.84	115.97	122.86
1	M	687	THR	CA-C-N	5.84	128.10	120.28
1	M	687	THR	C-N-CA	5.84	128.10	120.28
1	R	428	MET	CA-C-N	5.84	128.03	120.44
1	R	428	MET	C-N-CA	5.84	128.03	120.44
1	h	155	LEU	CA-C-O	5.83	127.32	120.20
1	o	231	ARG	N-CA-C	5.83	117.31	111.07
1	s	418	LYS	N-CA-C	5.83	117.64	111.28
1	w	441	GLU	CB-CG-CD	5.83	122.52	112.60
1	B	685	THR	CA-C-O	5.83	126.73	120.55
1	D	335	ASN	O-C-N	-5.83	116.44	123.27
1	E	160	LYS	CA-C-O	5.83	127.46	120.28
1	K	100	CYS	CA-C-N	5.83	127.91	120.56
1	K	100	CYS	C-N-CA	5.83	127.91	120.56
1	R	521	GLN	OE1-CD-NE2	-5.83	116.77	122.60
1	S	135	LEU	N-CA-C	5.83	117.64	111.28
1	9	330	GLN	CB-CG-CD	-5.83	102.68	112.60
1	f	192	LYS	N-CA-C	5.83	117.64	111.28
1	k	259	ILE	N-CA-CB	5.83	117.99	110.99
1	m	479	GLU	N-CA-C	5.83	118.39	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	m	655	ARG	N-CA-C	5.83	117.44	111.14
1	r	185	GLN	CA-C-O	5.83	126.63	119.05
1	r	581	GLN	CB-CG-CD	5.83	122.52	112.60
1	u	542	PHE	CA-CB-CG	-5.83	107.97	113.80
1	x	399	LYS	CA-C-N	5.83	128.10	120.28
1	x	399	LYS	C-N-CA	5.83	128.10	120.28
1	y	449	ARG	O-C-N	5.83	129.47	122.94
1	A	136	GLU	N-CA-C	5.83	119.22	111.75
1	D	312	ARG	NH1-CZ-NH2	-5.83	111.72	119.30
1	D	700	THR	O-C-N	-5.83	115.79	122.09
1	M	115	ASP	CA-C-O	5.83	128.85	120.51
1	N	701	GLN	CA-C-N	5.83	128.35	120.65
1	N	701	GLN	C-N-CA	5.83	128.35	120.65
1	S	115	ASP	CA-C-N	5.83	129.15	120.87
1	S	115	ASP	C-N-CA	5.83	129.15	120.87
1	T	189	GLU	O-C-N	-5.83	116.06	122.07
1	U	557	LYS	N-CA-C	5.83	118.11	111.11
1	Y	569	GLN	N-CA-C	5.83	117.31	111.07
1	0	657	ASN	N-CA-CB	-5.83	101.55	110.01
1	3	230	THR	CA-CB-OG1	5.83	118.35	109.60
1	a	424	GLU	N-CA-C	5.83	117.72	111.36
1	c	249	ILE	O-C-N	-5.83	116.17	121.89
1	f	295	LYS	CA-C-N	5.83	127.13	119.84
1	f	295	LYS	C-N-CA	5.83	127.13	119.84
1	k	309	ASN	N-CA-CB	-5.83	101.53	110.16
1	u	206	HIS	ND1-CE1-NE2	5.83	114.23	108.40
1	w	536	LYS	N-CA-C	5.83	117.64	111.28
1	C	380	MET	N-CA-C	5.83	117.31	111.07
1	I	362	GLU	N-CA-C	5.83	117.31	111.07
1	I	517	LEU	N-CA-C	5.83	117.72	111.36
1	K	706	LEU	O-C-N	-5.83	115.50	122.15
1	P	454	ILE	O-C-N	-5.83	116.21	121.87
1	P	651	TYR	CG-CD2-CE2	-5.83	112.45	121.20
1	6	155	LEU	N-CA-CB	5.83	120.01	110.39
1	b	708	GLN	OE1-CD-NE2	-5.83	116.77	122.60
1	f	468	ASN	CA-CB-CG	-5.83	106.77	112.60
1	g	521	GLN	CA-C-N	5.83	128.09	120.28
1	g	521	GLN	C-N-CA	5.83	128.09	120.28
1	h	415	GLU	CB-CA-C	-5.83	101.11	110.79
1	l	444	ARG	O-C-N	-5.83	115.70	122.87
1	p	106	SER	CA-C-N	5.83	128.09	120.28
1	p	106	SER	C-N-CA	5.83	128.09	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	500	THR	N-CA-CB	5.83	119.32	110.28
1	H	247	ALA	O-C-N	5.83	128.07	122.07
1	J	640	ARG	O-C-N	-5.83	115.94	122.12
1	K	318	LEU	CA-C-O	-5.83	114.78	121.19
1	k	239	ARG	NH1-CZ-NH2	-5.83	111.72	119.30
1	l	346	GLU	CA-C-N	5.83	128.12	120.60
1	l	346	GLU	C-N-CA	5.83	128.12	120.60
1	l	592	VAL	CA-CB-CG1	5.83	120.31	110.40
1	m	460	ASN	CB-CA-C	-5.83	101.11	110.79
1	w	353	HIS	CE1-NE2-CD2	-5.83	103.17	109.00
1	D	498	TYR	O-C-N	-5.83	115.40	122.22
1	H	445	GLU	N-CA-C	5.83	117.54	109.15
1	H	645	ILE	CA-C-O	-5.83	112.14	119.95
1	K	225	ASP	CA-CB-CG	5.83	118.43	112.60
1	L	371	ALA	O-C-N	-5.83	115.50	122.15
1	M	468	ASN	CB-CG-ND2	5.83	125.14	116.40
1	O	695	ARG	NE-CZ-NH2	-5.83	113.95	119.20
1	S	141	VAL	CA-C-O	5.83	126.94	120.59
1	b	468	ASN	CA-C-N	5.83	128.67	120.28
1	b	468	ASN	C-N-CA	5.83	128.67	120.28
1	q	249	ILE	CA-C-O	5.83	127.01	120.95
1	s	418	LYS	CA-C-O	5.83	126.73	120.55
1	L	280	HIS	CB-CG-ND1	5.83	131.44	122.70
1	3	417	ASP	CA-C-O	5.83	123.96	119.18
1	6	524	MET	N-CA-C	5.83	117.63	111.28
1	e	332	GLU	CA-C-N	5.83	127.90	120.56
1	e	332	GLU	C-N-CA	5.83	127.90	120.56
1	i	302	GLY	N-CA-C	5.83	119.72	112.73
1	l	182	ASP	CA-C-O	-5.83	112.88	121.27
1	l	278	MET	N-CA-C	5.83	118.38	111.33
1	o	361	GLU	CA-C-N	5.83	128.01	120.44
1	o	361	GLU	C-N-CA	5.83	128.01	120.44
1	z	334	THR	CA-C-N	5.83	128.98	120.71
1	z	334	THR	C-N-CA	5.83	128.98	120.71
1	F	571	GLN	OE1-CD-NE2	-5.83	116.78	122.60
1	G	629	HIS	CA-C-N	5.83	128.56	120.29
1	G	629	HIS	C-N-CA	5.83	128.56	120.29
1	K	145	ARG	CA-C-N	5.83	132.83	121.41
1	K	145	ARG	C-N-CA	5.83	132.83	121.41
1	L	689	ARG	CA-C-N	5.83	128.41	120.54
1	L	689	ARG	C-N-CA	5.83	128.41	120.54
1	V	233	ALA	N-CA-C	5.83	117.81	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	377	GLU	CA-C-N	5.83	128.89	120.79
1	X	377	GLU	C-N-CA	5.83	128.89	120.79
1	3	411	ILE	O-C-N	-5.82	113.68	123.00
1	4	529	GLN	N-CA-C	5.82	117.63	111.28
1	4	682	GLN	N-CA-CB	5.82	118.53	109.85
1	5	644	GLN	N-CA-C	5.82	117.71	111.36
1	7	367	VAL	CA-C-N	5.82	127.12	119.84
1	7	367	VAL	C-N-CA	5.82	127.12	119.84
1	e	174	ARG	CG-CD-NE	-5.82	99.19	112.00
1	l	435	LYS	O-C-N	-5.82	115.95	122.12
1	q	94	GLU	N-CA-C	5.82	117.63	111.28
1	s	245	ILE	O-C-N	-5.82	116.20	121.91
1	t	677	TRP	N-CA-C	-5.82	105.01	111.36
1	u	405	ARG	CA-C-N	5.82	128.56	120.29
1	u	405	ARG	C-N-CA	5.82	128.56	120.29
1	y	174	ARG	CD-NE-CZ	5.82	132.55	124.40
1	z	373	ARG	N-CA-C	5.82	117.30	111.07
1	z	391	GLY	N-CA-C	5.82	119.69	112.64
1	D	538	HIS	CE1-NE2-CD2	-5.82	103.18	109.00
1	E	381	HIS	CA-C-N	5.82	127.90	120.56
1	E	381	HIS	C-N-CA	5.82	127.90	120.56
1	G	197	MET	CA-C-O	5.82	126.11	119.18
1	G	588	VAL	CA-C-N	5.82	128.08	120.28
1	G	588	VAL	C-N-CA	5.82	128.08	120.28
1	L	110	LEU	CA-C-N	5.82	131.85	121.48
1	L	110	LEU	C-N-CA	5.82	131.85	121.48
1	L	142	ALA	N-CA-C	5.82	116.78	108.74
1	O	270	ILE	O-C-N	-5.82	115.83	121.83
1	P	173	TYR	CB-CG-CD2	5.82	129.53	120.80
1	P	409	ALA	O-C-N	-5.82	114.84	122.59
1	Y	207	GLU	CB-CA-C	5.82	118.55	110.16
1	1	212	GLU	CA-C-O	5.82	126.65	120.36
1	3	560	HIS	CA-CB-CG	-5.82	107.98	113.80
1	6	552	THR	N-CA-C	5.82	117.30	111.07
1	g	166	ALA	O-C-N	-5.82	116.07	123.06
1	i	596	ILE	CA-C-N	5.82	128.08	120.28
1	i	596	ILE	C-N-CA	5.82	128.08	120.28
1	w	398	GLN	O-C-N	-5.82	116.07	122.07
1	w	502	GLU	N-CA-C	5.82	117.63	111.28
1	A	229	ILE	O-C-N	-5.82	115.29	122.57
1	D	470	GLN	N-CA-C	5.82	117.63	111.28
1	E	353	HIS	CB-CG-CD2	-5.82	123.63	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	202	ARG	N-CA-C	5.82	118.41	111.71
1	R	346	GLU	CA-C-N	5.82	128.44	120.46
1	R	346	GLU	C-N-CA	5.82	128.44	120.46
1	U	645	ILE	CA-C-O	-5.82	112.15	119.95
1	Y	470	GLN	CA-C-O	5.82	125.20	118.97
1	1	557	LYS	O-C-N	-5.82	115.95	122.12
1	3	351	GLN	CA-C-N	5.82	128.08	120.28
1	3	351	GLN	C-N-CA	5.82	128.08	120.28
1	3	449	ARG	NH1-CZ-NH2	-5.82	111.73	119.30
1	8	328	ARG	CA-C-N	5.82	127.11	120.53
1	8	328	ARG	C-N-CA	5.82	127.11	120.53
1	k	597	PHE	CA-CB-CG	5.82	119.62	113.80
1	l	630	LEU	N-CA-C	5.82	117.62	111.28
1	l	635	LEU	N-CA-CB	5.82	118.51	110.07
1	p	145	ARG	NH1-CZ-NH2	-5.82	111.73	119.30
1	u	665	MET	N-CA-C	5.82	117.62	111.28
1	G	474	ASN	O-C-N	-5.82	115.95	122.12
1	H	190	ILE	CA-CB-CG2	5.82	120.40	110.50
1	I	481	GLU	N-CA-C	5.82	118.09	111.11
1	O	576	GLN	CA-C-O	5.82	126.72	120.55
1	Q	676	SER	CB-CA-C	-5.82	99.49	110.67
1	R	348	THR	CA-C-O	5.82	126.54	119.38
1	V	302	GLY	CA-C-N	5.82	128.01	120.44
1	V	302	GLY	C-N-CA	5.82	128.01	120.44
1	Z	540	GLY	CA-C-N	5.82	132.33	122.26
1	Z	540	GLY	C-N-CA	5.82	132.33	122.26
1	8	399	LYS	N-CA-C	5.82	118.50	111.40
1	i	305	LYS	N-CA-C	5.82	117.62	111.28
1	A	106	SER	CA-C-N	5.82	128.35	120.38
1	A	106	SER	C-N-CA	5.82	128.35	120.38
1	L	673	ASN	CA-CB-CG	5.82	118.42	112.60
1	W	189	GLU	CA-C-N	5.82	128.43	120.46
1	W	189	GLU	C-N-CA	5.82	128.43	120.46
1	Z	695	ARG	NE-CZ-NH1	5.82	127.32	121.50
1	1	244	GLN	O-C-N	-5.82	115.41	122.22
1	7	576	GLN	OE1-CD-NE2	-5.82	116.78	122.60
1	8	239	ARG	CA-C-N	5.82	132.17	121.70
1	8	239	ARG	C-N-CA	5.82	132.17	121.70
1	a	109	ALA	CA-C-N	5.82	128.55	120.29
1	a	109	ALA	C-N-CA	5.82	128.55	120.29
1	a	488	ARG	N-CA-CB	5.82	118.61	109.94
1	j	509	ILE	O-C-N	-5.82	115.23	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	m	463	GLY	O-C-N	-5.82	116.61	122.19
1	s	393	ILE	CB-CA-C	-5.82	104.52	111.97
1	y	103	LEU	CA-C-N	5.82	128.01	120.56
1	y	103	LEU	C-N-CA	5.82	128.01	120.56
1	y	245	ILE	N-CA-C	5.82	116.00	110.53
1	B	375	THR	N-CA-CB	5.82	118.67	110.12
1	H	498	TYR	CA-CB-CG	-5.82	103.43	113.90
1	J	369	ARG	NH1-CZ-NH2	-5.82	111.74	119.30
1	K	689	ARG	O-C-N	-5.82	116.08	122.07
1	M	440	GLU	N-CA-C	5.82	119.69	112.59
1	Q	657	ASN	CA-CB-CG	5.82	118.42	112.60
1	U	435	LYS	CA-C-N	5.82	128.07	120.28
1	U	435	LYS	C-N-CA	5.82	128.07	120.28
1	V	535	ALA	N-CA-C	5.82	117.62	111.28
1	X	108	ARG	NE-CZ-NH2	-5.82	113.96	119.20
1	Y	387	PRO	CA-C-N	5.82	128.07	120.28
1	Y	387	PRO	C-N-CA	5.82	128.07	120.28
1	Z	198	ALA	N-CA-C	5.82	118.57	111.82
1	Z	378	LEU	CA-C-N	5.82	128.43	120.46
1	Z	378	LEU	C-N-CA	5.82	128.43	120.46
1	Z	588	VAL	O-C-N	-5.82	116.23	121.87
1	0	162	GLN	OE1-CD-NE2	-5.82	116.78	122.60
1	1	188	LYS	CA-C-O	5.82	126.91	120.80
1	6	220	ASP	CA-CB-CG	5.82	118.42	112.60
1	b	222	THR	CB-CA-C	-5.82	100.65	110.19
1	c	382	ILE	O-C-N	-5.82	116.23	121.87
1	e	182	ASP	CB-CA-C	5.82	119.00	109.46
1	e	427	LYS	N-CA-C	5.82	117.62	111.28
1	f	353	HIS	ND1-CE1-NE2	5.82	114.22	108.40
1	g	305	LYS	N-CA-C	5.82	118.40	111.71
1	h	419	MET	N-CA-C	5.82	118.37	111.33
1	o	581	GLN	O-C-N	-5.82	116.43	122.94
1	r	325	VAL	N-CA-C	5.82	116.44	107.78
1	T	437	VAL	CA-CB-CG2	-5.82	100.51	110.40
1	V	517	LEU	O-C-N	-5.82	115.52	122.15
1	0	405	ARG	CA-C-N	5.81	128.87	120.79
1	0	405	ARG	C-N-CA	5.81	128.87	120.79
1	a	412	PRO	CB-CA-C	5.81	121.15	111.56
1	d	464	ILE	CA-CB-CG1	-5.81	100.52	110.40
1	g	138	LEU	N-CA-C	5.81	117.42	111.14
1	m	589	LEU	CA-C-N	5.81	129.54	120.82
1	m	589	LEU	C-N-CA	5.81	129.54	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	y	662	GLN	CA-C-N	5.81	128.55	120.29
1	y	662	GLN	C-N-CA	5.81	128.55	120.29
1	S	185	GLN	N-CA-CB	-5.81	101.83	110.61
1	Y	363	GLY	CA-C-N	5.81	128.07	120.28
1	Y	363	GLY	C-N-CA	5.81	128.07	120.28
1	6	163	PRO	N-CA-C	-5.81	106.10	114.18
1	6	234	VAL	N-CA-CB	5.81	119.20	110.13
1	7	191	HIS	ND1-CE1-NE2	5.81	114.21	108.40
1	7	392	GLN	OE1-CD-NE2	5.81	128.41	122.60
1	b	577	MET	CA-C-O	5.81	127.89	121.56
1	c	513	VAL	N-CA-C	5.81	116.59	110.72
1	f	245	ILE	CA-C-N	5.81	128.07	120.28
1	f	245	ILE	C-N-CA	5.81	128.07	120.28
1	g	565	GLU	O-C-N	-5.81	116.08	122.07
1	n	236	ASN	CA-CB-CG	5.81	118.41	112.60
1	n	466	ALA	N-CA-C	5.81	117.70	111.36
1	n	477	HIS	N-CA-C	5.81	118.56	111.82
1	o	493	LEU	O-C-N	-5.81	114.86	122.59
1	s	659	ASP	CA-CB-CG	5.81	118.41	112.60
1	t	373	ARG	N-CA-C	5.81	117.29	111.07
1	y	631	ASN	CA-C-N	5.81	128.07	120.28
1	y	631	ASN	C-N-CA	5.81	128.07	120.28
1	B	385	SER	CA-C-O	-5.81	114.39	120.55
1	C	309	ASN	CA-CB-CG	-5.81	106.79	112.60
1	D	508	TYR	CA-CB-CG	5.81	124.36	113.90
1	D	584	ILE	CA-C-O	-5.81	112.55	119.58
1	G	558	VAL	CA-CB-CG1	5.81	120.28	110.40
1	a	234	VAL	CA-CB-CG1	5.81	120.28	110.40
1	m	369	ARG	CA-C-N	5.81	127.99	120.44
1	m	369	ARG	C-N-CA	5.81	127.99	120.44
1	p	375	THR	CA-C-O	5.81	127.12	120.90
1	p	482	LYS	CA-C-N	5.81	129.82	121.98
1	p	482	LYS	C-N-CA	5.81	129.82	121.98
1	p	626	ILE	CA-C-O	5.81	126.75	120.47
1	u	521	GLN	O-C-N	5.81	128.28	122.12
1	z	140	GLY	O-C-N	-5.81	115.15	122.70
1	D	509	ILE	O-C-N	-5.81	116.23	121.87
1	E	349	PHE	N-CA-C	5.81	118.11	111.02
1	H	587	VAL	CB-CA-C	-5.81	104.41	112.02
1	V	569	GLN	N-CA-C	5.81	119.47	112.38
1	5	237	GLN	N-CA-C	5.81	120.14	112.35
1	c	432	ASP	CA-C-N	5.81	127.88	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	432	ASP	C-N-CA	5.81	127.88	120.56
1	i	121	ILE	O-C-N	-5.81	117.04	123.20
1	m	651	TYR	O-C-N	-5.81	114.86	122.59
1	o	406	ARG	CA-CB-CG	-5.81	102.48	114.10
1	s	226	LEU	CA-C-O	-5.81	114.63	120.96
1	t	202	ARG	NE-CZ-NH1	5.81	127.31	121.50
1	u	650	GLN	OE1-CD-NE2	-5.81	116.79	122.60
1	w	560	HIS	CA-CB-CG	-5.81	107.99	113.80
1	w	702	ALA	CA-C-N	5.81	128.54	120.29
1	w	702	ALA	C-N-CA	5.81	128.54	120.29
1	A	557	LYS	N-CA-C	5.81	117.61	111.28
1	B	98	ARG	CA-C-O	-5.81	113.04	118.73
1	D	320	LYS	O-C-N	-5.81	114.93	122.37
1	D	424	GLU	CA-C-O	5.81	126.58	120.42
1	D	500	THR	CA-C-N	5.81	127.99	120.44
1	D	500	THR	C-N-CA	5.81	127.99	120.44
1	E	126	ASP	N-CA-C	5.81	116.22	108.38
1	K	335	ASN	CA-C-N	5.81	130.42	122.34
1	K	335	ASN	C-N-CA	5.81	130.42	122.34
1	R	202	ARG	NE-CZ-NH2	5.81	124.43	119.20
1	S	357	ARG	NH1-CZ-NH2	-5.81	111.75	119.30
1	3	677	TRP	CA-C-N	5.81	129.14	120.31
1	3	677	TRP	C-N-CA	5.81	129.14	120.31
1	e	542	PHE	CA-CB-CG	-5.81	107.99	113.80
1	g	644	GLN	O-C-N	5.81	128.77	122.15
1	q	296	PRO	CA-C-N	5.81	128.34	120.38
1	q	296	PRO	C-N-CA	5.81	128.34	120.38
1	t	288	ARG	NH1-CZ-NH2	-5.81	111.75	119.30
1	B	682	GLN	CA-C-N	5.81	132.15	121.70
1	B	682	GLN	C-N-CA	5.81	132.15	121.70
1	G	154	PRO	N-CA-CB	5.81	108.48	103.31
1	J	133	SER	CA-C-N	5.81	128.00	120.56
1	J	133	SER	C-N-CA	5.81	128.00	120.56
1	J	373	ARG	N-CA-CB	5.81	118.43	110.01
1	J	537	LYS	N-CA-CB	5.81	118.43	110.01
1	Z	449	ARG	N-CA-C	5.81	117.79	110.24
1	g	208	LEU	N-CA-C	5.81	118.75	110.10
1	t	582	ASP	CA-C-O	5.81	126.23	119.32
1	C	172	SER	O-C-N	-5.81	116.23	122.85
1	F	494	GLY	CA-C-N	5.81	132.15	121.70
1	F	494	GLY	C-N-CA	5.81	132.15	121.70
1	G	526	ILE	CA-CB-CG2	5.81	120.37	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	357	ARG	NE-CZ-NH2	-5.81	113.97	119.20
1	3	652	PHE	CB-CG-CD1	-5.80	110.83	120.70
1	5	236	ASN	CA-C-O	-5.80	114.30	120.92
1	c	339	LEU	CA-C-N	5.80	128.06	120.28
1	c	339	LEU	C-N-CA	5.80	128.06	120.28
1	f	149	ILE	N-CA-C	5.80	121.41	109.34
1	f	301	ARG	NE-CZ-NH1	5.80	127.31	121.50
1	i	552	THR	CB-CA-C	-5.80	101.15	110.79
1	n	487	TYR	CA-C-N	5.80	127.99	120.44
1	n	487	TYR	C-N-CA	5.80	127.99	120.44
1	o	392	GLN	N-CA-C	5.80	117.61	111.28
1	r	232	VAL	CB-CA-C	-5.80	104.95	111.45
1	r	268	VAL	N-CA-C	5.80	117.10	109.21
1	s	421	PHE	CB-CA-C	5.80	120.72	110.85
1	v	96	LYS	O-C-N	-5.80	114.58	122.19
1	w	444	ARG	O-C-N	-5.80	115.51	122.65
1	x	418	LYS	N-CA-CB	5.80	118.65	110.12
1	C	667	GLN	CG-CD-NE2	5.80	125.11	116.40
1	I	229	ILE	O-C-N	-5.80	115.31	122.57
1	I	313	ASN	CA-C-N	5.80	131.70	122.93
1	I	313	ASN	C-N-CA	5.80	131.70	122.93
1	U	529	GLN	CB-CA-C	-5.80	101.77	110.88
1	7	237	GLN	O-C-N	-5.80	115.80	120.38
1	e	394	ARG	NE-CZ-NH1	5.80	127.30	121.50
1	E	300	ASP	CA-CB-CG	5.80	118.40	112.60
1	G	202	ARG	NH1-CZ-NH2	-5.80	111.76	119.30
1	G	251	LYS	N-CA-C	5.80	117.61	111.28
1	T	451	TYR	N-CA-C	5.80	118.38	111.71
1	X	561	THR	O-C-N	-5.80	116.06	122.09
1	Z	506	HIS	CA-C-N	5.80	127.98	120.44
1	Z	506	HIS	C-N-CA	5.80	127.98	120.44
1	4	244	GLN	CA-C-N	5.80	127.99	120.56
1	4	244	GLN	C-N-CA	5.80	127.99	120.56
1	8	418	LYS	O-C-N	-5.80	116.09	122.07
1	8	634	PHE	CA-C-O	5.80	126.50	119.31
1	a	570	LEU	N-CA-C	5.80	117.60	111.28
1	b	644	GLN	N-CA-C	5.80	117.69	111.36
1	f	544	ASN	OD1-CG-ND2	-5.80	116.80	122.60
1	g	93	TYR	CB-CG-CD2	5.80	129.50	120.80
1	k	350	PHE	CB-CA-C	-5.80	101.73	110.90
1	l	276	LEU	N-CA-C	5.80	117.28	111.07
1	x	698	ARG	N-CA-C	5.80	117.68	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	412	PRO	CA-C-N	5.80	128.53	120.29
1	A	412	PRO	C-N-CA	5.80	128.53	120.29
1	A	495	PHE	N-CA-CB	5.80	120.36	110.50
1	E	455	ARG	N-CA-CB	5.80	118.65	110.12
1	H	162	GLN	CA-C-O	-5.80	115.16	120.50
1	J	108	ARG	O-C-N	-5.80	115.54	122.15
1	O	240	ASP	N-CA-CB	5.80	120.36	110.50
1	P	194	GLN	N-CA-C	5.80	117.60	111.28
1	Q	153	CYS	O-C-N	-5.80	117.31	121.83
1	Q	191	HIS	CA-C-N	5.80	127.98	120.44
1	Q	191	HIS	C-N-CA	5.80	127.98	120.44
1	U	331	GLN	OE1-CD-NE2	5.80	128.40	122.60
1	0	666	MET	CA-C-O	5.80	126.50	119.31
1	3	367	VAL	N-CA-C	5.80	121.41	108.88
1	3	474	ASN	CB-CG-ND2	-5.80	107.70	116.40
1	3	516	ALA	N-CA-CB	-5.80	101.29	110.28
1	6	483	TYR	CA-C-O	-5.80	114.69	120.90
1	6	705	ALA	CB-CA-C	5.80	119.98	110.88
1	a	547	GLN	OE1-CD-NE2	-5.80	116.80	122.60
1	e	683	SER	CA-C-N	5.80	127.98	120.44
1	e	683	SER	C-N-CA	5.80	127.98	120.44
1	f	507	GLN	N-CA-C	5.80	117.28	111.07
1	k	214	THR	CA-C-O	-5.80	114.56	121.11
1	k	698	ARG	NE-CZ-NH2	5.80	124.42	119.20
1	n	591	LYS	N-CA-C	5.80	118.35	111.33
1	o	472	VAL	CA-C-N	5.80	128.05	120.28
1	o	472	VAL	C-N-CA	5.80	128.05	120.28
1	r	405	ARG	CA-C-N	5.80	131.65	122.60
1	r	405	ARG	C-N-CA	5.80	131.65	122.60
1	v	239	ARG	CA-C-N	5.80	132.14	121.70
1	v	239	ARG	C-N-CA	5.80	132.14	121.70
1	v	703	ARG	CD-NE-CZ	-5.80	116.28	124.40
1	w	481	GLU	CA-C-N	5.80	128.05	120.28
1	w	481	GLU	C-N-CA	5.80	128.05	120.28
1	y	171	ILE	N-CA-CB	5.80	119.99	111.52
1	E	646	PRO	CA-C-N	5.80	128.33	120.38
1	E	646	PRO	C-N-CA	5.80	128.33	120.38
1	F	525	GLU	N-CA-C	5.80	118.07	111.11
1	G	143	LEU	CA-C-N	5.80	125.82	119.90
1	G	143	LEU	C-N-CA	5.80	125.82	119.90
1	M	355	TYR	CA-C-O	-5.80	114.69	120.90
1	S	206	HIS	CA-CB-CG	5.80	119.60	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	139	SER	CA-C-O	5.80	125.52	119.14
1	Y	235	ASP	CA-CB-CG	-5.80	106.80	112.60
1	6	194	GLN	OE1-CD-NE2	-5.80	116.80	122.60
1	8	415	GLU	N-CA-C	5.80	117.60	111.28
1	b	674	ARG	CA-C-N	5.80	128.37	120.54
1	b	674	ARG	C-N-CA	5.80	128.37	120.54
1	m	358	VAL	CA-C-N	5.80	127.98	120.44
1	m	358	VAL	C-N-CA	5.80	127.98	120.44
1	o	469	THR	O-C-N	-5.80	114.46	122.46
1	q	227	PRO	CA-C-N	5.80	127.71	122.20
1	q	227	PRO	C-N-CA	5.80	127.71	122.20
1	E	700	THR	CA-C-N	5.80	128.05	120.28
1	E	700	THR	C-N-CA	5.80	128.05	120.28
1	2	213	ILE	O-C-N	-5.80	117.06	123.20
1	9	106	SER	CA-C-O	5.80	126.91	120.82
1	9	363	GLY	N-CA-C	5.80	120.19	112.77
1	f	321	GLY	N-CA-C	5.80	126.92	113.18
1	l	531	PHE	N-CA-C	5.80	117.27	111.07
1	m	356	PHE	CA-CB-CG	5.80	119.60	113.80
1	o	501	PHE	CA-C-N	5.80	127.97	120.44
1	o	501	PHE	C-N-CA	5.80	127.97	120.44
1	p	673	ASN	CA-C-N	-5.80	113.51	122.49
1	p	673	ASN	C-N-CA	-5.80	113.51	122.49
1	z	677	TRP	CB-CG-CD2	-5.80	118.69	126.80
1	A	629	HIS	N-CA-CB	5.80	119.27	110.28
1	F	461	TRP	N-CA-C	5.80	118.34	111.33
1	L	568	ILE	N-CA-CB	5.80	116.94	110.51
1	N	145	ARG	NH1-CZ-NH2	-5.80	111.77	119.30
1	S	516	ALA	N-CA-CB	-5.80	101.29	110.22
1	Z	312	ARG	N-CA-C	5.80	119.88	112.34
1	8	593	ARG	CA-C-O	-5.79	114.73	120.82
1	e	334	THR	CA-C-O	5.79	127.10	120.90
1	g	182	ASP	CA-CB-CG	-5.79	106.81	112.60
1	m	590	LYS	O-C-N	-5.79	115.45	122.11
1	I	563	LYS	O-C-N	-5.79	115.83	122.09
1	L	108	ARG	N-CA-C	5.79	117.60	111.28
1	P	592	VAL	CA-C-N	5.79	127.97	120.44
1	P	592	VAL	C-N-CA	5.79	127.97	120.44
1	4	436	LEU	CA-C-N	5.79	128.40	120.46
1	4	436	LEU	C-N-CA	5.79	128.40	120.46
1	9	530	ALA	O-C-N	-5.79	115.98	122.12
1	c	437	VAL	CA-CB-CG1	5.79	120.25	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	122	ALA	CA-C-N	-5.79	115.63	122.93
1	e	122	ALA	C-N-CA	-5.79	115.63	122.93
1	e	567	MET	CG-SD-CE	-5.79	88.16	100.90
1	g	450	LEU	O-C-N	-5.79	115.98	122.12
1	i	494	GLY	CA-C-N	5.79	132.13	121.70
1	i	494	GLY	C-N-CA	5.79	132.13	121.70
1	k	350	PHE	N-CA-CB	5.79	118.47	110.07
1	t	431	GLN	N-CA-C	5.79	117.59	111.28
1	u	669	LEU	N-CA-C	5.79	117.59	111.28
1	v	164	CYS	CA-C-N	5.79	129.07	120.90
1	v	164	CYS	C-N-CA	5.79	129.07	120.90
1	v	335	ASN	N-CA-CB	5.79	118.81	110.06
1	w	570	LEU	CA-C-N	5.79	128.04	120.28
1	w	570	LEU	C-N-CA	5.79	128.04	120.28
1	B	297	ASP	CA-CB-CG	5.79	118.39	112.60
1	F	541	GLU	N-CA-CB	5.79	118.64	110.12
1	I	657	ASN	OD1-CG-ND2	5.79	128.39	122.60
1	O	171	ILE	O-C-N	-5.79	117.41	123.03
1	O	357	ARG	N-CA-CB	5.79	118.41	110.01
1	O	651	TYR	N-CA-C	5.79	118.06	111.11
1	P	503	ILE	N-CA-C	5.79	115.98	110.42
1	Q	586	SER	O-C-N	5.79	128.26	122.12
1	Q	656	GLU	CA-C-N	5.79	127.97	120.44
1	Q	656	GLU	C-N-CA	5.79	127.97	120.44
1	U	514	GLU	CA-C-N	5.79	127.08	119.84
1	U	514	GLU	C-N-CA	5.79	127.08	119.84
1	Y	523	ALA	N-CA-C	5.79	117.27	111.07
1	3	280	HIS	CE1-NE2-CD2	-5.79	103.21	109.00
1	n	213	ILE	CA-C-O	5.79	126.47	120.39
1	q	454	ILE	O-C-N	-5.79	115.86	121.83
1	u	226	LEU	CA-C-N	5.79	127.08	119.84
1	u	226	LEU	C-N-CA	5.79	127.08	119.84
1	u	249	ILE	CA-C-N	5.79	128.62	120.28
1	u	249	ILE	C-N-CA	5.79	128.62	120.28
1	x	650	GLN	CA-C-O	5.79	126.90	120.82
1	y	208	LEU	N-CA-C	5.79	118.63	110.23
1	N	165	GLU	CA-C-O	5.79	128.79	120.51
1	U	110	LEU	O-C-N	5.79	128.34	122.09
1	U	311	VAL	N-CA-C	5.79	116.53	110.62
1	Z	500	THR	N-CA-C	5.79	117.59	111.28
1	1	436	LEU	N-CA-C	5.79	117.59	111.28
1	2	710	SER	N-CA-C	-5.79	105.88	113.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	449	ARG	O-C-N	-5.79	115.97	122.75
1	5	385	SER	N-CA-C	5.79	120.07	112.89
1	6	216	PRO	N-CD-CG	5.79	111.88	103.20
1	g	461	TRP	CA-C-N	5.79	132.39	121.97
1	g	461	TRP	C-N-CA	5.79	132.39	121.97
1	k	412	PRO	CA-C-N	5.79	128.04	120.28
1	k	412	PRO	C-N-CA	5.79	128.04	120.28
1	q	528	GLN	CA-C-N	5.79	128.04	120.28
1	q	528	GLN	C-N-CA	5.79	128.04	120.28
1	x	159	LEU	O-C-N	-5.79	116.62	123.22
1	A	313	ASN	CA-C-N	5.79	130.87	122.36
1	A	313	ASN	C-N-CA	5.79	130.87	122.36
1	A	408	GLY	N-CA-C	5.79	121.75	111.73
1	Y	514	GLU	N-CA-C	5.79	120.62	112.75
1	Z	645	ILE	CA-C-O	-5.79	114.81	118.69
1	2	522	LYS	CB-CA-C	5.79	120.40	110.79
1	3	311	VAL	CA-CB-CG1	5.79	120.24	110.40
1	3	451	TYR	N-CA-C	5.79	117.59	111.28
1	6	468	ASN	CA-CB-CG	-5.79	106.81	112.60
1	7	344	LYS	CA-C-N	5.79	128.51	120.29
1	7	344	LYS	C-N-CA	5.79	128.51	120.29
1	m	503	ILE	CA-CB-CG2	5.79	120.34	110.50
1	o	675	TYR	N-CA-CB	5.79	119.56	109.72
1	x	507	GLN	CA-C-N	5.79	127.96	120.44
1	x	507	GLN	C-N-CA	5.79	127.96	120.44
1	H	643	ASN	CA-C-N	5.79	128.31	120.44
1	H	643	ASN	C-N-CA	5.79	128.31	120.44
1	J	703	ARG	CA-C-N	5.79	128.62	120.28
1	J	703	ARG	C-N-CA	5.79	128.62	120.28
1	L	509	ILE	N-CA-C	5.79	116.52	110.62
1	W	676	SER	N-CA-CB	5.79	118.47	110.07
1	1	394	ARG	NE-CZ-NH1	-5.79	115.71	121.50
1	1	486	GLN	CA-C-N	5.79	128.31	120.38
1	1	486	GLN	C-N-CA	5.79	128.31	120.38
1	7	560	HIS	CA-CB-CG	-5.79	108.01	113.80
1	d	182	ASP	CA-CB-CG	5.79	118.39	112.60
1	o	194	GLN	CA-C-O	5.79	126.90	120.82
1	r	191	HIS	CB-CG-CD2	-5.79	123.68	131.20
1	t	709	PHE	CA-CB-CG	5.79	119.59	113.80
1	B	656	GLU	N-CA-C	5.79	118.53	111.82
1	C	660	SER	O-C-N	-5.79	115.45	122.22
1	U	638	SER	CA-C-O	-5.79	114.74	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7	390	GLU	CA-C-O	-5.79	114.29	120.42
1	a	342	ALA	N-CA-CB	-5.79	101.68	110.07
1	a	627	GLY	CA-C-O	-5.79	114.75	121.00
1	e	390	GLU	O-C-N	-5.79	116.11	122.07
1	x	596	ILE	N-CA-C	5.79	116.54	111.56
1	y	482	LYS	CA-C-N	5.79	128.31	120.44
1	y	482	LYS	C-N-CA	5.79	128.31	120.44
1	y	517	LEU	CA-C-N	5.79	128.51	120.29
1	y	517	LEU	C-N-CA	5.79	128.51	120.29
1	z	125	GLY	CA-C-N	5.79	130.02	120.94
1	z	125	GLY	C-N-CA	5.79	130.02	120.94
1	C	573	ARG	CA-C-O	5.79	126.62	119.97
1	F	394	ARG	NE-CZ-NH1	-5.79	115.72	121.50
1	G	452	ASN	O-C-N	-5.79	115.99	122.12
1	V	431	GLN	CB-CA-C	-5.79	101.02	110.85
1	Z	351	GLN	N-CA-C	5.79	117.59	111.28
1	2	404	LEU	N-CA-C	5.78	117.58	111.28
1	7	127	GLN	OE1-CD-NE2	-5.78	116.82	122.60
1	7	213	ILE	CB-CA-C	-5.78	102.52	110.96
1	9	306	SER	N-CA-C	5.78	117.67	111.36
1	d	343	THR	CA-C-O	5.78	126.89	120.82
1	d	590	LYS	N-CA-C	5.78	118.05	111.11
1	k	513	VAL	O-C-N	-5.78	115.89	121.90
1	n	126	ASP	N-CA-CB	5.78	118.56	109.83
1	n	547	GLN	CA-C-O	5.78	126.55	120.42
1	v	535	ALA	N-CA-C	5.78	117.58	111.28
1	y	629	HIS	CE1-NE2-CD2	-5.78	103.22	109.00
1	I	99	PRO	CA-C-N	5.78	128.03	120.28
1	I	99	PRO	C-N-CA	5.78	128.03	120.28
1	I	254	GLN	N-CA-C	-5.78	105.72	112.89
1	M	213	ILE	N-CA-CB	5.78	117.93	110.99
1	U	545	LEU	CB-CA-C	5.78	120.68	110.85
1	V	517	LEU	N-CA-CB	5.78	118.72	110.16
1	b	221	LEU	O-C-N	-5.78	116.55	123.31
1	n	231	ARG	N-CA-CB	5.78	120.26	110.49
1	A	525	GLU	CA-C-N	5.78	127.85	120.56
1	A	525	GLU	C-N-CA	5.78	127.85	120.56
1	P	689	ARG	CD-NE-CZ	5.78	132.50	124.40
1	T	394	ARG	NE-CZ-NH2	-5.78	114.00	119.20
1	X	231	ARG	NE-CZ-NH1	5.78	127.28	121.50
1	1	448	THR	CA-C-O	-5.78	115.05	121.23
1	7	506	HIS	CB-CG-CD2	-5.78	123.69	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7	680	GLN	OE1-CD-NE2	-5.78	116.82	122.60
1	7	696	ILE	CA-C-O	-5.78	115.26	121.27
1	a	676	SER	N-CA-C	5.78	117.66	111.36
1	b	409	ALA	CA-C-N	5.78	132.10	121.70
1	b	409	ALA	C-N-CA	5.78	132.10	121.70
1	d	572	PHE	O-C-N	-5.78	115.56	122.15
1	e	558	VAL	CA-C-N	5.78	128.03	120.28
1	e	558	VAL	C-N-CA	5.78	128.03	120.28
1	g	381	HIS	CE1-NE2-CD2	-5.78	103.22	109.00
1	h	111	GLY	CA-C-N	5.78	132.11	121.70
1	h	111	GLY	C-N-CA	5.78	132.11	121.70
1	i	400	ALA	N-CA-C	5.78	119.15	111.75
1	u	132	SER	N-CA-C	5.78	118.36	111.71
1	v	182	ASP	CA-C-N	5.78	125.88	119.87
1	v	182	ASP	C-N-CA	5.78	125.88	119.87
1	y	516	ALA	CA-C-N	5.78	129.10	120.31
1	y	516	ALA	C-N-CA	5.78	129.10	120.31
1	A	455	ARG	NE-CZ-NH2	5.78	124.40	119.20
1	A	640	ARG	NE-CZ-NH2	5.78	124.40	119.20
1	I	310	VAL	N-CA-C	5.78	116.52	110.62
1	J	336	ARG	NE-CZ-NH1	5.78	127.28	121.50
1	L	468	ASN	CA-CB-CG	5.78	118.38	112.60
1	M	579	PHE	CA-CB-CG	5.78	119.58	113.80
1	N	235	ASP	N-CA-C	5.78	118.05	111.11
1	R	166	ALA	N-CA-C	5.78	118.65	110.50
1	V	305	LYS	CA-C-N	5.78	128.30	120.44
1	V	305	LYS	C-N-CA	5.78	128.30	120.44
1	X	340	ALA	CA-C-N	5.78	127.95	120.44
1	X	340	ALA	C-N-CA	5.78	127.95	120.44
1	3	114	GLN	OE1-CD-NE2	-5.78	116.82	122.60
1	a	495	PHE	O-C-N	-5.78	113.75	123.00
1	m	196	VAL	N-CA-C	5.78	116.51	110.62
1	n	235	ASP	CA-CB-CG	5.78	118.38	112.60
1	x	538	HIS	CA-C-O	5.78	126.65	120.70
1	A	173	TYR	CA-C-N	5.78	132.50	122.56
1	A	173	TYR	C-N-CA	5.78	132.50	122.56
1	C	640	ARG	CB-CA-C	-5.78	99.13	109.24
1	0	376	THR	CA-C-O	5.78	126.67	120.55
1	0	695	ARG	NE-CZ-NH1	-5.78	115.72	121.50
1	3	98	ARG	O-C-N	-5.78	115.34	120.48
1	4	95	GLN	CA-C-O	5.78	126.03	119.27
1	9	237	GLN	CA-C-N	-5.78	114.65	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	9	237	GLN	C-N-CA	-5.78	114.65	120.31
1	c	106	SER	CA-C-O	-5.78	114.42	120.55
1	d	576	GLN	N-CA-CB	5.78	118.61	110.12
1	e	196	VAL	CB-CA-C	-5.78	104.34	112.14
1	i	337	LEU	CA-C-O	-5.78	114.83	121.19
1	j	685	THR	N-CA-C	5.78	117.25	111.07
1	k	576	GLN	O-C-N	-5.78	116.08	122.09
1	l	336	ARG	CD-NE-CZ	5.78	132.49	124.40
1	m	158	LYS	CA-C-O	-5.78	114.53	120.54
1	o	150	VAL	CA-C-N	5.78	128.91	120.71
1	o	150	VAL	C-N-CA	5.78	128.91	120.71
1	v	357	ARG	N-CA-C	5.78	120.84	111.37
1	v	671	GLU	CA-C-O	5.78	126.68	120.32
1	A	288	ARG	NE-CZ-NH1	5.78	127.28	121.50
1	B	381	HIS	CA-C-O	-5.78	114.43	120.55
1	B	570	LEU	N-CA-C	5.78	117.58	111.28
1	D	424	GLU	N-CA-C	5.78	117.66	111.36
1	N	317	PRO	N-CA-C	5.78	120.28	111.15
1	Q	375	THR	O-C-N	-5.78	116.08	122.09
1	R	247	ALA	CA-C-O	5.78	126.65	120.70
1	R	526	ILE	N-CA-C	5.78	115.85	110.42
1	T	473	LYS	N-CA-C	5.78	117.58	111.28
1	T	494	GLY	CA-C-N	5.78	132.10	121.70
1	T	494	GLY	C-N-CA	5.78	132.10	121.70
1	V	348	THR	N-CA-C	5.78	118.04	111.11
1	W	186	VAL	CA-C-O	-5.78	115.05	121.17
1	4	479	GLU	CB-CG-CD	5.78	122.42	112.60
1	e	682	GLN	OE1-CD-NE2	-5.78	116.82	122.60
1	h	200	ASN	OD1-CG-ND2	-5.78	116.83	122.60
1	t	679	LEU	O-C-N	-5.78	114.98	122.37
1	w	517	LEU	O-C-N	-5.78	115.46	122.22
1	K	546	ASN	CA-CB-CG	-5.78	106.83	112.60
1	L	644	GLN	CA-C-O	-5.78	114.94	121.00
1	M	698	ARG	O-C-N	-5.78	115.57	122.15
1	O	459	LYS	N-CA-C	5.78	117.57	111.28
1	Q	378	LEU	CA-C-O	-5.78	114.75	120.70
1	Q	557	LYS	CA-C-O	5.78	126.61	119.97
1	R	366	THR	CA-C-N	5.78	132.81	122.13
1	R	366	THR	C-N-CA	5.78	132.81	122.13
1	V	433	ILE	CA-CB-CG1	5.78	120.22	110.40
1	Y	380	MET	N-CA-C	5.78	118.32	111.33
1	9	657	ASN	N-CA-CB	-5.77	101.61	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	i	577	MET	CA-C-O	5.77	126.76	120.58
1	n	266	CYS	N-CA-C	5.77	117.57	111.28
1	s	559	LYS	N-CA-CB	-5.77	101.63	110.12
1	A	541	GLU	N-CA-C	5.77	117.57	111.28
1	K	152	ARG	O-C-N	-5.77	115.57	122.27
1	L	241	ILE	CA-C-N	5.77	126.35	120.00
1	L	241	ILE	C-N-CA	5.77	126.35	120.00
1	U	641	LEU	N-CA-CB	5.77	118.61	110.12
1	X	394	ARG	CA-C-O	-5.77	113.58	120.10
1	1	250	LYS	CA-C-N	5.77	128.59	120.28
1	1	250	LYS	C-N-CA	5.77	128.59	120.28
1	5	465	LEU	N-CA-C	5.77	118.04	111.11
1	6	235	ASP	CA-CB-CG	-5.77	106.83	112.60
1	9	256	GLN	OE1-CD-NE2	-5.77	116.83	122.60
1	9	576	GLN	CA-C-O	5.77	126.67	120.55
1	b	560	HIS	CA-C-N	5.77	128.02	120.28
1	b	560	HIS	C-N-CA	5.77	128.02	120.28
1	g	199	GLY	O-C-N	-5.77	117.32	122.57
1	i	632	ALA	O-C-N	-5.77	115.17	122.27
1	p	409	ALA	CA-C-O	5.77	128.76	120.51
1	r	240	ASP	CA-C-N	5.77	129.59	120.47
1	r	240	ASP	C-N-CA	5.77	129.59	120.47
1	C	116	LEU	N-CA-CB	5.77	118.61	110.36
1	D	554	GLU	N-CA-C	-5.77	104.89	111.07
1	J	670	GLN	CA-C-O	5.77	126.19	119.32
1	N	573	ARG	CA-C-O	-5.77	114.30	120.42
1	S	248	LEU	CA-C-N	5.77	128.05	120.60
1	S	248	LEU	C-N-CA	5.77	128.05	120.60
1	T	163	PRO	CA-C-N	5.77	129.56	121.02
1	T	163	PRO	C-N-CA	5.77	129.56	121.02
1	Y	93	TYR	CB-CA-C	5.77	121.07	110.10
1	Y	454	ILE	CA-C-O	5.77	126.70	120.47
1	1	658	GLY	N-CA-C	5.77	119.62	112.64
1	8	454	ILE	CA-C-N	5.77	128.49	120.29
1	8	454	ILE	C-N-CA	5.77	128.49	120.29
1	d	235	ASP	CB-CA-C	5.77	120.37	110.79
1	d	662	GLN	N-CA-C	5.77	117.65	111.36
1	f	262	VAL	N-CA-CB	5.77	117.96	111.21
1	l	597	PHE	CA-CB-CG	-5.77	108.03	113.80
1	p	364	SER	N-CA-C	5.77	120.44	113.17
1	H	645	ILE	CA-C-N	5.77	125.24	119.24
1	H	645	ILE	C-N-CA	5.77	125.24	119.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	357	ARG	O-C-N	-5.77	115.86	122.09
1	O	552	THR	O-C-N	-5.77	116.00	122.12
1	Y	300	ASP	CA-C-N	5.77	131.91	121.06
1	Y	300	ASP	C-N-CA	5.77	131.91	121.06
1	Y	455	ARG	NE-CZ-NH1	5.77	127.27	121.50
1	6	629	HIS	CE1-NE2-CD2	-5.77	103.23	109.00
1	a	106	SER	O-C-N	-5.77	116.13	122.07
1	b	398	GLN	OE1-CD-NE2	-5.77	116.83	122.60
1	j	334	THR	CA-CB-OG1	5.77	118.26	109.60
1	l	444	ARG	NE-CZ-NH2	-5.77	114.01	119.20
1	n	234	VAL	O-C-N	-5.77	116.41	122.81
1	o	497	ASN	CA-C-N	5.77	128.59	120.28
1	o	497	ASN	C-N-CA	5.77	128.59	120.28
1	v	162	GLN	N-CA-C	-5.77	101.56	108.25
1	v	462	VAL	CA-C-N	5.77	126.35	120.00
1	v	462	VAL	C-N-CA	5.77	126.35	120.00
1	w	377	GLU	N-CA-C	5.77	117.57	111.28
1	A	359	LEU	CA-C-N	5.77	128.48	120.29
1	A	359	LEU	C-N-CA	5.77	128.48	120.29
1	A	696	ILE	O-C-N	-5.77	116.24	121.89
1	D	555	ASP	CA-CB-CG	5.77	118.37	112.60
1	I	250	LYS	N-CA-C	5.77	120.89	111.37
1	N	422	LEU	O-C-N	-5.77	116.13	122.07
1	P	685	THR	CA-C-O	5.77	126.67	120.55
1	S	108	ARG	NE-CZ-NH2	5.77	124.39	119.20
1	V	130	GLY	CA-C-N	5.77	132.56	121.54
1	V	130	GLY	C-N-CA	5.77	132.56	121.54
1	X	507	GLN	N-CA-C	5.77	117.24	111.07
1	0	165	GLU	O-C-N	-5.77	115.93	122.97
1	1	547	GLN	O-C-N	5.77	128.23	122.12
1	9	343	THR	O-C-N	-5.77	116.01	122.12
1	a	681	GLU	O-C-N	-5.77	116.58	123.27
1	c	239	ARG	O-C-N	-5.77	115.78	122.87
1	f	521	GLN	O-C-N	-5.77	115.86	122.09
1	g	240	ASP	N-CA-CB	5.77	120.31	110.50
1	n	561	THR	CA-C-O	5.77	126.88	120.82
1	o	231	ARG	NE-CZ-NH1	5.77	127.27	121.50
1	s	562	ALA	N-CA-C	5.77	117.24	111.07
1	t	689	ARG	NH1-CZ-NH2	-5.77	111.80	119.30
1	v	437	VAL	O-C-N	-5.77	116.28	121.87
1	w	171	ILE	O-C-N	-5.77	117.09	123.20
1	E	95	GLN	N-CA-C	-5.77	104.99	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	555	ASP	CA-C-N	5.77	127.83	120.56
1	K	555	ASP	C-N-CA	5.77	127.83	120.56
1	L	304	GLU	CA-C-O	5.77	126.88	120.82
1	M	206	HIS	N-CA-C	-5.77	104.81	112.94
1	Z	397	HIS	CB-CG-ND1	5.77	131.35	122.70
1	5	694	GLU	CA-C-N	5.77	128.01	120.28
1	5	694	GLU	C-N-CA	5.77	128.01	120.28
1	b	249	ILE	CA-C-N	5.77	128.01	120.28
1	b	249	ILE	C-N-CA	5.77	128.01	120.28
1	h	633	TYR	CB-CG-CD1	-5.77	112.15	120.80
1	r	561	THR	N-CA-CB	5.77	118.58	109.82
1	v	543	PHE	CA-C-N	5.77	127.94	120.44
1	v	543	PHE	C-N-CA	5.77	127.94	120.44
1	w	420	PHE	CA-C-N	5.77	127.94	120.44
1	w	420	PHE	C-N-CA	5.77	127.94	120.44
1	V	591	LYS	O-C-N	-5.77	116.09	122.09
1	2	116	LEU	CA-C-N	5.76	127.93	120.44
1	2	116	LEU	C-N-CA	5.76	127.93	120.44
1	3	238	PRO	N-CA-C	5.76	120.28	111.34
1	c	571	GLN	N-CA-C	5.76	117.56	111.28
1	f	688	LYS	CA-C-N	5.76	128.32	120.54
1	f	688	LYS	C-N-CA	5.76	128.32	120.54
1	h	546	ASN	CA-CB-CG	5.76	118.36	112.60
1	l	406	ARG	CG-CD-NE	-5.76	99.32	112.00
1	F	477	HIS	O-C-N	-5.76	115.58	122.15
1	G	204	ILE	O-C-N	-5.76	117.58	122.65
1	G	381	HIS	O-C-N	-5.76	115.58	122.15
1	H	349	PHE	O-C-N	-5.76	116.09	122.09
1	H	684	GLU	CA-C-N	5.76	128.58	120.28
1	H	684	GLU	C-N-CA	5.76	128.58	120.28
1	I	659	ASP	CA-CB-CG	-5.76	106.83	112.60
1	K	155	LEU	O-C-N	-5.76	115.51	123.12
1	M	297	ASP	N-CA-C	5.76	118.30	111.33
1	M	629	HIS	CE1-NE2-CD2	-5.76	103.24	109.00
1	O	668	ILE	CA-C-N	5.76	128.28	120.38
1	O	668	ILE	C-N-CA	5.76	128.28	120.38
1	R	319	LYS	O-C-N	-5.76	115.26	122.35
1	8	101	ILE	N-CA-CB	5.76	117.29	110.55
1	9	577	MET	N-CA-C	5.76	119.07	108.58
1	f	419	MET	CA-CB-CG	5.76	125.62	114.10
1	v	180	LEU	CA-C-N	5.76	132.55	121.54
1	v	180	LEU	C-N-CA	5.76	132.55	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	333	ILE	O-C-N	-5.76	116.26	121.91
1	x	153	CYS	CA-C-O	-5.76	113.26	120.23
1	B	229	ILE	CA-CB-CG2	5.76	120.30	110.50
1	C	465	LEU	N-CA-C	5.76	117.24	111.07
1	E	314	LEU	N-CA-CB	5.76	120.23	110.49
1	J	498	TYR	CB-CG-CD2	-5.76	112.16	120.80
1	N	251	LYS	CA-C-N	5.76	129.07	120.31
1	N	251	LYS	C-N-CA	5.76	129.07	120.31
1	R	501	PHE	CB-CG-CD1	-5.76	110.90	120.70
1	5	375	THR	CA-C-O	-5.76	114.44	120.55
1	8	152	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	a	176	THR	CA-CB-CG2	5.76	120.29	110.50
1	b	398	GLN	N-CA-C	5.76	117.56	111.28
1	f	538	HIS	CA-CB-CG	-5.76	108.04	113.80
1	i	327	CYS	CA-C-N	5.76	132.55	121.54
1	i	327	CYS	C-N-CA	5.76	132.55	121.54
1	m	402	GLU	CA-C-N	5.76	128.00	120.28
1	m	402	GLU	C-N-CA	5.76	128.00	120.28
1	q	321	GLY	N-CA-C	5.76	126.83	113.18
1	q	579	PHE	N-CA-C	-5.76	99.94	108.99
1	u	563	LYS	CA-C-N	5.76	127.93	120.44
1	u	563	LYS	C-N-CA	5.76	127.93	120.44
1	B	339	LEU	CA-C-N	5.76	127.93	120.44
1	B	339	LEU	C-N-CA	5.76	127.93	120.44
1	C	335	ASN	OD1-CG-ND2	-5.76	116.84	122.60
1	G	181	GLN	OE1-CD-NE2	5.76	128.36	122.60
1	J	243	LEU	CA-C-O	5.76	126.60	119.97
1	K	689	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	L	357	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	R	370	LEU	CA-C-N	5.76	128.47	120.29
1	R	370	LEU	C-N-CA	5.76	128.47	120.29
1	T	433	ILE	N-CA-CB	5.76	118.38	110.54
1	T	516	ALA	CB-CA-C	-5.76	101.83	110.88
1	U	155	LEU	CA-C-O	5.76	126.58	120.36
1	W	424	GLU	O-C-N	5.76	128.23	122.12
1	2	501	PHE	CA-C-N	5.76	127.93	120.44
1	2	501	PHE	C-N-CA	5.76	127.93	120.44
1	5	573	ARG	O-C-N	-5.76	116.14	122.07
1	8	169	GLY	CA-C-O	-5.76	115.95	121.19
1	a	336	ARG	NH1-CZ-NH2	-5.76	111.81	119.30
1	a	695	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	o	355	TYR	N-CA-C	5.76	117.56	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	s	353	HIS	ND1-CE1-NE2	5.76	114.16	108.40
1	t	493	LEU	N-CA-CB	5.76	120.22	110.49
1	D	436	LEU	CA-C-O	-5.76	114.77	120.82
1	E	192	LYS	N-CA-C	5.76	118.30	111.33
1	E	316	TYR	N-CA-C	5.76	116.96	109.64
1	H	528	GLN	CA-C-O	5.76	126.66	120.55
1	N	506	HIS	CA-C-N	5.76	128.31	120.54
1	N	506	HIS	C-N-CA	5.76	128.31	120.54
1	N	556	ILE	O-C-N	5.76	127.76	121.83
1	U	120	ALA	CB-CA-C	-5.76	100.75	110.43
1	U	463	GLY	CA-C-N	5.76	128.60	120.42
1	U	463	GLY	C-N-CA	5.76	128.60	120.42
1	V	215	SER	CB-CA-C	-5.76	98.83	110.17
1	V	386	LEU	N-CA-C	5.76	121.46	113.45
1	Y	446	ASN	OD1-CG-ND2	-5.76	116.84	122.60
1	f	488	ARG	CA-C-N	5.76	127.38	120.13
1	f	488	ARG	C-N-CA	5.76	127.38	120.13
1	u	386	LEU	O-C-N	-5.76	115.16	120.51
1	y	273	THR	N-CA-CB	5.76	118.53	109.83
1	E	701	GLN	O-C-N	-5.76	116.02	122.12
1	F	206	HIS	CE1-NE2-CD2	-5.76	103.24	109.00
1	F	214	THR	CA-C-O	5.76	126.34	120.24
1	9	638	SER	CA-CB-OG	5.76	122.61	111.10
1	e	227	PRO	N-CA-C	5.76	120.64	111.26
1	e	367	VAL	CA-C-N	5.76	127.04	119.84
1	e	367	VAL	C-N-CA	5.76	127.04	119.84
1	m	235	ASP	O-C-N	-5.76	114.94	122.59
1	q	690	ARG	NE-CZ-NH2	5.76	124.38	119.20
1	u	100	CYS	CA-C-N	5.76	128.35	120.46
1	u	100	CYS	C-N-CA	5.76	128.35	120.46
1	x	648	ILE	O-C-N	-5.76	116.18	121.94
1	A	275	ALA	N-CA-C	5.76	117.55	111.28
1	E	228	GLY	O-C-N	5.76	128.83	122.96
1	E	528	GLN	OE1-CD-NE2	-5.76	116.84	122.60
1	F	255	ARG	O-C-N	-5.76	115.81	122.95
1	H	208	LEU	N-CA-C	5.76	118.28	108.90
1	O	305	LYS	N-CA-C	5.76	118.02	111.11
1	S	106	SER	N-CA-C	5.76	117.63	111.36
1	3	488	ARG	CB-CG-CD	5.75	124.54	111.30
1	d	278	MET	N-CA-C	5.75	117.55	111.28
1	j	562	ALA	O-C-N	-5.75	115.59	122.15
1	A	509	ILE	CA-C-O	5.75	126.94	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	557	LYS	O-C-N	-5.75	116.14	122.07
1	L	359	LEU	N-CA-C	5.75	117.23	111.07
1	8	553	ILE	CA-C-N	5.75	127.99	120.28
1	8	553	ILE	C-N-CA	5.75	127.99	120.28
1	d	230	THR	OG1-CB-CG2	-5.75	97.80	109.30
1	e	488	ARG	CA-C-O	-5.75	114.42	120.63
1	g	417	ASP	CA-C-N	5.75	128.25	120.65
1	g	417	ASP	C-N-CA	5.75	128.25	120.65
1	i	495	PHE	CA-CB-CG	-5.75	108.05	113.80
1	j	626	ILE	O-C-N	5.75	127.55	121.91
1	k	704	HIS	ND1-CE1-NE2	5.75	114.15	108.40
1	m	692	LEU	CA-C-O	-5.75	114.78	120.82
1	o	519	MET	O-C-N	-5.75	115.19	122.27
1	v	165	GLU	CA-C-N	5.75	129.01	120.90
1	v	165	GLU	C-N-CA	5.75	129.01	120.90
1	y	533	ASN	CA-CB-CG	5.75	118.35	112.60
1	z	470	GLN	CA-C-O	5.75	126.86	120.82
1	B	703	ARG	NE-CZ-NH2	5.75	124.38	119.20
1	H	688	LYS	N-CA-C	5.75	117.55	111.28
1	I	200	ASN	CA-C-N	5.75	131.17	120.87
1	I	200	ASN	C-N-CA	5.75	131.17	120.87
1	I	386	LEU	O-C-N	-5.75	115.08	120.55
1	N	98	ARG	NE-CZ-NH1	5.75	127.25	121.50
1	T	148	GLY	N-CA-C	-5.75	106.22	115.08
1	T	345	LYS	N-CA-C	5.75	117.55	111.28
1	Y	178	LEU	CA-C-O	5.75	126.46	120.30
1	Z	235	ASP	CA-CB-CG	5.75	118.35	112.60
1	6	390	GLU	CA-C-N	5.75	126.49	119.99
1	6	390	GLU	C-N-CA	5.75	126.49	119.99
1	8	215	SER	CA-C-N	5.75	125.37	119.56
1	8	215	SER	C-N-CA	5.75	125.37	119.56
1	9	166	ALA	N-CA-C	5.75	118.69	110.24
1	a	128	SER	CA-C-N	5.75	127.92	120.44
1	a	128	SER	C-N-CA	5.75	127.92	120.44
1	f	629	HIS	CE1-NE2-CD2	-5.75	103.25	109.00
1	h	353	HIS	CE1-NE2-CD2	-5.75	103.25	109.00
1	l	132	SER	CA-CB-OG	5.75	122.61	111.10
1	o	571	GLN	CA-C-N	5.75	127.99	120.28
1	o	571	GLN	C-N-CA	5.75	127.99	120.28
1	v	546	ASN	OD1-CG-ND2	-5.75	116.85	122.60
1	y	541	GLU	CB-CG-CD	5.75	122.38	112.60
1	F	153	CYS	CA-C-O	-5.75	113.14	120.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	477	HIS	ND1-CE1-NE2	5.75	114.15	108.40
1	M	586	SER	CA-CB-OG	5.75	122.60	111.10
1	P	394	ARG	NE-CZ-NH1	5.75	127.25	121.50
1	P	405	ARG	CB-CG-CD	5.75	124.53	111.30
1	S	543	PHE	N-CA-C	5.75	120.80	111.37
1	U	393	ILE	CA-C-O	-5.75	114.75	120.85
1	g	286	GLY	N-CA-C	-5.75	107.04	115.72
1	r	300	ASP	N-CA-CB	-5.75	102.75	111.15
1	s	538	HIS	CE1-NE2-CD2	-5.75	103.25	109.00
1	S	514	GLU	N-CA-C	5.75	120.06	112.35
1	0	201	GLY	N-CA-C	-5.75	106.23	115.08
1	5	470	GLN	N-CA-C	5.75	117.63	111.36
1	9	328	ARG	NH1-CZ-NH2	-5.75	111.83	119.30
1	d	279	ALA	N-CA-C	5.75	117.35	111.14
1	e	386	LEU	CA-C-N	5.75	125.11	118.85
1	e	386	LEU	C-N-CA	5.75	125.11	118.85
1	f	266	CYS	O-C-N	-5.75	116.03	122.12
1	p	498	TYR	CA-C-N	5.75	127.91	120.44
1	p	498	TYR	C-N-CA	5.75	127.91	120.44
1	r	629	HIS	CE1-NE2-CD2	-5.75	103.25	109.00
1	v	576	GLN	N-CA-CB	5.75	118.51	109.94
1	x	166	ALA	N-CA-C	5.75	118.34	110.24
1	z	279	ALA	N-CA-C	5.75	118.49	111.82
1	H	455	ARG	NH1-CZ-NH2	-5.75	111.83	119.30
1	W	195	ASN	N-CA-C	5.75	117.55	111.28
1	Y	273	THR	N-CA-CB	5.75	118.51	109.83
1	1	491	GLU	CB-CA-C	-5.75	104.09	111.22
1	3	324	ILE	CB-CA-C	5.75	117.91	110.96
1	4	439	GLY	O-C-N	-5.75	117.86	122.51
1	4	705	ALA	CA-C-N	5.75	128.25	120.38
1	4	705	ALA	C-N-CA	5.75	128.25	120.38
1	8	560	HIS	CE1-NE2-CD2	-5.75	103.25	109.00
1	a	534	VAL	CA-C-O	5.75	126.94	120.85
1	b	421	PHE	CA-C-N	5.75	128.25	120.44
1	b	421	PHE	C-N-CA	5.75	128.25	120.44
1	e	550	GLN	OE1-CD-NE2	-5.75	116.85	122.60
1	f	686	ALA	N-CA-C	5.75	117.54	111.28
1	h	687	THR	CA-C-N	5.75	127.98	120.28
1	h	687	THR	C-N-CA	5.75	127.98	120.28
1	i	423	ILE	N-CA-C	5.75	117.17	110.62
1	p	625	GLU	CA-CB-CG	-5.75	102.61	114.10
1	r	574	MET	N-CA-C	-5.75	106.31	113.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	u	167	TRP	CB-CG-CD1	5.75	135.52	126.90
1	u	333	ILE	CA-C-O	5.75	126.44	119.54
1	u	376	THR	CA-C-N	5.75	128.45	120.29
1	u	376	THR	C-N-CA	5.75	128.45	120.29
1	y	152	ARG	N-CA-C	-5.75	106.06	114.39
1	A	255	ARG	NE-CZ-NH1	5.75	127.25	121.50
1	C	432	ASP	CA-C-O	-5.75	114.46	120.55
1	E	487	TYR	N-CA-C	5.75	117.54	111.28
1	H	98	ARG	NE-CZ-NH2	5.75	124.37	119.20
1	H	400	ALA	CA-C-N	5.75	128.25	120.38
1	H	400	ALA	C-N-CA	5.75	128.25	120.38
1	H	406	ARG	CA-C-N	5.75	130.87	122.77
1	H	406	ARG	C-N-CA	5.75	130.87	122.77
1	K	502	GLU	N-CA-C	5.75	118.01	111.11
1	P	650	GLN	N-CA-C	5.75	118.28	111.33
1	V	558	VAL	CA-CB-CG2	5.75	120.17	110.40
1	X	362	GLU	O-C-N	-5.75	115.50	122.22
1	e	113	GLU	CB-CG-CD	5.75	122.37	112.60
1	e	596	ILE	CA-C-O	-5.75	115.69	120.80
1	n	212	GLU	CA-C-O	5.75	126.45	120.30
1	x	672	LYS	CB-CA-C	5.75	119.69	110.09
1	A	693	LYS	N-CA-CB	5.75	118.34	110.01
1	D	234	VAL	CA-C-O	-5.75	115.20	121.92
1	P	689	ARG	CA-C-N	5.75	127.98	120.28
1	P	689	ARG	C-N-CA	5.75	127.98	120.28
1	b	509	ILE	CA-CB-CG1	5.74	120.16	110.40
1	d	429	PHE	CA-C-N	5.74	127.98	120.28
1	d	429	PHE	C-N-CA	5.74	127.98	120.28
1	i	299	MET	N-CA-C	5.74	118.66	110.10
1	j	336	ARG	N-CA-C	5.74	118.58	109.96
1	l	214	THR	O-C-N	-5.74	116.49	123.27
1	p	646	PRO	N-CA-C	5.74	123.08	113.78
1	r	353	HIS	ND1-CE1-NE2	5.74	114.14	108.40
1	v	479	GLU	O-C-N	-5.74	115.60	122.15
1	A	433	ILE	N-CA-CB	5.74	117.27	110.55
1	B	483	TYR	N-CA-C	-5.74	105.29	112.93
1	H	157	LEU	O-C-N	-5.74	116.61	123.27
1	K	506	HIS	CG-CD2-NE2	5.74	112.94	107.20
1	P	481	GLU	N-CA-C	5.74	117.22	111.07
1	V	235	ASP	CA-C-N	5.74	128.86	120.71
1	V	235	ASP	C-N-CA	5.74	128.86	120.71
1	V	378	LEU	N-CA-C	5.74	117.54	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	l	694	GLU	N-CA-C	5.74	117.21	111.07
1	b	423	ILE	CA-C-O	-5.74	114.98	120.95
1	b	675	TYR	N-CA-CB	5.74	118.50	109.94
1	g	323	MET	O-C-N	-5.74	117.05	123.48
1	n	549	VAL	O-C-N	-5.74	116.30	121.87
1	v	151	THR	O-C-N	-5.74	115.81	122.87
1	x	649	ILE	N-CA-C	5.74	115.93	110.42
1	B	595	GLU	CB-CA-C	5.74	118.72	109.07
1	M	399	LYS	CA-C-N	5.74	127.97	120.28
1	M	399	LYS	C-N-CA	5.74	127.97	120.28
1	4	231	ARG	NE-CZ-NH1	5.74	127.24	121.50
1	4	544	ASN	CA-CB-CG	-5.74	106.86	112.60
1	7	473	LYS	CA-CB-CG	5.74	125.58	114.10
1	7	564	ALA	N-CA-C	5.74	117.54	111.28
1	8	450	LEU	N-CA-C	5.74	118.28	111.33
1	a	566	ASN	CA-C-N	5.74	127.97	120.28
1	a	566	ASN	C-N-CA	5.74	127.97	120.28
1	a	689	ARG	N-CA-C	5.74	117.54	111.28
1	m	208	LEU	N-CA-C	5.74	118.02	108.20
1	m	674	ARG	CA-C-N	5.74	128.44	120.29
1	m	674	ARG	C-N-CA	5.74	128.44	120.29
1	t	225	ASP	CB-CA-C	5.74	119.49	110.19
1	u	206	HIS	CE1-NE2-CD2	-5.74	103.26	109.00
1	B	501	PHE	CA-C-N	5.74	128.25	120.38
1	B	501	PHE	C-N-CA	5.74	128.25	120.38
1	M	190	ILE	O-C-N	-5.74	113.96	121.82
1	S	222	THR	CA-C-O	5.74	126.53	120.33
1	W	683	SER	O-C-N	5.74	127.98	122.07
1	X	597	PHE	CB-CA-C	5.74	120.32	110.79
1	6	533	ASN	N-CA-C	5.74	117.61	111.36
1	7	409	ALA	O-C-N	-5.74	114.96	122.59
1	a	568	ILE	O-C-N	-5.74	116.29	121.91
1	b	355	TYR	N-CA-C	5.74	117.61	111.36
1	e	579	PHE	CA-CB-CG	5.74	119.54	113.80
1	s	402	GLU	N-CA-C	5.74	118.00	111.11
1	v	397	HIS	CE1-NE2-CD2	-5.74	103.26	109.00
1	z	644	GLN	N-CA-C	5.74	117.21	111.07
1	z	698	ARG	NE-CZ-NH2	-5.74	114.04	119.20
1	A	585	TYR	N-CA-C	5.74	117.53	111.28
1	C	506	HIS	CG-CD2-NE2	5.74	112.94	107.20
1	E	297	ASP	N-CA-C	5.74	119.76	112.87
1	E	380	MET	CA-C-N	5.74	127.97	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	380	MET	C-N-CA	5.74	127.97	120.28
1	H	495	PHE	CA-CB-CG	-5.74	108.06	113.80
1	K	643	ASN	CB-CG-ND2	5.74	125.01	116.40
1	M	596	ILE	O-C-N	-5.74	115.40	122.57
1	Q	478	GLU	CA-C-N	5.74	127.97	120.28
1	Q	478	GLU	C-N-CA	5.74	127.97	120.28
1	V	277	SER	N-CA-CB	5.74	118.56	110.12
1	X	178	LEU	CA-C-O	5.74	126.53	120.33
1	Y	280	HIS	CE1-NE2-CD2	-5.74	103.26	109.00
1	3	441	GLU	CA-C-N	5.74	129.07	120.69
1	3	441	GLU	C-N-CA	5.74	129.07	120.69
1	5	408	GLY	CA-C-N	5.74	132.50	121.54
1	5	408	GLY	C-N-CA	5.74	132.50	121.54
1	g	585	TYR	CB-CG-CD1	5.74	129.41	120.80
1	r	572	PHE	CA-CB-CG	-5.74	108.06	113.80
1	G	359	LEU	CA-C-N	5.74	127.90	120.44
1	G	359	LEU	C-N-CA	5.74	127.90	120.44
1	M	193	ALA	CA-C-N	5.74	127.97	120.28
1	M	193	ALA	C-N-CA	5.74	127.97	120.28
1	S	477	HIS	ND1-CE1-NE2	5.74	114.14	108.40
1	W	429	PHE	CA-C-N	5.74	128.28	120.54
1	W	429	PHE	C-N-CA	5.74	128.28	120.54
1	0	628	ILE	O-C-N	-5.74	113.44	122.04
1	9	480	VAL	CA-CB-CG1	5.74	120.15	110.40
1	d	226	LEU	CA-C-N	5.74	127.01	119.84
1	d	226	LEU	C-N-CA	5.74	127.01	119.84
1	d	256	GLN	N-CA-C	5.74	119.46	112.23
1	d	625	GLU	CA-C-N	5.74	127.79	120.56
1	d	625	GLU	C-N-CA	5.74	127.79	120.56
1	j	451	TYR	CB-CG-CD2	5.74	129.40	120.80
1	k	333	ILE	CA-C-N	5.74	127.97	120.28
1	k	333	ILE	C-N-CA	5.74	127.97	120.28
1	p	454	ILE	N-CA-C	5.74	116.47	110.62
1	p	585	TYR	CA-C-N	5.74	127.96	120.28
1	p	585	TYR	C-N-CA	5.74	127.96	120.28
1	s	509	ILE	O-C-N	-5.74	115.32	121.80
1	u	628	ILE	O-C-N	-5.74	116.31	121.87
1	w	175	ASN	OD1-CG-ND2	-5.74	116.86	122.60
1	J	680	GLN	N-CA-CB	5.74	118.47	110.04
1	K	394	ARG	NE-CZ-NH2	-5.74	114.04	119.20
1	O	332	GLU	CA-C-N	5.74	129.73	120.55
1	O	332	GLU	C-N-CA	5.74	129.73	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	181	GLN	N-CA-C	5.74	118.65	109.02
1	U	550	GLN	O-C-N	-5.74	116.04	122.12
1	a	523	ALA	CA-C-O	5.73	126.84	120.82
1	m	597	PHE	CA-CB-CG	-5.73	108.07	113.80
1	u	179	GLU	CB-CA-C	5.73	119.20	109.80
1	u	415	GLU	CA-C-N	5.73	127.96	120.28
1	u	415	GLU	C-N-CA	5.73	127.96	120.28
1	w	415	GLU	O-C-N	-5.73	116.04	122.12
1	y	538	HIS	ND1-CG-CD2	-5.73	100.37	106.10
1	I	660	SER	CA-C-N	5.73	128.28	120.54
1	I	660	SER	C-N-CA	5.73	128.28	120.54
1	J	501	PHE	N-CA-C	5.73	117.21	111.07
1	L	136	GLU	O-C-N	-5.73	116.04	122.12
1	L	511	GLN	CA-C-N	5.73	129.03	120.31
1	L	511	GLN	C-N-CA	5.73	129.03	120.31
1	N	597	PHE	N-CA-C	5.73	117.20	111.07
1	Q	227	PRO	N-CA-CB	5.73	108.30	103.25
1	Q	686	ALA	N-CA-C	5.73	117.21	111.07
1	1	309	ASN	CA-C-O	5.73	126.84	120.82
1	1	443	VAL	N-CA-CB	5.73	117.92	111.21
1	1	467	THR	O-C-N	-5.73	115.61	122.15
1	2	401	THR	N-CA-CB	5.73	118.55	110.12
1	6	316	TYR	N-CA-C	5.73	117.99	110.08
1	9	453	LYS	O-C-N	-5.73	115.90	122.09
1	e	271	ALA	N-CA-C	5.73	117.53	111.28
1	e	450	LEU	O-C-N	-5.73	115.90	122.09
1	g	308	MET	CA-C-N	5.73	127.89	120.44
1	g	308	MET	C-N-CA	5.73	127.89	120.44
1	j	430	ASN	CA-C-N	5.73	127.89	120.44
1	j	430	ASN	C-N-CA	5.73	127.89	120.44
1	k	469	THR	CA-CB-OG1	5.73	118.20	109.60
1	p	535	ALA	N-CA-CB	-5.73	101.67	110.16
1	q	351	GLN	N-CA-C	5.73	117.99	111.11
1	q	656	GLU	CA-CB-CG	-5.73	102.64	114.10
1	v	381	HIS	N-CA-C	5.73	117.61	111.36
1	B	442	VAL	CA-CB-CG1	5.73	120.15	110.40
1	E	404	LEU	N-CA-C	5.73	117.20	111.07
1	F	464	ILE	N-CA-C	5.73	115.92	110.42
1	I	643	ASN	CA-CB-CG	5.73	118.33	112.60
1	X	664	ALA	N-CA-C	-5.73	105.17	111.82
1	Z	660	SER	CA-C-N	5.73	128.24	120.38
1	Z	660	SER	C-N-CA	5.73	128.24	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3	320	LYS	CB-CG-CD	5.73	124.48	111.30
1	9	191	HIS	CA-C-N	5.73	127.89	120.44
1	9	191	HIS	C-N-CA	5.73	127.89	120.44
1	9	697	TYR	CB-CA-C	5.73	120.59	110.85
1	a	285	GLU	CA-C-N	5.73	130.19	120.91
1	a	285	GLU	C-N-CA	5.73	130.19	120.91
1	d	235	ASP	N-CA-CB	-5.73	101.70	110.12
1	e	325	VAL	O-C-N	-5.73	116.87	123.00
1	l	120	ALA	CA-C-N	5.73	129.57	121.66
1	l	120	ALA	C-N-CA	5.73	129.57	121.66
1	m	303	THR	CA-CB-CG2	-5.73	100.76	110.50
1	q	127	GLN	CA-C-O	5.73	126.62	120.55
1	y	594	GLU	O-C-N	-5.73	116.07	122.03
1	z	364	SER	N-CA-C	-5.73	105.02	113.61
1	E	98	ARG	N-CA-C	5.73	120.29	112.55
1	E	552	THR	N-CA-C	5.73	117.53	111.28
1	L	597	PHE	N-CA-C	5.73	117.33	111.14
1	M	236	ASN	CA-C-O	5.73	127.48	119.80
1	M	430	ASN	O-C-N	-5.73	116.05	122.12
1	O	398	GLN	OE1-CD-NE2	-5.73	116.87	122.60
1	Q	538	HIS	CA-CB-CG	5.73	119.53	113.80
1	T	629	HIS	CE1-NE2-CD2	-5.73	103.27	109.00
1	Y	574	MET	O-C-N	-5.73	116.05	122.12
1	1	142	ALA	O-C-N	-5.73	117.79	123.46
1	6	497	ASN	CA-C-N	5.73	127.96	120.28
1	6	497	ASN	C-N-CA	5.73	127.96	120.28
1	c	239	ARG	CA-C-N	5.73	132.01	121.70
1	c	239	ARG	C-N-CA	5.73	132.01	121.70
1	i	196	VAL	N-CA-C	5.73	116.46	110.62
1	k	124	ILE	N-CA-C	5.73	116.55	108.36
1	q	594	GLU	O-C-N	-5.73	115.62	122.15
1	x	657	ASN	CB-CA-C	5.73	119.87	110.88
1	B	634	PHE	CZ-CE2-CD2	-5.73	109.69	120.00
1	L	406	ARG	NE-CZ-NH1	5.73	127.23	121.50
1	M	194	GLN	N-CA-C	5.73	117.53	111.28
1	4	120	ALA	CB-CA-C	-5.73	99.97	110.62
1	8	194	GLN	CB-CA-C	-5.73	101.28	110.79
1	9	131	LYS	N-CA-C	5.73	118.26	111.33
1	9	433	ILE	CA-C-N	5.73	127.89	120.44
1	9	433	ILE	C-N-CA	5.73	127.89	120.44
1	g	705	ALA	CA-C-N	5.73	128.42	120.29
1	g	705	ALA	C-N-CA	5.73	128.42	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	461	TRP	CB-CG-CD2	-5.73	118.78	126.80
1	v	150	VAL	N-CA-C	5.73	121.25	109.34
1	v	672	LYS	N-CA-C	5.73	120.11	113.18
1	y	232	VAL	O-C-N	5.73	129.45	123.26
1	B	525	GLU	CA-C-O	5.73	126.62	120.55
1	E	396	SER	CA-C-N	5.73	127.95	120.28
1	E	396	SER	C-N-CA	5.73	127.95	120.28
1	F	710	SER	N-CA-C	5.73	118.26	111.33
1	K	196	VAL	O-C-N	-5.73	115.93	121.83
1	K	267	ASN	OD1-CG-ND2	-5.73	116.87	122.60
1	W	550	GLN	N-CA-C	5.73	117.52	111.28
1	Y	435	LYS	N-CA-C	5.73	117.20	111.07
1	6	274	GLU	CA-C-O	5.73	126.62	120.55
1	8	517	LEU	N-CA-C	5.73	117.52	111.28
1	m	455	ARG	N-CA-C	5.73	118.46	111.82
1	p	513	VAL	CA-C-N	5.73	127.25	120.09
1	p	513	VAL	C-N-CA	5.73	127.25	120.09
1	s	675	TYR	CB-CA-C	-5.73	101.89	110.88
1	B	676	SER	CA-C-N	5.73	127.88	120.44
1	B	676	SER	C-N-CA	5.73	127.88	120.44
1	K	233	ALA	CA-C-N	5.73	128.17	120.50
1	K	233	ALA	C-N-CA	5.73	128.17	120.50
1	P	231	ARG	N-CA-CB	5.73	120.17	110.49
1	S	551	SER	O-C-N	-5.73	116.05	122.12
1	l	540	GLY	CA-C-N	-5.72	112.61	120.28
1	l	540	GLY	C-N-CA	-5.72	112.61	120.28
1	f	674	ARG	NE-CZ-NH2	-5.72	114.05	119.20
1	h	665	MET	CA-C-N	5.72	128.52	120.28
1	h	665	MET	C-N-CA	5.72	128.52	120.28
1	n	507	GLN	N-CA-C	5.72	118.29	111.71
1	q	589	LEU	N-CA-C	5.72	117.52	111.28
1	u	261	LEU	CA-C-O	5.72	126.70	120.58
1	B	523	ALA	N-CA-C	5.72	117.52	111.28
1	H	573	ARG	NH1-CZ-NH2	-5.72	111.86	119.30
1	L	516	ALA	CA-C-N	5.72	127.95	120.28
1	L	516	ALA	C-N-CA	5.72	127.95	120.28
1	N	565	GLU	CA-C-O	-5.72	114.80	120.70
1	O	194	GLN	CA-C-O	5.72	126.49	120.42
1	Q	145	ARG	NE-CZ-NH2	-5.72	114.05	119.20
1	S	399	LYS	O-C-N	-5.72	115.62	122.15
1	V	98	ARG	CA-C-O	-5.72	112.79	118.34
1	W	376	THR	CA-CB-OG1	5.72	118.19	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	215	SER	CA-C-N	5.72	125.40	119.05
1	1	215	SER	C-N-CA	5.72	125.40	119.05
1	9	322	TYR	CA-C-O	5.72	126.31	120.24
1	m	449	ARG	NE-CZ-NH1	5.72	127.22	121.50
1	q	401	THR	CA-C-N	5.72	127.95	120.28
1	q	401	THR	C-N-CA	5.72	127.95	120.28
1	r	338	SER	CA-C-O	5.72	127.39	120.81
1	t	452	ASN	CA-C-N	5.72	127.88	120.44
1	t	452	ASN	C-N-CA	5.72	127.88	120.44
1	v	544	ASN	O-C-N	5.72	127.96	122.07
1	v	659	ASP	CA-CB-CG	5.72	118.32	112.60
1	w	277	SER	O-C-N	-5.72	115.96	122.08
1	J	180	LEU	CA-C-N	5.72	132.47	121.54
1	J	180	LEU	C-N-CA	5.72	132.47	121.54
1	J	317	PRO	N-CA-C	5.72	119.48	110.50
1	O	566	ASN	CB-CA-C	5.72	120.58	110.85
1	R	538	HIS	CE1-NE2-CD2	-5.72	103.28	109.00
1	U	312	ARG	N-CA-C	5.72	117.52	111.28
1	X	545	LEU	O-C-N	-5.72	116.18	122.07
1	1	544	ASN	CA-CB-CG	-5.72	106.88	112.60
1	8	626	ILE	CA-C-O	-5.72	114.78	120.85
1	a	241	ILE	N-CA-C	5.72	116.45	110.62
1	b	215	SER	CB-CA-C	5.72	117.77	110.22
1	y	179	GLU	CA-C-O	-5.72	114.17	120.69
1	z	164	CYS	O-C-N	-5.72	115.77	122.81
1	D	515	PRO	CB-CA-C	5.72	122.59	112.64
1	E	306	SER	CA-C-N	5.72	132.27	121.97
1	E	306	SER	C-N-CA	5.72	132.27	121.97
1	J	560	HIS	N-CA-C	5.72	118.46	111.82
1	N	98	ARG	CA-C-O	-5.72	113.12	118.73
1	Q	133	SER	N-CA-C	5.72	118.29	111.71
1	W	535	ALA	CA-C-N	5.72	130.29	121.19
1	W	535	ALA	C-N-CA	5.72	130.29	121.19
1	0	231	ARG	NE-CZ-NH1	5.72	127.22	121.50
1	3	542	PHE	CA-CB-CG	5.72	119.52	113.80
1	4	219	PRO	O-C-N	-5.72	116.24	123.10
1	7	98	ARG	CA-C-N	5.72	125.84	119.32
1	7	98	ARG	C-N-CA	5.72	125.84	119.32
1	7	314	LEU	O-C-N	-5.72	114.98	122.59
1	8	675	TYR	N-CA-C	5.72	117.51	111.28
1	d	333	ILE	CA-C-N	5.72	128.41	120.29
1	d	333	ILE	C-N-CA	5.72	128.41	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	m	443	VAL	CA-C-N	5.72	132.46	121.54
1	m	443	VAL	C-N-CA	5.72	132.46	121.54
1	u	688	LYS	N-CA-CB	5.72	118.30	110.01
1	B	139	SER	O-C-N	-5.72	114.98	122.59
1	B	689	ARG	N-CA-C	5.72	122.98	110.80
1	J	567	MET	N-CA-C	5.72	117.59	111.36
1	L	504	ILE	O-C-N	-5.72	115.94	121.83
1	N	647	PHE	N-CA-C	5.72	117.51	111.28
1	T	150	VAL	CB-CA-C	5.72	120.67	111.29
1	Y	185	GLN	N-CA-C	5.72	118.25	111.33
1	7	698	ARG	O-C-N	5.72	128.18	122.12
1	f	640	ARG	CA-C-N	5.72	128.51	120.28
1	f	640	ARG	C-N-CA	5.72	128.51	120.28
1	m	202	ARG	N-CA-C	-5.72	106.65	113.97
1	w	552	THR	O-C-N	-5.72	116.18	122.07
1	z	480	VAL	N-CA-C	5.72	116.50	110.72
1	C	498	TYR	CA-C-N	5.72	128.26	120.54
1	C	498	TYR	C-N-CA	5.72	128.26	120.54
1	E	597	PHE	CA-C-O	-5.72	113.04	119.79
1	K	302	GLY	CA-C-O	-5.72	114.82	121.00
1	T	400	ALA	O-C-N	-5.72	116.18	122.07
1	U	303	THR	O-C-N	-5.72	116.18	122.07
1	1	224	ILE	O-C-N	-5.72	117.00	123.18
1	2	106	SER	CA-C-N	5.72	128.21	120.44
1	2	106	SER	C-N-CA	5.72	128.21	120.44
1	2	538	HIS	CE1-NE2-CD2	-5.72	103.28	109.00
1	6	335	ASN	CA-C-N	5.72	130.25	122.07
1	6	335	ASN	C-N-CA	5.72	130.25	122.07
1	8	695	ARG	N-CA-C	5.72	117.51	111.28
1	a	670	GLN	OE1-CD-NE2	-5.72	116.88	122.60
1	f	188	LYS	CA-C-N	5.72	128.26	120.54
1	f	188	LYS	C-N-CA	5.72	128.26	120.54
1	k	484	GLU	O-C-N	-5.72	116.18	122.07
1	l	200	ASN	CA-CB-CG	5.72	118.32	112.60
1	n	696	ILE	CA-C-O	5.72	126.64	120.47
1	o	453	LYS	CB-CA-C	-5.72	100.24	110.70
1	u	647	PHE	CA-C-O	5.72	126.48	120.42
1	w	355	TYR	N-CA-C	5.72	117.51	111.28
1	y	653	MET	N-CA-C	5.72	118.72	111.69
1	B	170	ARG	N-CA-C	5.72	118.53	108.75
1	B	561	THR	CA-CB-OG1	5.72	118.17	109.60
1	F	690	ARG	CB-CG-CD	5.72	124.45	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	451	TYR	CA-C-N	5.72	127.87	120.44
1	O	451	TYR	C-N-CA	5.72	127.87	120.44
1	O	513	VAL	CA-C-N	5.72	126.87	119.78
1	O	513	VAL	C-N-CA	5.72	126.87	119.78
1	Q	259	ILE	CB-CA-C	-5.72	103.22	111.34
1	R	709	PHE	CA-C-O	5.72	126.80	120.63
1	T	108	ARG	CG-CD-NE	-5.72	99.42	112.00
1	T	208	LEU	N-CA-C	5.72	118.53	109.96
1	X	166	ALA	CB-CA-C	-5.72	100.23	109.72
1	Z	402	GLU	N-CA-C	5.72	117.51	111.28
1	0	667	GLN	CA-C-N	5.71	128.29	120.46
1	0	667	GLN	C-N-CA	5.71	128.29	120.46
1	3	414	GLN	CA-C-O	-5.71	115.34	121.45
1	9	661	LEU	N-CA-C	5.71	117.19	111.07
1	b	419	MET	CA-C-N	5.71	127.94	120.28
1	b	419	MET	C-N-CA	5.71	127.94	120.28
1	e	410	ASP	CA-CB-CG	5.71	118.31	112.60
1	f	292	ILE	CA-C-N	5.71	130.01	122.30
1	f	292	ILE	C-N-CA	5.71	130.01	122.30
1	n	449	ARG	CA-C-N	5.71	128.25	120.54
1	n	449	ARG	C-N-CA	5.71	128.25	120.54
1	r	197	MET	N-CA-C	5.71	117.97	111.11
1	s	568	ILE	O-C-N	-5.71	116.31	121.91
1	u	361	GLU	N-CA-C	5.71	118.28	111.71
1	z	303	THR	N-CA-C	5.71	117.51	111.28
1	z	580	CYS	N-CA-CB	5.71	120.15	110.49
1	B	124	ILE	O-C-N	-5.71	117.03	123.03
1	J	553	ILE	N-CA-CB	5.71	117.24	110.55
1	N	590	LYS	N-CA-C	5.71	117.18	111.07
1	O	506	HIS	ND1-CE1-NE2	5.71	114.11	108.40
1	R	152	ARG	CB-CA-C	-5.71	100.05	109.99
1	X	175	ASN	CA-CB-CG	5.71	118.31	112.60
1	p	380	MET	CA-C-O	5.71	126.82	120.82
1	p	519	MET	O-C-N	-5.71	116.15	122.09
1	s	502	GLU	N-CA-C	5.71	117.51	111.28
1	D	373	ARG	NE-CZ-NH1	5.71	127.21	121.50
1	S	191	HIS	CB-CG-ND1	5.71	131.27	122.70
1	S	217	GLU	CA-C-O	5.71	125.33	119.05
1	1	422	LEU	N-CA-C	5.71	117.96	111.11
1	1	692	LEU	N-CA-C	5.71	118.28	111.71
1	5	270	ILE	O-C-N	-5.71	116.33	121.87
1	5	584	ILE	CA-C-N	5.71	127.93	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5	584	ILE	C-N-CA	5.71	127.93	120.28
1	7	666	MET	CG-SD-CE	-5.71	88.34	100.90
1	j	312	ARG	CA-CB-CG	5.71	125.52	114.10
1	q	437	VAL	N-CA-C	5.71	116.44	110.62
1	t	506	HIS	CA-C-N	5.71	127.94	120.28
1	t	506	HIS	C-N-CA	5.71	127.94	120.28
1	t	705	ALA	CA-C-N	5.71	128.40	120.29
1	t	705	ALA	C-N-CA	5.71	128.40	120.29
1	w	361	GLU	O-C-N	-5.71	115.54	122.11
1	y	436	LEU	CA-C-O	5.71	126.60	120.55
1	G	708	GLN	N-CA-CB	5.71	118.71	110.20
1	K	311	VAL	N-CA-CB	5.71	117.61	110.47
1	S	228	GLY	N-CA-C	5.71	119.31	111.54
1	X	182	ASP	O-C-N	-5.71	115.03	121.43
1	5	427	LYS	N-CA-CB	-5.71	101.73	110.01
1	8	236	ASN	OD1-CG-ND2	-5.71	116.89	122.60
1	m	457	ASP	CA-CB-CG	5.71	118.31	112.60
1	n	353	HIS	CA-C-N	5.71	125.07	118.85
1	n	353	HIS	C-N-CA	5.71	125.07	118.85
1	s	577	MET	N-CA-CB	5.71	118.45	109.83
1	u	292	ILE	O-C-N	5.71	129.75	122.61
1	x	366	THR	CA-CB-OG1	5.71	118.17	109.60
1	E	532	ILE	CA-C-N	5.71	128.40	120.29
1	E	532	ILE	C-N-CA	5.71	128.40	120.29
1	L	334	THR	N-CA-C	5.71	117.50	111.28
1	U	629	HIS	N-CA-CB	5.71	118.61	110.16
1	W	440	GLU	CB-CG-CD	-5.71	102.89	112.60
1	X	248	LEU	N-CA-C	5.71	117.50	111.28
1	Z	273	THR	O-C-N	-5.71	115.77	122.96
1	5	106	SER	CA-C-N	5.71	127.93	120.28
1	5	106	SER	C-N-CA	5.71	127.93	120.28
1	5	333	ILE	CA-C-N	5.71	127.86	120.44
1	5	333	ILE	C-N-CA	5.71	127.86	120.44
1	d	669	LEU	CB-CA-C	-5.71	99.19	110.27
1	g	444	ARG	NE-CZ-NH2	-5.71	114.06	119.20
1	i	398	GLN	CG-CD-NE2	-5.71	107.84	116.40
1	j	210	SER	CB-CA-C	5.71	120.73	109.66
1	l	178	LEU	N-CA-CB	-5.71	102.37	111.62
1	n	535	ALA	CA-C-N	5.71	128.50	120.28
1	n	535	ALA	C-N-CA	5.71	128.50	120.28
1	u	633	TYR	CB-CG-CD1	-5.71	112.24	120.80
1	A	425	LYS	CG-CD-CE	5.71	124.43	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	393	ILE	CA-C-N	5.71	127.86	120.44
1	F	393	ILE	C-N-CA	5.71	127.86	120.44
1	I	167	TRP	O-C-N	-5.71	116.73	123.41
1	P	708	GLN	N-CA-C	5.71	119.97	112.89
1	S	309	ASN	O-C-N	5.71	128.17	122.12
1	U	187	GLU	CA-C-O	5.71	127.01	120.90
1	V	239	ARG	O-C-N	-5.71	113.87	123.00
1	V	458	PHE	CA-C-N	5.71	128.40	120.29
1	V	458	PHE	C-N-CA	5.71	128.40	120.29
1	W	369	ARG	CA-C-O	-5.71	112.74	119.48
1	0	443	VAL	N-CA-C	5.71	116.99	108.54
1	1	567	MET	CA-C-N	5.71	127.96	120.60
1	1	567	MET	C-N-CA	5.71	127.96	120.60
1	1	593	ARG	N-CA-C	5.71	117.18	111.07
1	5	472	VAL	N-CA-C	5.71	116.44	110.62
1	9	139	SER	N-CA-CB	-5.71	101.88	110.73
1	9	577	MET	CB-CA-C	-5.71	102.14	111.50
1	a	294	THR	CA-CB-OG1	5.71	118.16	109.60
1	b	364	SER	CB-CA-C	-5.71	100.53	110.17
1	i	104	ILE	N-CA-C	5.71	116.44	110.62
1	k	705	ALA	CA-C-N	5.71	127.93	120.28
1	k	705	ALA	C-N-CA	5.71	127.93	120.28
1	s	545	LEU	CA-C-O	-5.71	114.82	120.70
1	t	464	ILE	N-CA-CB	5.71	117.23	110.55
1	t	700	THR	O-C-N	-5.71	115.64	122.15
1	u	148	GLY	CA-C-N	5.71	128.84	120.91
1	u	148	GLY	C-N-CA	5.71	128.84	120.91
1	u	151	THR	N-CA-C	5.71	118.50	110.23
1	u	473	LYS	N-CA-C	5.71	118.27	111.71
1	w	566	ASN	CA-C-N	5.71	127.93	120.28
1	w	566	ASN	C-N-CA	5.71	127.93	120.28
1	y	215	SER	N-CA-C	-5.71	102.99	108.13
1	A	189	GLU	O-C-N	-5.71	116.07	122.12
1	A	383	GLN	CA-C-O	5.71	126.81	120.82
1	F	672	LYS	CA-C-O	5.71	125.66	119.15
1	G	206	HIS	CG-CD2-NE2	5.71	112.91	107.20
1	H	231	ARG	CA-C-N	5.71	131.70	122.68
1	H	231	ARG	C-N-CA	5.71	131.70	122.68
1	H	559	LYS	CA-C-O	5.71	126.81	120.82
1	L	703	ARG	N-CA-C	5.71	117.96	111.11
1	N	388	LEU	CA-C-N	5.71	127.86	120.44
1	N	388	LEU	C-N-CA	5.71	127.86	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	681	GLU	N-CA-C	5.71	118.63	110.24
1	U	385	SER	CA-C-O	5.71	126.11	119.32
1	W	704	HIS	CA-C-O	-5.71	114.80	120.90
1	l	526	ILE	O-C-N	-5.71	116.32	121.91
1	e	367	VAL	N-CA-CB	-5.71	104.13	110.23
1	i	691	ILE	CA-C-N	5.71	128.20	120.38
1	i	691	ILE	C-N-CA	5.71	128.20	120.38
1	n	423	ILE	N-CA-C	5.71	117.12	110.62
1	s	654	LEU	CA-C-O	5.71	128.67	120.51
1	t	506	HIS	N-CA-CB	5.71	118.51	110.12
1	v	190	ILE	CA-C-N	5.71	128.39	120.29
1	v	190	ILE	C-N-CA	5.71	128.39	120.29
1	z	428	MET	CA-C-N	5.71	127.86	120.44
1	z	428	MET	C-N-CA	5.71	127.86	120.44
1	I	446	ASN	OD1-CG-ND2	-5.71	116.89	122.60
1	M	353	HIS	ND1-CE1-NE2	5.71	114.11	108.40
1	P	540	GLY	CA-C-O	-5.71	114.24	120.40
1	T	543	PHE	O-C-N	-5.71	116.16	122.09
1	Z	631	ASN	CA-C-N	5.71	127.92	120.28
1	Z	631	ASN	C-N-CA	5.71	127.92	120.28
1	4	417	ASP	CA-CB-CG	-5.70	106.90	112.60
1	f	181	GLN	N-CA-C	5.70	116.44	108.00
1	h	677	TRP	CA-C-N	5.70	127.92	120.28
1	h	677	TRP	C-N-CA	5.70	127.92	120.28
1	l	100	CYS	N-CA-C	5.70	117.50	111.28
1	m	577	MET	CG-SD-CE	-5.70	88.35	100.90
1	q	655	ARG	NE-CZ-NH2	-5.70	114.07	119.20
1	v	638	SER	N-CA-C	5.70	118.23	111.33
1	C	450	LEU	N-CA-C	5.70	118.27	111.71
1	E	647	PHE	CA-C-O	5.70	126.79	120.63
1	H	283	ASP	CA-C-N	5.70	125.07	118.85
1	H	283	ASP	C-N-CA	5.70	125.07	118.85
1	K	391	GLY	CA-C-N	5.70	128.39	120.29
1	K	391	GLY	C-N-CA	5.70	128.39	120.29
1	N	393	ILE	CB-CA-C	-5.70	104.58	111.88
1	N	425	LYS	CA-C-N	5.70	128.28	120.46
1	N	425	LYS	C-N-CA	5.70	128.28	120.46
1	Q	288	ARG	NH1-CZ-NH2	-5.70	111.89	119.30
1	S	188	LYS	N-CA-C	5.70	117.58	111.36
1	T	549	VAL	CA-C-N	5.70	127.92	120.28
1	T	549	VAL	C-N-CA	5.70	127.92	120.28
1	U	251	LYS	N-CA-C	5.70	117.50	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	683	SER	N-CA-CB	-5.70	100.80	110.50
1	6	145	ARG	CD-NE-CZ	5.70	132.38	124.40
1	7	307	VAL	CB-CA-C	5.70	119.88	112.24
1	7	312	ARG	CB-CG-CD	5.70	124.41	111.30
1	c	560	HIS	CE1-NE2-CD2	-5.70	103.30	109.00
1	e	153	CYS	CA-C-N	5.70	125.72	119.90
1	e	153	CYS	C-N-CA	5.70	125.72	119.90
1	j	149	ILE	CA-C-N	5.70	132.23	121.97
1	j	149	ILE	C-N-CA	5.70	132.23	121.97
1	s	182	ASP	CA-C-N	5.70	125.23	119.19
1	s	182	ASP	C-N-CA	5.70	125.23	119.19
1	v	659	ASP	O-C-N	-5.70	116.08	122.12
1	x	94	GLU	CA-C-N	5.70	127.92	120.28
1	x	94	GLU	C-N-CA	5.70	127.92	120.28
1	L	124	ILE	N-CA-C	-5.70	99.44	108.90
1	N	335	ASN	CB-CG-ND2	5.70	124.95	116.40
1	P	631	ASN	OD1-CG-ND2	-5.70	116.90	122.60
1	7	533	ASN	OD1-CG-ND2	-5.70	116.90	122.60
1	a	150	VAL	CA-C-N	5.70	128.86	120.82
1	a	150	VAL	C-N-CA	5.70	128.86	120.82
1	c	396	SER	O-C-N	-5.70	116.08	122.12
1	d	299	MET	O-C-N	-5.70	115.86	122.87
1	m	445	GLU	O-C-N	-5.70	115.80	122.81
1	s	188	LYS	N-CA-C	5.70	117.57	111.36
1	D	525	GLU	N-CA-C	5.70	117.49	111.28
1	I	390	GLU	CA-C-N	5.70	126.27	120.00
1	I	390	GLU	C-N-CA	5.70	126.27	120.00
1	K	272	THR	CA-C-N	5.70	129.36	120.75
1	K	272	THR	C-N-CA	5.70	129.36	120.75
1	R	323	MET	CG-SD-CE	-5.70	88.36	100.90
1	U	559	LYS	N-CA-C	5.70	117.17	111.07
1	U	576	GLN	CA-C-O	5.70	126.53	119.97
1	V	324	ILE	CB-CA-C	5.70	117.75	111.08
1	X	335	ASN	CA-C-O	-5.70	114.78	121.16
1	Y	400	ALA	N-CA-C	5.70	117.17	111.07
1	7	115	ASP	CA-CB-CG	-5.70	106.90	112.60
1	8	295	LYS	CA-C-N	5.70	125.23	119.19
1	8	295	LYS	C-N-CA	5.70	125.23	119.19
1	c	190	ILE	O-C-N	-5.70	116.34	121.87
1	g	510	GLN	N-CA-C	5.70	118.26	111.71
1	p	97	VAL	N-CA-CB	5.70	118.29	110.54
1	p	500	THR	CA-CB-OG1	5.70	118.15	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	y	99	PRO	CB-CA-C	5.70	120.43	112.11
1	y	577	MET	O-C-N	-5.70	116.72	123.22
1	F	448	THR	CA-C-N	5.70	129.35	120.75
1	F	448	THR	C-N-CA	5.70	129.35	120.75
1	O	340	ALA	CA-C-N	5.70	128.19	120.44
1	O	340	ALA	C-N-CA	5.70	128.19	120.44
1	O	447	GLU	O-C-N	-5.70	116.35	122.85
1	S	446	ASN	OD1-CG-ND2	-5.70	116.90	122.60
1	V	429	PHE	CA-CB-CG	-5.70	108.10	113.80
1	W	218	VAL	O-C-N	-5.70	114.60	121.10
1	X	644	GLN	OE1-CD-NE2	-5.70	116.90	122.60
1	Y	492	LEU	CA-C-N	5.70	130.84	122.63
1	Y	492	LEU	C-N-CA	5.70	130.84	122.63
1	6	505	VAL	N-CA-C	5.70	116.43	110.62
1	i	460	ASN	CA-C-N	5.70	127.91	120.28
1	i	460	ASN	C-N-CA	5.70	127.91	120.28
1	i	500	THR	CA-C-N	5.70	127.85	120.44
1	i	500	THR	C-N-CA	5.70	127.85	120.44
1	k	372	GLU	CA-C-N	5.70	127.85	120.44
1	k	372	GLU	C-N-CA	5.70	127.85	120.44
1	q	430	ASN	O-C-N	-5.70	116.08	122.12
1	r	675	TYR	CB-CG-CD1	5.70	129.34	120.80
1	z	555	ASP	N-CA-C	5.70	117.17	111.07
1	F	256	GLN	N-CA-C	5.70	117.57	111.36
1	W	214	THR	CA-CB-OG1	5.70	118.15	109.60
1	W	669	LEU	O-C-N	-5.70	114.80	122.43
1	X	665	MET	O-C-N	-5.70	116.08	122.12
1	0	278	MET	N-CA-C	5.70	118.26	111.71
1	1	534	VAL	CB-CA-C	-5.70	104.45	112.14
1	2	118	LEU	N-CA-C	5.70	122.40	109.81
1	2	691	ILE	CA-C-N	5.70	127.91	120.28
1	2	691	ILE	C-N-CA	5.70	127.91	120.28
1	3	171	ILE	CA-C-O	5.70	126.62	120.53
1	3	221	LEU	CA-C-O	-5.70	114.45	121.11
1	i	95	GLN	OE1-CD-NE2	5.70	128.29	122.60
1	j	221	LEU	CB-CA-C	5.70	122.07	109.94
1	p	655	ARG	N-CA-C	5.70	117.97	111.02
1	t	145	ARG	NH1-CZ-NH2	-5.70	111.90	119.30
1	u	558	VAL	CA-C-O	-5.70	115.13	121.17
1	z	553	ILE	O-C-N	-5.70	116.31	121.89
1	B	517	LEU	N-CA-C	5.70	117.49	111.28
1	F	520	LEU	N-CA-C	5.70	117.95	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	510	GLN	N-CA-C	5.70	117.16	111.07
1	l	486	GLN	OE1-CD-NE2	-5.69	116.91	122.60
1	b	692	LEU	CB-CA-C	-5.69	101.00	110.68
1	c	677	TRP	N-CA-CB	-5.69	101.75	110.12
1	d	457	ASP	CA-CB-CG	-5.69	106.91	112.60
1	f	280	HIS	CE1-NE2-CD2	-5.69	103.31	109.00
1	f	282	VAL	CA-C-O	5.69	125.90	119.92
1	g	698	ARG	NH1-CZ-NH2	-5.69	111.90	119.30
1	m	514	GLU	N-CA-C	5.69	121.25	113.16
1	z	504	ILE	CA-C-N	5.69	128.56	120.53
1	z	504	ILE	C-N-CA	5.69	128.56	120.53
1	K	162	GLN	O-C-N	-5.69	117.49	121.65
1	Q	422	LEU	O-C-N	-5.69	116.20	122.07
1	0	101	ILE	CA-C-N	5.69	127.91	120.28
1	0	101	ILE	C-N-CA	5.69	127.91	120.28
1	2	382	ILE	N-CA-CB	-5.69	104.19	110.51
1	7	289	THR	N-CA-C	5.69	118.58	110.10
1	a	705	ALA	CA-C-O	5.69	126.78	120.63
1	c	174	ARG	CA-C-N	5.69	130.25	122.34
1	c	174	ARG	C-N-CA	5.69	130.25	122.34
1	p	234	VAL	N-CA-C	-5.69	99.30	107.78
1	r	473	LYS	N-CA-C	5.69	117.48	111.28
1	w	414	GLN	OE1-CD-NE2	-5.69	116.91	122.60
1	x	320	LYS	CA-C-O	5.69	125.90	119.18
1	z	552	THR	CA-C-O	-5.69	114.39	120.42
1	E	561	THR	N-CA-C	5.69	117.49	111.28
1	K	625	GLU	O-C-N	5.69	127.93	122.07
1	K	679	LEU	CA-C-N	5.69	129.97	122.06
1	K	679	LEU	C-N-CA	5.69	129.97	122.06
1	L	332	GLU	O-C-N	-5.69	115.81	122.81
1	Q	583	GLN	CA-C-N	5.69	129.46	120.47
1	Q	583	GLN	C-N-CA	5.69	129.46	120.47
1	W	177	GLU	O-C-N	-5.69	116.28	123.05
1	s	119	PRO	N-CD-CG	5.69	111.73	103.20
1	A	314	LEU	CA-C-N	5.69	127.84	120.44
1	A	314	LEU	C-N-CA	5.69	127.84	120.44
1	K	499	LYS	CA-C-N	5.69	127.91	120.28
1	K	499	LYS	C-N-CA	5.69	127.91	120.28
1	N	143	LEU	N-CA-C	5.69	116.57	109.57
1	Q	415	GLU	N-CA-C	5.69	117.48	111.28
1	S	312	ARG	O-C-N	-5.69	116.09	122.12
1	U	273	THR	CA-C-O	5.69	127.58	121.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	0	444	ARG	O-C-N	-5.69	116.53	123.19
1	3	579	PHE	CA-CB-CG	5.69	119.49	113.80
1	q	704	HIS	ND1-CE1-NE2	5.69	114.09	108.40
1	r	255	ARG	CA-C-O	5.69	127.76	121.56
1	r	704	HIS	CA-CB-CG	-5.69	108.11	113.80
1	K	374	LEU	CA-C-N	5.69	128.22	120.54
1	K	374	LEU	C-N-CA	5.69	128.22	120.54
1	5	702	ALA	N-CA-C	-5.69	105.00	111.14
1	7	239	ARG	CA-C-N	5.69	131.94	121.70
1	7	239	ARG	C-N-CA	5.69	131.94	121.70
1	j	247	ALA	CA-C-N	5.69	127.90	120.28
1	j	247	ALA	C-N-CA	5.69	127.90	120.28
1	l	211	LEU	O-C-N	-5.69	116.44	123.44
1	l	547	GLN	CB-CG-CD	5.69	122.27	112.60
1	p	152	ARG	NE-CZ-NH2	-5.69	114.08	119.20
1	p	495	PHE	N-CA-CB	5.69	120.17	110.50
1	t	139	SER	N-CA-C	5.69	120.06	113.18
1	y	181	GLN	N-CA-CB	5.69	120.10	110.49
1	y	702	ALA	CA-C-O	5.69	126.51	119.97
1	z	296	PRO	CA-C-N	5.69	128.22	120.54
1	z	296	PRO	C-N-CA	5.69	128.22	120.54
1	H	111	GLY	N-CA-C	5.69	119.87	112.25
1	M	560	HIS	CG-CD2-NE2	5.69	112.89	107.20
1	O	436	LEU	CA-C-N	5.69	128.50	120.42
1	O	436	LEU	C-N-CA	5.69	128.50	120.42
1	P	314	LEU	O-C-N	-5.69	115.03	122.59
1	U	253	ILE	N-CA-C	5.69	118.46	112.83
1	U	330	GLN	N-CA-C	5.69	117.16	111.07
1	U	455	ARG	CB-CA-C	5.69	119.81	110.88
1	W	302	GLY	CA-C-N	5.69	127.90	120.28
1	W	302	GLY	C-N-CA	5.69	127.90	120.28
1	5	478	GLU	CA-C-N	5.69	127.83	120.44
1	5	478	GLU	C-N-CA	5.69	127.83	120.44
1	d	153	CYS	CB-CA-C	5.69	118.48	109.55
1	s	316	TYR	CB-CG-CD1	-5.69	112.27	120.80
1	v	472	VAL	CA-CB-CG1	5.69	120.07	110.40
1	y	555	ASP	CA-C-N	5.69	128.25	120.46
1	y	555	ASP	C-N-CA	5.69	128.25	120.46
1	E	699	LEU	O-C-N	-5.69	116.18	122.09
1	7	568	ILE	CA-C-O	5.68	127.19	121.17
1	9	477	HIS	ND1-CE1-NE2	5.68	114.08	108.40
1	j	405	ARG	NH1-CZ-NH2	-5.68	111.91	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	r	206	HIS	CA-CB-CG	-5.68	108.12	113.80
1	r	374	LEU	CB-CA-C	-5.68	101.95	110.88
1	r	552	THR	N-CA-CB	5.68	118.48	110.12
1	r	623	PHE	CA-CB-CG	5.68	119.48	113.80
1	t	466	ALA	CA-C-O	5.68	126.58	120.55
1	t	496	VAL	N-CA-CB	5.68	121.54	110.45
1	w	346	GLU	CB-CA-C	5.68	119.72	110.96
1	x	265	PRO	N-CA-C	5.68	120.13	111.15
1	y	237	GLN	CA-C-N	5.68	125.36	119.56
1	y	237	GLN	C-N-CA	5.68	125.36	119.56
1	y	506	HIS	CG-CD2-NE2	5.68	112.89	107.20
1	E	377	GLU	O-C-N	-5.68	116.21	122.07
1	I	186	VAL	CA-C-N	5.68	127.83	120.44
1	I	186	VAL	C-N-CA	5.68	127.83	120.44
1	T	171	ILE	CB-CA-C	-5.68	103.93	110.41
1	X	221	LEU	CA-C-N	5.68	130.78	122.77
1	X	221	LEU	C-N-CA	5.68	130.78	122.77
1	1	398	GLN	CB-CG-CD	5.68	122.26	112.60
1	2	435	LYS	CA-C-N	5.68	128.36	120.29
1	2	435	LYS	C-N-CA	5.68	128.36	120.29
1	2	570	LEU	CA-C-N	5.68	127.89	120.28
1	2	570	LEU	C-N-CA	5.68	127.89	120.28
1	3	546	ASN	OD1-CG-ND2	-5.68	116.92	122.60
1	8	694	GLU	N-CA-C	5.68	117.47	111.28
1	e	414	GLN	CG-CD-NE2	5.68	124.92	116.40
1	f	457	ASP	CA-C-O	5.68	125.94	119.18
1	i	200	ASN	CA-CB-CG	-5.68	106.92	112.60
1	k	256	GLN	OE1-CD-NE2	-5.68	116.92	122.60
1	m	411	ILE	N-CA-C	5.68	121.15	108.88
1	r	444	ARG	NE-CZ-NH1	5.68	127.18	121.50
1	r	506	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
1	t	150	VAL	O-C-N	-5.68	115.47	122.57
1	t	564	ALA	CB-CA-C	-5.68	101.19	110.85
1	z	381	HIS	ND1-CE1-NE2	5.68	114.08	108.40
1	B	369	ARG	CD-NE-CZ	5.68	132.35	124.40
1	D	194	GLN	OE1-CD-NE2	-5.68	116.92	122.60
1	E	438	GLU	N-CA-C	-5.68	106.18	113.23
1	H	444	ARG	NH1-CZ-NH2	-5.68	111.91	119.30
1	H	567	MET	CB-CA-C	5.68	119.88	110.90
1	V	655	ARG	NH1-CZ-NH2	-5.68	111.91	119.30
1	Z	500	THR	OG1-CB-CG2	-5.68	97.93	109.30
1	6	662	GLN	N-CA-C	5.68	117.55	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	562	ALA	CA-C-N	5.68	127.83	120.44
1	e	562	ALA	C-N-CA	5.68	127.83	120.44
1	f	137	ALA	N-CA-CB	-5.68	100.66	110.32
1	o	471	LYS	CA-C-N	-5.68	113.59	121.77
1	o	471	LYS	C-N-CA	-5.68	113.59	121.77
1	q	701	GLN	CA-C-O	5.68	126.79	120.82
1	A	584	ILE	CA-C-O	5.68	126.97	119.53
1	C	449	ARG	NE-CZ-NH2	5.68	124.31	119.20
1	H	594	GLU	N-CA-C	5.68	117.55	111.36
1	5	455	ARG	O-C-N	-5.68	114.82	122.43
1	6	262	VAL	N-CA-C	5.68	116.94	108.54
1	6	683	SER	N-CA-C	5.68	117.47	111.28
1	9	226	LEU	CA-C-O	-5.68	114.77	120.96
1	f	98	ARG	NE-CZ-NH1	5.68	127.18	121.50
1	g	170	ARG	NH1-CZ-NH2	-5.68	111.92	119.30
1	p	417	ASP	N-CA-C	5.68	122.90	110.80
1	p	689	ARG	CA-CB-CG	5.68	125.46	114.10
1	r	560	HIS	CA-C-N	5.68	128.69	120.79
1	r	560	HIS	C-N-CA	5.68	128.69	120.79
1	w	563	LYS	CA-C-N	5.68	127.82	120.44
1	w	563	LYS	C-N-CA	5.68	127.82	120.44
1	w	660	SER	O-C-N	-5.68	115.67	122.15
1	z	705	ALA	O-C-N	-5.68	115.28	122.27
1	E	348	THR	CA-C-N	5.68	128.68	120.79
1	E	348	THR	C-N-CA	5.68	128.68	120.79
1	J	220	ASP	N-CA-CB	5.68	119.24	110.21
1	L	290	ILE	CB-CA-C	-5.68	102.37	110.83
1	O	226	LEU	CA-C-O	-5.68	114.79	120.64
1	P	487	TYR	CA-C-N	5.68	128.94	120.31
1	P	487	TYR	C-N-CA	5.68	128.94	120.31
1	R	687	THR	N-CA-C	5.68	117.15	111.07
1	9	521	GLN	CA-C-O	-5.68	114.53	120.55
1	i	317	PRO	O-C-N	-5.68	114.58	122.30
1	t	483	TYR	N-CA-CB	5.68	118.66	110.20
1	F	655	ARG	N-CA-C	5.68	117.95	111.02
1	K	93	TYR	CA-C-N	5.68	128.21	120.54
1	K	93	TYR	C-N-CA	5.68	128.21	120.54
1	Q	507	GLN	O-C-N	-5.68	116.10	122.12
1	S	395	GLU	O-C-N	-5.68	115.68	122.15
1	W	514	GLU	CA-C-N	5.68	125.29	119.56
1	W	514	GLU	C-N-CA	5.68	125.29	119.56
1	Z	504	ILE	CA-C-O	-5.68	114.83	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7	520	LEU	CA-C-O	-5.68	114.50	120.63
1	7	703	ARG	CA-C-N	5.68	127.82	120.44
1	7	703	ARG	C-N-CA	5.68	127.82	120.44
1	8	680	GLN	CB-CG-CD	5.68	122.25	112.60
1	8	683	SER	CA-C-O	5.68	126.44	120.42
1	c	104	ILE	N-CA-CB	5.68	119.10	110.58
1	e	516	ALA	CA-C-N	5.68	127.89	120.28
1	e	516	ALA	C-N-CA	5.68	127.89	120.28
1	h	575	GLU	CA-C-N	5.68	127.89	120.28
1	h	575	GLU	C-N-CA	5.68	127.89	120.28
1	o	696	ILE	CA-C-N	5.68	127.89	120.28
1	o	696	ILE	C-N-CA	5.68	127.89	120.28
1	r	625	GLU	O-C-N	-5.68	114.72	122.33
1	t	166	ALA	N-CA-C	5.68	122.89	110.80
1	u	188	LYS	O-C-N	-5.68	115.68	122.15
1	u	385	SER	CA-C-N	5.68	130.53	121.62
1	u	385	SER	C-N-CA	5.68	130.53	121.62
1	w	589	LEU	CA-C-N	5.68	128.16	120.38
1	w	589	LEU	C-N-CA	5.68	128.16	120.38
1	z	482	LYS	N-CA-C	5.68	117.47	111.28
1	z	511	GLN	OE1-CD-NE2	-5.68	116.92	122.60
1	I	341	GLU	CA-C-N	5.68	127.89	120.28
1	I	341	GLU	C-N-CA	5.68	127.89	120.28
1	J	309	ASN	OD1-CG-ND2	-5.68	116.92	122.60
1	M	628	ILE	O-C-N	-5.68	114.29	122.12
1	V	625	GLU	CA-C-O	5.68	126.50	119.97
1	Z	371	ALA	N-CA-C	5.68	118.20	111.33
1	0	556	ILE	CA-C-N	5.67	128.20	120.54
1	0	556	ILE	C-N-CA	5.67	128.20	120.54
1	1	323	MET	O-C-N	-5.67	115.81	123.19
1	4	355	TYR	O-C-N	-5.67	116.11	122.12
1	7	364	SER	O-C-N	-5.67	115.04	122.59
1	8	410	ASP	CA-CB-CG	-5.67	106.93	112.60
1	d	109	ALA	N-CA-C	5.67	117.14	111.07
1	e	544	ASN	CA-CB-CG	-5.67	106.92	112.60
1	n	253	ILE	CA-C-N	5.67	127.88	120.28
1	n	253	ILE	C-N-CA	5.67	127.88	120.28
1	w	627	GLY	N-CA-C	5.67	119.54	112.73
1	x	690	ARG	NE-CZ-NH1	5.67	127.17	121.50
1	y	559	LYS	CA-C-O	5.67	126.36	119.38
1	z	264	VAL	CA-C-O	-5.67	116.99	119.94
1	C	520	LEU	CA-C-N	5.67	127.88	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	520	LEU	C-N-CA	5.67	127.88	120.28
1	C	655	ARG	NE-CZ-NH2	-5.67	114.09	119.20
1	J	539	PHE	O-C-N	-5.67	114.94	122.20
1	J	596	ILE	O-C-N	-5.67	117.54	121.85
1	L	657	ASN	CA-C-N	5.67	126.28	119.98
1	L	657	ASN	C-N-CA	5.67	126.28	119.98
1	M	572	PHE	O-C-N	-5.67	116.10	122.12
1	O	641	LEU	N-CA-CB	5.67	118.24	110.01
1	W	701	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	X	682	GLN	CA-C-N	5.67	131.91	121.70
1	X	682	GLN	C-N-CA	5.67	131.91	121.70
1	5	552	THR	CB-CA-C	5.67	119.86	110.90
1	7	589	LEU	N-CA-C	5.67	118.40	111.82
1	b	531	PHE	N-CA-C	5.67	117.14	111.07
1	z	660	SER	CA-C-N	5.67	127.88	120.28
1	z	660	SER	C-N-CA	5.67	127.88	120.28
1	D	635	LEU	O-C-N	-5.67	116.23	122.07
1	W	282	VAL	O-C-N	-5.67	116.53	122.20
1	3	462	VAL	O-C-N	-5.67	116.14	121.87
1	e	668	ILE	N-CA-C	5.67	117.09	110.62
1	g	397	HIS	CB-CG-CD2	-5.67	123.83	131.20
1	i	430	ASN	CA-CB-CG	-5.67	106.93	112.60
1	i	450	LEU	CD1-CG-CD2	-5.67	98.32	110.80
1	k	690	ARG	NE-CZ-NH2	-5.67	114.09	119.20
1	n	547	GLN	O-C-N	-5.67	115.69	122.15
1	o	103	LEU	CA-C-O	-5.67	114.83	120.90
1	o	174	ARG	N-CA-CB	-5.67	101.84	110.92
1	p	409	ALA	N-CA-C	5.67	122.88	110.80
1	x	160	LYS	N-CA-CB	5.67	120.61	110.80
1	z	395	GLU	CB-CA-C	5.67	119.78	110.88
1	A	482	LYS	O-C-N	-5.67	115.30	122.27
1	J	668	ILE	O-C-N	-5.67	116.37	121.87
1	O	449	ARG	NH1-CZ-NH2	-5.67	111.93	119.30
1	S	361	GLU	N-CA-C	5.67	117.27	111.14
1	V	305	LYS	O-C-N	-5.67	116.11	122.12
1	Z	309	ASN	N-CA-C	5.67	117.94	111.02
1	Z	576	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	1	506	HIS	CG-CD2-NE2	5.67	112.87	107.20
1	2	650	GLN	CA-C-O	5.67	126.51	120.10
1	k	231	ARG	O-C-N	5.67	129.14	122.34
1	r	576	GLN	N-CA-C	5.67	117.54	111.36
1	x	628	ILE	O-C-N	-5.67	115.99	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	281	GLU	N-CA-C	5.67	118.19	111.33
1	0	563	LYS	N-CA-C	5.67	117.14	111.07
1	3	161	LYS	CA-C-N	5.67	130.23	122.07
1	3	161	LYS	C-N-CA	5.67	130.23	122.07
1	3	469	THR	CA-CB-OG1	5.67	118.10	109.60
1	j	553	ILE	CA-C-N	5.67	127.81	120.44
1	j	553	ILE	C-N-CA	5.67	127.81	120.44
1	m	631	ASN	O-C-N	-5.67	115.69	122.15
1	p	521	GLN	N-CA-C	5.67	117.46	111.28
1	q	410	ASP	O-C-N	5.67	128.13	122.12
1	q	560	HIS	CG-CD2-NE2	5.67	112.87	107.20
1	t	706	LEU	CA-C-O	5.67	126.43	120.42
1	v	302	GLY	CA-C-N	5.67	130.31	120.68
1	v	302	GLY	C-N-CA	5.67	130.31	120.68
1	B	494	GLY	O-C-N	-5.67	115.33	122.70
1	D	98	ARG	NE-CZ-NH2	5.67	124.30	119.20
1	G	708	GLN	CA-C-N	5.67	128.19	120.54
1	G	708	GLN	C-N-CA	5.67	128.19	120.54
1	I	336	ARG	NE-CZ-NH1	5.67	127.17	121.50
1	M	305	LYS	N-CA-C	5.67	117.46	111.28
1	O	268	VAL	CA-C-N	5.67	128.81	120.82
1	O	268	VAL	C-N-CA	5.67	128.81	120.82
1	Q	510	GLN	N-CA-C	5.67	118.23	111.71
1	Y	657	ASN	CA-CB-CG	5.67	118.27	112.60
1	3	408	GLY	CA-C-N	5.67	133.22	121.32
1	3	408	GLY	C-N-CA	5.67	133.22	121.32
1	8	305	LYS	CA-C-O	5.67	126.35	119.38
1	c	560	HIS	ND1-CE1-NE2	5.67	114.07	108.40
1	d	708	GLN	N-CA-C	5.67	117.54	111.36
1	j	509	ILE	CA-C-O	5.67	126.59	120.47
1	t	495	PHE	CA-CB-CG	-5.67	108.13	113.80
1	u	161	LYS	O-C-N	-5.67	116.32	123.01
1	v	515	PRO	CB-CA-C	5.67	120.38	112.11
1	z	455	ARG	N-CA-CB	5.67	118.45	110.12
1	A	434	GLU	CA-C-O	5.67	126.49	119.97
1	B	478	GLU	N-CA-C	-5.67	106.50	113.41
1	C	160	LYS	N-CA-CB	5.67	118.64	110.37
1	D	686	ALA	CA-C-O	5.67	126.77	120.82
1	H	257	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	J	543	PHE	O-C-N	-5.67	115.97	122.09
1	L	565	GLU	N-CA-C	5.67	117.46	111.28
1	P	453	LYS	CA-C-N	5.67	128.22	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	453	LYS	C-N-CA	5.67	128.22	120.46
1	P	680	GLN	N-CA-C	5.67	118.23	110.24
1	B	454	ILE	CA-CB-CG2	5.67	120.13	110.50
1	H	185	GLN	CA-C-N	5.67	128.47	120.42
1	H	185	GLN	C-N-CA	5.67	128.47	120.42
1	P	125	GLY	O-C-N	-5.67	117.00	123.23
1	W	137	ALA	CA-C-N	5.67	128.33	120.29
1	W	137	ALA	C-N-CA	5.67	128.33	120.29
1	0	161	LYS	O-C-N	-5.66	115.83	123.19
1	1	154	PRO	CB-CA-C	5.66	116.55	111.40
1	5	232	VAL	CB-CA-C	-5.66	103.79	111.15
1	8	281	GLU	N-CA-C	5.66	117.45	111.28
1	a	232	VAL	O-C-N	-5.66	117.08	123.03
1	f	538	HIS	CG-CD2-NE2	5.66	112.86	107.20
1	h	237	GLN	O-C-N	-5.66	114.81	121.32
1	i	453	LYS	N-CA-C	5.66	117.45	111.28
1	i	667	GLN	OE1-CD-NE2	-5.66	116.94	122.60
1	o	659	ASP	CA-CB-CG	5.66	118.26	112.60
1	s	135	LEU	N-CA-C	5.66	117.45	111.28
1	C	256	GLN	N-CA-C	5.66	117.45	111.28
1	C	403	GLU	CA-C-N	5.66	127.87	120.28
1	C	403	GLU	C-N-CA	5.66	127.87	120.28
1	J	559	LYS	N-CA-C	5.66	118.18	111.33
1	P	431	GLN	CA-C-O	5.66	126.55	120.55
1	T	560	HIS	CE1-NE2-CD2	-5.66	103.34	109.00
1	U	596	ILE	CA-C-N	5.66	127.87	120.28
1	U	596	ILE	C-N-CA	5.66	127.87	120.28
1	X	573	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
1	Z	431	GLN	CA-C-O	-5.66	114.42	120.42
1	2	438	GLU	CB-CG-CD	5.66	122.22	112.60
1	5	529	GLN	CA-C-N	5.66	127.80	120.44
1	5	529	GLN	C-N-CA	5.66	127.80	120.44
1	a	162	GLN	N-CA-C	-5.66	99.25	108.82
1	a	488	ARG	CA-C-O	5.66	126.96	120.90
1	g	195	ASN	OD1-CG-ND2	-5.66	116.94	122.60
1	B	701	GLN	CB-CA-C	-5.66	101.22	110.85
1	3	705	ALA	O-C-N	-5.66	116.12	122.12
1	c	153	CYS	CA-C-N	5.66	126.92	119.84
1	c	153	CYS	C-N-CA	5.66	126.92	119.84
1	o	464	ILE	CA-C-O	5.66	126.36	120.25
1	p	194	GLN	OE1-CD-NE2	5.66	128.26	122.60
1	q	288	ARG	NH1-CZ-NH2	-5.66	111.94	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	r	697	TYR	N-CA-CB	-5.66	101.80	110.01
1	z	573	ARG	NE-CZ-NH2	5.66	124.30	119.20
1	A	417	ASP	CA-CB-CG	5.66	118.26	112.60
1	J	631	ASN	CA-C-N	5.66	127.80	120.44
1	J	631	ASN	C-N-CA	5.66	127.80	120.44
1	L	136	GLU	CA-C-N	5.66	128.43	120.28
1	L	136	GLU	C-N-CA	5.66	128.43	120.28
1	T	227	PRO	N-CA-CB	5.66	108.23	103.25
1	U	211	LEU	O-C-N	-5.66	116.31	123.05
1	U	280	HIS	CG-CD2-NE2	5.66	112.86	107.20
1	Y	301	ARG	O-C-N	-5.66	115.75	122.65
1	Z	208	LEU	N-CA-C	5.66	118.27	110.35
1	2	431	GLN	OE1-CD-NE2	-5.66	116.94	122.60
1	5	267	ASN	OD1-CG-ND2	-5.66	116.94	122.60
1	a	592	VAL	CA-C-N	5.66	128.43	121.64
1	a	592	VAL	C-N-CA	5.66	128.43	121.64
1	k	294	THR	O-C-N	-5.66	116.21	122.72
1	m	191	HIS	CA-CB-CG	5.66	119.46	113.80
1	v	117	ALA	CA-C-O	-5.66	114.42	120.42
1	v	179	GLU	O-C-N	-5.66	116.06	123.02
1	v	215	SER	CA-C-O	-5.66	114.27	119.76
1	x	201	GLY	CA-C-N	5.66	128.91	120.31
1	x	201	GLY	C-N-CA	5.66	128.91	120.31
1	A	98	ARG	CA-C-O	5.66	123.83	118.34
1	B	226	LEU	N-CA-C	5.66	117.75	110.39
1	F	199	GLY	CA-C-N	5.66	130.78	122.63
1	F	199	GLY	C-N-CA	5.66	130.78	122.63
1	M	393	ILE	CA-C-N	5.66	127.80	120.44
1	M	393	ILE	C-N-CA	5.66	127.80	120.44
1	Q	469	THR	N-CA-C	5.66	118.22	111.71
1	U	132	SER	CA-C-N	5.66	127.86	120.28
1	U	132	SER	C-N-CA	5.66	127.86	120.28
1	Y	163	PRO	CA-C-N	5.66	129.74	121.31
1	Y	163	PRO	C-N-CA	5.66	129.74	121.31
1	g	343	THR	OG1-CB-CG2	-5.66	97.99	109.30
1	r	331	GLN	CG-CD-NE2	-5.66	107.92	116.40
1	S	402	GLU	O-C-N	-5.66	116.21	122.09
1	U	161	LYS	O-C-N	-5.66	116.57	123.19
1	3	182	ASP	N-CA-CB	-5.66	99.64	110.27
1	4	586	SER	N-CA-CB	5.66	118.43	110.12
1	7	341	GLU	CA-C-N	5.66	127.79	120.44
1	7	341	GLU	C-N-CA	5.66	127.79	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	9	217	GLU	N-CA-C	5.66	117.12	111.07
1	g	648	ILE	CA-C-O	-5.66	115.18	121.17
1	g	708	GLN	N-CA-C	5.66	117.52	111.36
1	n	561	THR	CA-CB-OG1	5.66	118.08	109.60
1	t	94	GLU	CA-C-O	5.66	126.49	120.10
1	t	122	ALA	N-CA-C	5.66	118.12	108.90
1	v	133	SER	N-CA-C	5.66	117.45	111.28
1	B	534	VAL	CA-CB-CG1	5.66	120.01	110.40
1	C	467	THR	CA-C-N	5.66	128.13	120.38
1	C	467	THR	C-N-CA	5.66	128.13	120.38
1	D	451	TYR	CA-C-O	5.66	126.55	120.55
1	G	369	ARG	N-CA-CB	-5.66	102.27	110.47
1	H	241	ILE	N-CA-C	-5.66	104.85	110.62
1	H	405	ARG	NH1-CZ-NH2	-5.66	111.95	119.30
1	L	554	GLU	CA-C-O	5.66	126.76	120.82
1	N	479	GLU	CA-C-N	5.66	128.50	120.53
1	N	479	GLU	C-N-CA	5.66	128.50	120.53
1	O	687	THR	N-CA-C	5.66	117.13	110.97
1	O	704	HIS	N-CA-C	5.66	117.44	111.28
1	P	397	HIS	CE1-NE2-CD2	-5.66	103.34	109.00
1	Q	296	PRO	CA-C-N	5.66	128.42	120.28
1	Q	296	PRO	C-N-CA	5.66	128.42	120.28
1	Y	366	THR	N-CA-C	-5.66	106.54	113.50
1	G	704	HIS	CB-CG-CD2	-5.65	123.85	131.20
1	P	264	VAL	CA-C-O	5.65	127.53	119.95
1	2	658	GLY	CA-C-N	5.65	128.31	120.29
1	2	658	GLY	C-N-CA	5.65	128.31	120.29
1	3	94	GLU	N-CA-C	5.65	117.89	111.11
1	3	353	HIS	CE1-NE2-CD2	-5.65	103.35	109.00
1	3	564	ALA	N-CA-C	5.65	117.52	111.36
1	4	387	PRO	N-CA-CB	5.65	109.51	103.52
1	c	118	LEU	N-CA-C	5.65	122.30	109.81
1	d	658	GLY	CA-C-O	5.65	126.65	120.66
1	e	506	HIS	CA-C-O	5.65	126.95	120.90
1	i	334	THR	N-CA-CB	5.65	118.50	110.13
1	y	651	TYR	N-CA-CB	-5.65	101.78	109.98
1	z	309	ASN	N-CA-C	5.65	117.52	111.36
1	B	483	TYR	CA-C-N	5.65	128.90	120.31
1	B	483	TYR	C-N-CA	5.65	128.90	120.31
1	D	338	SER	CB-CA-C	5.65	119.94	109.54
1	D	668	ILE	N-CA-CB	5.65	118.23	110.54
1	E	180	LEU	CB-CA-C	-5.65	99.88	109.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	386	LEU	O-C-N	5.65	125.92	120.55
1	I	636	GLU	CA-C-N	5.65	127.85	120.28
1	I	636	GLU	C-N-CA	5.65	127.85	120.28
1	O	301	ARG	NE-CZ-NH1	5.65	127.15	121.50
1	Q	395	GLU	N-CA-CB	5.65	119.00	110.30
1	Q	520	LEU	CA-C-N	5.65	127.79	120.44
1	Q	520	LEU	C-N-CA	5.65	127.79	120.44
1	X	194	GLN	CA-C-O	-5.65	114.56	120.55
1	X	318	LEU	O-C-N	-5.65	116.43	123.04
1	1	682	GLN	N-CA-C	5.65	118.17	111.33
1	3	423	ILE	N-CA-C	5.65	115.84	110.42
1	4	293	LEU	CA-C-N	5.65	132.64	122.64
1	4	293	LEU	C-N-CA	5.65	132.64	122.64
1	6	361	GLU	N-CA-C	5.65	117.44	111.28
1	d	661	LEU	CA-C-N	5.65	128.31	120.29
1	d	661	LEU	C-N-CA	5.65	128.31	120.29
1	g	385	SER	CB-CA-C	-5.65	100.62	110.17
1	i	704	HIS	ND1-CG-CD2	-5.65	100.45	106.10
1	k	477	HIS	CE1-NE2-CD2	-5.65	103.35	109.00
1	n	117	ALA	CA-C-O	5.65	130.08	122.51
1	p	160	LYS	CA-C-N	5.65	130.28	122.77
1	p	160	LYS	C-N-CA	5.65	130.28	122.77
1	s	414	GLN	OE1-CD-NE2	-5.65	116.95	122.60
1	t	350	PHE	CA-CB-CG	-5.65	108.15	113.80
1	x	648	ILE	CA-C-O	5.65	127.15	121.27
1	z	507	GLN	N-CA-C	5.65	117.12	111.07
1	B	540	GLY	O-C-N	-5.65	116.69	122.17
1	H	494	GLY	CA-C-N	5.65	131.87	121.70
1	H	494	GLY	C-N-CA	5.65	131.87	121.70
1	P	460	ASN	O-C-N	-5.65	116.13	122.12
1	1	450	LEU	CA-C-N	5.65	127.85	120.28
1	1	450	LEU	C-N-CA	5.65	127.85	120.28
1	9	129	SER	N-CA-C	5.65	119.43	112.54
1	9	524	MET	CA-CB-CG	5.65	125.40	114.10
1	n	245	ILE	N-CA-CB	5.65	116.78	110.51
1	t	474	ASN	CA-C-N	5.65	128.20	120.46
1	t	474	ASN	C-N-CA	5.65	128.20	120.46
1	A	394	ARG	CA-C-N	5.65	128.90	120.31
1	A	394	ARG	C-N-CA	5.65	128.90	120.31
1	H	354	PRO	O-C-N	-5.65	115.01	122.64
1	H	502	GLU	CA-C-N	5.65	128.20	120.46
1	H	502	GLU	C-N-CA	5.65	128.20	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	486	GLN	N-CA-C	5.65	117.52	111.36
1	N	577	MET	O-C-N	-5.65	116.08	122.97
1	P	395	GLU	N-CA-CB	5.65	118.52	110.16
1	T	269	ASP	O-C-N	-5.65	115.86	122.81
1	0	466	ALA	CA-C-N	5.65	127.85	120.28
1	0	466	ALA	C-N-CA	5.65	127.85	120.28
1	6	103	LEU	O-C-N	-5.65	116.25	122.07
1	9	412	PRO	CB-CA-C	5.65	117.72	111.56
1	b	657	ASN	O-C-N	-5.65	116.25	122.07
1	g	188	LYS	CB-CG-CD	5.65	124.29	111.30
1	m	174	ARG	NE-CZ-NH2	-5.65	114.12	119.20
1	m	640	ARG	NH1-CZ-NH2	-5.65	111.96	119.30
1	n	409	ALA	N-CA-C	5.65	122.83	110.80
1	r	198	ALA	CA-C-N	5.65	132.48	121.41
1	r	198	ALA	C-N-CA	5.65	132.48	121.41
1	t	635	LEU	CA-C-O	-5.65	114.86	120.90
1	u	584	ILE	CA-CB-CG1	5.65	120.00	110.40
1	x	396	SER	CA-C-N	5.65	127.85	120.28
1	x	396	SER	C-N-CA	5.65	127.85	120.28
1	E	138	LEU	CA-C-N	5.65	128.89	120.31
1	E	138	LEU	C-N-CA	5.65	128.89	120.31
1	E	425	LYS	O-C-N	-5.65	116.13	122.12
1	G	643	ASN	CA-CB-CG	5.65	118.25	112.60
1	H	166	ALA	N-CA-C	5.65	118.42	110.23
1	J	140	GLY	CA-C-N	5.65	130.36	122.23
1	J	140	GLY	C-N-CA	5.65	130.36	122.23
1	K	191	HIS	ND1-CE1-NE2	5.65	114.05	108.40
1	M	539	PHE	CA-CB-CG	5.65	119.45	113.80
1	R	676	SER	N-CA-C	5.65	117.44	111.28
1	S	136	GLU	CA-C-O	5.65	126.32	119.49
1	d	255	ARG	CD-NE-CZ	5.65	132.30	124.40
1	s	392	GLN	CA-C-O	-5.65	114.56	120.55
1	u	695	ARG	N-CA-C	5.65	117.11	111.07
1	I	663	LYS	N-CA-C	5.65	117.44	111.28
1	Z	546	ASN	N-CA-C	5.65	117.43	111.28
1	2	524	MET	CA-C-O	5.64	126.53	120.55
1	5	167	TRP	CZ3-CH2-CZ2	5.64	128.84	121.50
1	8	517	LEU	CA-C-O	5.64	126.53	120.55
1	b	534	VAL	CA-C-N	5.64	127.78	120.44
1	b	534	VAL	C-N-CA	5.64	127.78	120.44
1	e	246	LYS	CA-C-O	5.64	126.73	120.63
1	l	386	LEU	N-CA-C	5.64	121.18	113.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	q	326	LYS	CA-CB-CG	5.64	125.39	114.10
1	F	96	LYS	N-CA-C	5.64	118.52	111.24
1	I	131	LYS	N-CA-CB	5.64	118.19	110.01
1	J	506	HIS	N-CA-C	5.64	117.43	111.28
1	R	246	LYS	O-C-N	-5.64	115.71	122.15
1	R	336	ARG	N-CA-CB	-5.64	102.19	110.26
1	S	476	ILE	N-CA-CB	5.64	118.22	110.54
1	S	625	GLU	N-CA-C	5.64	117.43	111.28
1	T	273	THR	N-CA-CB	5.64	118.87	110.29
1	U	660	SER	CB-CA-C	5.64	119.74	110.88
1	0	367	VAL	CA-C-N	5.64	125.97	119.93
1	0	367	VAL	C-N-CA	5.64	125.97	119.93
1	0	500	THR	N-CA-CB	5.64	118.42	110.12
1	1	315	THR	O-C-N	-5.64	116.14	122.12
1	5	308	MET	CA-CB-CG	5.64	125.39	114.10
1	7	626	ILE	CA-C-N	5.64	126.21	120.00
1	7	626	ILE	C-N-CA	5.64	126.21	120.00
1	8	152	ARG	NE-CZ-NH2	-5.64	114.12	119.20
1	h	385	SER	O-C-N	-5.64	114.58	122.37
1	j	213	ILE	O-C-N	-5.64	117.11	123.20
1	n	175	ASN	OD1-CG-ND2	-5.64	116.96	122.60
1	p	368	PRO	N-CA-C	5.64	124.09	112.47
1	y	637	THR	N-CA-C	5.64	117.43	111.28
1	B	426	ILE	CA-CB-CG2	5.64	120.09	110.50
1	D	236	ASN	N-CA-CB	5.64	118.58	110.06
1	F	212	GLU	O-C-N	-5.64	116.04	123.21
1	G	398	GLN	N-CA-C	-5.64	105.21	111.36
1	I	469	THR	CA-CB-OG1	5.64	118.06	109.60
1	J	663	LYS	CA-C-N	5.64	128.11	120.38
1	J	663	LYS	C-N-CA	5.64	128.11	120.38
1	P	410	ASP	CA-C-O	-5.64	111.21	120.80
1	X	175	ASN	OD1-CG-ND2	-5.64	116.96	122.60
1	v	646	PRO	CA-C-N	5.64	127.84	120.28
1	v	646	PRO	C-N-CA	5.64	127.84	120.28
1	x	589	LEU	CB-CA-C	-5.64	102.02	110.88
1	A	125	GLY	N-CA-C	-5.64	102.85	110.80
1	B	536	LYS	CA-C-N	5.64	127.77	120.44
1	B	536	LYS	C-N-CA	5.64	127.77	120.44
1	I	537	LYS	O-C-N	-5.64	114.77	122.33
1	N	111	GLY	N-CA-C	5.64	119.81	112.25
1	1	169	GLY	CA-C-O	-5.64	116.66	121.57
1	2	220	ASP	CA-CB-CG	5.64	118.24	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	6	422	LEU	N-CA-CB	5.64	118.19	110.01
1	6	544	ASN	N-CA-C	5.64	117.10	111.07
1	g	443	VAL	CA-C-O	-5.64	116.05	121.63
1	h	152	ARG	CA-C-O	5.64	126.10	119.28
1	i	708	GLN	N-CA-C	5.64	117.11	111.07
1	q	577	MET	N-CA-C	5.64	118.20	111.71
1	s	706	LEU	N-CA-CB	-5.64	101.83	110.01
1	t	366	THR	CA-CB-OG1	5.64	118.06	109.60
1	x	170	ARG	NE-CZ-NH1	5.64	127.14	121.50
1	y	369	ARG	O-C-N	-5.64	115.42	122.24
1	E	543	PHE	CA-C-N	5.64	127.84	120.28
1	E	543	PHE	C-N-CA	5.64	127.84	120.28
1	F	369	ARG	N-CA-CB	5.64	119.88	110.41
1	G	471	LYS	CA-C-N	5.64	130.40	121.09
1	G	471	LYS	C-N-CA	5.64	130.40	121.09
1	H	239	ARG	O-C-N	-5.64	113.98	123.00
1	I	311	VAL	CA-C-O	5.64	126.81	120.95
1	K	131	LYS	CA-C-N	5.64	127.84	120.28
1	K	131	LYS	C-N-CA	5.64	127.84	120.28
1	K	694	GLU	CA-CB-CG	5.64	125.38	114.10
1	U	236	ASN	CA-CB-CG	-5.64	106.96	112.60
1	V	240	ASP	CB-CA-C	5.64	120.82	110.10
1	W	193	ALA	N-CA-C	5.64	117.10	111.07
1	W	342	ALA	N-CA-CB	5.64	118.41	110.12
1	4	165	GLU	N-CA-C	5.64	117.57	110.24
1	9	338	SER	N-CA-C	5.64	117.80	110.53
1	q	428	MET	CA-C-O	-5.64	114.44	120.42
1	r	333	ILE	N-CA-CB	5.64	118.92	111.25
1	v	313	ASN	N-CA-C	-5.64	105.61	112.88
1	A	298	LEU	N-CA-C	5.64	117.50	111.36
1	E	338	SER	N-CA-C	5.64	117.34	110.41
1	F	426	ILE	N-CA-C	5.64	115.83	110.42
1	3	459	LYS	CB-CA-C	5.64	120.43	110.85
1	4	451	TYR	CB-CG-CD2	-5.64	112.35	120.80
1	9	410	ASP	CA-CB-CG	5.64	118.24	112.60
1	g	226	LEU	O-C-N	-5.64	115.33	121.53
1	h	665	MET	N-CA-C	5.64	117.42	111.28
1	l	673	ASN	CA-CB-CG	-5.64	106.96	112.60
1	n	392	GLN	CG-CD-OE1	5.64	132.07	120.80
1	n	554	GLU	CA-C-O	5.64	126.53	120.55
1	o	370	LEU	N-CA-C	5.64	120.61	111.37
1	p	152	ARG	N-CA-C	-5.64	106.22	114.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	s	383	GLN	N-CA-CB	5.64	119.02	110.28
1	u	199	GLY	CA-C-N	5.64	132.30	121.54
1	u	199	GLY	C-N-CA	5.64	132.30	121.54
1	v	431	GLN	CB-CG-CD	5.64	122.18	112.60
1	w	655	ARG	NE-CZ-NH1	5.64	127.14	121.50
1	C	410	ASP	CA-C-O	5.64	126.91	120.71
1	K	206	HIS	CE1-NE2-CD2	-5.64	103.36	109.00
1	R	424	GLU	N-CA-CB	5.64	118.41	110.12
1	W	232	VAL	CA-C-O	5.64	127.25	121.28
1	0	668	ILE	CB-CA-C	5.63	119.75	112.14
1	6	698	ARG	CB-CG-CD	5.63	124.26	111.30
1	e	121	ILE	O-C-N	-5.63	116.06	122.94
1	g	108	ARG	CA-C-O	-5.63	114.90	120.82
1	g	427	LYS	CA-C-O	5.63	126.39	120.42
1	l	587	VAL	O-C-N	-5.63	115.58	122.12
1	o	257	GLN	CA-C-O	5.63	125.94	119.35
1	r	669	LEU	O-C-N	-5.63	115.12	122.39
1	z	307	VAL	CB-CA-C	-5.63	104.44	112.22
1	B	637	THR	CA-C-O	5.63	126.52	120.55
1	C	308	MET	CB-CA-C	5.63	120.14	110.79
1	K	407	CYS	CB-CA-C	5.63	118.85	109.38
1	M	255	ARG	CG-CD-NE	-5.63	99.60	112.00
1	M	543	PHE	CA-CB-CG	-5.63	108.17	113.80
1	N	676	SER	O-C-N	-5.63	115.34	122.27
1	P	640	ARG	NE-CZ-NH1	5.63	127.14	121.50
1	Q	593	ARG	NE-CZ-NH1	5.63	127.14	121.50
1	U	649	ILE	CA-C-N	5.63	128.29	120.29
1	U	649	ILE	C-N-CA	5.63	128.29	120.29
1	W	164	CYS	CA-C-O	-5.63	115.57	121.99
1	5	309	ASN	O-C-N	-5.63	116.27	122.07
1	8	474	ASN	O-C-N	5.63	128.81	122.22
1	8	647	PHE	CA-C-N	5.63	127.66	120.56
1	8	647	PHE	C-N-CA	5.63	127.66	120.56
1	9	521	GLN	N-CA-C	5.63	117.42	111.28
1	c	270	ILE	CA-C-N	5.63	127.76	120.44
1	c	270	ILE	C-N-CA	5.63	127.76	120.44
1	g	448	THR	CA-CB-OG1	5.63	118.05	109.60
1	n	253	ILE	N-CA-C	5.63	120.00	111.89
1	o	305	LYS	O-C-N	-5.63	116.15	122.12
1	p	518	SER	CA-C-N	5.63	128.14	120.54
1	p	518	SER	C-N-CA	5.63	128.14	120.54
1	v	595	GLU	N-CA-C	5.63	117.50	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	z	99	PRO	N-CA-CB	5.63	109.75	103.44
1	E	191	HIS	N-CA-C	5.63	117.87	111.11
1	F	250	LYS	CA-C-N	5.63	129.61	120.60
1	F	250	LYS	C-N-CA	5.63	129.61	120.60
1	Y	359	LEU	CA-C-N	5.63	128.15	120.54
1	Y	359	LEU	C-N-CA	5.63	128.15	120.54
1	2	219	PRO	O-C-N	-5.63	116.10	122.91
1	8	517	LEU	O-C-N	-5.63	116.15	122.12
1	9	105	ASP	N-CA-C	5.63	117.09	111.07
1	c	195	ASN	N-CA-CB	5.63	118.13	109.91
1	c	460	ASN	O-C-N	-5.63	115.34	122.27
1	h	305	LYS	CA-C-O	5.63	126.39	120.42
1	o	364	SER	N-CA-CB	5.63	120.01	110.49
1	p	252	TYR	CA-CB-CG	-5.63	103.76	113.90
1	p	589	LEU	N-CA-CB	-5.63	101.61	110.06
1	r	671	GLU	O-C-N	-5.63	116.74	123.27
1	A	144	PRO	N-CA-C	5.63	120.05	111.15
1	B	145	ARG	N-CA-C	5.63	119.87	112.89
1	G	503	ILE	CA-C-N	5.63	128.18	120.46
1	G	503	ILE	C-N-CA	5.63	128.18	120.46
1	N	576	GLN	O-C-N	-5.63	115.73	122.15
1	O	265	PRO	N-CA-CB	5.63	108.25	103.35
1	Q	420	PHE	CA-C-O	-5.63	114.88	120.90
1	S	241	ILE	CA-C-N	5.63	126.34	120.03
1	S	241	ILE	C-N-CA	5.63	126.34	120.03
1	V	413	SER	CA-C-N	5.63	129.78	120.94
1	V	413	SER	C-N-CA	5.63	129.78	120.94
1	8	225	ASP	O-C-N	-5.63	116.17	122.93
1	8	266	CYS	CA-C-O	-5.63	114.55	120.63
1	g	274	GLU	CA-C-O	5.63	126.52	120.55
1	i	301	ARG	NE-CZ-NH2	-5.63	114.13	119.20
1	l	401	THR	N-CA-CB	5.63	118.23	110.07
1	n	449	ARG	NE-CZ-NH1	5.63	127.13	121.50
1	r	555	ASP	CA-CB-CG	-5.63	106.97	112.60
1	A	645	ILE	N-CA-CB	5.63	114.84	110.45
1	Z	250	LYS	N-CA-C	5.63	117.09	111.07
1	0	436	LEU	O-C-N	-5.63	116.01	122.09
1	1	180	LEU	CA-C-N	5.63	132.29	121.54
1	1	180	LEU	C-N-CA	5.63	132.29	121.54
1	1	497	ASN	CB-CA-C	5.63	119.52	110.29
1	8	501	PHE	CA-C-O	5.63	126.39	120.42
1	8	519	MET	CA-C-N	5.63	127.76	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8	519	MET	C-N-CA	5.63	127.76	120.44
1	a	690	ARG	CA-C-O	5.63	126.44	119.97
1	j	265	PRO	N-CA-C	5.63	120.44	111.26
1	m	154	PRO	N-CA-CB	5.63	108.18	103.17
1	m	189	GLU	CA-C-O	5.63	126.52	120.55
1	t	461	TRP	CA-C-O	5.63	126.39	120.42
1	B	542	PHE	CA-C-N	5.63	128.14	120.54
1	B	542	PHE	C-N-CA	5.63	128.14	120.54
1	D	199	GLY	CA-C-N	5.63	132.29	121.54
1	D	199	GLY	C-N-CA	5.63	132.29	121.54
1	E	266	CYS	CA-C-O	5.63	126.46	120.10
1	E	342	ALA	N-CA-C	5.63	117.42	111.28
1	G	242	GLY	CA-C-O	5.63	126.31	120.80
1	G	661	LEU	N-CA-C	5.63	117.09	111.07
1	J	366	THR	O-C-N	-5.63	114.89	122.43
1	K	538	HIS	CA-CB-CG	-5.63	108.17	113.80
1	R	98	ARG	NE-CZ-NH1	5.63	127.13	121.50
1	S	177	GLU	O-C-N	-5.63	116.45	123.04
1	Z	353	HIS	CA-C-O	-5.63	115.05	119.66
1	0	691	ILE	CB-CA-C	5.63	121.33	112.16
1	3	380	MET	O-C-N	-5.63	116.28	122.07
1	9	406	ARG	NH1-CZ-NH2	-5.63	111.98	119.30
1	a	497	ASN	CA-C-N	5.63	127.75	120.44
1	a	497	ASN	C-N-CA	5.63	127.75	120.44
1	e	190	ILE	CA-CB-CG2	5.63	120.06	110.50
1	e	645	ILE	CA-C-O	5.63	122.46	118.69
1	m	98	ARG	CA-C-N	5.63	126.87	119.84
1	m	98	ARG	C-N-CA	5.63	126.87	119.84
1	p	431	GLN	O-C-N	-5.63	116.16	122.12
1	u	469	THR	CA-CB-OG1	5.63	118.04	109.60
1	w	186	VAL	N-CA-C	5.63	116.27	110.36
1	x	686	ALA	CA-C-N	5.63	127.82	120.28
1	x	686	ALA	C-N-CA	5.63	127.82	120.28
1	F	295	LYS	O-C-N	-5.63	114.85	121.32
1	I	278	MET	O-C-N	-5.63	116.16	122.12
1	I	591	LYS	N-CA-C	5.63	117.09	111.07
1	K	122	ALA	O-C-N	-5.63	116.73	123.31
1	K	519	MET	CA-C-N	5.63	127.75	120.44
1	K	519	MET	C-N-CA	5.63	127.75	120.44
1	O	469	THR	N-CA-CB	5.63	118.88	110.22
1	R	131	LYS	CA-C-O	5.63	126.51	120.55
1	Z	226	LEU	CA-C-N	5.63	125.95	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	226	LEU	C-N-CA	5.63	125.95	119.93
1	4	283	ASP	CA-CB-CG	5.62	118.22	112.60
1	k	277	SER	N-CA-C	5.62	117.09	111.07
1	m	477	HIS	CA-C-N	5.62	127.75	120.44
1	m	477	HIS	C-N-CA	5.62	127.75	120.44
1	n	228	GLY	CA-C-N	5.62	131.14	121.63
1	n	228	GLY	C-N-CA	5.62	131.14	121.63
1	v	331	GLN	O-C-N	-5.62	116.61	123.30
1	A	195	ASN	CA-CB-CG	5.62	118.22	112.60
1	C	644	GLN	CA-C-O	-5.62	114.91	120.82
1	L	207	GLU	CA-C-N	5.62	131.70	121.97
1	L	207	GLU	C-N-CA	5.62	131.70	121.97
1	N	697	TYR	CA-C-N	5.62	127.82	120.28
1	N	697	TYR	C-N-CA	5.62	127.82	120.28
1	0	593	ARG	NE-CZ-NH1	5.62	127.12	121.50
1	2	455	ARG	NE-CZ-NH1	-5.62	115.88	121.50
1	9	505	VAL	CB-CA-C	5.62	119.39	112.02
1	j	101	ILE	N-CA-CB	5.62	117.13	110.55
1	m	444	ARG	CB-CG-CD	5.62	124.23	111.30
1	m	641	LEU	CA-C-N	5.62	128.09	120.38
1	m	641	LEU	C-N-CA	5.62	128.09	120.38
1	t	549	VAL	CB-CA-C	5.62	119.17	111.97
1	u	360	LEU	N-CA-CB	-5.62	101.82	110.20
1	y	629	HIS	ND1-CE1-NE2	5.62	114.02	108.40
1	C	386	LEU	O-C-N	-5.62	115.13	120.70
1	E	685	THR	N-CA-C	5.62	117.41	111.28
1	J	299	MET	CB-CA-C	-5.62	100.03	109.65
1	M	141	VAL	CA-CB-CG2	5.62	119.96	110.40
1	O	526	ILE	O-C-N	-5.62	115.44	121.80
1	P	174	ARG	NE-CZ-NH2	5.62	124.26	119.20
1	W	349	PHE	CA-CB-CG	5.62	119.42	113.80
1	W	703	ARG	N-CA-C	5.62	117.09	111.07
1	X	704	HIS	CE1-NE2-CD2	-5.62	103.38	109.00
1	Y	400	ALA	N-CA-CB	-5.62	101.86	110.01
1	Z	625	GLU	O-C-N	-5.62	116.28	122.07
1	6	326	LYS	CA-C-O	-5.62	114.51	120.92
1	9	410	ASP	CA-C-N	5.62	131.82	121.70
1	9	410	ASP	C-N-CA	5.62	131.82	121.70
1	f	377	GLU	CA-C-N	5.62	127.81	120.28
1	f	377	GLU	C-N-CA	5.62	127.81	120.28
1	g	639	LYS	N-CA-C	5.62	117.41	111.28
1	n	236	ASN	N-CA-C	5.62	118.60	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	r	531	PHE	CA-C-N	5.62	127.64	120.56
1	r	531	PHE	C-N-CA	5.62	127.64	120.56
1	D	546	ASN	CA-C-O	5.62	126.45	120.10
1	G	190	ILE	N-CA-CB	5.62	118.19	110.54
1	I	336	ARG	N-CA-C	5.62	119.00	111.24
1	L	241	ILE	CB-CA-C	-5.62	104.66	112.02
1	Q	271	ALA	N-CA-C	5.62	119.24	112.38
1	Q	675	TYR	N-CA-CB	5.62	118.31	109.94
1	V	249	ILE	CB-CA-C	-5.62	104.69	111.88
1	Z	126	ASP	CA-C-N	5.62	128.59	120.38
1	Z	126	ASP	C-N-CA	5.62	128.59	120.38
1	0	183	PRO	N-CA-CB	-5.62	97.86	103.48
1	5	585	TYR	N-CA-CB	-5.62	101.86	110.12
1	9	568	ILE	O-C-N	-5.62	116.42	121.87
1	h	327	CYS	O-C-N	-5.62	115.79	122.65
1	k	250	LYS	N-CA-C	5.62	117.41	111.28
1	k	297	ASP	CA-C-O	5.62	126.30	119.11
1	p	97	VAL	CA-C-O	-5.62	115.11	120.95
1	r	592	VAL	O-C-N	-5.62	116.42	121.87
1	t	459	LYS	CA-C-N	5.62	128.85	120.31
1	t	459	LYS	C-N-CA	5.62	128.85	120.31
1	A	237	GLN	CA-C-N	5.62	125.15	119.19
1	A	237	GLN	C-N-CA	5.62	125.15	119.19
1	C	563	LYS	N-CA-C	5.62	117.08	111.07
1	V	381	HIS	O-C-N	-5.62	116.16	122.12
1	W	359	LEU	CA-C-N	5.62	128.08	120.44
1	W	359	LEU	C-N-CA	5.62	128.08	120.44
1	2	165	GLU	N-CA-C	5.62	118.62	110.42
1	6	237	GLN	N-CA-C	5.62	117.65	109.84
1	8	427	LYS	N-CA-CB	5.62	118.38	110.12
1	a	268	VAL	N-CA-CB	5.62	116.66	110.53
1	b	664	ALA	CA-C-N	5.62	127.81	120.28
1	b	664	ALA	C-N-CA	5.62	127.81	120.28
1	b	682	GLN	CA-CB-CG	5.62	125.34	114.10
1	c	424	GLU	CB-CG-CD	-5.62	103.05	112.60
1	i	233	ALA	N-CA-C	5.62	118.69	109.76
1	j	467	THR	N-CA-CB	5.62	118.57	110.20
1	k	372	GLU	N-CA-C	5.62	117.48	111.36
1	k	489	GLY	CA-C-N	5.62	128.37	120.28
1	k	489	GLY	C-N-CA	5.62	128.37	120.28
1	l	494	GLY	O-C-N	-5.62	115.40	122.70
1	o	165	GLU	CA-C-N	5.62	128.74	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	o	165	GLU	C-N-CA	5.62	128.74	120.82
1	q	171	ILE	O-C-N	-5.62	117.13	123.20
1	t	301	ARG	CB-CG-CD	5.62	124.22	111.30
1	t	306	SER	CA-C-O	-5.62	114.46	120.42
1	u	145	ARG	NE-CZ-NH2	-5.62	114.14	119.20
1	w	345	LYS	CA-C-N	5.62	128.07	120.65
1	w	345	LYS	C-N-CA	5.62	128.07	120.65
1	x	471	LYS	N-CA-C	5.62	117.41	111.28
1	A	594	GLU	CB-CA-C	-5.62	102.02	110.90
1	B	586	SER	CB-CA-C	5.62	119.86	110.92
1	B	664	ALA	O-C-N	-5.62	116.16	122.12
1	D	379	ILE	O-C-N	-5.62	116.19	121.87
1	I	450	LEU	CA-C-N	5.62	128.12	120.54
1	I	450	LEU	C-N-CA	5.62	128.12	120.54
1	P	395	GLU	N-CA-C	-5.62	105.23	111.36
1	R	501	PHE	CB-CG-CD2	5.62	130.25	120.70
1	X	575	GLU	CA-C-O	5.62	126.49	120.20
1	Z	104	ILE	CA-C-N	5.62	128.12	120.54
1	Z	104	ILE	C-N-CA	5.62	128.12	120.54
1	a	436	LEU	CB-CA-C	-5.62	100.29	109.56
1	d	397	HIS	CE1-NE2-CD2	-5.62	103.38	109.00
1	h	643	ASN	O-C-N	-5.62	114.83	122.19
1	m	275	ALA	N-CA-C	5.62	117.08	111.07
1	n	267	ASN	CA-CB-CG	5.62	118.22	112.60
1	r	403	GLU	CA-C-N	5.62	127.81	120.28
1	r	403	GLU	C-N-CA	5.62	127.81	120.28
1	M	98	ARG	NE-CZ-NH2	-5.62	114.14	119.20
1	N	470	GLN	CG-CD-NE2	-5.62	107.97	116.40
1	X	708	GLN	CA-C-O	5.62	126.37	120.42
1	4	299	MET	CG-SD-CE	-5.62	88.54	100.90
1	5	316	TYR	CA-C-N	5.62	126.56	120.83
1	5	316	TYR	C-N-CA	5.62	126.56	120.83
1	5	519	MET	CA-C-N	5.62	128.07	120.38
1	5	519	MET	C-N-CA	5.62	128.07	120.38
1	8	194	GLN	CA-C-O	5.62	126.50	120.55
1	d	246	LYS	O-C-N	-5.62	116.17	122.12
1	e	373	ARG	NE-CZ-NH2	5.62	124.25	119.20
1	g	342	ALA	CA-C-N	5.62	127.74	120.44
1	g	342	ALA	C-N-CA	5.62	127.74	120.44
1	B	153	CYS	CA-C-N	5.62	126.86	119.84
1	B	153	CYS	C-N-CA	5.62	126.86	119.84
1	D	674	ARG	CA-C-N	5.62	132.27	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	674	ARG	C-N-CA	5.62	132.27	121.54
1	E	292	ILE	CA-CB-CG1	5.62	119.95	110.40
1	H	277	SER	N-CA-C	5.62	117.48	111.36
1	I	169	GLY	N-CA-C	-5.62	102.54	110.91
1	K	98	ARG	CA-C-N	5.62	125.28	119.05
1	K	98	ARG	C-N-CA	5.62	125.28	119.05
1	T	317	PRO	CB-CA-C	5.62	120.83	111.56
1	Y	575	GLU	CA-C-N	5.62	127.81	120.28
1	Y	575	GLU	C-N-CA	5.62	127.81	120.28
1	0	108	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	0	340	ALA	CA-C-O	5.61	126.72	120.82
1	2	658	GLY	O-C-N	-5.61	115.89	122.34
1	4	596	ILE	CA-C-O	-5.61	113.76	120.78
1	5	597	PHE	N-CA-C	5.61	118.17	111.71
1	5	677	TRP	CA-C-N	5.61	127.80	120.28
1	5	677	TRP	C-N-CA	5.61	127.80	120.28
1	9	532	ILE	O-C-N	-5.61	116.23	121.90
1	g	488	ARG	NE-CZ-NH2	-5.61	114.15	119.20
1	h	624	THR	N-CA-C	5.61	118.33	111.82
1	j	456	GLU	CA-C-N	5.61	127.80	120.28
1	j	456	GLU	C-N-CA	5.61	127.80	120.28
1	j	498	TYR	CB-CG-CD1	-5.61	112.38	120.80
1	o	538	HIS	CA-C-O	5.61	125.61	118.54
1	o	645	ILE	CA-C-N	5.61	125.28	119.05
1	o	645	ILE	C-N-CA	5.61	125.28	119.05
1	s	392	GLN	CB-CG-CD	5.61	122.14	112.60
1	C	502	GLU	N-CA-C	5.61	117.08	111.07
1	E	577	MET	CA-C-O	5.61	127.03	120.80
1	J	224	ILE	CA-C-O	5.61	126.53	120.53
1	Q	456	GLU	O-C-N	-5.61	115.36	122.27
1	Y	288	ARG	NH1-CZ-NH2	-5.61	112.00	119.30
1	e	155	LEU	CA-C-N	5.61	129.91	122.95
1	e	155	LEU	C-N-CA	5.61	129.91	122.95
1	h	102	ASP	CA-C-N	5.61	128.26	120.29
1	h	102	ASP	C-N-CA	5.61	128.26	120.29
1	i	689	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	s	191	HIS	ND1-CE1-NE2	5.61	114.01	108.40
1	u	440	GLU	CA-C-O	5.61	126.21	119.59
1	z	203	GLY	N-CA-C	5.61	119.77	112.25
1	E	418	LYS	N-CA-C	5.61	117.84	111.11
1	I	218	VAL	O-C-N	-5.61	114.70	121.10
1	T	698	ARG	CA-C-N	5.61	127.80	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	698	ARG	C-N-CA	5.61	127.80	120.28
1	X	415	GLU	CB-CA-C	-5.61	101.47	110.79
1	Y	209	ILE	O-C-N	-5.61	116.98	122.93
1	1	277	SER	N-CA-CB	5.61	118.37	110.12
1	7	677	TRP	CA-C-N	5.61	127.73	120.44
1	7	677	TRP	C-N-CA	5.61	127.73	120.44
1	8	485	LYS	O-C-N	-5.61	114.77	122.46
1	a	418	LYS	CA-C-N	5.61	128.11	120.54
1	a	418	LYS	C-N-CA	5.61	128.11	120.54
1	c	552	THR	CA-C-N	5.61	128.12	120.77
1	c	552	THR	C-N-CA	5.61	128.12	120.77
1	f	543	PHE	N-CA-CB	5.61	118.21	110.07
1	g	373	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	i	161	LYS	CB-CG-CD	5.61	124.20	111.30
1	j	120	ALA	CA-C-N	5.61	129.59	121.18
1	j	120	ALA	C-N-CA	5.61	129.59	121.18
1	m	497	ASN	CA-C-N	5.61	128.07	120.44
1	m	497	ASN	C-N-CA	5.61	128.07	120.44
1	s	280	HIS	N-CA-C	5.61	117.40	111.28
1	t	173	TYR	CA-C-O	5.61	126.07	119.28
1	u	296	PRO	CA-C-N	5.61	128.57	120.38
1	u	296	PRO	C-N-CA	5.61	128.57	120.38
1	u	560	HIS	ND1-CE1-NE2	5.61	114.01	108.40
1	H	509	ILE	CA-C-N	-5.61	111.78	120.31
1	H	509	ILE	C-N-CA	-5.61	111.78	120.31
1	I	656	GLU	CA-C-N	5.61	127.73	120.44
1	I	656	GLU	C-N-CA	5.61	127.73	120.44
1	N	120	ALA	N-CA-CB	-5.61	102.86	111.56
1	N	661	LEU	N-CA-C	5.61	117.07	111.07
1	O	172	SER	O-C-N	-5.61	116.45	122.85
1	U	342	ALA	N-CA-C	5.61	117.84	111.11
1	Z	490	LYS	N-CA-C	-5.61	106.56	113.41
1	4	454	ILE	CA-CB-CG1	5.61	119.94	110.40
1	h	150	VAL	CA-C-N	5.61	130.31	121.56
1	h	150	VAL	C-N-CA	5.61	130.31	121.56
1	h	409	ALA	CA-C-N	5.61	131.80	121.70
1	h	409	ALA	C-N-CA	5.61	131.80	121.70
1	m	519	MET	CA-C-N	5.61	128.84	120.31
1	m	519	MET	C-N-CA	5.61	128.84	120.31
1	z	492	LEU	N-CA-CB	5.61	119.97	110.49
1	A	514	GLU	O-C-N	-5.61	115.49	120.48
1	B	587	VAL	CB-CA-C	-5.61	104.57	112.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	704	HIS	ND1-CE1-NE2	5.61	114.01	108.40
1	J	443	VAL	CA-C-O	5.61	127.43	121.04
1	J	625	GLU	N-CA-C	5.61	117.07	111.07
1	O	560	HIS	N-CA-C	5.61	118.33	111.82
1	S	109	ALA	N-CA-C	5.61	117.39	111.28
1	U	549	VAL	N-CA-C	5.61	116.34	110.62
1	1	213	ILE	CA-C-O	5.61	125.81	120.31
1	1	440	GLU	N-CA-C	-5.61	105.03	112.94
1	5	555	ASP	CB-CA-C	5.61	119.68	110.88
1	6	197	MET	CB-CA-C	5.61	120.10	110.79
1	6	342	ALA	CA-C-N	5.61	128.06	120.44
1	6	342	ALA	C-N-CA	5.61	128.06	120.44
1	c	484	GLU	CA-C-N	5.61	127.79	120.28
1	c	484	GLU	C-N-CA	5.61	127.79	120.28
1	d	280	HIS	CG-CD2-NE2	5.61	112.81	107.20
1	l	520	LEU	CB-CA-C	-5.61	101.84	110.81
1	v	308	MET	O-C-N	-5.61	116.18	122.12
1	v	365	ALA	CA-C-O	5.61	128.53	120.51
1	w	430	ASN	OD1-CG-ND2	-5.61	116.99	122.60
1	A	395	GLU	O-C-N	-5.61	115.37	122.27
1	C	313	ASN	O-C-N	-5.61	114.92	122.43
1	H	102	ASP	N-CA-CB	-5.61	101.67	110.30
1	J	449	ARG	O-C-N	-5.61	115.97	122.87
1	Q	627	GLY	O-C-N	-5.61	116.58	122.13
1	T	637	THR	CA-C-N	5.61	128.25	120.29
1	T	637	THR	C-N-CA	5.61	128.25	120.29
1	W	191	HIS	CE1-NE2-CD2	-5.61	103.39	109.00
1	W	382	ILE	N-CA-C	5.61	115.80	110.42
1	0	403	GLU	CB-CG-CD	5.61	122.13	112.60
1	1	349	PHE	N-CA-CB	-5.61	101.59	110.28
1	4	193	ALA	N-CA-C	5.61	117.07	111.07
1	9	217	GLU	O-C-N	-5.61	116.30	122.07
1	b	286	GLY	CA-C-N	5.61	128.25	120.29
1	b	286	GLY	C-N-CA	5.61	128.25	120.29
1	d	343	THR	O-C-N	-5.61	116.30	122.07
1	j	361	GLU	O-C-N	5.61	128.54	122.15
1	k	593	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	l	386	LEU	CA-C-N	5.61	124.96	118.85
1	l	386	LEU	C-N-CA	5.61	124.96	118.85
1	n	394	ARG	N-CA-C	5.61	117.07	111.07
1	v	515	PRO	N-CA-CB	-5.61	97.58	103.52
1	w	411	ILE	N-CA-C	5.61	120.99	108.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	311	VAL	CA-C-O	-5.61	115.12	120.95
1	E	227	PRO	CA-C-N	5.61	127.04	120.71
1	E	227	PRO	C-N-CA	5.61	127.04	120.71
1	H	581	GLN	N-CA-C	5.61	122.74	110.80
1	J	549	VAL	CA-C-O	-5.61	115.23	121.17
1	K	195	ASN	CA-C-O	5.61	126.46	120.24
1	Q	701	GLN	N-CA-CB	5.61	118.14	110.01
1	V	396	SER	N-CA-C	-5.61	105.09	111.14
1	V	531	PHE	CA-C-O	5.61	126.70	120.82
1	X	381	HIS	N-CA-C	5.61	118.32	111.82
1	7	388	LEU	N-CA-C	5.60	117.39	111.28
1	8	532	ILE	N-CA-C	5.60	116.38	110.72
1	h	647	PHE	CA-CB-CG	-5.60	108.20	113.80
1	m	482	LYS	N-CA-C	5.60	117.47	111.36
1	m	536	LYS	CA-C-N	5.60	128.83	120.31
1	m	536	LYS	C-N-CA	5.60	128.83	120.31
1	r	382	ILE	N-CA-CB	5.60	117.11	110.55
1	F	175	ASN	N-CA-C	5.60	122.74	110.80
1	U	469	THR	N-CA-C	5.60	118.16	111.71
1	X	335	ASN	O-C-N	5.60	129.73	122.89
1	Y	455	ARG	N-CA-CB	5.60	118.14	110.01
1	l	240	ASP	N-CA-CB	-5.60	100.98	110.50
1	5	111	GLY	O-C-N	-5.60	117.99	122.81
1	5	450	LEU	CA-C-N	5.60	128.10	120.54
1	5	450	LEU	C-N-CA	5.60	128.10	120.54
1	h	249	ILE	N-CA-CB	5.60	117.10	110.55
1	i	253	ILE	CA-CB-CG1	5.60	119.92	110.40
1	n	233	ALA	O-C-N	-5.60	116.04	122.93
1	o	142	ALA	O-C-N	-5.60	115.14	122.59
1	r	98	ARG	N-CA-CB	5.60	117.03	110.42
1	s	389	LEU	CA-C-N	5.60	128.10	120.54
1	s	389	LEU	C-N-CA	5.60	128.10	120.54
1	u	98	ARG	NH1-CZ-NH2	-5.60	112.02	119.30
1	u	123	VAL	N-CA-C	5.60	115.72	107.15
1	w	585	TYR	CA-C-O	5.60	126.68	120.63
1	A	368	PRO	N-CA-C	5.60	124.01	112.47
1	E	473	LYS	O-C-N	-5.60	115.67	122.22
1	G	258	THR	N-CA-CB	5.60	119.00	109.87
1	K	523	ALA	CA-C-O	5.60	126.36	120.42
1	R	173	TYR	N-CA-CB	-5.60	102.35	110.47
1	T	332	GLU	CA-C-N	5.60	128.38	122.11
1	T	332	GLU	C-N-CA	5.60	128.38	122.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	132	SER	CA-C-N	5.60	127.79	120.28
1	Y	132	SER	C-N-CA	5.60	127.79	120.28
1	Y	162	GLN	CA-C-O	-5.60	115.09	120.64
1	0	512	LEU	N-CA-C	5.60	119.73	113.01
1	2	473	LYS	N-CA-CB	5.60	118.35	110.12
1	9	306	SER	N-CA-CB	5.60	118.45	110.16
1	f	519	MET	CA-C-N	5.60	127.78	120.28
1	f	519	MET	C-N-CA	5.60	127.78	120.28
1	i	315	THR	CA-C-N	5.60	129.19	120.68
1	i	315	THR	C-N-CA	5.60	129.19	120.68
1	l	551	SER	O-C-N	-5.60	116.18	122.12
1	n	268	VAL	N-CA-CB	5.60	118.29	110.56
1	o	535	ALA	N-CA-CB	-5.60	101.89	110.12
1	s	669	LEU	CA-C-N	5.60	128.24	120.29
1	s	669	LEU	C-N-CA	5.60	128.24	120.29
1	y	477	HIS	CE1-NE2-CD2	-5.60	103.40	109.00
1	N	351	GLN	N-CA-CB	5.60	118.28	109.94
1	V	646	PRO	O-C-N	-5.60	114.71	122.27
1	Z	453	LYS	N-CA-C	5.60	117.39	111.28
1	9	392	GLN	N-CA-C	5.60	117.83	111.11
1	b	186	VAL	N-CA-C	5.60	116.24	110.36
1	i	471	LYS	N-CA-CB	5.60	118.35	110.12
1	m	206	HIS	CG-CD2-NE2	5.60	112.80	107.20
1	s	683	SER	CA-C-N	-5.60	113.16	120.44
1	s	683	SER	C-N-CA	-5.60	113.16	120.44
1	v	108	ARG	N-CA-C	5.60	117.46	111.36
1	y	295	LYS	CA-C-N	5.60	125.30	119.64
1	y	295	LYS	C-N-CA	5.60	125.30	119.64
1	F	662	GLN	CA-C-O	5.60	126.41	119.97
1	G	513	VAL	O-C-N	-5.60	116.44	121.87
1	K	459	LYS	CB-CA-C	-5.60	102.09	110.88
1	K	647	PHE	CA-C-O	-5.60	114.48	120.42
1	P	551	SER	CA-C-O	5.60	126.89	120.90
1	S	236	ASN	CA-CB-CG	-5.60	107.00	112.60
1	U	641	LEU	CA-C-N	5.60	129.64	120.63
1	U	641	LEU	C-N-CA	5.60	129.64	120.63
1	1	409	ALA	N-CA-CB	-5.60	102.23	110.85
1	1	659	ASP	N-CA-C	5.60	117.46	111.36
1	2	465	LEU	O-C-N	-5.60	116.31	122.07
1	7	245	ILE	CA-C-O	5.60	126.77	120.95
1	8	356	PHE	CA-C-N	5.60	128.05	120.38
1	8	356	PHE	C-N-CA	5.60	128.05	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	452	ASN	CA-C-O	5.60	126.48	120.55
1	f	260	ASN	OD1-CG-ND2	-5.60	117.00	122.60
1	i	132	SER	N-CA-CB	5.60	119.68	110.39
1	j	206	HIS	ND1-CE1-NE2	5.60	114.00	108.40
1	j	475	ILE	CA-C-O	-5.60	115.13	120.95
1	m	365	ALA	CA-C-N	5.60	128.34	120.28
1	m	365	ALA	C-N-CA	5.60	128.34	120.28
1	v	294	THR	CA-CB-OG1	5.60	118.00	109.60
1	z	405	ARG	N-CA-C	5.60	118.15	111.71
1	C	523	ALA	N-CA-C	5.60	117.06	111.07
1	D	488	ARG	N-CA-C	5.60	117.38	111.28
1	E	340	ALA	CA-C-N	5.60	127.72	120.44
1	E	340	ALA	C-N-CA	5.60	127.72	120.44
1	H	357	ARG	NE-CZ-NH2	-5.60	114.16	119.20
1	O	342	ALA	N-CA-C	5.60	117.38	111.28
1	Q	456	GLU	CA-C-N	5.60	128.34	120.28
1	Q	456	GLU	C-N-CA	5.60	128.34	120.28
1	V	397	HIS	ND1-CE1-NE2	5.60	114.00	108.40
1	Z	679	LEU	O-C-N	-5.60	115.47	122.35
1	7	172	SER	N-CA-CB	5.60	119.53	110.41
1	b	484	GLU	CA-C-N	5.60	128.04	120.65
1	b	484	GLU	C-N-CA	5.60	128.04	120.65
1	c	478	GLU	O-C-N	-5.60	116.19	122.12
1	j	95	GLN	OE1-CD-NE2	-5.60	117.00	122.60
1	s	196	VAL	O-C-N	-5.60	116.43	121.91
1	E	479	GLU	CB-CG-CD	-5.60	103.09	112.60
1	G	357	ARG	NE-CZ-NH2	-5.60	114.16	119.20
1	N	438	GLU	N-CA-C	-5.60	106.12	113.17
1	W	115	ASP	CA-C-N	5.60	131.65	121.97
1	W	115	ASP	C-N-CA	5.60	131.65	121.97
1	X	342	ALA	N-CA-C	5.60	117.06	111.07
1	1	379	ILE	CA-C-O	-5.59	115.13	120.95
1	2	213	ILE	CA-CB-CG1	5.59	119.91	110.40
1	6	535	ALA	CB-CA-C	-5.59	101.50	110.79
1	6	710	SER	CA-C-O	-5.59	112.66	119.43
1	a	292	ILE	O-C-N	-5.59	117.03	123.07
1	b	594	GLU	N-CA-C	5.59	117.38	111.28
1	q	463	GLY	N-CA-C	5.59	120.71	113.27
1	r	315	THR	N-CA-CB	5.59	118.34	110.12
1	r	584	ILE	CA-C-O	-5.59	115.13	120.95
1	y	390	GLU	CA-C-N	5.59	126.15	119.94
1	y	390	GLU	C-N-CA	5.59	126.15	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	y	444	ARG	N-CA-CB	5.59	118.26	110.26
1	B	341	GLU	CB-CG-CD	5.59	122.11	112.60
1	E	173	TYR	CA-C-N	5.59	131.42	122.86
1	E	173	TYR	C-N-CA	5.59	131.42	122.86
1	J	496	VAL	N-CA-C	5.59	116.92	109.37
1	P	704	HIS	CB-CA-C	-5.59	101.86	110.81
1	X	681	GLU	CB-CG-CD	5.59	122.11	112.60
1	Z	659	ASP	O-C-N	-5.59	116.19	122.12
1	6	232	VAL	N-CA-CB	5.59	119.13	111.41
1	c	306	SER	N-CA-C	-5.59	104.68	112.45
1	f	400	ALA	N-CA-CB	5.59	118.12	110.01
1	o	460	ASN	CA-CB-CG	5.59	118.19	112.60
1	q	512	LEU	CA-C-N	5.59	127.81	120.60
1	q	512	LEU	C-N-CA	5.59	127.81	120.60
1	t	397	HIS	CG-CD2-NE2	5.59	112.79	107.20
1	w	182	ASP	CA-CB-CG	5.59	118.19	112.60
1	y	376	THR	CA-C-O	5.59	126.35	120.42
1	G	661	LEU	O-C-N	-5.59	116.31	122.07
1	P	275	ALA	CA-C-O	5.59	126.48	120.55
1	Z	697	TYR	N-CA-C	5.59	117.05	111.07
1	1	217	GLU	N-CA-C	5.59	117.45	111.36
1	1	704	HIS	CE1-NE2-CD2	-5.59	103.41	109.00
1	2	444	ARG	NE-CZ-NH1	5.59	127.09	121.50
1	c	264	VAL	O-C-N	-5.59	114.72	121.10
1	m	695	ARG	NE-CZ-NH2	-5.59	114.17	119.20
1	r	166	ALA	O-C-N	-5.59	115.93	122.81
1	r	250	LYS	N-CA-C	5.59	117.38	111.28
1	t	501	PHE	CA-CB-CG	5.59	119.39	113.80
1	w	529	GLN	N-CA-CB	5.59	118.27	109.94
1	E	673	ASN	N-CA-C	5.59	119.36	112.54
1	H	647	PHE	CA-CB-CG	5.59	119.39	113.80
1	I	639	LYS	N-CA-C	5.59	118.14	111.71
1	M	139	SER	CA-C-N	5.59	129.23	123.30
1	M	139	SER	C-N-CA	5.59	129.23	123.30
1	M	153	CYS	CA-C-O	-5.59	113.76	120.41
1	M	427	LYS	N-CA-C	5.59	117.05	111.07
1	P	665	MET	CA-C-O	5.59	126.42	120.10
1	R	704	HIS	N-CA-C	5.59	117.38	111.28
1	T	347	ILE	CA-CB-CG2	5.59	120.00	110.50
1	T	678	LEU	N-CA-C	5.59	117.37	111.28
1	W	488	ARG	NE-CZ-NH2	5.59	124.23	119.20
1	1	629	HIS	ND1-CE1-NE2	5.59	113.99	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3	253	ILE	CA-C-O	5.59	126.36	119.43
1	5	125	GLY	O-C-N	5.59	130.03	123.66
1	7	568	ILE	CB-CA-C	-5.59	104.82	111.97
1	7	573	ARG	NE-CZ-NH2	-5.59	114.17	119.20
1	b	698	ARG	NE-CZ-NH1	-5.59	115.91	121.50
1	l	427	LYS	CA-C-N	5.59	127.71	120.44
1	l	427	LYS	C-N-CA	5.59	127.71	120.44
1	n	282	VAL	O-C-N	5.59	128.22	122.07
1	w	581	GLN	CG-CD-OE1	5.59	131.98	120.80
1	C	520	LEU	O-C-N	-5.59	116.28	122.09
1	F	570	LEU	CA-C-N	5.59	128.04	120.44
1	F	570	LEU	C-N-CA	5.59	128.04	120.44
1	H	654	LEU	O-C-N	-5.59	115.16	122.59
1	K	428	MET	CA-C-O	5.59	126.34	120.42
1	T	511	GLN	N-CA-C	5.59	118.14	111.71
1	j	206	HIS	N-CA-C	-5.59	105.06	112.94
1	n	397	HIS	CA-C-O	5.59	126.38	119.79
1	v	170	ARG	NE-CZ-NH1	5.59	127.09	121.50
1	x	665	MET	N-CA-C	5.59	117.81	111.11
1	I	573	ARG	N-CA-C	5.59	117.81	111.11
1	J	106	SER	N-CA-C	5.59	117.37	111.28
1	J	460	ASN	OD1-CG-ND2	-5.59	117.01	122.60
1	N	316	TYR	O-C-N	-5.59	114.75	121.12
1	U	166	ALA	CA-C-O	-5.59	114.32	120.69
1	U	177	GLU	CA-CB-CG	5.59	125.28	114.10
1	Y	580	CYS	N-CA-C	5.59	118.35	109.24
1	3	353	HIS	ND1-CE1-NE2	5.59	113.99	108.40
1	9	145	ARG	NE-CZ-NH1	5.59	127.09	121.50
1	f	232	VAL	CA-CB-CG2	5.59	119.90	110.40
1	g	188	LYS	N-CA-C	-5.59	105.96	112.89
1	g	379	ILE	CA-C-N	-5.59	112.36	120.29
1	g	379	ILE	C-N-CA	-5.59	112.36	120.29
1	m	135	LEU	CA-C-N	5.59	128.03	120.38
1	m	135	LEU	C-N-CA	5.59	128.03	120.38
1	r	251	LYS	N-CA-C	5.59	118.09	111.33
1	u	375	THR	CA-C-N	5.59	127.77	120.28
1	u	375	THR	C-N-CA	5.59	127.77	120.28
1	w	510	GLN	CA-CB-CG	5.59	125.27	114.10
1	w	578	VAL	N-CA-C	5.59	116.21	108.84
1	z	188	LYS	O-C-N	-5.59	115.90	122.32
1	R	562	ALA	CA-C-O	-5.59	114.50	120.42
1	V	682	GLN	CA-C-N	5.59	131.76	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	682	GLN	C-N-CA	5.59	131.76	121.70
1	5	441	GLU	CB-CA-C	5.58	119.53	109.64
1	6	549	VAL	O-C-N	-5.58	116.44	121.91
1	h	314	LEU	CA-C-N	5.58	127.70	120.44
1	h	314	LEU	C-N-CA	5.58	127.70	120.44
1	l	695	ARG	O-C-N	-5.58	115.78	122.15
1	r	133	SER	CA-C-O	5.58	126.47	120.55
1	x	555	ASP	CA-C-N	5.58	127.60	120.56
1	x	555	ASP	C-N-CA	5.58	127.60	120.56
1	y	596	ILE	O-C-N	-5.58	115.59	122.57
1	F	135	LEU	CA-C-N	5.58	127.76	120.28
1	F	135	LEU	C-N-CA	5.58	127.76	120.28
1	O	397	HIS	CA-CB-CG	5.58	119.39	113.80
1	O	695	ARG	CA-C-O	-5.58	114.96	120.82
1	P	430	ASN	OD1-CG-ND2	-5.58	117.02	122.60
1	U	631	ASN	N-CA-CB	-5.58	101.62	110.22
1	4	246	LYS	O-C-N	-5.58	116.20	122.12
1	5	177	GLU	CA-CB-CG	5.58	125.27	114.10
1	6	702	ALA	N-CA-C	5.58	117.37	111.28
1	8	446	ASN	OD1-CG-ND2	-5.58	117.02	122.60
1	b	573	ARG	NH1-CZ-NH2	-5.58	112.04	119.30
1	e	507	GLN	CA-C-N	5.58	127.70	120.44
1	e	507	GLN	C-N-CA	5.58	127.70	120.44
1	m	551	SER	CA-C-N	5.58	128.22	120.29
1	m	551	SER	C-N-CA	5.58	128.22	120.29
1	w	475	ILE	CA-CB-CG1	5.58	119.89	110.40
1	x	416	ALA	CA-C-N	5.58	128.80	120.31
1	x	416	ALA	C-N-CA	5.58	128.80	120.31
1	y	233	ALA	CA-C-N	-5.58	116.27	123.19
1	y	233	ALA	C-N-CA	-5.58	116.27	123.19
1	F	564	ALA	N-CA-C	5.58	117.04	111.07
1	J	142	ALA	N-CA-C	-5.58	101.03	108.74
1	L	428	MET	CA-C-N	5.58	127.70	120.44
1	L	428	MET	C-N-CA	5.58	127.70	120.44
1	M	227	PRO	O-C-N	-5.58	116.04	122.85
1	M	247	ALA	CA-C-N	5.58	128.03	120.44
1	M	247	ALA	C-N-CA	5.58	128.03	120.44
1	S	312	ARG	CD-NE-CZ	-5.58	116.58	124.40
1	V	269	ASP	CA-CB-CG	5.58	118.18	112.60
1	5	409	ALA	CA-C-N	5.58	131.75	121.70
1	5	409	ALA	C-N-CA	5.58	131.75	121.70
1	5	667	GLN	CA-C-N	5.58	128.35	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5	667	GLN	C-N-CA	5.58	128.35	120.42
1	6	248	LEU	CA-C-N	5.58	128.40	120.53
1	6	248	LEU	C-N-CA	5.58	128.40	120.53
1	c	312	ARG	N-CA-C	5.58	118.08	111.33
1	l	487	TYR	N-CA-C	5.58	119.72	113.02
1	o	593	ARG	N-CA-C	5.58	117.04	111.07
1	s	546	ASN	OD1-CG-ND2	-5.58	117.02	122.60
1	v	287	ASP	N-CA-C	5.58	117.36	111.28
1	B	111	GLY	CA-C-N	5.58	131.75	121.70
1	B	111	GLY	C-N-CA	5.58	131.75	121.70
1	B	655	ARG	O-C-N	-5.58	116.06	122.09
1	C	255	ARG	O-C-N	-5.58	116.00	122.87
1	G	184	GLY	CA-C-N	5.58	128.32	120.28
1	G	184	GLY	C-N-CA	5.58	128.32	120.28
1	H	538	HIS	CB-CG-ND1	5.58	131.07	122.70
1	I	200	ASN	OD1-CG-ND2	-5.58	117.02	122.60
1	K	176	THR	CA-C-O	5.58	126.16	120.24
1	L	482	LYS	CA-C-O	5.58	126.45	120.70
1	M	662	GLN	OE1-CD-NE2	-5.58	117.02	122.60
1	N	687	THR	O-C-N	-5.58	116.20	122.12
1	U	588	VAL	CB-CA-C	-5.58	104.52	112.22
1	8	544	ASN	CA-CB-CG	-5.58	107.02	112.60
1	p	446	ASN	O-C-N	-5.58	112.88	122.20
1	u	653	MET	N-CA-CB	5.58	118.70	110.33
1	B	632	ALA	CA-C-N	5.58	127.69	120.44
1	B	632	ALA	C-N-CA	5.58	127.69	120.44
1	S	228	GLY	CA-C-N	5.58	128.05	120.63
1	S	228	GLY	C-N-CA	5.58	128.05	120.63
1	W	193	ALA	CA-C-N	5.58	127.69	120.44
1	W	193	ALA	C-N-CA	5.58	127.69	120.44
1	3	199	GLY	CA-C-N	5.58	132.19	121.54
1	3	199	GLY	C-N-CA	5.58	132.19	121.54
1	6	506	HIS	CG-CD2-NE2	5.58	112.78	107.20
1	f	708	GLN	CA-C-O	5.58	126.87	120.90
1	h	593	ARG	NE-CZ-NH1	5.58	127.08	121.50
1	k	220	ASP	CA-C-O	5.58	126.72	120.92
1	l	374	LEU	CA-C-O	5.58	126.33	120.42
1	n	285	GLU	N-CA-C	5.58	117.44	111.36
1	p	328	ARG	NE-CZ-NH2	-5.58	114.18	119.20
1	s	265	PRO	CA-C-N	5.58	129.53	120.60
1	s	265	PRO	C-N-CA	5.58	129.53	120.60
1	w	504	ILE	CA-C-O	5.58	126.33	119.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	667	GLN	OE1-CD-NE2	-5.58	117.02	122.60
1	y	315	THR	CA-CB-CG2	-5.58	101.02	110.50
1	A	558	VAL	O-C-N	-5.58	116.44	121.91
1	B	127	GLN	N-CA-C	5.58	118.13	111.71
1	B	327	CYS	O-C-N	-5.58	116.81	123.06
1	N	521	GLN	CB-CG-CD	5.58	122.08	112.60
1	P	395	GLU	CA-C-O	-5.58	114.51	120.42
1	V	295	LYS	N-CA-C	5.58	122.14	109.81
1	V	336	ARG	NH1-CZ-NH2	-5.58	112.05	119.30
1	V	419	MET	CA-C-N	5.58	127.69	120.44
1	V	419	MET	C-N-CA	5.58	127.69	120.44
1	b	101	ILE	N-CA-C	5.58	116.31	110.62
1	l	701	GLN	O-C-N	-5.58	115.79	122.15
1	A	426	ILE	N-CA-CB	5.58	116.70	110.51
1	B	178	LEU	CA-C-N	5.58	130.86	123.00
1	B	178	LEU	C-N-CA	5.58	130.86	123.00
1	B	256	GLN	OE1-CD-NE2	-5.58	117.02	122.60
1	6	131	LYS	CA-C-N	5.58	127.75	120.28
1	6	131	LYS	C-N-CA	5.58	127.75	120.28
1	d	640	ARG	NE-CZ-NH1	5.58	127.08	121.50
1	g	447	GLU	CA-C-O	5.58	126.25	120.40
1	i	703	ARG	N-CA-C	5.58	117.36	111.28
1	l	331	GLN	O-C-N	-5.58	116.80	123.27
1	n	98	ARG	NE-CZ-NH2	5.58	124.22	119.20
1	o	287	ASP	CA-CB-CG	5.58	118.17	112.60
1	u	529	GLN	N-CA-C	5.58	117.44	111.36
1	E	274	GLU	N-CA-C	5.58	118.08	111.33
1	J	545	LEU	CA-C-N	5.58	128.02	120.38
1	J	545	LEU	C-N-CA	5.58	128.02	120.38
1	S	634	PHE	CA-C-N	5.58	128.01	120.65
1	S	634	PHE	C-N-CA	5.58	128.01	120.65
1	X	129	SER	CA-C-N	5.58	129.53	122.00
1	X	129	SER	C-N-CA	5.58	129.53	122.00
1	4	95	GLN	O-C-N	-5.57	114.82	122.46
1	9	280	HIS	CB-CG-CD2	5.57	138.45	131.20
1	b	688	LYS	O-C-N	-5.57	116.21	122.12
1	g	564	ALA	N-CA-C	5.57	118.07	111.33
1	h	186	VAL	CA-C-O	5.57	126.49	120.47
1	m	345	LYS	CA-C-N	5.57	127.69	120.44
1	m	345	LYS	C-N-CA	5.57	127.69	120.44
1	s	572	PHE	CA-C-N	5.57	127.75	120.28
1	s	572	PHE	C-N-CA	5.57	127.75	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	t	428	MET	N-CA-CB	5.57	118.09	110.01
1	v	573	ARG	NE-CZ-NH1	5.57	127.07	121.50
1	x	437	VAL	CA-C-N	5.57	128.20	120.29
1	x	437	VAL	C-N-CA	5.57	128.20	120.29
1	x	571	GLN	OE1-CD-NE2	5.57	128.17	122.60
1	x	674	ARG	NE-CZ-NH1	5.57	127.07	121.50
1	A	322	TYR	CA-C-O	5.57	128.04	121.58
1	D	358	VAL	N-CA-C	5.57	120.94	109.34
1	E	153	CYS	O-C-N	5.57	126.73	121.38
1	F	168	ALA	N-CA-C	-5.57	100.82	109.24
1	K	531	PHE	CA-C-N	5.57	127.79	120.60
1	K	531	PHE	C-N-CA	5.57	127.79	120.60
1	K	644	GLN	N-CA-C	5.57	117.16	111.14
1	O	537	LYS	CB-CA-C	5.57	120.33	110.85
1	O	582	ASP	N-CA-C	5.57	119.59	112.34
1	P	396	SER	N-CA-C	5.57	117.03	111.07
1	U	429	PHE	CA-C-N	5.57	128.20	120.29
1	U	429	PHE	C-N-CA	5.57	128.20	120.29
1	X	189	GLU	CA-C-O	5.57	124.93	118.97
1	X	360	LEU	CA-C-N	5.57	127.69	120.44
1	X	360	LEU	C-N-CA	5.57	127.69	120.44
1	Y	547	GLN	O-C-N	-5.57	116.33	122.07
1	8	571	GLN	O-C-N	-5.57	115.80	122.15
1	l	663	LYS	CA-C-N	5.57	127.68	120.44
1	l	663	LYS	C-N-CA	5.57	127.68	120.44
1	D	649	ILE	N-CA-C	5.57	115.77	110.42
1	D	667	GLN	CA-C-O	5.57	125.81	119.18
1	T	312	ARG	CA-C-O	5.57	126.23	119.38
1	Y	586	SER	N-CA-C	5.57	118.07	111.33
1	1	157	LEU	CA-C-N	5.57	130.69	123.00
1	1	157	LEU	C-N-CA	5.57	130.69	123.00
1	3	477	HIS	CG-CD2-NE2	5.57	112.77	107.20
1	7	668	ILE	O-C-N	5.57	127.50	121.87
1	a	500	THR	O-C-N	-5.57	116.22	122.12
1	b	113	GLU	CA-C-N	5.57	128.62	120.71
1	b	113	GLU	C-N-CA	5.57	128.62	120.71
1	g	562	ALA	N-CA-C	5.57	118.07	111.33
1	h	523	ALA	N-CA-C	5.57	117.35	111.28
1	w	193	ALA	CA-C-N	5.57	127.74	120.28
1	w	193	ALA	C-N-CA	5.57	127.74	120.28
1	y	258	THR	CA-C-N	5.57	130.28	123.10
1	y	258	THR	C-N-CA	5.57	130.28	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	y	347	ILE	N-CA-CB	5.57	118.12	110.54
1	z	229	ILE	CA-C-N	5.57	127.75	120.28
1	z	229	ILE	C-N-CA	5.57	127.75	120.28
1	A	173	TYR	CB-CG-CD1	-5.57	112.44	120.80
1	C	677	TRP	N-CA-C	5.57	117.35	111.28
1	D	102	ASP	CA-C-N	5.57	128.00	120.65
1	D	102	ASP	C-N-CA	5.57	128.00	120.65
1	J	249	ILE	CA-C-O	-5.57	115.27	121.17
1	M	200	ASN	CA-C-O	5.57	128.17	121.65
1	M	461	TRP	CB-CG-CD1	-5.57	118.54	126.90
1	N	226	LEU	CA-C-O	-5.57	114.92	120.66
1	T	277	SER	N-CA-C	5.57	117.35	111.28
1	X	251	LYS	O-C-N	-5.57	116.30	122.09
1	Z	584	ILE	N-CA-C	5.57	116.97	110.62
1	0	638	SER	CA-C-O	-5.57	114.97	120.82
1	2	454	ILE	CA-C-O	5.57	126.32	119.58
1	d	405	ARG	N-CA-C	5.57	118.07	111.33
1	g	312	ARG	CA-C-O	5.57	126.45	120.55
1	k	556	ILE	O-C-N	-5.57	116.47	121.87
1	l	455	ARG	O-C-N	-5.57	115.80	122.15
1	m	392	GLN	CA-C-N	5.57	127.58	120.56
1	m	392	GLN	C-N-CA	5.57	127.58	120.56
1	p	629	HIS	CE1-NE2-CD2	-5.57	103.43	109.00
1	t	475	ILE	N-CA-C	5.57	116.30	110.62
1	z	424	GLU	N-CA-C	5.57	117.43	111.36
1	B	582	ASP	N-CA-C	5.57	119.58	112.34
1	L	390	GLU	CA-C-O	5.57	126.45	120.55
1	V	488	ARG	O-C-N	-5.57	116.22	122.12
1	3	191	HIS	CE1-NE2-CD2	-5.57	103.43	109.00
1	4	669	LEU	N-CA-CB	-5.57	101.92	110.44
1	9	665	MET	N-CA-C	5.57	118.07	111.33
1	c	491	GLU	N-CA-CB	-5.57	102.40	110.47
1	e	148	GLY	O-C-N	-5.57	116.29	122.47
1	e	192	LYS	CA-C-N	5.57	127.68	120.44
1	e	192	LYS	C-N-CA	5.57	127.68	120.44
1	i	560	HIS	CA-CB-CG	-5.57	108.23	113.80
1	i	697	TYR	CB-CA-C	5.57	120.03	110.79
1	w	497	ASN	CA-C-N	5.57	128.19	120.29
1	w	497	ASN	C-N-CA	5.57	128.19	120.29
1	A	222	THR	CA-CB-OG1	5.57	117.95	109.60
1	F	533	ASN	OD1-CG-ND2	-5.57	117.03	122.60
1	G	591	LYS	CA-C-N	5.57	128.38	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	591	LYS	C-N-CA	5.57	128.38	120.53
1	K	668	ILE	O-C-N	5.57	127.56	121.83
1	L	176	THR	CA-CB-CG2	-5.57	101.03	110.50
1	P	151	THR	N-CA-CB	5.57	118.15	109.97
1	S	342	ALA	CA-C-N	5.57	127.74	120.28
1	S	342	ALA	C-N-CA	5.57	127.74	120.28
1	T	174	ARG	NE-CZ-NH2	5.57	124.21	119.20
1	T	517	LEU	CA-C-N	5.57	127.74	120.28
1	T	517	LEU	C-N-CA	5.57	127.74	120.28
1	U	430	ASN	OD1-CG-ND2	-5.57	117.03	122.60
1	X	126	ASP	CA-C-N	5.57	128.01	120.38
1	X	126	ASP	C-N-CA	5.57	128.01	120.38
1	X	395	GLU	CA-C-N	5.57	127.68	120.44
1	X	395	GLU	C-N-CA	5.57	127.68	120.44
1	0	534	VAL	N-CA-C	5.57	118.01	111.05
1	9	288	ARG	NH1-CZ-NH2	-5.57	112.06	119.30
1	b	519	MET	CG-SD-CE	-5.57	88.65	100.90
1	d	183	PRO	CB-CA-C	5.57	121.56	112.26
1	j	170	ARG	NH1-CZ-NH2	-5.57	112.06	119.30
1	l	543	PHE	N-CA-CB	-5.57	101.94	110.12
1	n	578	VAL	O-C-N	-5.57	117.08	122.09
1	r	495	PHE	N-CA-CB	5.57	119.96	110.50
1	w	507	GLN	CA-C-O	5.57	126.43	120.70
1	z	141	VAL	CA-C-N	5.57	131.49	122.53
1	z	141	VAL	C-N-CA	5.57	131.49	122.53
1	B	372	GLU	N-CA-C	5.57	117.43	111.36
1	K	480	VAL	N-CA-CB	5.57	118.11	110.54
1	L	628	ILE	CB-CA-C	5.57	119.65	112.14
1	L	670	GLN	OE1-CD-NE2	5.57	128.17	122.60
1	O	173	TYR	CA-C-N	5.57	132.13	122.56
1	O	173	TYR	C-N-CA	5.57	132.13	122.56
1	Q	312	ARG	CA-C-N	5.57	128.77	120.31
1	Q	312	ARG	C-N-CA	5.57	128.77	120.31
1	Q	510	GLN	CA-C-N	5.57	127.74	120.28
1	Q	510	GLN	C-N-CA	5.57	127.74	120.28
1	R	287	ASP	N-CA-CB	-5.57	101.92	110.16
1	U	302	GLY	CA-C-N	5.57	127.67	120.44
1	U	302	GLY	C-N-CA	5.57	127.67	120.44
1	V	444	ARG	CA-CB-CG	-5.57	102.97	114.10
1	W	273	THR	N-CA-C	5.57	118.88	110.64
1	Z	301	ARG	NH1-CZ-NH2	-5.57	112.06	119.30
1	4	307	VAL	CA-C-N	5.56	127.67	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	307	VAL	C-N-CA	5.56	127.67	120.44
1	g	136	GLU	CA-C-O	5.56	126.23	119.11
1	p	226	LEU	N-CA-C	-5.56	101.59	110.10
1	q	305	LYS	N-CA-CB	5.56	118.91	110.28
1	v	307	VAL	O-C-N	-5.56	116.47	121.87
1	F	390	GLU	CA-C-N	5.56	126.12	120.00
1	F	390	GLU	C-N-CA	5.56	126.12	120.00
1	M	664	ALA	N-CA-CB	5.56	118.30	110.12
1	Q	646	PRO	CB-CA-C	-5.56	103.56	111.68
1	Z	269	ASP	N-CA-CB	-5.56	101.34	110.41
1	8	259	ILE	O-C-N	-5.56	116.61	122.67
1	h	404	LEU	CA-C-N	5.56	128.50	120.38
1	h	404	LEU	C-N-CA	5.56	128.50	120.38
1	h	537	LYS	CA-C-O	-5.56	114.65	120.55
1	o	577	MET	CA-C-N	5.56	131.98	121.97
1	o	577	MET	C-N-CA	5.56	131.98	121.97
1	r	225	ASP	N-CA-C	-5.56	100.11	109.07
1	w	511	GLN	N-CA-C	5.56	119.17	112.38
1	w	697	TYR	O-C-N	-5.56	115.71	122.22
1	y	362	GLU	N-CA-C	5.56	118.27	111.82
1	B	591	LYS	CB-CG-CD	5.56	124.09	111.30
1	B	675	TYR	N-CA-CB	-5.56	101.93	110.16
1	K	96	LYS	CA-C-O	-5.56	114.07	120.24
1	2	168	ALA	CA-C-N	5.56	128.19	122.80
1	2	168	ALA	C-N-CA	5.56	128.19	122.80
1	4	496	VAL	N-CA-C	5.56	116.44	108.93
1	9	476	ILE	O-C-N	-5.56	116.46	121.91
1	9	580	CYS	CB-CA-C	-5.56	99.35	110.42
1	a	477	HIS	CA-C-N	5.56	127.67	120.44
1	a	477	HIS	C-N-CA	5.56	127.67	120.44
1	i	235	ASP	CA-CB-CG	5.56	118.16	112.60
1	r	132	SER	CA-C-N	5.56	127.73	120.28
1	r	132	SER	C-N-CA	5.56	127.73	120.28
1	r	150	VAL	CA-C-N	5.56	130.10	121.26
1	r	150	VAL	C-N-CA	5.56	130.10	121.26
1	B	298	LEU	CA-C-O	5.56	126.11	119.60
1	C	358	VAL	CA-C-N	5.56	127.67	120.44
1	C	358	VAL	C-N-CA	5.56	127.67	120.44
1	5	195	ASN	OD1-CG-ND2	-5.56	117.04	122.60
1	g	687	THR	CB-CA-C	-5.56	101.56	110.79
1	i	698	ARG	O-C-N	-5.56	116.23	122.12
1	k	391	GLY	N-CA-C	5.56	119.40	112.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	n	546	ASN	CA-C-N	5.56	128.19	120.29
1	n	546	ASN	C-N-CA	5.56	128.19	120.29
1	s	142	ALA	N-CA-C	-5.56	101.44	108.45
1	D	182	ASP	CB-CA-C	5.56	118.15	109.42
1	D	483	TYR	CA-C-N	5.56	127.73	120.28
1	D	483	TYR	C-N-CA	5.56	127.73	120.28
1	E	323	MET	N-CA-CB	5.56	119.50	110.77
1	G	689	ARG	NH1-CZ-NH2	-5.56	112.07	119.30
1	H	358	VAL	CA-C-N	5.56	128.18	120.29
1	H	358	VAL	C-N-CA	5.56	128.18	120.29
1	L	645	ILE	O-C-N	-5.56	116.12	120.07
1	N	191	HIS	CA-C-N	5.56	128.05	120.54
1	N	191	HIS	C-N-CA	5.56	128.05	120.54
1	O	270	ILE	N-CA-C	5.56	116.33	110.72
1	S	145	ARG	N-CA-C	5.56	118.10	111.71
1	S	161	LYS	N-CA-C	5.56	118.69	109.46
1	4	558	VAL	CA-C-N	5.56	127.73	120.28
1	4	558	VAL	C-N-CA	5.56	127.73	120.28
1	8	570	LEU	CA-C-N	5.56	128.18	120.29
1	8	570	LEU	C-N-CA	5.56	128.18	120.29
1	d	250	LYS	CA-C-N	5.56	127.66	120.44
1	d	250	LYS	C-N-CA	5.56	127.66	120.44
1	e	627	GLY	N-CA-C	5.56	119.88	112.77
1	g	693	LYS	CA-C-O	5.56	126.44	120.55
1	h	447	GLU	CA-C-N	5.56	128.60	120.71
1	h	447	GLU	C-N-CA	5.56	128.60	120.71
1	h	647	PHE	N-CA-C	5.56	117.34	111.28
1	l	652	PHE	CA-CB-CG	-5.56	108.24	113.80
1	r	329	GLY	CA-C-N	5.56	128.18	120.29
1	r	329	GLY	C-N-CA	5.56	128.18	120.29
1	t	117	ALA	O-C-N	-5.56	115.76	122.65
1	t	589	LEU	CA-C-O	-5.56	114.53	120.42
1	z	454	ILE	O-C-N	-5.56	116.48	121.87
1	F	502	GLU	N-CA-CB	-5.56	101.95	110.12
1	J	392	GLN	N-CA-C	5.56	117.78	111.11
1	K	660	SER	CA-C-N	5.56	127.73	120.28
1	K	660	SER	C-N-CA	5.56	127.73	120.28
1	N	280	HIS	O-C-N	-5.56	116.23	122.12
1	R	126	ASP	CA-C-N	5.56	127.73	120.28
1	R	126	ASP	C-N-CA	5.56	127.73	120.28
1	R	403	GLU	CA-C-N	5.56	127.99	120.38
1	R	403	GLU	C-N-CA	5.56	127.99	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	682	GLN	OE1-CD-NE2	-5.56	117.04	122.60
1	g	427	LYS	CA-C-N	5.56	127.73	120.28
1	g	427	LYS	C-N-CA	5.56	127.73	120.28
1	m	449	ARG	NH1-CZ-NH2	-5.56	112.08	119.30
1	B	677	TRP	CB-CG-CD1	-5.56	118.57	126.90
1	F	233	ALA	CA-C-N	5.56	131.97	121.97
1	F	233	ALA	C-N-CA	5.56	131.97	121.97
1	G	255	ARG	O-C-N	-5.56	115.27	122.77
1	I	509	ILE	O-C-N	-5.56	116.47	121.91
1	J	332	GLU	CA-C-O	5.56	127.30	121.19
1	S	292	ILE	CA-C-N	5.56	130.02	122.19
1	S	292	ILE	C-N-CA	5.56	130.02	122.19
1	T	596	ILE	N-CA-C	5.56	115.75	110.42
1	V	438	GLU	N-CA-C	5.56	117.34	111.28
1	1	388	LEU	CA-C-N	5.55	127.72	120.28
1	1	388	LEU	C-N-CA	5.55	127.72	120.28
1	4	288	ARG	NH1-CZ-NH2	-5.55	112.08	119.30
1	a	296	PRO	CA-C-N	5.55	128.28	120.28
1	a	296	PRO	C-N-CA	5.55	128.28	120.28
1	j	306	SER	CA-C-N	5.55	128.31	120.42
1	j	306	SER	C-N-CA	5.55	128.31	120.42
1	j	338	SER	CA-C-N	5.55	127.72	120.28
1	j	338	SER	C-N-CA	5.55	127.72	120.28
1	n	107	LEU	O-C-N	-5.55	116.23	122.12
1	F	94	GLU	CA-C-N	5.55	130.00	120.72
1	F	94	GLU	C-N-CA	5.55	130.00	120.72
1	L	103	LEU	CB-CA-C	-5.55	101.57	110.79
1	M	494	GLY	O-C-N	-5.55	115.20	122.81
1	P	206	HIS	CE1-NE2-CD2	-5.55	103.44	109.00
1	P	338	SER	N-CA-C	5.55	118.33	110.50
1	U	174	ARG	NE-CZ-NH1	5.55	127.05	121.50
1	U	531	PHE	CA-C-N	5.55	128.31	120.42
1	U	531	PHE	C-N-CA	5.55	128.31	120.42
1	Z	348	THR	CB-CA-C	-5.55	102.16	110.88
1	1	193	ALA	CA-C-N	5.55	127.66	120.44
1	1	193	ALA	C-N-CA	5.55	127.66	120.44
1	4	336	ARG	NH1-CZ-NH2	-5.55	112.08	119.30
1	a	470	GLN	N-CA-C	5.55	118.26	111.82
1	F	415	GLU	N-CA-C	5.55	117.41	111.36
1	K	195	ASN	CA-C-N	5.55	128.31	120.42
1	K	195	ASN	C-N-CA	5.55	128.31	120.42
1	L	656	GLU	CA-C-N	5.55	128.18	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	656	GLU	C-N-CA	5.55	128.18	120.29
1	O	337	LEU	N-CA-C	5.55	118.37	110.10
1	V	464	ILE	CA-C-O	5.55	126.47	120.47
1	0	528	GLN	OE1-CD-NE2	-5.55	117.05	122.60
1	2	366	THR	N-CA-C	5.55	117.01	111.07
1	5	99	PRO	CA-C-N	5.55	127.66	120.44
1	5	99	PRO	C-N-CA	5.55	127.66	120.44
1	5	480	VAL	O-C-N	-5.55	116.48	121.87
1	9	370	LEU	O-C-N	-5.55	116.14	122.08
1	b	311	VAL	CA-C-N	5.55	128.17	120.29
1	b	311	VAL	C-N-CA	5.55	128.17	120.29
1	g	111	GLY	O-C-N	5.55	128.84	122.34
1	g	167	TRP	CA-C-O	5.55	127.33	121.33
1	k	583	GLN	O-C-N	-5.55	116.24	122.12
1	v	566	ASN	CA-CB-CG	5.55	118.15	112.60
1	y	657	ASN	CA-CB-CG	5.55	118.15	112.60
1	A	139	SER	O-C-N	-5.55	116.04	122.09
1	E	528	GLN	N-CA-C	5.55	117.33	111.28
1	I	114	GLN	O-C-N	-5.55	115.88	122.65
1	K	474	ASN	CA-CB-CG	5.55	118.15	112.60
1	O	328	ARG	CG-CD-NE	-5.55	99.79	112.00
1	R	442	VAL	CA-CB-CG1	5.55	119.84	110.40
1	W	469	THR	CA-C-N	5.55	127.72	120.28
1	W	469	THR	C-N-CA	5.55	127.72	120.28
1	X	481	GLU	CA-C-O	-5.55	114.67	120.55
1	Y	129	SER	CA-C-O	-5.55	114.99	120.82
1	0	685	THR	CA-C-N	5.55	127.72	120.28
1	0	685	THR	C-N-CA	5.55	127.72	120.28
1	5	460	ASN	O-C-N	-5.55	114.99	122.43
1	7	125	GLY	CA-C-N	5.55	128.65	120.82
1	7	125	GLY	C-N-CA	5.55	128.65	120.82
1	8	260	ASN	CA-CB-CG	-5.55	107.05	112.60
1	8	458	PHE	CA-CB-CG	5.55	119.35	113.80
1	l	147	SER	N-CA-C	5.55	118.14	108.76
1	m	181	GLN	CA-CB-CG	-5.55	103.00	114.10
1	q	555	ASP	CA-C-N	5.55	127.66	120.56
1	q	555	ASP	C-N-CA	5.55	127.66	120.56
1	v	98	ARG	CA-C-O	5.55	123.72	118.34
1	A	624	THR	N-CA-C	5.55	117.33	111.28
1	F	324	ILE	N-CA-CB	5.55	116.77	110.72
1	F	583	GLN	N-CA-C	5.55	122.62	110.80
1	M	487	TYR	CA-C-N	5.55	129.14	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	487	TYR	C-N-CA	5.55	129.14	120.82
1	O	491	GLU	N-CA-C	5.55	119.14	112.93
1	V	125	GLY	CA-C-N	5.55	129.13	120.75
1	V	125	GLY	C-N-CA	5.55	129.13	120.75
1	2	456	GLU	CA-C-N	5.55	127.71	120.28
1	2	456	GLU	C-N-CA	5.55	127.71	120.28
1	2	690	ARG	CG-CD-NE	-5.55	99.79	112.00
1	3	513	VAL	N-CA-CB	5.55	118.51	110.52
1	6	494	GLY	CA-C-N	5.55	131.69	121.70
1	6	494	GLY	C-N-CA	5.55	131.69	121.70
1	8	98	ARG	CA-C-N	5.55	126.78	119.84
1	8	98	ARG	C-N-CA	5.55	126.78	119.84
1	c	455	ARG	NE-CZ-NH1	5.55	127.05	121.50
1	c	593	ARG	N-CA-C	5.55	117.13	111.14
1	N	587	VAL	N-CA-C	5.55	115.75	110.42
1	Q	108	ARG	NH1-CZ-NH2	-5.55	112.09	119.30
1	7	248	LEU	CA-C-N	5.55	128.30	120.42
1	7	248	LEU	C-N-CA	5.55	128.30	120.42
1	7	579	PHE	CA-CB-CG	5.55	119.35	113.80
1	d	397	HIS	ND1-CE1-NE2	5.55	113.95	108.40
1	f	245	ILE	O-C-N	-5.55	116.49	121.87
1	g	109	ALA	N-CA-C	5.55	118.09	111.71
1	i	224	ILE	CA-C-O	5.55	126.58	120.48
1	j	176	THR	O-C-N	-5.55	116.50	123.27
1	o	280	HIS	CE1-NE2-CD2	-5.55	103.45	109.00
1	t	245	ILE	O-C-N	-5.55	116.49	121.87
1	w	503	ILE	N-CA-C	5.55	116.32	110.72
1	x	226	LEU	CA-C-O	-5.55	115.15	120.97
1	y	285	GLU	CB-CG-CD	5.55	122.03	112.60
1	B	697	TYR	CA-C-N	5.55	127.71	120.28
1	B	697	TYR	C-N-CA	5.55	127.71	120.28
1	L	545	LEU	CA-C-N	5.55	127.65	120.44
1	L	545	LEU	C-N-CA	5.55	127.65	120.44
1	O	127	GLN	N-CA-C	5.55	118.25	111.82
1	R	233	ALA	CA-C-N	-5.55	116.31	123.19
1	R	233	ALA	C-N-CA	-5.55	116.31	123.19
1	Y	569	GLN	CA-C-N	5.55	127.98	120.38
1	Y	569	GLN	C-N-CA	5.55	127.98	120.38
1	1	623	PHE	CA-CB-CG	-5.54	108.25	113.80
1	3	351	GLN	O-C-N	-5.54	115.45	122.27
1	g	175	ASN	O-C-N	-5.54	114.98	121.97
1	g	629	HIS	CA-CB-CG	5.54	119.34	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	m	455	ARG	NE-CZ-NH1	5.54	127.05	121.50
1	v	556	ILE	N-CA-C	5.54	116.28	110.62
1	z	518	SER	CA-C-O	5.54	126.19	119.31
1	A	506	HIS	CG-CD2-NE2	5.54	112.75	107.20
1	F	352	THR	N-CA-C	5.54	117.00	111.07
1	M	98	ARG	NE-CZ-NH1	5.54	127.05	121.50
1	P	381	HIS	CA-C-N	5.54	128.06	120.46
1	P	381	HIS	C-N-CA	5.54	128.06	120.46
1	R	399	LYS	CA-C-O	-5.54	113.59	119.97
1	T	135	LEU	CA-C-N	5.54	127.71	120.28
1	T	135	LEU	C-N-CA	5.54	127.71	120.28
1	W	466	ALA	O-C-N	-5.54	115.83	122.15
1	X	136	GLU	CA-C-N	5.54	128.26	120.28
1	X	136	GLU	C-N-CA	5.54	128.26	120.28
1	1	395	GLU	CB-CG-CD	5.54	122.02	112.60
1	1	429	PHE	CA-C-N	5.54	127.65	120.44
1	1	429	PHE	C-N-CA	5.54	127.65	120.44
1	3	353	HIS	CB-CG-CD2	-5.54	123.99	131.20
1	3	428	MET	CG-SD-CE	-5.54	88.70	100.90
1	7	348	THR	O-C-N	-5.54	116.24	122.12
1	h	173	TYR	O-C-N	-5.54	114.63	122.06
1	h	403	GLU	N-CA-C	5.54	117.32	111.28
1	h	669	LEU	O-C-N	-5.54	114.34	122.43
1	i	181	GLN	N-CA-C	5.54	117.93	108.67
1	m	498	TYR	CB-CA-C	5.54	119.66	110.90
1	s	519	MET	O-C-N	-5.54	115.73	122.22
1	s	706	LEU	N-CA-C	5.54	117.00	111.07
1	x	449	ARG	NH1-CZ-NH2	-5.54	112.09	119.30
1	C	547	GLN	N-CA-C	5.54	117.00	111.07
1	J	519	MET	N-CA-C	5.54	118.25	111.82
1	L	202	ARG	N-CA-C	5.54	119.91	113.20
1	M	513	VAL	CA-C-N	5.54	127.69	120.26
1	M	513	VAL	C-N-CA	5.54	127.69	120.26
1	Q	194	GLN	N-CA-C	5.54	117.32	111.28
1	S	403	GLU	N-CA-CB	5.54	118.27	110.12
1	U	94	GLU	CA-CB-CG	5.54	125.19	114.10
1	U	553	ILE	N-CA-C	5.54	116.94	110.62
1	0	302	GLY	CA-C-O	5.54	126.46	120.75
1	2	127	GLN	CG-CD-OE1	5.54	131.88	120.80
1	2	268	VAL	CA-C-N	5.54	128.97	121.05
1	2	268	VAL	C-N-CA	5.54	128.97	121.05
1	2	551	SER	CA-C-O	5.54	126.42	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	474	ASN	CB-CG-ND2	5.54	124.71	116.40
1	8	179	GLU	O-C-N	-5.54	116.90	123.22
1	8	290	ILE	O-C-N	-5.54	117.06	122.99
1	9	339	LEU	O-C-N	-5.54	116.36	122.07
1	e	536	LYS	CA-C-O	5.54	126.42	120.55
1	m	282	VAL	CA-CB-CG1	-5.54	100.98	110.40
1	m	644	GLN	N-CA-C	5.54	122.61	110.80
1	p	511	GLN	N-CA-C	5.54	118.84	111.75
1	v	526	ILE	N-CA-C	-5.54	105.12	110.72
1	y	163	PRO	CA-C-O	-5.54	113.93	122.57
1	A	93	TYR	CB-CA-C	5.54	120.63	110.10
1	A	196	VAL	N-CA-C	5.54	115.74	110.42
1	A	256	GLN	CA-C-O	5.54	125.47	119.15
1	A	381	HIS	ND1-CE1-NE2	5.54	113.94	108.40
1	C	114	GLN	OE1-CD-NE2	-5.54	117.06	122.60
1	E	560	HIS	CA-CB-CG	-5.54	108.26	113.80
1	F	501	PHE	CA-C-O	-5.54	114.68	120.55
1	H	676	SER	O-C-N	-5.54	116.11	122.09
1	J	513	VAL	CA-C-O	-5.54	115.51	121.27
1	L	435	LYS	N-CA-C	5.54	117.40	111.36
1	N	97	VAL	N-CA-C	5.54	116.32	110.72
1	O	237	GLN	OE1-CD-NE2	-5.54	117.06	122.60
1	X	416	ALA	O-C-N	5.54	129.65	122.89
1	2	282	VAL	CA-CB-CG2	5.54	119.82	110.40
1	o	189	GLU	N-CA-C	-5.54	106.88	113.97
1	G	417	ASP	CA-C-N	5.54	127.70	120.28
1	G	417	ASP	C-N-CA	5.54	127.70	120.28
1	Q	297	ASP	CA-CB-CG	5.54	118.14	112.60
1	W	634	PHE	CB-CA-C	-5.54	101.59	110.79
1	X	526	ILE	N-CA-C	5.54	116.18	110.36
1	6	551	SER	N-CA-CB	5.54	118.36	110.16
1	e	206	HIS	CA-CB-CG	5.54	119.34	113.80
1	g	436	LEU	O-C-N	-5.54	116.25	122.12
1	h	306	SER	N-CA-C	5.54	117.32	111.28
1	h	310	VAL	N-CA-CB	5.54	118.07	110.54
1	h	425	LYS	O-C-N	-5.54	116.25	122.12
1	j	482	LYS	CA-C-N	5.54	127.64	120.44
1	j	482	LYS	C-N-CA	5.54	127.64	120.44
1	o	377	GLU	N-CA-C	5.54	117.00	111.07
1	r	153	CYS	CA-C-O	-5.54	115.41	120.50
1	t	334	THR	N-CA-C	5.54	117.32	111.28
1	t	519	MET	CA-C-N	5.54	127.70	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	t	519	MET	C-N-CA	5.54	127.70	120.28
1	v	554	GLU	CA-C-O	5.54	126.64	120.82
1	B	194	GLN	CA-C-O	5.54	126.08	119.60
1	B	545	LEU	N-CA-C	5.54	117.75	111.11
1	J	542	PHE	CA-C-N	5.54	127.97	120.44
1	J	542	PHE	C-N-CA	5.54	127.97	120.44
1	K	242	GLY	CA-C-O	5.54	126.53	120.66
1	R	218	VAL	N-CA-CB	5.54	118.96	111.21
1	V	155	LEU	CA-C-N	5.54	129.29	122.37
1	V	155	LEU	C-N-CA	5.54	129.29	122.37
1	3	497	ASN	CA-C-N	5.54	127.70	120.28
1	3	497	ASN	C-N-CA	5.54	127.70	120.28
1	5	171	ILE	CA-C-O	5.54	126.23	120.36
1	f	128	SER	O-C-N	-5.54	114.87	122.46
1	n	510	GLN	N-CA-CB	5.54	118.36	110.16
1	V	649	ILE	O-C-N	-5.54	116.13	121.83
1	1	531	PHE	CA-C-N	5.54	127.53	120.56
1	1	531	PHE	C-N-CA	5.54	127.53	120.56
1	c	164	CYS	CA-C-N	5.54	132.11	121.54
1	c	164	CYS	C-N-CA	5.54	132.11	121.54
1	f	397	HIS	CB-CA-C	5.54	119.67	110.81
1	i	685	THR	O-C-N	-5.54	116.11	122.09
1	k	566	ASN	CA-CB-CG	-5.54	107.06	112.60
1	p	422	LEU	N-CA-CB	5.54	118.86	110.28
1	A	461	TRP	CA-C-N	5.54	128.04	120.46
1	A	461	TRP	C-N-CA	5.54	128.04	120.46
1	B	575	GLU	O-C-N	-5.54	115.70	122.34
1	R	592	VAL	CB-CA-C	5.54	119.61	112.14
1	U	189	GLU	N-CA-C	5.54	117.31	111.28
1	W	105	ASP	O-C-N	-5.54	116.25	122.12
1	W	262	VAL	N-CA-C	5.54	116.28	108.36
1	W	270	ILE	CA-C-N	5.54	127.70	120.28
1	W	270	ILE	C-N-CA	5.54	127.70	120.28
1	X	356	PHE	O-C-N	-5.54	115.01	122.43
1	3	352	THR	CA-CB-CG2	5.53	119.91	110.50
1	4	655	ARG	NH1-CZ-NH2	-5.53	112.11	119.30
1	7	695	ARG	CG-CD-NE	-5.53	99.83	112.00
1	9	453	LYS	CA-C-N	5.53	128.04	120.46
1	9	453	LYS	C-N-CA	5.53	128.04	120.46
1	g	180	LEU	CA-C-O	-5.53	112.74	119.32
1	h	474	ASN	N-CA-C	5.53	117.17	111.03
1	i	486	GLN	CB-CG-CD	-5.53	103.19	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	k	486	GLN	N-CA-C	5.53	117.61	108.48
1	s	406	ARG	NE-CZ-NH2	-5.53	114.22	119.20
1	v	180	LEU	O-C-N	5.53	127.77	122.07
1	C	135	LEU	CA-C-O	5.53	126.42	120.55
1	E	417	ASP	CB-CA-C	-5.53	101.60	110.79
1	G	410	ASP	CA-C-N	5.53	132.37	122.13
1	G	410	ASP	C-N-CA	5.53	132.37	122.13
1	H	464	ILE	N-CA-C	5.53	116.26	110.62
1	H	554	GLU	O-C-N	-5.53	115.84	122.15
1	K	369	ARG	NE-CZ-NH1	-5.53	115.97	121.50
1	M	394	ARG	CA-C-N	5.53	127.64	120.44
1	M	394	ARG	C-N-CA	5.53	127.64	120.44
1	M	644	GLN	O-C-N	-5.53	116.11	122.09
1	O	705	ALA	CB-CA-C	5.53	119.57	110.88
1	Z	245	ILE	O-C-N	-5.53	116.49	121.91
1	5	379	ILE	N-CA-C	5.53	116.26	110.62
1	7	373	ARG	N-CA-C	5.53	116.99	111.07
1	7	481	GLU	CA-C-N	5.53	128.01	120.54
1	7	481	GLU	C-N-CA	5.53	128.01	120.54
1	7	561	THR	O-C-N	-5.53	116.34	122.09
1	a	412	PRO	CA-C-N	5.53	132.11	121.54
1	a	412	PRO	C-N-CA	5.53	132.11	121.54
1	b	495	PHE	CA-C-N	-5.53	113.09	120.50
1	b	495	PHE	C-N-CA	-5.53	113.09	120.50
1	C	538	HIS	CE1-NE2-CD2	-5.53	103.47	109.00
1	F	261	LEU	O-C-N	-5.53	116.84	123.31
1	M	241	ILE	N-CA-CB	5.53	120.11	110.65
1	S	312	ARG	N-CA-C	5.53	117.31	111.28
1	U	153	CYS	N-CA-C	-5.53	101.83	108.25
1	V	223	ILE	CA-CB-CG1	5.53	119.80	110.40
1	W	344	LYS	N-CA-C	5.53	117.31	111.28
1	a	383	GLN	CA-C-N	5.53	127.69	120.28
1	a	383	GLN	C-N-CA	5.53	127.69	120.28
1	i	128	SER	N-CA-C	5.53	119.20	112.23
1	i	285	GLU	N-CA-C	-5.53	106.37	113.23
1	k	477	HIS	CG-CD2-NE2	5.53	112.73	107.20
1	l	206	HIS	CA-C-N	5.53	128.56	120.71
1	l	206	HIS	C-N-CA	5.53	128.56	120.71
1	n	325	VAL	CA-C-N	5.53	129.41	121.50
1	n	325	VAL	C-N-CA	5.53	129.41	121.50
1	r	167	TRP	CA-C-O	-5.53	114.81	120.89
1	z	324	ILE	N-CA-CB	5.53	118.83	111.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	170	ARG	NE-CZ-NH1	5.53	127.03	121.50
1	G	343	THR	CA-C-O	5.53	126.60	120.63
1	I	351	GLN	N-CA-CB	5.53	118.88	110.14
1	I	593	ARG	N-CA-C	5.53	116.99	111.07
1	O	270	ILE	CA-C-O	5.53	126.71	120.85
1	T	413	SER	CA-C-O	5.53	126.17	119.31
1	0	397	HIS	CA-C-N	5.53	127.63	120.44
1	0	397	HIS	C-N-CA	5.53	127.63	120.44
1	2	233	ALA	N-CA-CB	5.53	119.44	110.43
1	6	510	GLN	OE1-CD-NE2	5.53	128.13	122.60
1	j	636	GLU	N-CA-C	5.53	117.31	111.28
1	o	669	LEU	O-C-N	-5.53	114.36	122.43
1	q	239	ARG	CA-C-N	5.53	131.65	121.70
1	q	239	ARG	C-N-CA	5.53	131.65	121.70
1	x	679	LEU	O-C-N	-5.53	115.24	122.59
1	z	499	LYS	CA-C-N	5.53	127.63	120.44
1	z	499	LYS	C-N-CA	5.53	127.63	120.44
1	B	682	GLN	CA-C-O	-5.53	114.98	120.90
1	P	371	ALA	CA-C-N	5.53	127.69	120.28
1	P	371	ALA	C-N-CA	5.53	127.69	120.28
1	Z	273	THR	N-CA-C	5.53	117.72	109.59
1	2	299	MET	N-CA-C	5.53	117.71	109.25
1	5	209	ILE	CA-C-O	-5.53	114.00	121.02
1	a	209	ILE	O-C-N	-5.53	116.67	122.81
1	d	121	ILE	O-C-N	-5.53	116.54	122.45
1	d	264	VAL	O-C-N	-5.53	114.80	121.10
1	e	485	LYS	CB-CA-C	5.53	119.96	110.01
1	i	541	GLU	CA-C-O	5.53	126.62	120.82
1	k	498	TYR	O-C-N	-5.53	116.34	122.09
1	m	491	GLU	CA-C-N	5.53	131.93	123.47
1	m	491	GLU	C-N-CA	5.53	131.93	123.47
1	s	101	ILE	N-CA-C	5.53	116.26	110.62
1	A	278	MET	CG-SD-CE	-5.53	88.74	100.90
1	B	637	THR	O-C-N	-5.53	116.26	122.12
1	D	362	GLU	N-CA-C	5.53	119.19	112.23
1	D	675	TYR	CA-CB-CG	-5.53	103.95	113.90
1	F	657	ASN	N-CA-C	5.53	116.98	111.07
1	I	662	GLN	N-CA-C	5.53	116.98	111.07
1	L	483	TYR	N-CA-C	5.53	119.28	112.54
1	Q	362	GLU	CA-C-N	5.53	127.24	120.22
1	Q	362	GLU	C-N-CA	5.53	127.24	120.22
1	4	624	THR	N-CA-C	5.53	117.74	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8	529	GLN	O-C-N	-5.53	116.26	122.12
1	a	353	HIS	CA-C-N	5.53	126.75	119.84
1	a	353	HIS	C-N-CA	5.53	126.75	119.84
1	f	241	ILE	CA-C-O	5.53	127.03	121.17
1	n	131	LYS	CA-C-N	5.53	128.24	120.28
1	n	131	LYS	C-N-CA	5.53	128.24	120.28
1	o	521	GLN	CA-C-O	-5.53	114.11	120.24
1	F	491	GLU	N-CA-C	5.53	117.91	109.62
1	K	521	GLN	OE1-CD-NE2	-5.53	117.08	122.60
1	M	528	GLN	CA-C-N	5.53	128.00	120.54
1	M	528	GLN	C-N-CA	5.53	128.00	120.54
1	N	197	MET	CG-SD-CE	-5.53	88.74	100.90
1	O	484	GLU	CA-C-O	-5.53	114.69	120.55
1	P	647	PHE	N-CA-C	5.53	117.74	111.11
1	V	395	GLU	O-C-N	-5.53	115.75	122.22
1	5	552	THR	CA-C-O	-5.52	115.01	120.70
1	9	673	ASN	OD1-CG-ND2	-5.52	117.08	122.60
1	y	557	LYS	O-C-N	-5.52	116.38	122.07
1	J	593	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	K	586	SER	N-CA-CB	5.52	118.24	110.12
1	6	94	GLU	N-CA-CB	-5.52	102.27	110.61
1	b	390	GLU	N-CA-C	5.52	117.30	111.28
1	d	246	LYS	N-CA-C	5.52	117.30	111.28
1	f	107	LEU	N-CA-C	5.52	117.30	111.28
1	f	349	PHE	CA-C-O	-5.52	115.02	120.82
1	i	415	GLU	CA-C-N	5.52	127.62	120.44
1	i	415	GLU	C-N-CA	5.52	127.62	120.44
1	k	530	ALA	CA-C-N	5.52	128.13	120.29
1	k	530	ALA	C-N-CA	5.52	128.13	120.29
1	l	640	ARG	NE-CZ-NH2	-5.52	114.23	119.20
1	o	393	ILE	O-C-N	-5.52	116.14	121.83
1	p	694	GLU	N-CA-C	5.52	116.98	111.07
1	r	506	HIS	N-CA-C	5.52	118.01	111.33
1	s	145	ARG	N-CA-C	5.52	117.30	111.28
1	y	345	LYS	N-CA-C	5.52	116.98	111.07
1	A	192	LYS	CA-C-N	5.52	127.94	120.65
1	A	192	LYS	C-N-CA	5.52	127.94	120.65
1	F	129	SER	O-C-N	-5.52	115.48	122.27
1	S	218	VAL	CA-C-N	5.52	126.81	120.85
1	S	218	VAL	C-N-CA	5.52	126.81	120.85
1	T	186	VAL	CA-C-O	5.52	126.70	119.85
1	T	428	MET	N-CA-CB	5.52	118.08	110.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	191	HIS	CB-CG-CD2	-5.52	124.02	131.20
1	2	330	GLN	CA-C-O	5.52	126.16	119.31
1	a	344	LYS	N-CA-C	5.52	118.22	111.82
1	L	381	HIS	ND1-CE1-NE2	5.52	113.92	108.40
1	R	557	LYS	N-CA-CB	-5.52	102.00	110.12
1	S	681	GLU	O-C-N	-5.52	115.97	123.15
1	X	231	ARG	N-CA-CB	5.52	119.82	110.49
1	X	492	LEU	CB-CA-C	5.52	121.41	110.42
1	6	553	ILE	O-C-N	-5.52	116.52	121.87
1	8	378	LEU	N-CA-C	5.52	117.73	111.11
1	9	624	THR	CA-CB-OG1	5.52	117.88	109.60
1	g	240	ASP	CA-C-N	5.52	129.35	120.30
1	g	240	ASP	C-N-CA	5.52	129.35	120.30
1	i	476	ILE	CA-C-O	5.52	127.02	121.17
1	m	598	ASN	CA-CB-CG	5.52	118.12	112.60
1	n	346	GLU	N-CA-C	5.52	118.01	111.33
1	p	118	LEU	N-CA-C	5.52	122.01	109.81
1	p	664	ALA	CA-C-N	5.52	127.94	120.38
1	p	664	ALA	C-N-CA	5.52	127.94	120.38
1	q	566	ASN	N-CA-C	5.52	116.98	111.07
1	q	678	LEU	N-CA-C	5.52	117.38	111.36
1	s	257	GLN	CG-CD-NE2	5.52	124.68	116.40
1	v	547	GLN	N-CA-C	5.52	118.06	111.71
1	w	178	LEU	CA-C-N	5.52	129.19	121.24
1	w	178	LEU	C-N-CA	5.52	129.19	121.24
1	x	560	HIS	CE1-NE2-CD2	-5.52	103.48	109.00
1	y	296	PRO	CA-C-N	5.52	128.23	120.28
1	y	296	PRO	C-N-CA	5.52	128.23	120.28
1	y	311	VAL	CB-CA-C	-5.52	104.69	112.14
1	H	236	ASN	CB-CG-ND2	5.52	124.68	116.40
1	H	665	MET	O-C-N	-5.52	115.76	122.22
1	O	410	ASP	CA-CB-CG	-5.52	107.08	112.60
1	S	174	ARG	CA-C-O	5.52	126.11	119.43
1	V	573	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	0	142	ALA	CA-C-N	5.52	128.32	120.49
1	0	142	ALA	C-N-CA	5.52	128.32	120.49
1	0	662	GLN	O-C-N	-5.52	116.27	122.12
1	1	368	PRO	N-CA-CB	-5.52	97.46	103.25
1	8	388	LEU	N-CA-C	5.52	118.22	111.82
1	c	329	GLY	N-CA-C	5.52	119.64	112.25
1	c	393	ILE	N-CA-C	5.52	115.72	110.42
1	d	369	ARG	N-CA-CB	5.52	118.72	110.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	j	307	VAL	O-C-N	-5.52	116.15	121.83
1	j	491	GLU	CA-C-N	5.52	132.08	121.54
1	j	491	GLU	C-N-CA	5.52	132.08	121.54
1	l	493	LEU	CA-C-O	5.52	128.40	120.51
1	m	157	LEU	N-CA-C	5.52	117.29	108.41
1	o	305	LYS	CA-C-O	5.52	126.40	120.55
1	t	357	ARG	N-CA-C	5.52	117.29	111.28
1	u	301	ARG	CA-CB-CG	-5.52	103.07	114.10
1	u	494	GLY	CA-C-N	5.52	131.63	121.70
1	u	494	GLY	C-N-CA	5.52	131.63	121.70
1	u	508	TYR	CA-C-N	5.52	127.51	120.56
1	u	508	TYR	C-N-CA	5.52	127.51	120.56
1	y	166	ALA	CA-C-O	5.52	127.05	120.70
1	z	538	HIS	CE1-NE2-CD2	-5.52	103.48	109.00
1	A	417	ASP	N-CA-C	5.52	117.38	111.36
1	B	226	LEU	N-CA-CB	-5.52	100.94	110.10
1	C	178	LEU	CA-C-N	5.52	128.68	120.95
1	C	178	LEU	C-N-CA	5.52	128.68	120.95
1	I	532	ILE	N-CA-C	5.52	116.15	110.36
1	L	371	ALA	CA-C-N	5.52	127.67	120.28
1	L	371	ALA	C-N-CA	5.52	127.67	120.28
1	O	502	GLU	N-CA-C	5.52	117.30	111.28
1	R	449	ARG	NH1-CZ-NH2	-5.52	112.13	119.30
1	S	438	GLU	CA-C-O	5.52	126.40	120.55
1	T	486	GLN	O-C-N	-5.52	115.25	122.59
1	T	649	ILE	N-CA-C	5.52	115.72	110.42
1	V	643	ASN	CA-CB-CG	-5.52	107.08	112.60
1	V	686	ALA	CA-C-N	5.52	127.67	120.28
1	V	686	ALA	C-N-CA	5.52	127.67	120.28
1	3	523	ALA	CA-C-N	5.52	127.61	120.44
1	3	523	ALA	C-N-CA	5.52	127.61	120.44
1	k	373	ARG	N-CA-C	5.52	116.97	111.07
1	l	371	ALA	N-CA-CB	-5.52	101.72	109.94
1	x	537	LYS	N-CA-C	5.52	117.29	111.28
1	x	656	GLU	CB-CG-CD	5.52	121.98	112.60
1	z	208	LEU	O-C-N	-5.52	116.50	123.01
1	C	511	GLN	OE1-CD-NE2	-5.52	117.08	122.60
1	T	306	SER	N-CA-C	5.52	117.37	111.36
1	V	143	LEU	CA-C-N	5.52	126.73	119.84
1	V	143	LEU	C-N-CA	5.52	126.73	119.84
1	V	437	VAL	CA-C-N	5.52	127.67	120.28
1	V	437	VAL	C-N-CA	5.52	127.67	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	505	VAL	N-CA-CB	5.51	118.04	110.54
1	5	346	GLU	CA-C-N	5.51	127.51	120.56
1	5	346	GLU	C-N-CA	5.51	127.51	120.56
1	e	205	SER	CB-CA-C	5.51	119.80	109.71
1	g	394	ARG	NE-CZ-NH2	-5.51	114.24	119.20
1	h	214	THR	CA-CB-CG2	5.51	119.87	110.50
1	j	690	ARG	NE-CZ-NH2	-5.51	114.24	119.20
1	o	414	GLN	CA-C-O	5.51	128.40	120.51
1	r	503	ILE	N-CA-C	5.51	116.15	110.36
1	J	259	ILE	N-CA-CB	5.51	116.73	110.72
1	N	328	ARG	NE-CZ-NH2	5.51	124.16	119.20
1	O	435	LYS	CA-C-N	5.51	127.61	120.44
1	O	435	LYS	C-N-CA	5.51	127.61	120.44
1	Q	350	PHE	CA-C-N	-5.51	111.51	120.72
1	Q	350	PHE	C-N-CA	-5.51	111.51	120.72
1	T	257	GLN	OE1-CD-NE2	-5.51	117.08	122.60
1	V	249	ILE	N-CA-CB	5.51	116.63	110.51
1	Z	102	ASP	O-C-N	-5.51	115.77	122.22
1	5	514	GLU	CB-CG-CD	-5.51	103.23	112.60
1	i	455	ARG	NH1-CZ-NH2	-5.51	112.13	119.30
1	A	695	ARG	N-CA-C	5.51	116.97	111.07
1	R	195	ASN	N-CA-C	5.51	116.97	111.07
1	W	556	ILE	N-CA-C	5.51	116.24	110.62
1	1	581	GLN	CA-CB-CG	5.51	125.12	114.10
1	2	320	LYS	CA-C-O	5.51	126.37	119.59
1	4	296	PRO	CA-C-N	5.51	128.22	120.28
1	4	296	PRO	C-N-CA	5.51	128.22	120.28
1	c	698	ARG	CA-C-N	5.51	127.67	120.28
1	c	698	ARG	C-N-CA	5.51	127.67	120.28
1	e	163	PRO	N-CA-C	-5.51	106.52	114.18
1	p	239	ARG	NE-CZ-NH1	5.51	127.01	121.50
1	p	542	PHE	O-C-N	-5.51	115.61	122.83
1	r	345	LYS	CA-C-N	5.51	127.98	120.54
1	r	345	LYS	C-N-CA	5.51	127.98	120.54
1	t	241	ILE	CA-C-N	5.51	127.07	120.13
1	t	241	ILE	C-N-CA	5.51	127.07	120.13
1	u	244	GLN	N-CA-CB	5.51	118.22	110.12
1	v	645	ILE	CA-C-O	5.51	122.38	118.69
1	w	357	ARG	N-CA-CB	-5.51	102.02	110.01
1	B	265	PRO	N-CA-C	5.51	119.74	111.14
1	G	640	ARG	CA-C-N	5.51	128.12	120.29
1	G	640	ARG	C-N-CA	5.51	128.12	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	583	GLN	CA-C-O	5.51	126.39	120.55
1	N	131	LYS	N-CA-C	5.51	117.29	111.28
1	R	274	GLU	N-CA-C	5.51	117.29	111.28
1	U	450	LEU	N-CA-CB	-5.51	101.73	109.94
1	U	589	LEU	CA-C-N	5.51	127.60	120.44
1	U	589	LEU	C-N-CA	5.51	127.60	120.44
1	d	662	GLN	OE1-CD-NE2	-5.51	117.09	122.60
1	e	532	ILE	CA-C-N	5.51	127.66	120.28
1	e	532	ILE	C-N-CA	5.51	127.66	120.28
1	f	293	LEU	O-C-N	-5.51	116.79	123.13
1	o	656	GLU	CA-C-N	5.51	127.60	120.44
1	o	656	GLU	C-N-CA	5.51	127.60	120.44
1	t	229	ILE	CA-C-N	5.51	127.66	120.28
1	t	229	ILE	C-N-CA	5.51	127.66	120.28
1	t	571	GLN	N-CA-C	5.51	117.72	111.11
1	x	313	ASN	CA-C-O	5.51	127.26	120.15
1	J	477	HIS	CG-CD2-NE2	5.51	112.71	107.20
1	K	259	ILE	N-CA-CB	5.51	116.54	110.53
1	M	312	ARG	N-CA-C	5.51	117.28	111.28
1	O	186	VAL	CB-CA-C	-5.51	104.80	112.02
1	R	367	VAL	N-CA-C	5.51	120.78	108.88
1	S	349	PHE	CA-CB-CG	-5.51	108.29	113.80
1	U	357	ARG	N-CA-C	5.51	117.74	111.02
1	W	294	THR	CA-C-N	5.51	128.39	123.10
1	W	294	THR	C-N-CA	5.51	128.39	123.10
1	X	289	THR	CA-C-N	5.51	130.02	123.19
1	X	289	THR	C-N-CA	5.51	130.02	123.19
1	Y	266	CYS	O-C-N	-5.51	115.77	122.22
1	0	296	PRO	N-CA-CB	-5.51	98.23	103.41
1	a	487	TYR	N-CA-C	5.51	117.28	111.28
1	f	323	MET	CG-SD-CE	-5.51	88.78	100.90
1	h	197	MET	N-CA-C	5.51	117.28	111.28
1	h	248	LEU	N-CA-C	5.51	116.96	111.07
1	r	663	LYS	CA-C-N	5.51	127.66	120.28
1	r	663	LYS	C-N-CA	5.51	127.66	120.28
1	z	112	VAL	CA-C-N	5.51	129.80	120.88
1	z	112	VAL	C-N-CA	5.51	129.80	120.88
1	G	700	THR	CA-C-N	5.51	129.95	121.19
1	G	700	THR	C-N-CA	5.51	129.95	121.19
1	H	554	GLU	N-CA-C	5.51	117.36	111.36
1	R	245	ILE	CA-C-N	5.51	128.11	120.29
1	R	245	ILE	C-N-CA	5.51	128.11	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	217	GLU	N-CA-C	5.51	117.28	111.28
1	W	424	GLU	CA-C-O	-5.51	114.71	120.55
1	0	136	GLU	O-C-N	-5.51	116.40	122.07
1	5	438	GLU	CB-CG-CD	5.51	121.96	112.60
1	6	176	THR	OG1-CB-CG2	-5.51	98.29	109.30
1	7	680	GLN	CA-C-O	5.51	126.96	120.96
1	9	302	GLY	O-C-N	-5.51	116.52	122.19
1	9	316	TYR	CA-C-O	-5.51	113.15	119.32
1	a	697	TYR	CA-C-N	5.51	127.66	120.28
1	a	697	TYR	C-N-CA	5.51	127.66	120.28
1	d	589	LEU	N-CA-C	5.51	116.96	111.07
1	e	334	THR	N-CA-CB	5.51	118.14	109.94
1	h	433	ILE	N-CA-CB	5.51	118.03	110.54
1	j	200	ASN	CA-CB-CG	-5.51	107.09	112.60
1	j	270	ILE	N-CA-C	5.51	115.70	110.53
1	l	490	LYS	CG-CD-CE	5.51	123.97	111.30
1	o	450	LEU	CA-C-N	5.51	127.66	120.28
1	o	450	LEU	C-N-CA	5.51	127.66	120.28
1	s	692	LEU	CA-C-O	5.51	126.39	120.55
1	v	622	SER	CA-C-N	5.51	127.66	120.28
1	v	622	SER	C-N-CA	5.51	127.66	120.28
1	w	638	SER	N-CA-C	5.51	117.28	111.28
1	x	501	PHE	N-CA-C	5.51	116.96	111.07
1	y	365	ALA	N-CA-C	5.51	119.62	113.01
1	z	352	THR	N-CA-C	5.51	117.36	111.36
1	A	393	ILE	O-C-N	5.51	127.61	121.94
1	B	590	LYS	CA-C-N	5.51	127.60	120.44
1	B	590	LYS	C-N-CA	5.51	127.60	120.44
1	E	443	VAL	O-C-N	5.51	127.81	122.69
1	I	416	ALA	N-CA-C	5.51	117.72	111.11
1	J	98	ARG	NE-CZ-NH1	5.51	127.01	121.50
1	T	552	THR	N-CA-CB	5.51	117.99	110.01
1	3	303	THR	CA-C-O	5.50	126.58	120.63
1	m	288	ARG	NE-CZ-NH1	5.50	127.00	121.50
1	m	474	ASN	CB-CA-C	5.50	120.21	110.85
1	n	710	SER	CA-CB-OG	-5.50	100.09	111.10
1	r	660	SER	CA-C-N	5.50	127.66	120.28
1	r	660	SER	C-N-CA	5.50	127.66	120.28
1	B	564	ALA	CA-C-N	5.50	128.11	120.29
1	B	564	ALA	C-N-CA	5.50	128.11	120.29
1	F	423	ILE	O-C-N	-5.50	116.53	121.87
1	H	687	THR	N-CA-CB	5.50	118.59	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	420	PHE	CA-CB-CG	-5.50	108.30	113.80
1	Q	639	LYS	CA-C-N	5.50	128.11	120.29
1	Q	639	LYS	C-N-CA	5.50	128.11	120.29
1	X	257	GLN	CA-C-O	5.50	126.15	119.38
1	5	680	GLN	CG-CD-OE1	-5.50	109.79	120.80
1	5	699	LEU	CA-C-N	5.50	127.65	120.28
1	5	699	LEU	C-N-CA	5.50	127.65	120.28
1	5	707	CYS	N-CA-C	5.50	116.96	111.07
1	d	301	ARG	N-CA-C	5.50	117.98	110.55
1	h	254	GLN	CA-C-N	5.50	128.92	121.05
1	h	254	GLN	C-N-CA	5.50	128.92	121.05
1	h	273	THR	CA-C-N	5.50	127.59	120.44
1	h	273	THR	C-N-CA	5.50	127.59	120.44
1	k	683	SER	CA-C-N	5.50	127.59	120.44
1	k	683	SER	C-N-CA	5.50	127.59	120.44
1	l	270	ILE	N-CA-C	5.50	117.97	111.09
1	m	485	LYS	CA-C-O	5.50	126.16	119.11
1	q	147	SER	N-CA-C	-5.50	103.72	110.65
1	t	355	TYR	N-CA-CB	5.50	118.31	110.16
1	t	444	ARG	N-CA-CB	5.50	118.81	110.45
1	H	199	GLY	CA-C-N	5.50	129.95	122.19
1	H	199	GLY	C-N-CA	5.50	129.95	122.19
1	I	460	ASN	OD1-CG-ND2	-5.50	117.10	122.60
1	J	632	ALA	N-CA-C	5.50	116.96	111.07
1	N	572	PHE	CA-C-O	5.50	126.32	120.10
1	O	538	HIS	CA-CB-CG	5.50	119.30	113.80
1	O	657	ASN	CA-C-N	5.50	126.05	119.94
1	O	657	ASN	C-N-CA	5.50	126.05	119.94
1	P	558	VAL	N-CA-CB	5.50	120.06	110.65
1	Q	242	GLY	N-CA-C	5.50	119.33	112.73
1	Q	303	THR	CA-CB-OG1	5.50	117.86	109.60
1	T	362	GLU	N-CA-C	5.50	119.17	112.23
1	U	667	GLN	OE1-CD-NE2	-5.50	117.10	122.60
1	X	505	VAL	CA-C-N	5.50	127.65	120.28
1	X	505	VAL	C-N-CA	5.50	127.65	120.28
1	Y	497	ASN	CA-C-O	5.50	126.76	120.54
1	Z	383	GLN	CB-CA-C	-5.50	101.50	110.85
1	0	564	ALA	CB-CA-C	-5.50	102.21	110.90
1	2	148	GLY	CA-C-N	5.50	127.87	120.50
1	2	148	GLY	C-N-CA	5.50	127.87	120.50
1	3	419	MET	CA-CB-CG	5.50	125.10	114.10
1	4	310	VAL	N-CA-C	5.50	115.70	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	695	ARG	NE-CZ-NH2	5.50	124.15	119.20
1	7	98	ARG	NE-CZ-NH1	5.50	127.00	121.50
1	9	709	PHE	N-CA-C	5.50	118.04	111.71
1	d	406	ARG	N-CA-C	5.50	120.10	112.45
1	d	629	HIS	CA-CB-CG	5.50	119.30	113.80
1	g	593	ARG	O-C-N	-5.50	116.40	122.07
1	w	462	VAL	N-CA-CB	5.50	116.99	110.55
1	B	460	ASN	OD1-CG-ND2	-5.50	117.10	122.60
1	D	385	SER	N-CA-C	-5.50	106.24	113.17
1	G	448	THR	CA-CB-CG2	5.50	119.85	110.50
1	H	405	ARG	NE-CZ-NH2	5.50	124.15	119.20
1	I	710	SER	CA-C-N	5.50	131.60	121.70
1	I	710	SER	C-N-CA	5.50	131.60	121.70
1	M	164	CYS	O-C-N	-5.50	117.48	123.26
1	e	685	THR	CA-CB-CG2	-5.50	101.15	110.50
1	h	540	GLY	O-C-N	-5.50	116.53	122.19
1	o	275	ALA	CA-C-N	-5.50	112.40	121.92
1	o	275	ALA	C-N-CA	-5.50	112.40	121.92
1	w	411	ILE	CA-CB-CG1	5.50	119.75	110.40
1	D	435	LYS	N-CA-C	5.50	117.28	111.28
1	F	279	ALA	CA-C-N	5.50	127.65	120.28
1	F	279	ALA	C-N-CA	5.50	127.65	120.28
1	7	474	ASN	CA-C-N	5.50	127.69	120.60
1	7	474	ASN	C-N-CA	5.50	127.69	120.60
1	e	290	ILE	CA-C-O	5.50	126.16	120.39
1	i	532	ILE	CA-CB-CG1	-5.50	101.05	110.40
1	j	97	VAL	CA-C-O	-5.50	114.83	120.71
1	l	506	HIS	CB-CG-CD2	-5.50	124.05	131.20
1	l	649	ILE	N-CA-C	5.50	115.70	110.42
1	u	399	LYS	CA-C-O	5.50	126.36	120.70
1	F	660	SER	CB-CA-C	5.50	119.92	110.79
1	H	104	ILE	CA-C-O	5.50	126.41	120.47
1	H	223	ILE	O-C-N	-5.50	118.19	122.97
1	K	241	ILE	CA-C-N	5.50	126.05	120.00
1	K	241	ILE	C-N-CA	5.50	126.05	120.00
1	K	588	VAL	CA-C-N	5.50	127.59	120.44
1	K	588	VAL	C-N-CA	5.50	127.59	120.44
1	O	435	LYS	N-CA-C	5.50	117.35	111.36
1	R	411	ILE	CA-C-N	5.50	126.71	119.84
1	R	411	ILE	C-N-CA	5.50	126.71	119.84
1	W	290	ILE	O-C-N	-5.50	117.53	123.14
1	Z	275	ALA	CA-C-O	5.50	126.38	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	560	HIS	CB-CG-CD2	-5.50	124.05	131.20
1	6	227	PRO	N-CA-C	5.50	123.79	112.47
1	7	213	ILE	N-CA-CB	5.50	118.39	111.46
1	9	448	THR	CA-CB-OG1	5.50	117.84	109.60
1	9	518	SER	CA-C-N	5.50	127.58	120.44
1	9	518	SER	C-N-CA	5.50	127.58	120.44
1	d	490	LYS	N-CA-CB	5.50	117.98	110.01
1	d	634	PHE	CA-C-N	5.50	127.91	120.65
1	d	634	PHE	C-N-CA	5.50	127.91	120.65
1	e	150	VAL	CA-C-N	5.50	130.13	121.56
1	e	150	VAL	C-N-CA	5.50	130.13	121.56
1	g	687	THR	N-CA-CB	5.50	118.20	110.12
1	h	479	GLU	CA-C-N	5.50	128.28	120.53
1	h	479	GLU	C-N-CA	5.50	128.28	120.53
1	k	182	ASP	CB-CA-C	5.50	117.47	110.76
1	l	397	HIS	CG-CD2-NE2	5.50	112.70	107.20
1	n	138	LEU	CA-C-N	5.50	127.64	120.28
1	n	138	LEU	C-N-CA	5.50	127.64	120.28
1	x	353	HIS	CA-CB-CG	-5.50	108.30	113.80
1	C	183	PRO	CA-C-N	5.50	127.05	120.13
1	C	183	PRO	C-N-CA	5.50	127.05	120.13
1	G	108	ARG	N-CA-C	5.50	117.27	111.28
1	G	581	GLN	CB-CG-CD	5.50	121.94	112.60
1	I	350	PHE	CA-C-O	-5.50	115.05	120.82
1	K	458	PHE	CA-C-O	5.50	126.38	120.55
1	M	172	SER	O-C-N	-5.50	116.01	123.10
1	M	440	GLU	CB-CG-CD	5.50	121.94	112.60
1	N	301	ARG	CA-C-O	-5.50	114.95	121.66
1	N	440	GLU	CA-C-O	5.50	125.78	119.35
1	O	516	ALA	CA-C-N	5.50	127.59	120.44
1	O	516	ALA	C-N-CA	5.50	127.59	120.44
1	X	374	LEU	O-C-N	-5.50	116.29	122.12
1	X	409	ALA	CA-C-N	5.50	131.59	121.70
1	X	409	ALA	C-N-CA	5.50	131.59	121.70
1	Y	214	THR	N-CA-C	5.50	118.36	109.40
1	Y	704	HIS	CB-CG-CD2	-5.50	124.05	131.20
1	v	344	LYS	CA-C-N	5.50	129.93	121.19
1	v	344	LYS	C-N-CA	5.50	129.93	121.19
1	w	365	ALA	O-C-N	-5.50	116.56	122.88
1	x	343	THR	N-CA-C	5.50	117.27	111.28
1	y	185	GLN	CA-C-N	5.50	127.69	120.60
1	y	185	GLN	C-N-CA	5.50	127.69	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	411	ILE	CA-CB-CG2	-5.50	101.16	110.50
1	D	527	ILE	CA-C-O	5.50	126.99	121.17
1	E	697	TYR	O-C-N	-5.50	116.38	122.09
1	F	102	ASP	N-CA-CB	5.50	118.80	110.28
1	H	139	SER	CA-C-O	5.50	126.34	120.24
1	H	708	GLN	N-CA-C	5.50	116.95	111.07
1	1	270	ILE	CA-CB-CG2	-5.49	101.16	110.50
1	2	549	VAL	CA-CB-CG2	-5.49	101.06	110.40
1	8	585	TYR	CA-C-N	5.49	127.64	120.28
1	8	585	TYR	C-N-CA	5.49	127.64	120.28
1	8	695	ARG	CA-CB-CG	5.49	125.09	114.10
1	d	640	ARG	CA-C-O	5.49	126.24	120.42
1	g	374	LEU	O-C-N	5.49	127.73	122.07
1	k	251	LYS	CA-C-O	-5.49	115.05	120.82
1	k	483	TYR	O-C-N	-5.49	116.38	122.09
1	m	672	LYS	N-CA-CB	-5.49	102.05	110.12
1	o	310	VAL	CA-CB-CG1	5.49	119.74	110.40
1	o	325	VAL	CB-CA-C	-5.49	103.00	110.42
1	y	548	THR	O-C-N	-5.49	116.30	122.12
1	z	123	VAL	CA-C-O	5.49	126.58	120.59
1	A	670	GLN	CA-C-O	5.49	125.70	119.27
1	E	557	LYS	N-CA-C	5.49	117.27	111.28
1	I	524	MET	CA-C-N	5.49	127.58	120.44
1	I	524	MET	C-N-CA	5.49	127.58	120.44
1	L	655	ARG	NE-CZ-NH2	-5.49	114.26	119.20
1	M	478	GLU	N-CA-C	5.49	117.35	111.36
1	T	496	VAL	N-CA-CB	5.49	117.30	110.05
1	Z	692	LEU	CA-C-N	5.49	127.64	120.28
1	Z	692	LEU	C-N-CA	5.49	127.64	120.28
1	2	560	HIS	ND1-CE1-NE2	5.49	113.89	108.40
1	4	513	VAL	CA-C-N	5.49	127.62	120.26
1	4	513	VAL	C-N-CA	5.49	127.62	120.26
1	d	295	LYS	CG-CD-CE	5.49	123.93	111.30
1	f	178	LEU	CA-C-O	5.49	127.43	121.06
1	j	393	ILE	CA-C-O	-5.49	115.70	121.41
1	k	353	HIS	CA-CB-CG	-5.49	108.31	113.80
1	u	301	ARG	CD-NE-CZ	5.49	132.09	124.40
1	u	480	VAL	CA-C-N	5.49	127.64	120.28
1	u	480	VAL	C-N-CA	5.49	127.64	120.28
1	x	95	GLN	N-CA-CB	5.49	118.19	110.12
1	z	437	VAL	CA-C-N	5.49	128.19	120.28
1	z	437	VAL	C-N-CA	5.49	128.19	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	523	ALA	N-CA-CB	-5.49	102.05	110.12
1	4	342	ALA	CA-C-N	5.49	127.95	120.54
1	4	342	ALA	C-N-CA	5.49	127.95	120.54
1	4	691	ILE	N-CA-C	5.49	115.69	110.42
1	a	481	GLU	N-CA-C	5.49	116.94	111.07
1	l	531	PHE	CA-CB-CG	5.49	119.29	113.80
1	o	192	LYS	CA-C-N	5.49	128.09	120.29
1	o	192	LYS	C-N-CA	5.49	128.09	120.29
1	q	423	ILE	N-CA-C	5.49	116.12	110.36
1	q	560	HIS	CE1-NE2-CD2	-5.49	103.51	109.00
1	q	622	SER	CA-C-N	5.49	127.90	120.38
1	q	622	SER	C-N-CA	5.49	127.90	120.38
1	r	665	MET	O-C-N	-5.49	116.30	122.12
1	t	494	GLY	CA-C-N	5.49	131.59	121.70
1	t	494	GLY	C-N-CA	5.49	131.59	121.70
1	u	455	ARG	CA-C-O	-5.49	114.73	120.55
1	u	523	ALA	CA-C-N	5.49	127.58	120.44
1	u	523	ALA	C-N-CA	5.49	127.58	120.44
1	v	393	ILE	O-C-N	5.49	127.29	121.91
1	B	237	GLN	OE1-CD-NE2	-5.49	117.11	122.60
1	F	165	GLU	CA-C-O	-5.49	114.97	120.96
1	I	236	ASN	CA-C-O	5.49	126.43	119.95
1	K	314	LEU	CA-C-O	5.49	128.36	120.51
1	O	534	VAL	CA-C-N	5.49	127.58	120.44
1	O	534	VAL	C-N-CA	5.49	127.58	120.44
1	P	344	LYS	O-C-N	-5.49	116.30	122.12
1	Z	404	LEU	CA-C-N	5.49	127.64	120.28
1	Z	404	LEU	C-N-CA	5.49	127.64	120.28
1	1	663	LYS	CA-C-N	5.49	127.63	120.28
1	1	663	LYS	C-N-CA	5.49	127.63	120.28
1	4	463	GLY	O-C-N	5.49	127.49	122.17
1	6	662	GLN	CG-CD-NE2	-5.49	108.17	116.40
1	7	427	LYS	CB-CG-CD	5.49	123.92	111.30
1	8	584	ILE	CA-C-N	5.49	127.64	120.28
1	8	584	ILE	C-N-CA	5.49	127.64	120.28
1	a	329	GLY	N-CA-C	5.49	118.24	111.93
1	a	416	ALA	CA-C-N	5.49	127.91	120.44
1	a	416	ALA	C-N-CA	5.49	127.91	120.44
1	e	561	THR	O-C-N	-5.49	116.30	122.12
1	f	501	PHE	CA-C-N	5.49	127.63	120.28
1	f	501	PHE	C-N-CA	5.49	127.63	120.28
1	k	152	ARG	CA-C-O	5.49	125.69	119.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	n	453	LYS	O-C-N	5.49	128.64	122.22
1	q	325	VAL	O-C-N	-5.49	117.25	123.18
1	u	560	HIS	N-CA-C	5.49	116.94	111.07
1	u	703	ARG	CA-C-N	5.49	127.64	120.28
1	u	703	ARG	C-N-CA	5.49	127.64	120.28
1	w	682	GLN	N-CA-C	5.49	118.19	110.23
1	z	659	ASP	CA-C-N	5.49	127.90	120.38
1	z	659	ASP	C-N-CA	5.49	127.90	120.38
1	A	573	ARG	NE-CZ-NH2	-5.49	114.26	119.20
1	B	197	MET	CG-SD-CE	-5.49	88.83	100.90
1	C	322	TYR	CA-C-N	5.49	131.25	121.75
1	C	322	TYR	C-N-CA	5.49	131.25	121.75
1	E	239	ARG	O-C-N	-5.49	116.53	122.79
1	H	543	PHE	N-CA-C	5.49	116.94	111.07
1	J	405	ARG	CA-C-O	5.49	126.28	119.97
1	K	470	GLN	CA-C-O	5.49	125.71	119.18
1	M	506	HIS	N-CA-C	5.49	117.26	111.28
1	Q	431	GLN	CG-CD-NE2	5.49	124.63	116.40
1	S	535	ALA	CA-C-N	5.49	128.08	120.29
1	S	535	ALA	C-N-CA	5.49	128.08	120.29
1	S	695	ARG	NE-CZ-NH2	-5.49	114.26	119.20
1	W	310	VAL	CA-CB-CG1	5.49	119.73	110.40
1	X	443	VAL	O-C-N	-5.49	117.47	122.79
1	2	369	ARG	O-C-N	-5.49	115.51	122.26
1	a	181	GLN	OE1-CD-NE2	5.49	128.09	122.60
1	d	550	GLN	CA-C-O	5.49	126.56	120.63
1	r	290	ILE	CA-C-O	5.49	126.40	120.53
1	s	182	ASP	N-CA-C	5.49	116.61	109.64
1	s	408	GLY	O-C-N	-5.49	115.57	122.70
1	E	531	PHE	CA-C-O	5.49	126.58	120.82
1	G	403	GLU	CA-C-N	5.49	127.95	120.54
1	G	403	GLU	C-N-CA	5.49	127.95	120.54
1	1	446	ASN	N-CA-C	5.49	119.20	111.52
1	3	474	ASN	CA-C-O	5.49	126.37	120.55
1	5	687	THR	N-CA-CB	5.49	118.37	110.20
1	7	524	MET	CB-CA-C	5.49	119.58	110.81
1	8	455	ARG	O-C-N	-5.49	115.90	122.15
1	a	591	LYS	CA-C-O	5.49	126.23	120.42
1	c	191	HIS	CG-CD2-NE2	5.49	112.69	107.20
1	j	195	ASN	CB-CG-ND2	5.49	124.63	116.40
1	t	394	ARG	NE-CZ-NH2	-5.49	114.26	119.20
1	u	662	GLN	CA-CB-CG	-5.49	103.13	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	419	MET	O-C-N	-5.49	115.90	122.15
1	x	145	ARG	NE-CZ-NH1	5.49	126.98	121.50
1	x	371	ALA	N-CA-C	5.49	117.69	111.11
1	y	349	PHE	CB-CA-C	5.49	119.49	110.88
1	I	534	VAL	N-CA-C	-5.49	104.23	111.09
1	L	468	ASN	O-C-N	5.49	127.94	122.12
1	M	669	LEU	O-C-N	-5.49	114.42	122.43
1	N	377	GLU	CA-C-N	5.49	127.57	120.44
1	N	377	GLU	C-N-CA	5.49	127.57	120.44
1	R	465	LEU	CA-C-N	5.49	127.89	120.65
1	R	465	LEU	C-N-CA	5.49	127.89	120.65
1	R	573	ARG	CD-NE-CZ	5.49	132.08	124.40
1	U	626	ILE	CA-C-N	5.49	126.03	119.94
1	U	626	ILE	C-N-CA	5.49	126.03	119.94
1	U	640	ARG	NH1-CZ-NH2	-5.49	112.17	119.30
1	4	635	LEU	N-CA-C	5.48	118.18	111.82
1	8	123	VAL	CB-CA-C	5.48	118.81	111.19
1	9	215	SER	CA-C-O	-5.48	112.65	120.16
1	9	413	SER	N-CA-CB	5.48	118.13	110.56
1	k	240	ASP	CA-C-N	5.48	129.29	120.30
1	k	240	ASP	C-N-CA	5.48	129.29	120.30
1	v	274	GLU	N-CA-C	5.48	118.18	111.82
1	v	404	LEU	CA-C-O	5.48	126.11	119.31
1	x	420	PHE	CA-CB-CG	-5.48	108.32	113.80
1	y	700	THR	CA-C-N	5.48	127.63	120.28
1	y	700	THR	C-N-CA	5.48	127.63	120.28
1	B	139	SER	CA-C-O	5.48	128.35	120.51
1	C	276	LEU	N-CA-C	-5.48	105.38	111.36
1	N	319	LYS	N-CA-C	5.48	118.18	111.82
1	V	354	PRO	N-CD-CG	5.48	111.43	103.20
1	V	482	LYS	CA-C-O	5.48	124.84	118.97
1	Z	377	GLU	CA-C-O	-5.48	115.06	120.82
1	3	370	LEU	O-C-N	-5.48	115.30	122.59
1	4	374	LEU	CA-C-N	5.48	127.94	120.54
1	4	374	LEU	C-N-CA	5.48	127.94	120.54
1	5	343	THR	O-C-N	5.48	127.72	122.07
1	8	579	PHE	CA-CB-CG	5.48	119.28	113.80
1	a	696	ILE	CA-C-N	5.48	127.63	120.28
1	a	696	ILE	C-N-CA	5.48	127.63	120.28
1	i	178	LEU	N-CA-CB	5.48	119.52	110.69
1	m	181	GLN	N-CA-C	5.48	122.48	110.80
1	y	206	HIS	O-C-N	-5.48	115.76	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	244	GLN	N-CA-C	5.48	117.69	111.11
1	D	386	LEU	N-CA-C	5.48	120.94	113.16
1	E	158	LYS	CB-CA-C	5.48	118.79	109.80
1	E	224	ILE	N-CA-CB	5.48	117.82	111.90
1	I	489	GLY	CA-C-N	5.48	128.41	120.79
1	I	489	GLY	C-N-CA	5.48	128.41	120.79
1	J	654	LEU	CA-C-O	-5.48	112.67	120.51
1	K	514	GLU	CA-C-N	5.48	124.83	118.85
1	K	514	GLU	C-N-CA	5.48	124.83	118.85
1	L	240	ASP	CA-CB-CG	-5.48	107.12	112.60
1	M	275	ALA	N-CA-C	5.48	116.94	111.07
1	S	521	GLN	N-CA-C	5.48	117.33	111.36
1	T	518	SER	CA-C-N	5.48	127.63	120.28
1	T	518	SER	C-N-CA	5.48	127.63	120.28
1	T	559	LYS	O-C-N	-5.48	115.90	122.15
1	V	318	LEU	CA-C-O	5.48	127.22	121.19
1	V	572	PHE	CA-C-N	5.48	127.63	120.28
1	V	572	PHE	C-N-CA	5.48	127.63	120.28
1	V	680	GLN	CB-CA-C	5.48	117.33	109.71
1	Y	245	ILE	N-CA-C	5.48	116.21	110.62
1	3	422	LEU	N-CA-C	5.48	117.25	111.28
1	3	459	LYS	O-C-N	-5.48	115.90	122.15
1	8	290	ILE	N-CA-C	5.48	116.00	107.28
1	8	624	THR	O-C-N	-5.48	116.31	122.12
1	b	232	VAL	O-C-N	-5.48	116.71	122.57
1	g	675	TYR	CA-C-N	5.48	127.89	120.38
1	g	675	TYR	C-N-CA	5.48	127.89	120.38
1	l	701	GLN	N-CA-C	5.48	117.33	111.36
1	n	312	ARG	CA-CB-CG	5.48	125.06	114.10
1	o	221	LEU	N-CA-CB	5.48	119.95	111.24
1	o	467	THR	N-CA-CB	5.48	117.96	110.01
1	s	538	HIS	CG-CD2-NE2	5.48	112.68	107.20
1	v	673	ASN	OD1-CG-ND2	-5.48	117.12	122.60
1	x	421	PHE	CA-C-O	5.48	126.76	120.90
1	L	334	THR	CA-C-N	5.48	129.97	121.26
1	L	334	THR	C-N-CA	5.48	129.97	121.26
1	M	246	LYS	N-CA-C	5.48	117.25	111.28
1	M	507	GLN	CB-CA-C	-5.48	102.28	110.88
1	O	449	ARG	NE-CZ-NH2	5.48	124.13	119.20
1	Q	671	GLU	N-CA-C	5.48	118.13	109.96
1	V	417	ASP	CA-C-N	5.48	127.62	120.28
1	V	417	ASP	C-N-CA	5.48	127.62	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	248	LEU	CA-C-N	5.48	127.47	120.56
1	W	248	LEU	C-N-CA	5.48	127.47	120.56
1	Z	253	ILE	N-CA-CB	5.48	118.80	110.58
1	8	700	THR	O-C-N	-5.48	115.90	122.15
1	h	492	LEU	N-CA-CB	5.48	119.75	110.49
1	n	98	ARG	CG-CD-NE	-5.48	99.95	112.00
1	J	529	GLN	CG-CD-NE2	5.48	124.62	116.40
1	0	420	PHE	CB-CG-CD2	-5.48	111.39	120.70
1	1	101	ILE	CA-C-N	5.48	128.64	120.31
1	1	101	ILE	C-N-CA	5.48	128.64	120.31
1	1	310	VAL	N-CA-C	5.48	120.52	113.07
1	c	367	VAL	N-CA-C	-5.48	101.59	108.05
1	d	634	PHE	N-CA-C	5.48	118.01	111.71
1	d	652	PHE	CA-CB-CG	-5.48	108.32	113.80
1	i	160	LYS	CA-C-O	-5.48	114.86	120.99
1	o	692	LEU	CA-C-N	5.48	127.56	120.44
1	o	692	LEU	C-N-CA	5.48	127.56	120.44
1	p	424	GLU	N-CA-C	5.48	118.43	111.69
1	q	346	GLU	N-CA-C	5.48	117.68	111.11
1	t	432	ASP	CA-C-O	5.48	126.23	120.42
1	x	645	ILE	N-CA-CB	5.48	114.72	110.45
1	x	686	ALA	CB-CA-C	-5.48	101.54	110.85
1	A	708	GLN	N-CA-C	5.48	117.06	111.14
1	C	222	THR	N-CA-CB	5.48	119.37	110.17
1	C	254	GLN	OE1-CD-NE2	5.48	128.08	122.60
1	J	698	ARG	CD-NE-CZ	5.48	132.07	124.40
1	L	523	ALA	O-C-N	-5.48	116.33	122.03
1	T	397	HIS	CG-CD2-NE2	5.48	112.68	107.20
1	T	560	HIS	CA-CB-CG	-5.48	108.32	113.80
1	T	652	PHE	N-CA-C	5.48	117.06	111.14
1	V	283	ASP	CA-CB-CG	5.48	118.08	112.60
1	W	526	ILE	N-CA-C	5.48	116.25	110.72
1	X	111	GLY	CA-C-N	5.48	131.56	121.70
1	X	111	GLY	C-N-CA	5.48	131.56	121.70
1	X	680	GLN	N-CA-C	5.48	118.26	110.10
1	5	561	THR	CA-C-N	5.48	127.56	120.44
1	5	561	THR	C-N-CA	5.48	127.56	120.44
1	6	706	LEU	O-C-N	-5.48	115.81	122.22
1	a	231	ARG	NE-CZ-NH1	5.48	126.98	121.50
1	c	655	ARG	NH1-CZ-NH2	-5.48	112.18	119.30
1	h	489	GLY	O-C-N	5.48	129.82	122.70
1	m	661	LEU	N-CA-C	5.48	116.93	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	578	VAL	O-C-N	-5.48	116.36	122.66
1	x	514	GLU	CA-C-O	5.48	123.65	118.34
1	y	686	ALA	O-C-N	-5.48	114.99	122.33
1	D	447	GLU	O-C-N	-5.48	116.08	122.81
1	J	560	HIS	CA-C-O	5.48	126.27	119.97
1	J	567	MET	CA-C-O	5.48	126.22	120.42
1	W	263	VAL	N-CA-C	5.48	115.47	107.37
1	1	477	HIS	N-CA-CB	5.47	118.10	109.94
1	b	423	ILE	N-CA-C	5.47	116.20	110.62
1	d	585	TYR	O-C-N	5.47	127.71	122.07
1	f	297	ASP	CA-C-N	5.47	129.99	120.68
1	f	297	ASP	C-N-CA	5.47	129.99	120.68
1	g	145	ARG	NE-CZ-NH1	5.47	126.97	121.50
1	g	405	ARG	NE-CZ-NH2	-5.47	114.27	119.20
1	h	443	VAL	N-CA-C	5.47	116.07	108.84
1	m	561	THR	N-CA-C	5.47	117.68	111.11
1	n	672	LYS	O-C-N	5.47	129.00	122.27
1	o	217	GLU	N-CA-C	5.47	117.33	111.36
1	s	517	LEU	N-CA-C	5.47	116.93	111.07
1	s	538	HIS	ND1-CE1-NE2	5.47	113.87	108.40
1	y	493	LEU	N-CA-C	5.47	122.46	110.80
1	C	665	MET	N-CA-CB	5.47	118.65	110.22
1	G	663	LYS	N-CA-C	5.47	117.25	111.28
1	J	179	GLU	CA-C-O	5.47	126.44	120.58
1	P	679	LEU	N-CA-C	5.47	119.67	113.15
1	S	401	THR	N-CA-CB	5.47	118.17	110.12
1	S	659	ASP	CA-C-O	5.47	126.35	120.55
1	W	575	GLU	N-CA-C	5.47	118.01	111.71
1	Y	131	LYS	N-CA-C	5.47	117.95	111.33
1	1	369	ARG	CA-C-N	5.47	127.55	120.44
1	1	369	ARG	C-N-CA	5.47	127.55	120.44
1	2	502	GLU	CA-C-N	5.47	128.19	120.42
1	2	502	GLU	C-N-CA	5.47	128.19	120.42
1	5	193	ALA	N-CA-C	5.47	116.93	111.07
1	7	145	ARG	CA-C-N	5.47	127.17	120.22
1	7	145	ARG	C-N-CA	5.47	127.17	120.22
1	b	704	HIS	CG-CD2-NE2	5.47	112.67	107.20
1	g	704	HIS	CE1-NE2-CD2	-5.47	103.53	109.00
1	k	276	LEU	N-CA-CB	5.47	118.73	110.30
1	m	670	GLN	N-CA-CB	-5.47	102.34	110.61
1	u	433	ILE	CA-CB-CG1	5.47	119.70	110.40
1	w	240	ASP	CB-CA-C	5.47	120.50	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	524	MET	N-CA-C	5.47	117.24	111.28
1	w	623	PHE	CA-CB-CG	5.47	119.27	113.80
1	x	670	GLN	CA-C-O	-5.47	112.87	119.27
1	y	270	ILE	CB-CA-C	-5.47	104.75	112.14
1	B	193	ALA	O-C-N	-5.47	115.82	122.22
1	N	478	GLU	N-CA-CB	5.47	117.95	110.01
1	Q	431	GLN	CA-C-O	5.47	126.26	119.97
1	U	338	SER	N-CA-CB	5.47	118.67	109.92
1	V	373	ARG	NH1-CZ-NH2	-5.47	112.19	119.30
1	W	177	GLU	CA-C-O	5.47	126.23	120.54
1	X	533	ASN	N-CA-C	5.47	117.24	111.28
1	X	670	GLN	CA-C-O	5.47	125.67	119.27
1	Y	706	LEU	CA-C-N	5.47	127.88	120.44
1	Y	706	LEU	C-N-CA	5.47	127.88	120.44
1	8	242	GLY	CA-C-O	5.47	126.69	121.05
1	e	275	ALA	N-CA-C	5.47	117.95	111.33
1	h	343	THR	N-CA-CB	5.47	118.09	109.94
1	m	628	ILE	N-CA-C	5.47	117.93	111.09
1	t	231	ARG	NE-CZ-NH2	-5.47	114.28	119.20
1	u	526	ILE	O-C-N	-5.47	116.47	121.94
1	w	450	LEU	CA-C-N	5.47	127.61	120.28
1	w	450	LEU	C-N-CA	5.47	127.61	120.28
1	G	245	ILE	N-CA-CB	5.47	116.95	110.55
1	N	700	THR	CA-C-O	5.47	126.74	121.00
1	2	357	ARG	N-CA-C	5.47	117.67	111.11
1	6	189	GLU	N-CA-C	5.47	119.12	112.23
1	7	230	THR	CA-CB-CG2	-5.47	101.20	110.50
1	9	182	ASP	O-C-N	-5.47	116.52	121.66
1	9	514	GLU	CA-C-N	5.47	125.12	119.05
1	9	514	GLU	C-N-CA	5.47	125.12	119.05
1	g	170	ARG	N-CA-CB	5.47	119.50	110.69
1	h	651	TYR	N-CA-C	5.47	116.93	110.97
1	i	256	GLN	OE1-CD-NE2	-5.47	117.13	122.60
1	j	105	ASP	CA-C-N	5.47	127.61	120.28
1	j	105	ASP	C-N-CA	5.47	127.61	120.28
1	j	441	GLU	CA-C-N	5.47	128.76	120.77
1	j	441	GLU	C-N-CA	5.47	128.76	120.77
1	u	293	LEU	CA-C-N	5.47	132.69	122.74
1	u	293	LEU	C-N-CA	5.47	132.69	122.74
1	F	114	GLN	N-CA-C	5.47	117.79	110.35
1	N	186	VAL	CA-C-N	5.47	127.61	120.28
1	N	186	VAL	C-N-CA	5.47	127.61	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	490	LYS	CA-C-O	5.47	126.75	120.90
1	1	707	CYS	CA-C-N	5.47	127.61	120.28
1	1	707	CYS	C-N-CA	5.47	127.61	120.28
1	2	242	GLY	O-C-N	-5.47	116.87	122.17
1	6	171	ILE	CA-CB-CG2	-5.47	101.20	110.50
1	6	515	PRO	N-CA-C	5.47	120.95	113.84
1	6	593	ARG	CA-C-N	5.47	128.62	120.31
1	6	593	ARG	C-N-CA	5.47	128.62	120.31
1	7	389	LEU	N-CA-C	5.47	117.24	111.28
1	8	236	ASN	CA-CB-CG	5.47	118.07	112.60
1	e	685	THR	N-CA-CB	5.47	118.53	110.33
1	k	474	ASN	OD1-CG-ND2	5.47	128.07	122.60
1	t	352	THR	CA-CB-CG2	5.47	119.80	110.50
1	E	243	LEU	CA-C-N	5.47	127.55	120.44
1	E	243	LEU	C-N-CA	5.47	127.55	120.44
1	L	280	HIS	CE1-NE2-CD2	-5.47	103.53	109.00
1	P	301	ARG	NE-CZ-NH1	5.47	126.97	121.50
1	1	316	TYR	CA-C-N	5.47	125.73	119.83
1	1	316	TYR	C-N-CA	5.47	125.73	119.83
1	4	629	HIS	CA-C-O	5.47	126.24	119.79
1	6	555	ASP	CA-C-O	5.47	126.34	120.55
1	8	259	ILE	N-CA-C	5.47	116.13	109.30
1	c	151	THR	CA-C-O	5.47	127.15	120.92
1	d	385	SER	CB-CA-C	-5.47	100.93	110.17
1	e	702	ALA	CA-C-O	-5.47	114.75	120.55
1	f	477	HIS	CB-CG-ND1	5.47	130.90	122.70
1	j	507	GLN	N-CA-C	5.47	117.67	111.11
1	l	226	LEU	N-CA-C	5.47	116.96	110.07
1	n	122	ALA	N-CA-CB	5.47	119.29	110.65
1	n	473	LYS	CA-C-N	5.47	127.55	120.44
1	n	473	LYS	C-N-CA	5.47	127.55	120.44
1	o	673	ASN	N-CA-C	5.47	118.16	111.82
1	p	127	GLN	CA-C-N	5.47	131.13	122.60
1	p	127	GLN	C-N-CA	5.47	131.13	122.60
1	u	332	GLU	N-CA-C	5.47	117.24	111.28
1	w	583	GLN	CA-C-N	5.47	127.95	120.46
1	w	583	GLN	C-N-CA	5.47	127.95	120.46
1	y	94	GLU	N-CA-C	5.47	117.94	111.33
1	z	676	SER	N-CA-C	5.47	117.32	111.36
1	P	549	VAL	N-CA-C	5.47	115.67	110.53
1	P	698	ARG	CB-CA-C	-5.47	101.72	110.79
1	Q	531	PHE	CA-C-N	5.47	127.45	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	531	PHE	C-N-CA	5.47	127.45	120.56
1	R	288	ARG	CA-C-O	5.47	127.37	120.65
1	R	399	LYS	O-C-N	5.47	128.99	122.27
1	U	383	GLN	OE1-CD-NE2	-5.47	117.13	122.60
1	3	549	VAL	N-CA-CB	5.46	116.94	110.55
1	8	510	GLN	N-CA-C	5.46	122.44	110.80
1	c	628	ILE	N-CA-CB	5.46	117.56	110.57
1	e	572	PHE	CA-CB-CG	-5.46	108.33	113.80
1	g	531	PHE	N-CA-CB	5.46	118.15	110.12
1	k	396	SER	CA-C-N	5.46	127.54	120.44
1	k	396	SER	C-N-CA	5.46	127.54	120.44
1	o	702	ALA	CA-C-N	5.46	127.60	120.28
1	o	702	ALA	C-N-CA	5.46	127.60	120.28
1	p	513	VAL	CA-C-O	5.46	127.09	121.41
1	p	623	PHE	CA-C-O	5.46	126.25	119.97
1	u	360	LEU	N-CA-C	5.46	118.41	111.69
1	v	108	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	w	220	ASP	N-CA-CB	-5.46	101.37	110.39
1	F	141	VAL	CB-CA-C	5.46	120.32	110.48
1	F	511	GLN	CA-C-O	5.46	126.34	120.55
1	K	304	GLU	CA-C-N	5.46	128.05	120.29
1	K	304	GLU	C-N-CA	5.46	128.05	120.29
1	K	433	ILE	O-C-N	5.46	129.31	121.82
1	N	668	ILE	CA-C-N	5.46	129.84	120.72
1	N	668	ILE	C-N-CA	5.46	129.84	120.72
1	P	364	SER	N-CA-C	5.46	119.94	113.16
1	T	659	ASP	CA-CB-CG	5.46	118.06	112.60
1	W	330	GLN	OE1-CD-NE2	5.46	128.06	122.60
1	W	456	GLU	CA-C-N	5.46	128.15	120.28
1	W	456	GLU	C-N-CA	5.46	128.15	120.28
1	Y	196	VAL	N-CA-CB	5.46	116.36	110.62
1	Z	206	HIS	N-CA-C	5.46	119.79	113.18
1	Z	491	GLU	CA-C-N	5.46	130.58	122.82
1	Z	491	GLU	C-N-CA	5.46	130.58	122.82
1	4	309	ASN	CA-C-N	5.46	127.44	120.56
1	4	309	ASN	C-N-CA	5.46	127.44	120.56
1	9	148	GLY	O-C-N	-5.46	114.98	122.68
1	f	558	VAL	N-CA-CB	5.46	117.97	110.54
1	h	456	GLU	N-CA-C	5.46	117.94	111.33
1	k	519	MET	N-CA-C	5.46	117.23	111.28
1	p	477	HIS	N-CA-C	5.46	120.82	113.72
1	w	398	GLN	N-CA-C	5.46	116.92	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	352	THR	CA-C-N	5.46	128.25	120.49
1	F	352	THR	C-N-CA	5.46	128.25	120.49
1	O	398	GLN	CA-CB-CG	5.46	125.03	114.10
1	S	526	ILE	O-C-N	5.46	127.26	121.91
1	U	670	GLN	N-CA-C	-5.46	106.39	113.16
1	Z	264	VAL	O-C-N	-5.46	115.59	121.11
1	0	468	ASN	CA-C-O	5.46	126.08	119.31
1	4	279	ALA	CA-C-N	5.46	128.15	120.28
1	4	279	ALA	C-N-CA	5.46	128.15	120.28
1	4	359	LEU	CA-C-N	5.46	128.04	120.29
1	4	359	LEU	C-N-CA	5.46	128.04	120.29
1	4	571	GLN	N-CA-CB	-5.46	102.09	110.01
1	7	656	GLU	CB-CA-C	5.46	121.52	110.38
1	b	526	ILE	CA-C-N	5.46	127.94	120.46
1	b	526	ILE	C-N-CA	5.46	127.94	120.46
1	d	564	ALA	CA-C-O	-5.46	115.09	120.82
1	d	625	GLU	O-C-N	-5.46	115.92	122.15
1	f	555	ASP	CA-CB-CG	5.46	118.06	112.60
1	l	392	GLN	N-CA-C	5.46	116.91	111.07
1	n	662	GLN	CA-C-N	5.46	127.60	120.28
1	n	662	GLN	C-N-CA	5.46	127.60	120.28
1	r	548	THR	N-CA-C	5.46	117.23	111.28
1	v	250	LYS	N-CA-C	5.46	117.23	111.28
1	A	310	VAL	CB-CA-C	-5.46	104.92	112.24
1	E	431	GLN	CB-CG-CD	-5.46	103.31	112.60
1	J	330	GLN	N-CA-C	5.46	117.23	111.28
1	J	674	ARG	CA-C-N	5.46	127.91	120.54
1	J	674	ARG	C-N-CA	5.46	127.91	120.54
1	K	525	GLU	N-CA-C	5.46	117.31	111.36
1	Z	167	TRP	CA-CB-CG	5.46	123.98	113.60
1	4	229	ILE	CA-CB-CG2	-5.46	101.22	110.50
1	6	263	VAL	CA-C-N	5.46	132.23	122.13
1	6	263	VAL	C-N-CA	5.46	132.23	122.13
1	g	623	PHE	CA-CB-CG	5.46	119.26	113.80
1	h	545	LEU	N-CA-C	5.46	116.91	111.07
1	o	625	GLU	N-CA-C	5.46	116.91	111.07
1	u	349	PHE	CA-CB-CG	5.46	119.26	113.80
1	J	103	LEU	N-CA-C	5.46	117.23	111.28
1	J	330	GLN	O-C-N	-5.46	116.33	122.12
1	K	657	ASN	CA-C-N	5.46	132.11	121.41
1	K	657	ASN	C-N-CA	5.46	132.11	121.41
1	O	301	ARG	NE-CZ-NH2	-5.46	114.29	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	292	ILE	O-C-N	-5.46	117.30	122.98
1	R	556	ILE	CB-CA-C	-5.46	104.87	112.02
1	V	115	ASP	CA-CB-CG	5.46	118.06	112.60
1	V	709	PHE	N-CA-C	5.46	117.23	111.28
1	9	260	ASN	CB-CG-OD1	5.46	131.72	120.80
1	f	369	ARG	CA-C-N	5.46	127.59	120.28
1	f	369	ARG	C-N-CA	5.46	127.59	120.28
1	h	634	PHE	CA-C-O	5.46	126.25	119.97
1	k	192	LYS	N-CA-CB	5.46	117.93	110.01
1	m	458	PHE	N-CA-C	5.46	119.11	112.23
1	o	589	LEU	CB-CA-C	5.46	120.13	110.85
1	p	536	LYS	N-CA-C	5.46	117.23	111.28
1	x	590	LYS	CA-C-O	-5.46	114.77	120.55
1	C	457	ASP	CA-C-O	5.46	126.34	120.55
1	K	438	GLU	CA-C-N	5.46	129.37	122.00
1	K	438	GLU	C-N-CA	5.46	129.37	122.00
1	L	97	VAL	CG1-CB-CG2	-5.46	98.79	110.80
1	Q	223	ILE	O-C-N	-5.46	117.15	122.99
1	S	336	ARG	NE-CZ-NH1	-5.46	116.04	121.50
1	U	132	SER	CB-CA-C	-5.46	101.73	110.79
1	V	257	GLN	CB-CG-CD	5.46	121.88	112.60
1	V	398	GLN	N-CA-C	5.46	117.23	111.28
1	V	507	GLN	O-C-N	-5.46	116.33	122.12
1	4	317	PRO	O-C-N	-5.46	113.63	122.47
1	9	113	GLU	N-CA-C	-5.46	106.56	113.43
1	9	627	GLY	O-C-N	-5.46	116.90	122.19
1	h	240	ASP	N-CA-CB	-5.46	101.22	110.50
1	i	344	LYS	CG-CD-CE	5.46	123.85	111.30
1	j	226	LEU	CA-C-N	5.46	125.77	119.93
1	j	226	LEU	C-N-CA	5.46	125.77	119.93
1	j	686	ALA	CA-C-N	5.46	127.85	120.65
1	j	686	ALA	C-N-CA	5.46	127.85	120.65
1	n	706	LEU	CA-C-N	5.46	127.59	120.28
1	n	706	LEU	C-N-CA	5.46	127.59	120.28
1	s	576	GLN	O-C-N	5.46	127.69	122.07
1	v	328	ARG	CA-C-O	5.46	125.05	119.05
1	w	167	TRP	CD2-CE2-CZ2	-5.46	116.94	122.40
1	w	200	ASN	N-CA-C	5.46	119.23	111.92
1	C	314	LEU	N-CA-C	5.46	122.42	110.80
1	C	373	ARG	O-C-N	-5.46	116.20	122.09
1	D	388	LEU	CA-C-N	5.46	128.04	120.29
1	D	388	LEU	C-N-CA	5.46	128.04	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	202	ARG	CB-CG-CD	5.46	123.85	111.30
1	J	247	ALA	N-CA-CB	-5.46	101.53	109.82
1	L	264	VAL	CA-C-O	5.46	122.78	119.94
1	L	361	GLU	N-CA-C	5.46	117.66	111.11
1	L	468	ASN	CA-C-O	-5.46	114.77	120.55
1	L	699	LEU	CD1-CG-CD2	-5.46	98.80	110.80
1	O	509	ILE	CA-CB-CG2	-5.46	101.22	110.50
1	Q	434	GLU	CB-CG-CD	-5.46	103.32	112.60
1	S	427	LYS	N-CA-CB	5.46	118.07	109.94
1	T	526	ILE	N-CA-C	5.46	115.66	110.53
1	X	384	LYS	N-CA-C	5.46	117.23	111.28
1	b	309	ASN	CA-C-O	5.46	126.74	120.90
1	o	311	VAL	N-CA-C	5.46	118.75	111.44
1	p	411	ILE	CA-CB-CG2	5.46	119.77	110.50
1	F	569	GLN	CA-C-O	5.46	126.33	120.55
1	K	478	GLU	O-C-N	-5.46	116.45	122.07
1	M	652	PHE	N-CA-C	5.46	117.23	111.28
1	R	435	LYS	O-C-N	-5.46	116.42	122.09
1	S	253	ILE	N-CA-CB	5.46	119.88	112.35
1	X	449	ARG	NE-CZ-NH2	-5.46	114.29	119.20
1	0	408	GLY	CA-C-N	5.45	131.39	122.07
1	0	408	GLY	C-N-CA	5.45	131.39	122.07
1	3	215	SER	CA-C-N	5.45	124.97	119.19
1	3	215	SER	C-N-CA	5.45	124.97	119.19
1	3	444	ARG	NH1-CZ-NH2	-5.45	112.21	119.30
1	b	344	LYS	O-C-N	5.45	127.69	122.07
1	d	175	ASN	OD1-CG-ND2	-5.45	117.15	122.60
1	h	103	LEU	CA-C-N	5.45	127.43	120.56
1	h	103	LEU	C-N-CA	5.45	127.43	120.56
1	h	382	ILE	N-CA-C	5.45	116.23	110.72
1	n	629	HIS	CG-CD2-NE2	5.45	112.65	107.20
1	p	195	ASN	N-CA-C	5.45	117.93	111.33
1	q	423	ILE	CA-C-N	5.45	127.90	120.54
1	q	423	ILE	C-N-CA	5.45	127.90	120.54
1	r	152	ARG	CA-C-O	5.45	125.92	119.48
1	s	629	HIS	CA-C-O	5.45	126.73	120.90
1	w	240	ASP	CA-C-N	5.45	127.93	120.46
1	w	240	ASP	C-N-CA	5.45	127.93	120.46
1	F	436	LEU	CA-C-N	5.45	127.63	120.60
1	F	436	LEU	C-N-CA	5.45	127.63	120.60
1	H	562	ALA	CA-C-N	5.45	127.53	120.44
1	H	562	ALA	C-N-CA	5.45	127.53	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	397	HIS	N-CA-C	5.45	116.91	111.07
1	J	683	SER	N-CA-CB	5.45	119.77	110.50
1	L	278	MET	CG-SD-CE	-5.45	88.90	100.90
1	M	248	LEU	N-CA-C	-5.45	105.25	111.14
1	Y	226	LEU	N-CA-C	-5.45	103.30	110.39
1	l	411	ILE	CA-C-O	-5.45	111.53	120.80
1	a	525	GLU	CA-C-N	5.45	129.08	120.47
1	a	525	GLU	C-N-CA	5.45	129.08	120.47
1	b	415	GLU	N-CA-C	5.45	118.14	111.82
1	m	346	GLU	CB-CG-CD	5.45	121.87	112.60
1	n	223	ILE	N-CA-CB	-5.45	103.56	111.52
1	v	341	GLU	N-CA-C	5.45	116.90	111.07
1	C	191	HIS	CB-CG-CD2	-5.45	124.11	131.20
1	C	571	GLN	CG-CD-OE1	5.45	131.70	120.80
1	D	172	SER	O-C-N	-5.45	116.30	122.68
1	J	247	ALA	N-CA-C	5.45	117.67	111.02
1	M	219	PRO	O-C-N	-5.45	116.56	123.10
1	0	153	CYS	CA-C-O	-5.45	114.35	119.91
1	0	336	ARG	CB-CA-C	5.45	119.16	111.86
1	0	380	MET	O-C-N	-5.45	116.46	122.07
1	0	459	LYS	CA-C-N	5.45	128.03	120.29
1	0	459	LYS	C-N-CA	5.45	128.03	120.29
1	8	273	THR	N-CA-C	5.45	118.35	110.28
1	a	123	VAL	N-CA-CB	5.45	117.21	111.00
1	d	538	HIS	ND1-CE1-NE2	5.45	113.85	108.40
1	e	394	ARG	N-CA-C	5.45	118.14	111.82
1	f	572	PHE	CA-CB-CG	-5.45	108.35	113.80
1	j	702	ALA	N-CA-CB	-5.45	102.11	110.12
1	k	156	VAL	CB-CA-C	-5.45	104.85	111.88
1	k	207	GLU	O-C-N	-5.45	115.41	122.77
1	q	323	MET	CG-SD-CE	-5.45	88.91	100.90
1	r	182	ASP	CA-CB-CG	5.45	118.05	112.60
1	v	546	ASN	CA-C-O	-5.45	115.10	120.82
1	x	356	PHE	CA-C-N	5.45	128.03	120.29
1	x	356	PHE	C-N-CA	5.45	128.03	120.29
1	y	352	THR	O-C-N	-5.45	115.94	122.15
1	z	630	LEU	CA-C-N	5.45	127.53	120.44
1	z	630	LEU	C-N-CA	5.45	127.53	120.44
1	E	328	ARG	CA-C-N	5.45	126.38	120.44
1	E	328	ARG	C-N-CA	5.45	126.38	120.44
1	I	418	LYS	CA-C-N	5.45	127.53	120.44
1	I	418	LYS	C-N-CA	5.45	127.53	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	507	GLN	N-CA-C	5.45	116.90	111.07
1	M	577	MET	CG-SD-CE	-5.45	88.91	100.90
1	N	153	CYS	N-CA-C	-5.45	102.09	110.32
1	S	267	ASN	CB-CG-OD1	5.45	131.70	120.80
1	U	685	THR	CA-C-N	5.45	128.03	120.29
1	U	685	THR	C-N-CA	5.45	128.03	120.29
1	V	710	SER	N-CA-C	-5.45	106.51	112.72
1	W	659	ASP	CA-C-O	5.45	126.54	120.82
1	Y	626	ILE	CA-C-N	5.45	125.99	119.94
1	Y	626	ILE	C-N-CA	5.45	125.99	119.94
1	0	167	TRP	CA-C-O	-5.45	113.84	120.54
1	7	228	GLY	N-CA-C	5.45	120.00	112.37
1	a	687	THR	CA-C-N	5.45	127.58	120.28
1	a	687	THR	C-N-CA	5.45	127.58	120.28
1	f	535	ALA	O-C-N	-5.45	116.34	122.12
1	f	639	LYS	O-C-N	5.45	127.90	122.12
1	g	144	PRO	N-CA-CB	-5.45	98.61	103.35
1	h	707	CYS	CA-C-O	5.45	126.24	119.97
1	i	330	GLN	N-CA-CB	5.45	119.28	110.40
1	j	299	MET	N-CA-C	5.45	117.92	110.24
1	s	274	GLU	O-C-N	-5.45	116.34	122.12
1	t	218	VAL	CA-C-N	5.45	125.37	119.76
1	t	218	VAL	C-N-CA	5.45	125.37	119.76
1	v	206	HIS	CE1-NE2-CD2	-5.45	103.55	109.00
1	w	504	ILE	CA-C-N	5.45	127.93	120.46
1	w	504	ILE	C-N-CA	5.45	127.93	120.46
1	x	519	MET	CG-SD-CE	-5.45	88.92	100.90
1	x	567	MET	N-CA-C	5.45	116.90	111.07
1	A	285	GLU	CA-C-N	5.45	132.09	121.41
1	A	285	GLU	C-N-CA	5.45	132.09	121.41
1	B	344	LYS	CA-C-N	5.45	127.58	120.28
1	B	344	LYS	C-N-CA	5.45	127.58	120.28
1	C	646	PRO	N-CD-CG	5.45	111.37	103.20
1	D	145	ARG	CB-CA-C	5.45	119.82	110.01
1	I	277	SER	N-CA-C	5.45	117.22	111.28
1	K	569	GLN	OE1-CD-NE2	-5.45	117.15	122.60
1	L	654	LEU	CA-C-O	5.45	128.30	120.51
1	M	382	ILE	O-C-N	-5.45	116.49	121.94
1	N	373	ARG	NH1-CZ-NH2	-5.45	112.22	119.30
1	N	505	VAL	CA-C-N	5.45	128.36	120.79
1	N	505	VAL	C-N-CA	5.45	128.36	120.79
1	S	395	GLU	N-CA-C	5.45	117.30	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	470	GLN	CG-CD-NE2	5.45	124.57	116.40
1	k	135	LEU	O-C-N	-5.45	116.35	122.12
1	l	583	GLN	CA-C-O	5.45	126.08	119.11
1	t	255	ARG	NE-CZ-NH1	5.45	126.95	121.50
1	v	560	HIS	ND1-CG-CD2	-5.45	100.65	106.10
1	H	459	LYS	N-CA-C	-5.45	104.21	111.24
1	H	706	LEU	CA-C-N	5.45	127.58	120.28
1	H	706	LEU	C-N-CA	5.45	127.58	120.28
1	O	137	ALA	CA-C-O	5.45	125.72	119.35
1	1	380	MET	CG-SD-CE	-5.45	88.92	100.90
1	2	675	TYR	CA-C-N	5.45	128.02	120.29
1	2	675	TYR	C-N-CA	5.45	128.02	120.29
1	3	170	ARG	O-C-N	-5.45	116.84	123.27
1	5	375	THR	O-C-N	5.45	127.89	122.12
1	9	664	ALA	CA-C-N	5.45	127.84	120.38
1	9	664	ALA	C-N-CA	5.45	127.84	120.38
1	e	351	GLN	OE1-CD-NE2	-5.45	117.15	122.60
1	n	539	PHE	CA-C-N	5.45	126.13	120.03
1	n	539	PHE	C-N-CA	5.45	126.13	120.03
1	r	270	ILE	CA-C-N	5.45	127.58	120.28
1	r	270	ILE	C-N-CA	5.45	127.58	120.28
1	s	243	LEU	CA-C-N	5.45	127.58	120.28
1	s	243	LEU	C-N-CA	5.45	127.58	120.28
1	s	359	LEU	CA-C-O	5.45	126.54	120.82
1	u	112	VAL	N-CA-C	5.45	116.15	108.36
1	w	639	LYS	O-C-N	5.45	127.89	122.12
1	z	640	ARG	CA-C-N	5.45	127.58	120.28
1	z	640	ARG	C-N-CA	5.45	127.58	120.28
1	B	513	VAL	N-CA-C	5.45	115.65	110.42
1	F	561	THR	N-CA-CB	5.45	117.91	110.01
1	M	457	ASP	CA-C-N	5.45	128.59	120.31
1	M	457	ASP	C-N-CA	5.45	128.59	120.31
1	T	455	ARG	N-CA-C	5.45	117.22	111.28
1	Y	220	ASP	CA-CB-CG	5.45	118.05	112.60
1	Z	185	GLN	CA-C-N	5.45	127.92	120.46
1	Z	185	GLN	C-N-CA	5.45	127.92	120.46
1	9	319	LYS	CA-CB-CG	5.44	124.99	114.10
1	h	596	ILE	CB-CG1-CD1	5.44	125.23	113.80
1	o	349	PHE	CA-CB-CG	-5.44	108.36	113.80
1	p	370	LEU	N-CA-C	-5.44	105.25	111.07
1	s	683	SER	O-C-N	5.44	128.97	122.27
1	x	639	LYS	CA-C-O	-5.44	115.10	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	y	524	MET	N-CA-C	5.44	117.21	111.28
1	E	282	VAL	CA-C-O	5.44	125.34	119.35
1	E	381	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	J	685	THR	N-CA-C	5.44	117.21	111.28
1	K	344	LYS	N-CA-C	5.44	116.89	111.07
1	T	571	GLN	O-C-N	-5.44	116.35	122.12
1	X	668	ILE	CA-CB-CG2	5.44	119.75	110.50
1	7	391	GLY	O-C-N	-5.44	116.91	122.19
1	d	262	VAL	CA-C-O	-5.44	114.73	120.39
1	d	410	ASP	CA-CB-CG	5.44	118.04	112.60
1	k	560	HIS	CG-CD2-NE2	5.44	112.64	107.20
1	o	164	CYS	O-C-N	-5.44	116.96	123.27
1	p	177	GLU	O-C-N	-5.44	116.96	123.27
1	t	557	LYS	N-CA-CB	-5.44	101.84	110.28
1	w	500	THR	CA-C-N	5.44	127.83	120.38
1	w	500	THR	C-N-CA	5.44	127.83	120.38
1	x	397	HIS	CB-CG-CD2	-5.44	124.12	131.20
1	C	367	VAL	CA-CB-CG2	-5.44	101.15	110.40
1	D	704	HIS	N-CA-C	5.44	117.21	111.28
1	E	460	ASN	O-C-N	5.44	128.59	122.22
1	I	484	GLU	CB-CA-C	-5.44	101.60	110.85
1	L	307	VAL	CA-C-O	5.44	126.94	121.17
1	M	451	TYR	O-C-N	-5.44	116.35	122.12
1	N	264	VAL	CA-C-N	5.44	125.75	119.93
1	N	264	VAL	C-N-CA	5.44	125.75	119.93
1	N	504	ILE	N-CA-CB	5.44	117.54	110.57
1	Q	102	ASP	CA-C-O	-5.44	114.65	120.42
1	U	653	MET	N-CA-C	5.44	117.21	111.28
1	V	636	GLU	CA-C-N	5.44	127.52	120.44
1	V	636	GLU	C-N-CA	5.44	127.52	120.44
1	Y	474	ASN	OD1-CG-ND2	-5.44	117.16	122.60
1	3	264	VAL	CB-CA-C	5.44	116.19	110.37
1	5	514	GLU	N-CA-C	5.44	120.15	112.75
1	9	450	LEU	CA-C-N	5.44	127.57	120.28
1	9	450	LEU	C-N-CA	5.44	127.57	120.28
1	9	465	LEU	CA-C-N	5.44	129.79	120.71
1	9	465	LEU	C-N-CA	5.44	129.79	120.71
1	a	270	ILE	CA-C-O	5.44	126.61	120.95
1	a	412	PRO	N-CA-CB	-5.44	97.54	103.25
1	c	455	ARG	N-CA-CB	5.44	117.96	110.07
1	f	165	GLU	N-CA-C	5.44	117.91	110.24
1	h	473	LYS	CA-C-N	5.44	128.03	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	473	LYS	C-N-CA	5.44	128.03	120.63
1	l	705	ALA	CA-C-O	5.44	126.30	120.70
1	o	126	ASP	CA-CB-CG	5.44	118.04	112.60
1	w	458	PHE	N-CA-C	5.44	117.21	111.28
1	w	501	PHE	N-CA-C	5.44	117.91	111.33
1	y	252	TYR	CA-CB-CG	-5.44	104.11	113.90
1	z	362	GLU	N-CA-CB	-5.44	102.44	110.49
1	F	571	GLN	O-C-N	-5.44	116.22	122.09
1	J	341	GLU	N-CA-CB	5.44	118.31	110.20
1	K	353	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	O	511	GLN	OE1-CD-NE2	-5.44	117.16	122.60
1	R	697	TYR	CA-C-O	5.44	126.30	120.70
1	S	462	VAL	CA-C-N	5.44	126.02	119.98
1	S	462	VAL	C-N-CA	5.44	126.02	119.98
1	S	696	ILE	CB-CA-C	5.44	119.73	112.22
1	U	502	GLU	O-C-N	-5.44	116.43	122.09
1	V	206	HIS	ND1-CE1-NE2	5.44	113.84	108.40
1	V	457	ASP	CA-C-N	5.44	128.58	120.31
1	V	457	ASP	C-N-CA	5.44	128.58	120.31
1	V	684	GLU	CA-C-N	5.44	127.51	120.44
1	V	684	GLU	C-N-CA	5.44	127.51	120.44
1	X	659	ASP	CA-C-O	5.44	126.23	119.97
1	3	628	ILE	N-CA-C	5.44	115.64	110.42
1	g	98	ARG	CG-CD-NE	-5.44	100.03	112.00
1	i	706	LEU	N-CA-C	5.44	117.21	111.28
1	q	424	GLU	CB-CG-CD	5.44	121.85	112.60
1	r	170	ARG	NE-CZ-NH1	5.44	126.94	121.50
1	r	275	ALA	N-CA-CB	5.44	117.90	110.01
1	x	394	ARG	N-CA-C	5.44	116.89	111.07
1	F	511	GLN	O-C-N	-5.44	116.36	122.12
1	F	521	GLN	N-CA-C	5.44	117.21	111.28
1	3	97	VAL	CA-C-N	5.44	127.55	120.26
1	3	97	VAL	C-N-CA	5.44	127.55	120.26
1	3	381	HIS	O-C-N	-5.44	116.36	122.12
1	9	174	ARG	N-CA-CB	5.44	118.54	110.49
1	a	482	LYS	N-CA-CB	5.44	118.11	110.12
1	c	583	GLN	O-C-N	-5.44	115.81	122.34
1	h	239	ARG	NH1-CZ-NH2	-5.44	112.23	119.30
1	o	684	GLU	N-CA-C	5.44	116.89	111.07
1	p	476	ILE	CA-C-O	-5.44	115.30	120.95
1	t	410	ASP	CA-C-N	5.44	131.49	121.70
1	t	410	ASP	C-N-CA	5.44	131.49	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	y	563	LYS	N-CA-C	5.44	117.21	111.28
1	K	709	PHE	N-CA-CB	5.44	117.90	110.01
1	M	555	ASP	CA-C-N	5.44	127.41	120.56
1	M	555	ASP	C-N-CA	5.44	127.41	120.56
1	O	294	THR	CA-C-N	5.44	128.70	122.83
1	O	294	THR	C-N-CA	5.44	128.70	122.83
1	Q	258	THR	CA-C-O	5.44	126.89	120.69
1	U	358	VAL	CB-CA-C	-5.44	105.01	111.97
1	W	164	CYS	N-CA-C	5.44	117.10	110.41
1	3	245	ILE	CA-C-O	-5.44	115.62	121.27
1	3	597	PHE	N-CA-C	5.44	117.63	111.11
1	7	427	LYS	CA-C-N	5.44	127.83	120.44
1	7	427	LYS	C-N-CA	5.44	127.83	120.44
1	9	418	LYS	O-C-N	-5.44	115.95	122.15
1	a	123	VAL	CA-C-O	5.44	127.01	120.65
1	b	406	ARG	NH1-CZ-NH2	-5.44	112.23	119.30
1	f	336	ARG	CA-C-N	5.44	129.47	120.94
1	f	336	ARG	C-N-CA	5.44	129.47	120.94
1	h	305	LYS	N-CA-C	-5.44	105.44	111.36
1	i	152	ARG	CA-C-O	5.44	125.71	119.35
1	m	586	SER	N-CA-C	5.44	116.89	111.07
1	F	239	ARG	NH1-CZ-NH2	-5.44	112.23	119.30
1	S	332	GLU	N-CA-C	5.44	118.13	111.82
1	Y	196	VAL	CA-CB-CG1	5.44	119.64	110.40
1	Z	253	ILE	N-CA-C	5.44	116.21	110.72
1	0	379	ILE	O-C-N	5.43	127.43	121.83
1	1	507	GLN	N-CA-C	5.43	119.17	112.54
1	s	581	GLN	CA-CB-CG	5.43	124.97	114.10
1	t	277	SER	N-CA-C	5.43	117.20	111.28
1	E	423	ILE	CA-C-N	5.43	127.56	120.28
1	E	423	ILE	C-N-CA	5.43	127.56	120.28
1	E	686	ALA	CB-CA-C	-5.43	102.35	110.88
1	G	509	ILE	CA-C-N	5.43	128.11	120.28
1	G	509	ILE	C-N-CA	5.43	128.11	120.28
1	H	353	HIS	CA-CB-CG	-5.43	108.36	113.80
1	J	116	LEU	CA-C-N	5.43	128.48	120.82
1	J	116	LEU	C-N-CA	5.43	128.48	120.82
1	M	471	LYS	CA-C-O	5.43	126.18	120.42
1	N	226	LEU	CA-C-N	5.43	126.63	119.84
1	N	226	LEU	C-N-CA	5.43	126.63	119.84
1	6	218	VAL	N-CA-CB	5.43	115.59	109.99
1	b	590	LYS	CA-C-O	-5.43	114.79	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	688	LYS	CA-C-O	5.43	126.31	120.55
1	d	441	GLU	N-CA-C	5.43	117.74	110.35
1	f	455	ARG	O-C-N	-5.43	114.96	122.46
1	j	162	GLN	CA-C-N	5.43	124.95	119.19
1	j	162	GLN	C-N-CA	5.43	124.95	119.19
1	j	588	VAL	N-CA-CB	5.43	118.73	110.58
1	k	373	ARG	CG-CD-NE	-5.43	100.05	112.00
1	k	575	GLU	CA-C-N	5.43	127.87	120.54
1	k	575	GLU	C-N-CA	5.43	127.87	120.54
1	l	534	VAL	CA-C-N	5.43	127.56	120.28
1	l	534	VAL	C-N-CA	5.43	127.56	120.28
1	o	194	GLN	N-CA-C	5.43	116.88	111.07
1	u	506	HIS	N-CA-C	5.43	117.20	111.28
1	w	593	ARG	N-CA-C	5.43	116.88	111.07
1	E	260	ASN	N-CA-C	5.43	117.16	108.41
1	F	594	GLU	N-CA-C	5.43	117.20	111.28
1	Q	689	ARG	NH1-CZ-NH2	-5.43	112.24	119.30
1	U	117	ALA	N-CA-C	5.43	116.88	111.07
1	V	454	ILE	N-CA-C	5.43	115.64	110.42
1	0	640	ARG	CA-C-N	5.43	128.56	120.31
1	0	640	ARG	C-N-CA	5.43	128.56	120.31
1	5	142	ALA	O-C-N	-5.43	117.39	123.04
1	8	424	GLU	N-CA-C	5.43	116.88	111.07
1	n	393	ILE	CA-C-O	5.43	127.10	121.29
1	n	572	PHE	O-C-N	-5.43	116.36	122.12
1	r	538	HIS	ND1-CE1-NE2	5.43	113.83	108.40
1	A	134	VAL	O-C-N	-5.43	116.60	121.87
1	H	213	ILE	N-CA-C	5.43	115.77	108.17
1	J	640	ARG	CB-CG-CD	5.43	123.79	111.30
1	M	500	THR	CA-C-N	5.43	127.56	120.28
1	M	500	THR	C-N-CA	5.43	127.56	120.28
1	P	297	ASP	CA-C-O	5.43	125.11	119.14
1	T	107	LEU	CA-C-O	5.43	126.31	120.55
1	T	173	TYR	N-CA-C	-5.43	106.49	113.01
1	T	240	ASP	CA-C-N	5.43	127.40	120.56
1	T	240	ASP	C-N-CA	5.43	127.40	120.56
1	U	212	GLU	CA-C-N	5.43	129.92	123.19
1	U	212	GLU	C-N-CA	5.43	129.92	123.19
1	5	302	GLY	CA-C-O	5.43	126.12	120.80
1	7	500	THR	O-C-N	-5.43	116.48	122.07
1	7	581	GLN	N-CA-CB	5.43	119.67	110.49
1	9	167	TRP	CA-CB-CG	5.43	123.92	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	131	LYS	N-CA-C	5.43	117.95	111.71
1	e	531	PHE	N-CA-C	5.43	116.88	111.07
1	g	676	SER	N-CA-C	5.43	117.90	111.33
1	j	130	GLY	CA-C-N	5.43	127.56	120.28
1	j	130	GLY	C-N-CA	5.43	127.56	120.28
1	k	302	GLY	CA-C-N	5.43	127.56	120.28
1	k	302	GLY	C-N-CA	5.43	127.56	120.28
1	k	571	GLN	O-C-N	-5.43	116.36	122.12
1	m	317	PRO	N-CA-CB	-5.43	98.12	102.36
1	n	685	THR	CA-C-O	5.43	126.52	120.82
1	p	98	ARG	NH1-CZ-NH2	-5.43	112.24	119.30
1	r	239	ARG	NE-CZ-NH2	5.43	124.09	119.20
1	s	238	PRO	CA-C-N	5.43	130.80	122.93
1	s	238	PRO	C-N-CA	5.43	130.80	122.93
1	z	224	ILE	N-CA-CB	5.43	118.72	112.15
1	C	102	ASP	N-CA-C	5.43	117.95	111.71
1	D	262	VAL	CA-C-O	-5.43	114.72	120.48
1	E	102	ASP	CA-CB-CG	5.43	118.03	112.60
1	E	428	MET	O-C-N	-5.43	115.87	122.22
1	H	675	TYR	CA-C-O	5.43	126.71	120.90
1	I	191	HIS	CE1-NE2-CD2	-5.43	103.57	109.00
1	I	683	SER	O-C-N	5.43	128.57	122.22
1	L	574	MET	O-C-N	-5.43	114.97	122.46
1	Q	530	ALA	N-CA-C	5.43	117.20	111.28
1	R	692	LEU	CA-C-N	5.43	127.50	120.44
1	R	692	LEU	C-N-CA	5.43	127.50	120.44
1	S	198	ALA	N-CA-C	5.43	118.91	112.72
1	T	102	ASP	O-C-N	-5.43	116.36	122.12
1	U	185	GLN	N-CA-C	-5.43	106.66	113.28
1	Y	468	ASN	CB-CG-ND2	5.43	124.54	116.40
1	Z	687	THR	CA-C-N	5.43	127.55	120.28
1	Z	687	THR	C-N-CA	5.43	127.55	120.28
1	1	267	ASN	CB-CG-ND2	5.43	124.54	116.40
1	5	662	GLN	CA-C-O	5.43	126.30	120.55
1	b	506	HIS	CA-C-N	5.43	127.50	120.44
1	b	506	HIS	C-N-CA	5.43	127.50	120.44
1	d	692	LEU	CA-C-N	5.43	127.55	120.28
1	d	692	LEU	C-N-CA	5.43	127.55	120.28
1	v	101	ILE	CA-CB-CG2	5.43	119.73	110.50
1	v	206	HIS	CB-CG-CD2	-5.43	124.14	131.20
1	x	112	VAL	N-CA-CB	5.43	120.73	111.50
1	F	558	VAL	N-CA-C	5.43	116.16	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	249	ILE	N-CA-C	5.43	116.16	110.62
1	K	504	ILE	N-CA-C	5.43	115.63	110.42
1	6	124	ILE	O-C-N	-5.43	117.45	123.20
1	b	277	SER	CA-C-O	-5.43	115.12	120.82
1	k	285	GLU	CB-CA-C	5.43	119.09	109.65
1	m	441	GLU	CB-CG-CD	-5.43	103.37	112.60
1	p	259	ILE	O-C-N	-5.43	116.69	122.61
1	r	126	ASP	O-C-N	-5.43	115.98	122.65
1	u	659	ASP	CA-C-O	-5.43	114.80	120.55
1	v	94	GLU	N-CA-C	5.43	117.89	111.33
1	y	506	HIS	CE1-NE2-CD2	-5.43	103.57	109.00
1	z	658	GLY	N-CA-C	5.43	119.24	112.73
1	A	689	ARG	CG-CD-NE	-5.43	100.06	112.00
1	F	397	HIS	CB-CA-C	-5.43	102.36	110.88
1	G	312	ARG	N-CA-C	5.43	117.62	111.11
1	G	689	ARG	NE-CZ-NH2	5.43	124.08	119.20
1	I	316	TYR	O-C-N	-5.43	115.35	121.43
1	L	162	GLN	CA-C-O	-5.43	115.99	120.71
1	L	249	ILE	CA-C-N	5.43	127.87	120.54
1	L	249	ILE	C-N-CA	5.43	127.87	120.54
1	T	541	GLU	CA-C-O	5.43	126.52	120.82
1	Z	279	ALA	N-CA-C	5.43	117.19	111.28
1	Z	598	ASN	CA-C-O	-5.43	111.58	120.80
1	1	162	GLN	OE1-CD-NE2	-5.42	117.18	122.60
1	1	471	LYS	N-CA-CB	-5.42	102.15	110.12
1	3	532	ILE	CA-C-N	5.42	127.49	120.44
1	3	532	ILE	C-N-CA	5.42	127.49	120.44
1	5	552	THR	CA-C-N	5.42	127.39	120.56
1	5	552	THR	C-N-CA	5.42	127.39	120.56
1	8	382	ILE	N-CA-C	5.42	116.20	110.72
1	a	428	MET	CA-C-N	5.42	127.49	120.44
1	a	428	MET	C-N-CA	5.42	127.49	120.44
1	c	185	GLN	CB-CG-CD	5.42	121.82	112.60
1	d	635	LEU	CB-CA-C	5.42	119.31	110.96
1	k	583	GLN	CA-C-N	5.42	129.52	120.62
1	k	583	GLN	C-N-CA	5.42	129.52	120.62
1	l	417	ASP	CB-CA-C	5.42	118.23	110.04
1	m	234	VAL	CA-C-N	5.42	131.90	121.54
1	m	234	VAL	C-N-CA	5.42	131.90	121.54
1	o	221	LEU	O-C-N	-5.42	117.81	123.56
1	x	635	LEU	CA-C-O	5.42	126.70	121.00
1	A	322	TYR	O-C-N	-5.42	115.51	122.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	645	ILE	O-C-N	5.42	123.92	120.07
1	E	391	GLY	CA-C-N	5.42	127.49	120.44
1	E	391	GLY	C-N-CA	5.42	127.49	120.44
1	F	302	GLY	CA-C-O	-5.42	114.33	120.30
1	J	143	LEU	CA-C-O	-5.42	114.19	119.51
1	K	505	VAL	CB-CA-C	-5.42	103.47	112.26
1	O	443	VAL	N-CA-C	5.42	116.99	109.29
1	P	110	LEU	N-CA-CB	5.42	118.33	110.47
1	P	259	ILE	N-CA-CB	5.42	117.18	111.00
1	S	242	GLY	CA-C-N	5.42	127.81	120.38
1	S	242	GLY	C-N-CA	5.42	127.81	120.38
1	T	325	VAL	O-C-N	-5.42	117.54	123.18
1	V	579	PHE	CA-C-O	5.42	126.95	120.28
1	X	465	LEU	O-C-N	-5.42	116.37	122.12
1	Y	524	MET	CA-C-O	5.42	126.49	120.63
1	0	690	ARG	NH1-CZ-NH2	-5.42	112.25	119.30
1	2	428	MET	N-CA-C	5.42	117.27	111.36
1	3	443	VAL	N-CA-CB	5.42	119.24	110.13
1	7	108	ARG	CA-CB-CG	5.42	124.95	114.10
1	8	309	ASN	CA-CB-CG	-5.42	107.18	112.60
1	b	251	LYS	CA-C-O	5.42	126.30	120.55
1	c	425	LYS	N-CA-C	5.42	117.19	111.28
1	f	454	ILE	CA-C-O	5.42	126.37	120.57
1	n	436	LEU	N-CA-C	5.42	116.87	111.07
1	p	538	HIS	O-C-N	5.42	130.06	122.36
1	y	484	GLU	N-CA-C	5.42	116.87	111.07
1	D	125	GLY	CA-C-N	5.42	130.03	120.87
1	D	125	GLY	C-N-CA	5.42	130.03	120.87
1	J	215	SER	O-C-N	-5.42	116.78	121.71
1	K	502	GLU	CA-C-N	5.42	127.89	120.46
1	K	502	GLU	C-N-CA	5.42	127.89	120.46
1	L	236	ASN	OD1-CG-ND2	-5.42	117.18	122.60
1	Q	336	ARG	NE-CZ-NH2	-5.42	114.32	119.20
1	U	550	GLN	CA-C-N	5.42	127.99	120.29
1	U	550	GLN	C-N-CA	5.42	127.99	120.29
1	W	544	ASN	CA-CB-CG	-5.42	107.18	112.60
1	5	497	ASN	CA-C-N	5.42	128.09	120.28
1	5	497	ASN	C-N-CA	5.42	128.09	120.28
1	6	587	VAL	N-CA-C	5.42	118.70	111.44
1	a	574	MET	O-C-N	-5.42	116.37	122.12
1	b	469	THR	CA-CB-CG2	5.42	119.72	110.50
1	d	302	GLY	N-CA-C	5.42	120.63	113.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	376	THR	O-C-N	-5.42	115.97	122.15
1	f	659	ASP	CA-CB-CG	-5.42	107.18	112.60
1	h	685	THR	CA-CB-OG1	5.42	117.73	109.60
1	l	258	THR	N-CA-CB	5.42	117.94	109.97
1	w	571	GLN	N-CA-C	5.42	117.19	111.28
1	x	208	LEU	O-C-N	-5.42	116.20	122.87
1	x	569	GLN	N-CA-CB	-5.42	102.15	110.01
1	z	441	GLU	O-C-N	-5.42	117.20	123.33
1	A	194	GLN	N-CA-C	5.42	117.61	111.11
1	C	473	LYS	CG-CD-CE	5.42	123.77	111.30
1	D	249	ILE	CA-C-O	-5.42	115.42	121.17
1	G	473	LYS	CA-C-O	5.42	126.23	120.10
1	K	292	ILE	CA-C-O	5.42	127.01	120.67
1	R	568	ILE	N-CA-C	5.42	116.05	110.36
1	S	245	ILE	CA-C-O	-5.42	115.42	121.17
1	T	191	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	0	299	MET	O-C-N	-5.42	116.26	122.93
1	4	443	VAL	N-CA-C	5.42	116.69	109.37
1	9	534	VAL	N-CA-C	5.42	116.15	110.62
1	b	93	TYR	CB-CG-CD2	-5.42	112.67	120.80
1	e	230	THR	OG1-CB-CG2	-5.42	98.46	109.30
1	f	405	ARG	N-CA-C	5.42	118.11	111.82
1	l	191	HIS	CA-CB-CG	5.42	119.22	113.80
1	n	564	ALA	N-CA-C	5.42	117.19	111.28
1	o	499	LYS	CA-C-O	-5.42	114.81	120.55
1	q	625	GLU	N-CA-C	5.42	116.88	110.97
1	H	242	GLY	O-C-N	5.42	127.45	122.19
1	O	406	ARG	CD-NE-CZ	5.42	131.99	124.40
1	S	526	ILE	N-CA-C	5.42	115.62	110.42
1	0	191	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	5	576	GLN	N-CA-C	5.42	117.19	111.28
1	f	488	ARG	N-CA-C	5.42	117.94	111.71
1	g	401	THR	CA-C-N	5.42	127.54	120.28
1	g	401	THR	C-N-CA	5.42	127.54	120.28
1	h	674	ARG	CB-CA-C	-5.42	101.56	110.72
1	v	546	ASN	CA-CB-CG	-5.42	107.18	112.60
1	v	574	MET	CG-SD-CE	-5.42	88.98	100.90
1	w	694	GLU	CA-C-N	5.42	127.54	120.28
1	w	694	GLU	C-N-CA	5.42	127.54	120.28
1	x	569	GLN	CG-CD-NE2	5.42	124.53	116.40
1	z	166	ALA	CA-C-O	-5.42	115.09	121.16
1	E	244	GLN	N-CA-CB	5.42	117.87	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	544	ASN	N-CA-C	5.42	116.99	111.14
1	G	177	GLU	CB-CA-C	-5.42	100.59	109.53
1	G	299	MET	N-CA-CB	5.42	117.97	110.17
1	J	589	LEU	CA-C-N	5.42	127.54	120.28
1	J	589	LEU	C-N-CA	5.42	127.54	120.28
1	J	668	ILE	CA-C-O	5.42	126.58	120.95
1	K	665	MET	N-CA-CB	5.42	117.87	110.01
1	O	690	ARG	NE-CZ-NH2	-5.42	114.32	119.20
1	O	700	THR	CA-CB-OG1	5.42	117.73	109.60
1	P	378	LEU	O-C-N	-5.42	116.49	122.07
1	R	422	LEU	N-CA-C	5.42	117.19	111.28
1	S	698	ARG	NE-CZ-NH1	-5.42	116.08	121.50
1	T	218	VAL	N-CA-CB	5.42	115.57	109.99
1	Y	239	ARG	CA-C-N	5.42	131.46	121.70
1	Y	239	ARG	C-N-CA	5.42	131.46	121.70
1	1	371	ALA	CA-C-N	5.42	127.98	120.29
1	1	371	ALA	C-N-CA	5.42	127.98	120.29
1	3	210	SER	O-C-N	-5.42	116.75	123.36
1	3	420	PHE	CA-CB-CG	-5.42	108.38	113.80
1	4	332	GLU	CA-C-O	5.42	126.51	120.82
1	5	569	GLN	OE1-CD-NE2	-5.42	117.18	122.60
1	9	195	ASN	CB-CG-OD1	5.42	131.63	120.80
1	c	136	GLU	N-CA-C	5.42	117.18	111.28
1	c	402	GLU	N-CA-C	5.42	117.26	111.36
1	g	264	VAL	N-CA-C	5.42	113.90	107.73
1	h	578	VAL	O-C-N	-5.42	116.77	122.67
1	h	704	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	i	571	GLN	CA-C-N	5.42	128.54	120.31
1	i	571	GLN	C-N-CA	5.42	128.54	120.31
1	j	537	LYS	CB-CA-C	-5.42	101.80	110.79
1	l	384	LYS	O-C-N	-5.42	115.17	122.43
1	m	669	LEU	N-CA-C	-5.42	106.44	113.16
1	n	275	ALA	N-CA-CB	-5.42	102.16	110.12
1	n	412	PRO	CB-CA-C	-5.42	104.82	111.64
1	o	183	PRO	N-CA-CB	5.42	109.37	103.30
1	r	323	MET	CA-C-N	-5.42	113.83	122.50
1	r	323	MET	C-N-CA	-5.42	113.83	122.50
1	s	191	HIS	N-CA-C	5.42	117.27	111.36
1	t	585	TYR	N-CA-CB	-5.42	101.93	110.06
1	t	668	ILE	N-CA-C	-5.42	104.32	111.09
1	v	209	ILE	CB-CA-C	5.42	119.49	111.31
1	v	330	GLN	CA-C-O	5.42	126.28	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	x	458	PHE	O-C-N	-5.42	115.88	122.22
1	z	331	GLN	CB-CG-CD	5.42	121.81	112.60
1	A	280	HIS	CA-CB-CG	5.42	119.22	113.80
1	F	587	VAL	CA-CB-CG1	5.42	119.61	110.40
1	K	432	ASP	N-CA-C	5.42	117.94	111.71
1	N	356	PHE	CA-CB-CG	-5.42	108.38	113.80
1	Q	308	MET	CA-C-N	5.42	127.98	120.29
1	Q	308	MET	C-N-CA	5.42	127.98	120.29
1	S	624	THR	N-CA-CB	5.42	118.64	110.30
1	U	338	SER	N-CA-C	5.42	117.28	110.24
1	V	456	GLU	O-C-N	5.42	127.65	122.07
1	V	548	THR	CA-C-N	5.42	127.39	120.56
1	V	548	THR	C-N-CA	5.42	127.39	120.56
1	8	707	CYS	O-C-N	-5.42	115.88	122.22
1	e	253	ILE	CA-C-N	5.42	127.54	120.28
1	e	253	ILE	C-N-CA	5.42	127.54	120.28
1	e	402	GLU	CB-CG-CD	5.42	121.81	112.60
1	J	124	ILE	N-CA-CB	5.42	119.43	111.52
1	L	442	VAL	O-C-N	-5.42	116.43	122.66
1	R	165	GLU	N-CA-C	5.42	117.72	110.35
1	W	248	LEU	N-CA-CB	-5.42	102.16	110.12
1	X	200	ASN	O-C-N	-5.42	115.39	122.59
1	3	415	GLU	CB-CA-C	-5.41	101.80	110.79
1	5	577	MET	O-C-N	-5.41	116.88	123.16
1	7	114	GLN	CA-C-N	5.41	129.87	122.34
1	7	114	GLN	C-N-CA	5.41	129.87	122.34
1	9	547	GLN	CG-CD-OE1	-5.41	109.97	120.80
1	a	340	ALA	N-CA-CB	5.41	118.05	109.82
1	g	373	ARG	CG-CD-NE	-5.41	100.09	112.00
1	m	589	LEU	N-CA-C	5.41	117.18	111.28
1	q	309	ASN	N-CA-C	5.41	117.18	111.28
1	w	523	ALA	CA-C-O	-5.41	115.12	120.70
1	x	276	LEU	CA-C-O	5.41	126.16	120.42
1	C	671	GLU	N-CA-C	5.41	118.29	110.28
1	D	632	ALA	CB-CA-C	5.41	119.78	110.79
1	F	135	LEU	O-C-N	-5.41	116.38	122.12
1	I	367	VAL	CA-C-N	5.41	126.61	119.84
1	I	367	VAL	C-N-CA	5.41	126.61	119.84
1	J	380	MET	O-C-N	-5.41	115.61	122.27
1	O	179	GLU	CA-C-O	5.41	126.15	120.36
1	Q	426	ILE	CA-C-O	-5.41	115.32	120.95
1	Q	644	GLN	CA-C-N	5.41	123.65	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	644	GLN	C-N-CA	5.41	123.65	120.24
1	R	706	LEU	N-CA-C	5.41	117.18	111.28
1	S	172	SER	N-CA-CB	5.41	117.93	109.97
1	S	656	GLU	N-CA-C	5.41	117.18	111.28
1	V	480	VAL	N-CA-C	5.41	118.64	111.17
1	Y	388	LEU	CA-C-N	5.41	127.48	120.44
1	Y	388	LEU	C-N-CA	5.41	127.48	120.44
1	8	593	ARG	CA-C-N	5.41	127.53	120.28
1	8	593	ARG	C-N-CA	5.41	127.53	120.28
1	9	678	LEU	N-CA-CB	5.41	118.63	110.30
1	w	141	VAL	O-C-N	5.41	128.81	123.18
1	A	293	LEU	N-CA-C	5.41	117.71	110.35
1	A	625	GLU	CB-CG-CD	5.41	121.80	112.60
1	A	673	ASN	CA-CB-CG	5.41	118.01	112.60
1	G	637	THR	OG1-CB-CG2	-5.41	98.47	109.30
1	K	305	LYS	CB-CG-CD	5.41	123.75	111.30
1	T	394	ARG	CA-C-N	5.41	127.53	120.28
1	T	394	ARG	C-N-CA	5.41	127.53	120.28
1	0	311	VAL	N-CA-CB	5.41	117.90	110.54
1	1	557	LYS	CA-C-N	5.41	128.10	120.42
1	1	557	LYS	C-N-CA	5.41	128.10	120.42
1	4	103	LEU	N-CA-C	5.41	116.86	111.07
1	6	703	ARG	O-C-N	-5.41	116.50	122.07
1	7	689	ARG	CA-C-N	5.41	127.79	120.65
1	7	689	ARG	C-N-CA	5.41	127.79	120.65
1	b	179	GLU	CA-C-O	5.41	126.65	120.54
1	c	155	LEU	O-C-N	-5.41	115.98	123.12
1	v	694	GLU	O-C-N	-5.41	116.38	122.12
1	w	480	VAL	CA-CB-CG1	5.41	119.60	110.40
1	y	500	THR	CA-C-N	5.41	127.47	120.44
1	y	500	THR	C-N-CA	5.41	127.47	120.44
1	I	471	LYS	N-CA-C	-5.41	106.72	113.38
1	N	182	ASP	CA-CB-CG	5.41	118.01	112.60
1	Q	191	HIS	CA-CB-CG	5.41	119.21	113.80
1	S	642	ALA	N-CA-C	-5.41	106.65	113.20
1	U	398	GLN	CA-C-N	5.41	127.53	120.28
1	U	398	GLN	C-N-CA	5.41	127.53	120.28
1	Z	453	LYS	CA-C-N	5.41	127.38	120.56
1	Z	453	LYS	C-N-CA	5.41	127.38	120.56
1	1	381	HIS	CA-CB-CG	-5.41	108.39	113.80
1	1	559	LYS	CA-C-N	5.41	128.53	120.31
1	1	559	LYS	C-N-CA	5.41	128.53	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	373	ARG	CA-C-N	5.41	127.47	120.44
1	2	373	ARG	C-N-CA	5.41	127.47	120.44
1	8	566	ASN	CA-CB-CG	-5.41	107.19	112.60
1	i	658	GLY	O-C-N	5.41	128.56	122.34
1	j	379	ILE	N-CA-CB	5.41	116.51	110.51
1	j	458	PHE	CB-CG-CD2	-5.41	111.50	120.70
1	k	411	ILE	CA-CB-CG1	5.41	119.59	110.40
1	p	247	ALA	CA-C-N	5.41	127.97	120.29
1	p	247	ALA	C-N-CA	5.41	127.97	120.29
1	r	623	PHE	CA-C-O	5.41	126.26	120.20
1	v	373	ARG	CA-C-N	5.41	127.79	120.38
1	v	373	ARG	C-N-CA	5.41	127.79	120.38
1	v	624	THR	N-CA-C	5.41	116.86	111.07
1	z	649	ILE	CA-C-O	-5.41	115.12	120.85
1	C	324	ILE	CA-C-N	5.41	130.02	122.23
1	C	324	ILE	C-N-CA	5.41	130.02	122.23
1	D	380	MET	O-C-N	-5.41	116.50	122.07
1	G	540	GLY	CA-C-N	5.41	127.79	120.38
1	G	540	GLY	C-N-CA	5.41	127.79	120.38
1	J	485	LYS	CG-CD-CE	-5.41	98.86	111.30
1	P	491	GLU	CB-CG-CD	5.41	121.79	112.60
1	U	294	THR	CA-CB-CG2	5.41	119.69	110.50
1	X	458	PHE	CB-CA-C	5.41	119.77	110.79
1	4	281	GLU	N-CA-CB	5.41	118.07	110.12
1	6	476	ILE	O-C-N	-5.41	116.63	121.87
1	9	156	VAL	N-CA-C	5.41	115.10	106.88
1	c	597	PHE	CA-CB-CG	-5.41	108.39	113.80
1	d	282	VAL	CA-C-O	5.41	125.03	119.35
1	h	433	ILE	O-C-N	-5.41	116.62	121.87
1	i	592	VAL	CA-C-N	5.41	127.79	120.65
1	i	592	VAL	C-N-CA	5.41	127.79	120.65
1	r	548	THR	CA-C-O	5.41	126.28	120.55
1	D	373	ARG	CD-NE-CZ	-5.41	116.83	124.40
1	G	421	PHE	N-CA-C	5.41	117.17	111.28
1	I	413	SER	N-CA-C	5.41	116.86	110.97
1	K	254	GLN	OE1-CD-NE2	-5.41	117.19	122.60
1	W	93	TYR	CA-C-N	5.41	127.47	120.44
1	W	93	TYR	C-N-CA	5.41	127.47	120.44
1	X	373	ARG	O-C-N	-5.41	116.25	122.09
1	2	573	ARG	CA-C-N	5.41	128.06	120.28
1	2	573	ARG	C-N-CA	5.41	128.06	120.28
1	9	93	TYR	CA-CB-CG	-5.41	104.17	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	9	232	VAL	CA-C-N	5.41	128.39	120.71
1	9	232	VAL	C-N-CA	5.41	128.39	120.71
1	b	167	TRP	CA-C-O	5.41	127.17	121.33
1	b	706	LEU	N-CA-CB	5.41	118.07	110.12
1	c	121	ILE	CA-CB-CG1	5.41	119.59	110.40
1	e	534	VAL	N-CA-CB	5.41	117.89	110.54
1	e	689	ARG	NE-CZ-NH2	5.41	124.06	119.20
1	l	339	LEU	N-CA-C	5.41	117.17	111.28
1	l	428	MET	O-C-N	5.41	127.64	122.07
1	o	659	ASP	N-CA-C	5.41	118.09	111.82
1	w	443	VAL	N-CA-C	5.41	117.66	109.12
1	D	452	ASN	CA-C-O	5.41	126.28	120.55
1	K	312	ARG	O-C-N	-5.41	116.39	122.12
1	P	118	LEU	N-CA-C	5.41	121.76	109.81
1	P	592	VAL	O-C-N	-5.41	116.26	121.83
1	Q	531	PHE	O-C-N	-5.41	116.39	122.12
1	R	331	GLN	CA-C-N	5.41	129.02	121.02
1	R	331	GLN	C-N-CA	5.41	129.02	121.02
1	W	260	ASN	CA-CB-CG	-5.41	107.19	112.60
1	Y	324	ILE	CA-C-O	5.41	127.31	121.36
1	Z	418	LYS	CA-C-N	5.41	127.97	120.29
1	Z	418	LYS	C-N-CA	5.41	127.97	120.29
1	b	238	PRO	N-CA-C	5.40	123.60	112.47
1	j	379	ILE	O-C-N	-5.40	116.54	121.94
1	o	385	SER	N-CA-C	5.40	119.74	113.20
1	z	586	SER	N-CA-C	5.40	117.17	111.28
1	H	409	ALA	N-CA-C	5.40	117.86	110.24
1	S	118	LEU	CA-C-N	5.40	126.59	119.84
1	S	118	LEU	C-N-CA	5.40	126.59	119.84
1	W	249	ILE	N-CA-C	5.40	115.61	110.42
1	1	319	LYS	O-C-N	-5.40	115.90	122.22
1	2	417	ASP	CA-C-N	5.40	127.46	120.44
1	2	417	ASP	C-N-CA	5.40	127.46	120.44
1	c	362	GLU	N-CA-C	-5.40	106.46	113.16
1	k	268	VAL	N-CA-C	5.40	117.57	109.20
1	l	179	GLU	O-C-N	-5.40	116.91	123.29
1	o	400	ALA	N-CA-C	5.40	117.25	111.36
1	s	429	PHE	CA-C-N	5.40	127.78	120.38
1	s	429	PHE	C-N-CA	5.40	127.78	120.38
1	v	191	HIS	O-C-N	5.40	128.31	122.15
1	G	137	ALA	CB-CA-C	-5.40	101.67	110.85
1	O	641	LEU	N-CA-C	5.40	116.85	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	222	THR	CA-C-O	5.40	126.53	120.70
1	U	393	ILE	O-C-N	5.40	127.39	121.83
1	U	702	ALA	CA-C-O	5.40	126.49	120.82
1	V	243	LEU	N-CA-C	5.40	117.17	111.28
1	2	671	GLU	CA-C-N	-5.40	113.27	122.56
1	2	671	GLU	C-N-CA	-5.40	113.27	122.56
1	4	534	VAL	O-C-N	5.40	127.20	121.91
1	4	596	ILE	CA-C-N	5.40	127.52	120.28
1	4	596	ILE	C-N-CA	5.40	127.52	120.28
1	a	528	GLN	CB-CA-C	5.40	119.36	110.88
1	b	571	GLN	OE1-CD-NE2	-5.40	117.20	122.60
1	c	565	GLU	N-CA-CB	5.40	117.84	110.01
1	f	449	ARG	N-CA-C	5.40	122.30	110.80
1	j	162	GLN	O-C-N	5.40	125.17	121.71
1	q	106	SER	N-CA-CB	5.40	117.84	110.01
1	q	424	GLU	CA-C-O	-5.40	115.12	120.90
1	s	115	ASP	O-C-N	-5.40	116.10	122.58
1	s	248	LEU	CA-C-N	5.40	127.36	120.56
1	s	248	LEU	C-N-CA	5.40	127.36	120.56
1	s	373	ARG	NE-CZ-NH1	5.40	126.90	121.50
1	w	231	ARG	NH1-CZ-NH2	-5.40	112.28	119.30
1	C	98	ARG	CA-C-N	5.40	125.48	119.32
1	C	98	ARG	C-N-CA	5.40	125.48	119.32
1	D	108	ARG	CA-C-N	5.40	127.78	120.44
1	D	108	ARG	C-N-CA	5.40	127.78	120.44
1	G	130	GLY	O-C-N	-5.40	117.12	122.41
1	I	195	ASN	CA-CB-CG	-5.40	107.20	112.60
1	J	645	ILE	N-CA-C	5.40	120.54	108.88
1	K	683	SER	CA-C-N	5.40	127.96	120.29
1	K	683	SER	C-N-CA	5.40	127.96	120.29
1	Q	470	GLN	OE1-CD-NE2	-5.40	117.20	122.60
1	S	309	ASN	CA-C-O	-5.40	114.83	120.55
1	W	223	ILE	CB-CA-C	5.40	119.02	110.81
1	W	693	LYS	CA-C-N	5.40	127.52	120.28
1	W	693	LYS	C-N-CA	5.40	127.52	120.28
1	Z	259	ILE	CA-C-O	5.40	127.01	120.85
1	7	438	GLU	N-CA-C	5.40	119.58	112.89
1	g	525	GLU	CA-C-O	-5.40	114.83	120.55
1	i	173	TYR	N-CA-C	-5.40	106.20	112.89
1	o	339	LEU	CA-C-N	5.40	127.46	120.44
1	o	339	LEU	C-N-CA	5.40	127.46	120.44
1	q	317	PRO	N-CA-C	5.40	120.63	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	u	394	ARG	N-CA-C	5.40	116.85	111.07
1	y	528	GLN	N-CA-C	5.40	117.59	111.11
1	z	534	VAL	CA-CB-CG2	-5.40	101.22	110.40
1	D	330	GLN	OE1-CD-NE2	5.40	128.00	122.60
1	J	634	PHE	CA-C-N	5.40	127.78	120.44
1	J	634	PHE	C-N-CA	5.40	127.78	120.44
1	Q	497	ASN	CA-CB-CG	5.40	118.00	112.60
1	1	529	GLN	N-CA-C	5.40	117.16	111.28
1	4	243	LEU	N-CA-C	5.40	117.16	111.28
1	d	575	GLU	CA-C-N	5.40	127.51	120.28
1	d	575	GLU	C-N-CA	5.40	127.51	120.28
1	e	652	PHE	N-CA-C	5.40	116.97	111.14
1	k	301	ARG	NE-CZ-NH1	5.40	126.90	121.50
1	l	558	VAL	N-CA-C	5.40	116.13	110.62
1	q	316	TYR	CA-CB-CG	-5.40	104.18	113.90
1	s	513	VAL	O-C-N	-5.40	116.62	121.91
1	t	697	TYR	CA-C-N	5.40	127.51	120.28
1	t	697	TYR	C-N-CA	5.40	127.51	120.28
1	u	242	GLY	CA-C-N	5.40	127.46	120.44
1	u	242	GLY	C-N-CA	5.40	127.46	120.44
1	v	188	LYS	CA-C-O	5.40	125.34	119.24
1	w	356	PHE	O-C-N	5.40	128.30	122.15
1	y	636	GLU	CA-C-N	5.40	127.51	120.28
1	y	636	GLU	C-N-CA	5.40	127.51	120.28
1	C	191	HIS	CA-CB-CG	5.40	119.20	113.80
1	C	429	PHE	N-CA-CB	-5.40	102.19	110.12
1	D	573	ARG	NE-CZ-NH2	5.40	124.06	119.20
1	Q	253	ILE	CB-CA-C	5.40	119.26	111.65
1	R	130	GLY	CA-C-O	5.40	126.20	119.88
1	U	322	TYR	CG-CD1-CE1	-5.40	113.10	121.20
1	V	354	PRO	CA-C-N	5.40	128.51	120.31
1	V	354	PRO	C-N-CA	5.40	128.51	120.31
1	0	353	HIS	CB-CG-CD2	5.40	138.21	131.20
1	1	374	LEU	O-C-N	-5.40	116.40	122.12
1	1	397	HIS	N-CA-C	5.40	117.16	111.28
1	8	535	ALA	N-CA-C	5.40	117.16	111.28
1	b	301	ARG	N-CA-C	5.40	117.25	110.24
1	f	462	VAL	N-CA-CB	5.40	117.88	110.54
1	k	486	GLN	CA-C-N	5.40	127.77	120.38
1	k	486	GLN	C-N-CA	5.40	127.77	120.38
1	p	519	MET	CA-C-O	5.40	126.67	120.90
1	p	674	ARG	CA-C-N	5.40	127.45	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	p	674	ARG	C-N-CA	5.40	127.45	120.44
1	C	449	ARG	NH1-CZ-NH2	-5.40	112.28	119.30
1	F	458	PHE	CB-CA-C	5.40	119.27	110.96
1	H	396	SER	O-C-N	5.40	127.63	122.07
1	L	197	MET	CA-C-O	5.40	126.27	120.55
1	N	112	VAL	CA-C-N	5.40	129.81	120.58
1	N	112	VAL	C-N-CA	5.40	129.81	120.58
1	V	541	GLU	N-CA-C	5.40	117.24	111.36
1	X	547	GLN	CB-CG-CD	5.40	121.77	112.60
1	Z	411	ILE	O-C-N	-5.40	114.37	123.00
1	0	486	GLN	N-CA-C	5.39	121.27	114.31
1	1	301	ARG	CD-NE-CZ	5.39	131.95	124.40
1	6	378	LEU	O-C-N	-5.39	116.40	122.12
1	6	642	ALA	N-CA-C	-5.39	106.20	112.89
1	b	230	THR	N-CA-C	5.39	119.58	112.89
1	e	674	ARG	N-CA-CB	5.39	118.64	110.28
1	f	253	ILE	O-C-N	-5.39	116.81	122.20
1	f	500	THR	N-CA-CB	5.39	117.83	110.01
1	l	577	MET	CG-SD-CE	-5.39	89.03	100.90
1	n	486	GLN	CA-C-O	5.39	126.27	120.55
1	o	239	ARG	NH1-CZ-NH2	-5.39	112.29	119.30
1	q	227	PRO	N-CA-CB	5.39	107.85	103.32
1	r	226	LEU	O-C-N	-5.39	117.26	121.14
1	t	680	GLN	CA-C-N	5.39	129.99	120.87
1	t	680	GLN	C-N-CA	5.39	129.99	120.87
1	u	254	GLN	CA-C-O	-5.39	115.16	120.82
1	v	335	ASN	CA-C-O	-5.39	114.90	121.05
1	z	377	GLU	N-CA-C	5.39	117.16	111.28
1	B	113	GLU	N-CA-CB	-5.39	102.03	110.44
1	D	137	ALA	N-CA-C	5.39	117.86	111.33
1	E	429	PHE	CA-C-N	5.39	127.51	120.28
1	E	429	PHE	C-N-CA	5.39	127.51	120.28
1	H	210	SER	CB-CA-C	-5.39	99.84	109.71
1	H	507	GLN	CA-C-O	5.39	126.16	119.79
1	K	381	HIS	ND1-CE1-NE2	5.39	113.80	108.40
1	K	643	ASN	OD1-CG-ND2	-5.39	117.20	122.60
1	N	409	ALA	N-CA-CB	-5.39	101.37	110.49
1	N	553	ILE	CA-C-N	5.39	127.77	120.38
1	N	553	ILE	C-N-CA	5.39	127.77	120.38
1	N	589	LEU	O-C-N	-5.39	115.64	122.27
1	P	93	TYR	CA-C-N	5.39	127.82	120.54
1	P	93	TYR	C-N-CA	5.39	127.82	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	S	676	SER	N-CA-C	5.39	116.84	111.07
1	W	99	PRO	CA-C-N	5.39	127.95	120.29
1	W	99	PRO	C-N-CA	5.39	127.95	120.29
1	W	704	HIS	O-C-N	5.39	127.70	122.09
1	X	180	LEU	N-CA-CB	-5.39	102.48	111.06
1	1	106	SER	CA-C-N	5.39	127.45	120.44
1	1	106	SER	C-N-CA	5.39	127.45	120.44
1	1	118	LEU	N-CA-C	5.39	116.20	109.57
1	2	471	LYS	N-CA-C	5.39	119.48	113.01
1	5	503	ILE	N-CA-C	5.39	116.77	110.62
1	5	522	LYS	N-CA-CB	5.39	118.05	110.12
1	8	632	ALA	O-C-N	-5.39	116.40	122.12
1	k	206	HIS	CG-CD2-NE2	5.39	112.59	107.20
1	k	221	LEU	N-CA-CB	5.39	119.75	111.56
1	k	336	ARG	CA-C-N	5.39	129.41	120.94
1	k	336	ARG	C-N-CA	5.39	129.41	120.94
1	n	296	PRO	N-CA-CB	-5.39	97.00	102.88
1	n	573	ARG	O-C-N	-5.39	116.40	122.12
1	p	494	GLY	CA-C-N	5.39	131.41	121.70
1	p	494	GLY	C-N-CA	5.39	131.41	121.70
1	t	682	GLN	CA-C-N	5.39	131.41	121.70
1	t	682	GLN	C-N-CA	5.39	131.41	121.70
1	u	437	VAL	N-CA-C	5.39	116.17	110.72
1	w	145	ARG	NE-CZ-NH2	-5.39	114.35	119.20
1	x	588	VAL	CA-CB-CG1	5.39	119.57	110.40
1	z	195	ASN	N-CA-CB	-5.39	102.19	110.01
1	B	317	PRO	N-CA-CB	5.39	108.55	102.67
1	C	250	LYS	N-CA-C	5.39	117.91	111.71
1	F	238	PRO	CA-C-N	5.39	131.41	121.70
1	F	238	PRO	C-N-CA	5.39	131.41	121.70
1	J	197	MET	CA-C-O	-5.39	115.14	120.70
1	L	412	PRO	N-CA-C	5.39	118.94	110.80
1	O	202	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	O	623	PHE	CA-C-N	5.39	128.04	120.28
1	O	623	PHE	C-N-CA	5.39	128.04	120.28
1	U	442	VAL	N-CA-CB	-5.39	103.73	110.47
1	V	270	ILE	CA-C-N	5.39	128.29	120.79
1	V	270	ILE	C-N-CA	5.39	128.29	120.79
1	Z	333	ILE	O-C-N	-5.39	115.82	122.88
1	1	262	VAL	O-C-N	-5.39	117.22	122.99
1	3	138	LEU	CA-C-N	5.39	131.43	122.54
1	3	138	LEU	C-N-CA	5.39	131.43	122.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	575	GLU	CA-CB-CG	-5.39	103.32	114.10
1	9	471	LYS	N-CA-C	5.39	118.32	111.69
1	c	206	HIS	CA-C-O	5.39	125.07	119.14
1	f	446	ASN	CB-CG-ND2	-5.39	108.31	116.40
1	i	312	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	q	472	VAL	CA-C-O	5.39	126.27	119.48
1	F	123	VAL	CA-C-O	5.39	126.34	120.57
1	M	105	ASP	N-CA-C	5.39	117.16	111.28
1	N	244	GLN	CB-CG-CD	-5.39	103.44	112.60
1	O	558	VAL	CA-CB-CG1	5.39	119.56	110.40
1	Q	703	ARG	CB-CA-C	5.39	119.74	110.79
1	X	412	PRO	N-CA-C	5.39	119.68	110.95
1	c	131	LYS	O-C-N	-5.39	115.91	122.22
1	e	371	ALA	CA-C-N	5.39	127.50	120.28
1	e	371	ALA	C-N-CA	5.39	127.50	120.28
1	i	390	GLU	CA-C-N	5.39	125.92	119.94
1	i	390	GLU	C-N-CA	5.39	125.92	119.94
1	n	197	MET	N-CA-C	5.39	117.15	111.28
1	v	334	THR	N-CA-C	5.39	117.16	111.28
1	w	406	ARG	NH1-CZ-NH2	5.39	126.31	119.30
1	x	560	HIS	CA-C-N	5.39	129.84	120.68
1	x	560	HIS	C-N-CA	5.39	129.84	120.68
1	x	663	LYS	N-CA-CB	5.39	117.83	110.01
1	x	675	TYR	CA-C-N	5.39	127.50	120.28
1	x	675	TYR	C-N-CA	5.39	127.50	120.28
1	A	671	GLU	N-CA-CB	-5.39	101.64	110.42
1	C	658	GLY	CA-C-N	5.39	127.50	120.28
1	C	658	GLY	C-N-CA	5.39	127.50	120.28
1	C	691	ILE	N-CA-C	5.39	117.83	111.09
1	D	548	THR	CA-C-N	5.39	128.07	120.42
1	D	548	THR	C-N-CA	5.39	128.07	120.42
1	G	383	GLN	N-CA-C	5.39	116.84	111.07
1	I	214	THR	CA-CB-OG1	5.39	117.69	109.60
1	J	481	GLU	CA-C-O	-5.39	114.81	120.63
1	K	310	VAL	N-CA-C	5.39	116.02	110.36
1	N	196	VAL	CA-C-O	5.39	126.55	120.95
1	S	177	GLU	CB-CA-C	-5.39	101.06	109.84
1	U	546	ASN	N-CA-C	5.39	117.15	111.28
1	3	349	PHE	CA-CB-CG	-5.39	108.41	113.80
1	o	630	LEU	CA-C-N	5.39	127.44	120.44
1	o	630	LEU	C-N-CA	5.39	127.44	120.44
1	q	433	ILE	N-CA-C	5.39	115.59	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	v	642	ALA	N-CA-C	-5.39	106.54	113.01
1	E	180	LEU	O-C-N	-5.39	116.02	122.27
1	G	345	LYS	O-C-N	-5.39	116.41	122.12
1	O	383	GLN	CA-C-O	-5.39	115.16	120.82
1	P	278	MET	CA-C-N	5.39	128.04	120.28
1	P	278	MET	C-N-CA	5.39	128.04	120.28
1	S	375	THR	O-C-N	5.39	127.62	122.07
1	X	96	LYS	N-CA-C	-5.39	106.71	113.28
1	X	295	LYS	N-CA-C	5.39	121.72	109.81
1	2	207	GLU	N-CA-CB	5.39	118.00	109.71
1	2	394	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	5	261	LEU	CA-C-O	5.39	126.22	120.46
1	6	261	LEU	CB-CA-C	5.39	120.36	111.31
1	h	144	PRO	CA-C-N	5.39	131.24	121.92
1	h	144	PRO	C-N-CA	5.39	131.24	121.92
1	r	446	ASN	OD1-CG-ND2	-5.39	117.21	122.60
1	t	302	GLY	CA-C-N	5.39	127.50	120.28
1	t	302	GLY	C-N-CA	5.39	127.50	120.28
1	y	237	GLN	N-CA-CB	5.39	119.37	109.73
1	B	112	VAL	N-CA-CB	5.39	120.66	111.50
1	J	562	ALA	N-CA-C	5.39	117.15	111.28
1	K	589	LEU	CA-C-N	5.39	127.50	120.28
1	K	589	LEU	C-N-CA	5.39	127.50	120.28
1	M	468	ASN	N-CA-C	5.39	117.85	111.33
1	M	591	LYS	CA-C-N	5.39	127.84	120.46
1	M	591	LYS	C-N-CA	5.39	127.84	120.46
1	Q	461	TRP	CA-CB-CG	5.39	123.83	113.60
1	R	308	MET	CA-C-N	5.39	127.44	120.44
1	R	308	MET	C-N-CA	5.39	127.44	120.44
1	S	623	PHE	N-CA-C	5.39	117.15	111.28
1	Z	512	LEU	CA-C-N	5.39	127.35	120.56
1	Z	512	LEU	C-N-CA	5.39	127.35	120.56
1	1	395	GLU	CA-C-N	5.38	127.50	120.28
1	1	395	GLU	C-N-CA	5.38	127.50	120.28
1	2	254	GLN	CA-C-O	5.38	126.00	119.11
1	5	171	ILE	O-C-N	-5.38	117.38	123.20
1	7	573	ARG	O-C-N	5.38	127.61	122.07
1	9	399	LYS	CA-C-O	-5.38	115.14	120.90
1	f	118	LEU	CA-C-N	5.38	125.69	119.93
1	f	118	LEU	C-N-CA	5.38	125.69	119.93
1	k	320	LYS	CB-CA-C	-5.38	102.30	111.02
1	m	479	GLU	O-C-N	-5.38	116.41	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	p	404	LEU	N-CA-C	5.38	117.15	111.28
1	q	301	ARG	NH1-CZ-NH2	5.38	126.30	119.30
1	q	481	GLU	N-CA-C	5.38	117.57	111.11
1	v	576	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	w	138	LEU	N-CA-C	5.38	118.31	111.69
1	w	382	ILE	O-C-N	-5.38	116.63	121.91
1	z	179	GLU	CG-CD-OE1	5.38	130.78	118.40
1	B	206	HIS	ND1-CE1-NE2	5.38	113.78	108.40
1	D	123	VAL	CA-C-O	5.38	126.96	120.66
1	H	142	ALA	CA-C-N	5.38	127.88	120.39
1	H	142	ALA	C-N-CA	5.38	127.88	120.39
1	I	453	LYS	CA-C-N	5.38	128.07	120.42
1	I	453	LYS	C-N-CA	5.38	128.07	120.42
1	P	343	THR	CA-C-N	5.38	127.50	120.28
1	P	343	THR	C-N-CA	5.38	127.50	120.28
1	Q	544	ASN	O-C-N	-5.38	116.52	122.07
1	S	259	ILE	CA-C-O	-5.38	114.81	120.57
1	S	669	LEU	O-C-N	-5.38	115.03	122.46
1	T	418	LYS	N-CA-C	5.38	117.15	111.28
1	U	655	ARG	O-C-N	-5.38	116.52	122.07
1	2	119	PRO	O-C-N	-5.38	116.28	122.85
1	a	659	ASP	CA-CB-CG	5.38	117.98	112.60
1	g	549	VAL	CA-C-N	5.38	127.49	120.28
1	g	549	VAL	C-N-CA	5.38	127.49	120.28
1	k	518	SER	N-CA-CB	5.38	118.03	110.12
1	v	421	PHE	CA-CB-CG	5.38	119.18	113.80
1	y	292	ILE	O-C-N	-5.38	117.45	123.26
1	Q	425	LYS	CA-CB-CG	5.38	124.86	114.10
1	3	335	ASN	OD1-CG-ND2	-5.38	117.22	122.60
1	a	103	LEU	N-CA-CB	-5.38	102.19	110.16
1	d	111	GLY	O-C-N	-5.38	116.52	122.60
1	e	650	GLN	N-CA-C	5.38	117.15	111.28
1	g	328	ARG	CG-CD-NE	-5.38	100.16	112.00
1	h	502	GLU	O-C-N	-5.38	116.42	122.12
1	o	664	ALA	N-CA-C	-5.38	105.33	111.14
1	q	709	PHE	N-CA-C	5.38	116.83	111.07
1	r	483	TYR	CA-C-N	5.38	127.75	120.38
1	r	483	TYR	C-N-CA	5.38	127.75	120.38
1	u	704	HIS	N-CA-C	5.38	117.15	111.28
1	x	245	ILE	CA-C-O	-5.38	115.47	121.17
1	y	119	PRO	N-CA-CB	5.38	108.90	103.25
1	z	351	GLN	O-C-N	-5.38	115.65	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	348	THR	N-CA-C	5.38	116.83	111.07
1	F	291	GLY	CA-C-O	5.38	125.84	120.89
1	F	453	LYS	N-CA-C	5.38	117.15	111.28
1	K	507	GLN	CA-C-N	5.38	127.76	120.44
1	K	507	GLN	C-N-CA	5.38	127.76	120.44
1	L	388	LEU	N-CA-C	5.38	117.23	111.36
1	N	678	LEU	CA-C-O	5.38	126.00	119.38
1	Q	253	ILE	CA-C-O	5.38	125.57	119.92
1	R	429	PHE	CA-CB-CG	-5.38	108.42	113.80
1	W	113	GLU	CA-C-N	5.38	130.32	121.39
1	W	113	GLU	C-N-CA	5.38	130.32	121.39
1	W	174	ARG	O-C-N	-5.38	115.48	122.37
1	Y	226	LEU	CA-C-N	5.38	126.57	119.84
1	Y	226	LEU	C-N-CA	5.38	126.57	119.84
1	2	397	HIS	CB-CG-CD2	-5.38	124.20	131.20
1	b	130	GLY	CA-C-O	-5.38	111.21	120.57
1	o	458	PHE	N-CA-C	5.38	118.06	111.82
1	v	267	ASN	OD1-CG-ND2	-5.38	117.22	122.60
1	x	596	ILE	CA-C-N	5.38	127.76	120.44
1	x	596	ILE	C-N-CA	5.38	127.76	120.44
1	z	182	ASP	CA-C-N	5.38	125.71	119.47
1	z	182	ASP	C-N-CA	5.38	125.71	119.47
1	C	679	LEU	CA-C-O	5.38	126.21	119.59
1	U	489	GLY	O-C-N	-5.38	116.42	122.28
1	Y	370	LEU	O-C-N	-5.38	115.64	122.26
1	2	345	LYS	CA-C-O	5.38	126.25	120.55
1	2	706	LEU	CA-C-N	5.38	127.93	120.29
1	2	706	LEU	C-N-CA	5.38	127.93	120.29
1	3	452	ASN	N-CA-C	5.38	117.22	111.36
1	7	265	PRO	CA-C-O	-5.38	115.28	121.36
1	7	326	LYS	CA-C-O	5.38	126.68	120.60
1	7	700	THR	N-CA-CB	5.38	117.95	109.94
1	8	204	ILE	O-C-N	-5.38	117.08	122.62
1	e	101	ILE	N-CA-C	5.38	117.77	111.05
1	f	101	ILE	CA-C-N	5.38	128.49	120.31
1	f	101	ILE	C-N-CA	5.38	128.49	120.31
1	i	265	PRO	CA-C-N	5.38	127.75	120.38
1	i	265	PRO	C-N-CA	5.38	127.75	120.38
1	i	658	GLY	CA-C-O	-5.38	114.33	120.09
1	j	676	SER	N-CA-CB	5.38	117.81	110.01
1	r	506	HIS	ND1-CE1-NE2	5.38	113.78	108.40
1	s	291	GLY	CA-C-O	-5.38	116.23	120.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	255	ARG	NH1-CZ-NH2	-5.38	112.31	119.30
1	H	707	CYS	N-CA-C	5.38	117.14	111.28
1	I	406	ARG	NE-CZ-NH2	-5.38	114.36	119.20
1	L	661	LEU	N-CA-CB	5.38	117.95	109.94
1	M	580	CYS	O-C-N	-5.38	116.66	123.01
1	N	329	GLY	O-C-N	-5.38	115.71	122.70
1	S	269	ASP	CA-C-N	5.38	128.11	120.53
1	S	269	ASP	C-N-CA	5.38	128.11	120.53
1	V	210	SER	O-C-N	-5.38	116.24	123.23
1	V	328	ARG	NH1-CZ-NH2	5.38	126.29	119.30
1	X	325	VAL	O-C-N	-5.38	117.38	123.03
1	Z	328	ARG	N-CA-CB	-5.38	102.77	110.57
1	Z	342	ALA	CA-C-N	5.38	127.49	120.28
1	Z	342	ALA	C-N-CA	5.38	127.49	120.28
1	3	578	VAL	O-C-N	-5.38	117.50	123.20
1	5	319	LYS	O-C-N	-5.38	115.23	122.43
1	7	163	PRO	O-C-N	5.38	128.95	122.23
1	8	455	ARG	NH1-CZ-NH2	-5.38	112.31	119.30
1	b	96	LYS	O-C-N	-5.38	116.02	122.15
1	e	479	GLU	CA-C-N	5.38	127.33	120.56
1	e	479	GLU	C-N-CA	5.38	127.33	120.56
1	h	526	ILE	CA-C-O	5.38	126.06	120.25
1	h	547	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	k	380	MET	CA-C-N	5.38	127.43	120.44
1	k	380	MET	C-N-CA	5.38	127.43	120.44
1	m	165	GLU	N-CA-C	5.38	122.25	110.80
1	q	538	HIS	CA-C-N	5.38	130.65	122.37
1	q	538	HIS	C-N-CA	5.38	130.65	122.37
1	s	482	LYS	CA-C-N	5.38	127.80	120.54
1	s	482	LYS	C-N-CA	5.38	127.80	120.54
1	z	591	LYS	CA-CB-CG	5.38	124.85	114.10
1	A	299	MET	CG-SD-CE	-5.38	89.07	100.90
1	A	629	HIS	CE1-NE2-CD2	-5.38	103.62	109.00
1	B	394	ARG	N-CA-C	5.38	117.22	111.36
1	C	139	SER	O-C-N	-5.38	115.85	122.25
1	F	535	ALA	O-C-N	-5.38	115.69	122.20
1	F	567	MET	N-CA-C	5.38	117.14	111.28
1	I	449	ARG	N-CA-C	5.38	117.66	110.35
1	M	655	ARG	CA-C-O	-5.38	115.16	121.07
1	T	206	HIS	CE1-NE2-CD2	-5.38	103.62	109.00
1	T	703	ARG	NE-CZ-NH2	5.38	124.04	119.20
1	U	417	ASP	O-C-N	-5.38	116.42	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	549	VAL	O-C-N	5.38	127.37	121.83
1	Y	435	LYS	CB-CA-C	-5.38	102.44	110.88
1	Z	476	ILE	N-CA-C	-5.38	105.26	110.42
1	3	669	LEU	CA-C-O	5.38	125.93	119.43
1	a	434	GLU	N-CA-C	5.38	117.83	111.33
1	h	253	ILE	CA-CB-CG2	-5.38	101.36	110.50
1	i	244	GLN	CA-C-N	5.38	127.33	120.56
1	i	244	GLN	C-N-CA	5.38	127.33	120.56
1	n	569	GLN	CA-C-N	5.38	127.48	120.28
1	n	569	GLN	C-N-CA	5.38	127.48	120.28
1	r	113	GLU	CA-C-N	5.38	132.61	121.32
1	r	113	GLU	C-N-CA	5.38	132.61	121.32
1	u	182	ASP	CA-C-N	5.38	124.71	118.85
1	u	182	ASP	C-N-CA	5.38	124.71	118.85
1	u	704	HIS	O-C-N	-5.38	116.42	122.12
1	J	280	HIS	O-C-N	-5.38	115.93	122.22
1	S	703	ARG	O-C-N	-5.38	116.50	122.09
1	V	394	ARG	CA-C-O	5.38	126.24	120.70
1	W	373	ARG	N-CA-C	5.38	116.82	111.07
1	0	253	ILE	O-C-N	-5.37	116.83	122.20
1	0	522	LYS	N-CA-CB	5.37	117.80	110.01
1	3	471	LYS	CA-C-O	5.37	126.56	120.00
1	4	703	ARG	NH1-CZ-NH2	-5.37	112.31	119.30
1	6	488	ARG	NE-CZ-NH1	5.37	126.87	121.50
1	9	170	ARG	CA-C-N	5.37	131.17	122.68
1	9	170	ARG	C-N-CA	5.37	131.17	122.68
1	d	471	LYS	N-CA-C	5.37	117.14	111.28
1	i	210	SER	CA-C-O	5.37	126.04	120.40
1	j	527	ILE	CB-CG1-CD1	-5.37	102.52	113.80
1	j	583	GLN	N-CA-C	5.37	117.89	111.71
1	k	239	ARG	CA-C-N	5.37	131.37	121.70
1	k	239	ARG	C-N-CA	5.37	131.37	121.70
1	n	189	GLU	CA-C-O	-5.37	114.80	120.55
1	o	290	ILE	O-C-N	-5.37	117.50	123.20
1	s	198	ALA	CA-C-N	5.37	131.94	121.41
1	s	198	ALA	C-N-CA	5.37	131.94	121.41
1	v	478	GLU	CB-CG-CD	5.37	121.73	112.60
1	y	525	GLU	N-CA-C	5.37	117.56	111.11
1	B	500	THR	N-CA-C	-5.37	104.98	112.45
1	F	641	LEU	CA-C-N	5.37	127.42	120.44
1	F	641	LEU	C-N-CA	5.37	127.42	120.44
1	G	466	ALA	CA-C-N	5.37	127.42	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	466	ALA	C-N-CA	5.37	127.42	120.44
1	H	381	HIS	CE1-NE2-CD2	-5.37	103.63	109.00
1	K	651	TYR	N-CA-C	5.37	117.00	111.03
1	K	667	GLN	CA-C-N	5.37	128.05	120.42
1	K	667	GLN	C-N-CA	5.37	128.05	120.42
1	L	124	ILE	CB-CA-C	5.37	119.38	110.30
1	M	332	GLU	O-C-N	-5.37	116.02	122.15
1	0	303	THR	N-CA-C	5.37	116.82	111.07
1	1	670	GLN	N-CA-C	5.37	117.56	111.11
1	4	429	PHE	CA-CB-CG	5.37	119.17	113.80
1	a	121	ILE	N-CA-CB	5.37	118.44	111.67
1	b	380	MET	N-CA-C	5.37	117.14	111.28
1	f	697	TYR	CB-CA-C	5.37	119.98	110.85
1	i	425	LYS	N-CA-C	5.37	117.56	111.11
1	o	573	ARG	O-C-N	5.37	127.81	122.12
1	x	633	TYR	CB-CG-CD2	5.37	128.86	120.80
1	C	239	ARG	NE-CZ-NH2	-5.37	114.37	119.20
1	H	496	VAL	CB-CA-C	-5.37	104.79	111.08
1	J	214	THR	O-C-N	-5.37	117.04	123.27
1	J	546	ASN	CB-CG-ND2	-5.37	108.34	116.40
1	K	649	ILE	CB-CA-C	5.37	118.85	111.97
1	R	190	ILE	CA-C-N	5.37	127.42	120.44
1	R	190	ILE	C-N-CA	5.37	127.42	120.44
1	S	167	TRP	CA-CB-CG	5.37	123.80	113.60
1	S	307	VAL	CA-C-N	5.37	127.42	120.44
1	S	307	VAL	C-N-CA	5.37	127.42	120.44
1	X	156	VAL	N-CA-CB	5.37	117.44	110.99
1	X	674	ARG	N-CA-CB	-5.37	102.03	110.46
1	Y	560	HIS	CA-C-O	5.37	126.11	120.42
1	7	270	ILE	CA-C-N	5.37	127.47	120.28
1	7	270	ILE	C-N-CA	5.37	127.47	120.28
1	f	583	GLN	N-CA-C	5.37	122.24	110.80
1	q	506	HIS	CE1-NE2-CD2	-5.37	103.63	109.00
1	w	328	ARG	N-CA-CB	5.37	119.57	110.49
1	z	392	GLN	N-CA-C	5.37	117.89	111.71
1	z	550	GLN	CA-C-O	-5.37	114.03	120.10
1	D	332	GLU	N-CA-C	5.37	118.13	110.24
1	Y	556	ILE	CA-C-N	5.37	127.48	120.28
1	Y	556	ILE	C-N-CA	5.37	127.48	120.28
1	0	310	VAL	N-CA-C	5.37	115.57	110.42
1	2	454	ILE	O-C-N	-5.37	114.71	122.12
1	5	703	ARG	CA-C-N	5.37	127.47	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5	703	ARG	C-N-CA	5.37	127.47	120.28
1	b	325	VAL	N-CA-CB	5.37	119.53	112.60
1	c	99	PRO	CA-C-N	5.37	127.47	120.28
1	c	99	PRO	C-N-CA	5.37	127.47	120.28
1	f	406	ARG	N-CA-C	5.37	117.13	111.28
1	h	313	ASN	CA-C-N	5.37	130.25	122.36
1	h	313	ASN	C-N-CA	5.37	130.25	122.36
1	h	588	VAL	CA-CB-CG1	5.37	119.53	110.40
1	m	177	GLU	N-CA-C	5.37	117.38	108.20
1	m	481	GLU	CA-C-O	-5.37	113.80	119.97
1	m	696	ILE	CA-C-N	5.37	127.42	120.44
1	m	696	ILE	C-N-CA	5.37	127.42	120.44
1	o	696	ILE	N-CA-CB	5.37	117.44	110.57
1	p	108	ARG	NE-CZ-NH1	5.37	126.87	121.50
1	s	206	HIS	N-CA-CB	-5.37	102.41	110.73
1	v	152	ARG	NE-CZ-NH2	-5.37	114.37	119.20
1	w	101	ILE	N-CA-CB	5.37	116.83	110.55
1	x	545	LEU	CB-CA-C	5.37	119.23	110.96
1	A	224	ILE	CB-CA-C	5.37	118.51	111.53
1	A	443	VAL	CA-C-O	5.37	128.97	121.51
1	B	273	THR	CA-C-N	5.37	127.47	120.28
1	B	273	THR	C-N-CA	5.37	127.47	120.28
1	B	483	TYR	CB-CG-CD2	-5.37	112.75	120.80
1	C	453	LYS	O-C-N	-5.37	116.43	122.12
1	N	309	ASN	CB-CA-C	5.37	119.70	110.79
1	Q	689	ARG	NE-CZ-NH1	5.37	126.87	121.50
1	R	645	ILE	CA-C-N	5.37	125.19	119.28
1	R	645	ILE	C-N-CA	5.37	125.19	119.28
1	U	388	LEU	O-C-N	5.37	127.60	122.07
1	W	413	SER	O-C-N	-5.37	115.45	122.59
1	0	662	GLN	OE1-CD-NE2	-5.37	117.23	122.60
1	3	440	GLU	CA-C-N	5.37	128.85	120.75
1	3	440	GLU	C-N-CA	5.37	128.85	120.75
1	3	499	LYS	N-CA-CB	5.37	117.85	110.07
1	9	648	ILE	N-CA-CB	5.37	116.83	110.55
1	h	562	ALA	N-CA-CB	-5.37	102.22	110.16
1	l	268	VAL	CA-C-N	5.37	129.37	120.94
1	l	268	VAL	C-N-CA	5.37	129.37	120.94
1	u	191	HIS	CE1-NE2-CD2	-5.37	103.63	109.00
1	v	703	ARG	O-C-N	5.37	127.67	122.09
1	B	560	HIS	CB-CG-CD2	-5.37	124.22	131.20
1	I	220	ASP	CA-CB-CG	5.37	117.97	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	239	ARG	NH1-CZ-NH2	-5.37	112.32	119.30
1	O	542	PHE	O-C-N	-5.37	116.27	122.87
1	R	389	LEU	O-C-N	5.37	127.60	122.07
1	X	352	THR	N-CA-C	5.37	117.13	111.28
1	5	508	TYR	CA-C-O	-5.37	114.73	120.42
1	c	245	ILE	CA-C-N	5.37	127.78	120.54
1	c	245	ILE	C-N-CA	5.37	127.78	120.54
1	d	671	GLU	O-C-N	-5.37	116.96	123.13
1	f	267	ASN	OD1-CG-ND2	5.37	127.97	122.60
1	i	695	ARG	CA-C-O	5.37	126.24	120.55
1	l	383	GLN	O-C-N	-5.37	115.94	122.22
1	o	98	ARG	N-CA-C	5.37	120.22	113.25
1	r	280	HIS	N-CA-C	5.37	117.13	111.28
1	s	367	VAL	O-C-N	-5.37	114.98	121.10
1	w	223	ILE	CB-CA-C	5.37	118.61	110.62
1	C	401	THR	CA-C-O	5.37	126.45	120.82
1	G	254	GLN	OE1-CD-NE2	-5.37	117.23	122.60
1	G	666	MET	CG-SD-CE	-5.37	89.09	100.90
1	H	474	ASN	CA-CB-CG	-5.37	107.23	112.60
1	R	135	LEU	O-C-N	5.37	127.60	122.07
1	R	560	HIS	O-C-N	-5.37	115.06	122.46
1	R	591	LYS	CA-C-N	5.37	127.81	120.46
1	R	591	LYS	C-N-CA	5.37	127.81	120.46
1	S	217	GLU	CB-CA-C	-5.37	100.53	109.55
1	V	102	ASP	CA-CB-CG	-5.37	107.23	112.60
1	Y	625	GLU	N-CA-C	5.37	117.13	111.28
1	4	181	GLN	CA-C-N	5.36	127.94	120.65
1	4	181	GLN	C-N-CA	5.36	127.94	120.65
1	6	359	LEU	N-CA-C	5.36	117.55	111.11
1	d	530	ALA	O-C-N	-5.36	116.30	122.09
1	e	336	ARG	NE-CZ-NH2	-5.36	114.37	119.20
1	g	541	GLU	O-C-N	-5.36	115.06	122.46
1	j	526	ILE	CB-CA-C	-5.36	104.82	112.22
1	j	628	ILE	N-CA-C	5.36	116.14	110.72
1	k	394	ARG	CA-C-N	5.36	127.41	120.44
1	k	394	ARG	C-N-CA	5.36	127.41	120.44
1	l	349	PHE	N-CA-C	5.36	116.81	111.07
1	l	384	LYS	N-CA-C	5.36	119.08	112.54
1	l	696	ILE	CA-C-N	5.36	127.41	120.44
1	l	696	ILE	C-N-CA	5.36	127.41	120.44
1	s	379	ILE	CA-C-N	5.36	127.47	120.28
1	s	379	ILE	C-N-CA	5.36	127.47	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	s	546	ASN	N-CA-C	5.36	117.82	111.33
1	s	560	HIS	CA-C-O	5.36	126.10	120.42
1	t	629	HIS	CG-CD2-NE2	5.36	112.56	107.20
1	y	688	LYS	N-CA-CB	5.36	118.48	110.22
1	D	273	THR	O-C-N	-5.36	116.67	123.05
1	E	191	HIS	CB-CG-ND1	5.36	130.75	122.70
1	M	328	ARG	CD-NE-CZ	5.36	131.91	124.40
1	M	671	GLU	O-C-N	-5.36	116.04	123.12
1	O	129	SER	CA-C-N	5.36	130.12	121.00
1	O	129	SER	C-N-CA	5.36	130.12	121.00
1	O	147	SER	N-CA-CB	5.36	118.29	110.25
1	O	581	GLN	CB-CA-C	5.36	121.09	110.42
1	P	247	ALA	N-CA-C	5.36	117.13	111.28
1	P	466	ALA	CA-C-O	-5.36	114.73	120.42
1	S	269	ASP	CB-CA-C	5.36	118.62	109.72
1	X	674	ARG	NE-CZ-NH1	5.36	126.86	121.50
1	1	451	TYR	O-C-N	-5.36	116.44	122.12
1	4	316	TYR	CA-CB-CG	-5.36	104.25	113.90
1	5	559	LYS	N-CA-CB	5.36	118.09	110.16
1	e	370	LEU	N-CA-C	5.36	117.56	111.02
1	h	249	ILE	CA-C-N	5.36	127.73	120.38
1	h	249	ILE	C-N-CA	5.36	127.73	120.38
1	l	448	THR	CA-CB-CG2	5.36	119.62	110.50
1	l	695	ARG	CD-NE-CZ	-5.36	116.89	124.40
1	D	689	ARG	CA-C-N	5.36	127.41	120.44
1	D	689	ARG	C-N-CA	5.36	127.41	120.44
1	E	328	ARG	NE-CZ-NH2	-5.36	114.38	119.20
1	P	665	MET	N-CA-C	5.36	117.88	111.71
1	R	221	LEU	O-C-N	-5.36	117.62	123.52
1	3	431	GLN	CA-C-N	5.36	127.46	120.28
1	3	431	GLN	C-N-CA	5.36	127.46	120.28
1	c	542	PHE	CA-C-N	5.36	127.78	120.54
1	c	542	PHE	C-N-CA	5.36	127.78	120.54
1	g	687	THR	OG1-CB-CG2	-5.36	98.58	109.30
1	h	308	MET	CA-C-N	5.36	127.41	120.44
1	h	308	MET	C-N-CA	5.36	127.41	120.44
1	h	409	ALA	O-C-N	-5.36	115.46	122.59
1	p	200	ASN	O-C-N	-5.36	116.35	122.89
1	q	634	PHE	N-CA-CB	5.36	118.00	110.12
1	B	238	PRO	CA-C-N	5.36	131.35	121.70
1	B	238	PRO	C-N-CA	5.36	131.35	121.70
1	B	361	GLU	CA-C-N	5.36	128.00	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	361	GLU	C-N-CA	5.36	128.00	120.28
1	D	404	LEU	CA-C-N	5.36	127.41	120.44
1	D	404	LEU	C-N-CA	5.36	127.41	120.44
1	D	409	ALA	CA-C-N	5.36	131.35	121.70
1	D	409	ALA	C-N-CA	5.36	131.35	121.70
1	H	270	ILE	N-CA-C	5.36	115.57	110.42
1	J	228	GLY	O-C-N	-5.36	117.62	122.93
1	P	102	ASP	O-C-N	-5.36	115.68	122.27
1	U	186	VAL	CA-C-N	5.36	127.78	120.54
1	U	186	VAL	C-N-CA	5.36	127.78	120.54
1	U	200	ASN	CA-CB-CG	5.36	117.96	112.60
1	Y	287	ASP	N-CA-CB	-5.36	102.52	110.61
1	4	107	LEU	N-CA-CB	5.36	118.00	110.12
1	4	235	ASP	CB-CA-C	5.36	121.08	110.42
1	5	164	CYS	N-CA-C	5.36	117.45	110.43
1	b	678	LEU	O-C-N	-5.36	116.04	122.15
1	t	630	LEU	N-CA-C	5.36	117.54	111.11
1	u	482	LYS	O-C-N	-5.36	116.44	122.12
1	u	528	GLN	O-C-N	-5.36	115.68	122.27
1	H	210	SER	N-CA-CB	5.36	119.68	110.68
1	X	311	VAL	N-CA-C	5.36	115.57	110.53
1	2	198	ALA	O-C-N	-5.36	115.15	122.33
1	2	505	VAL	CA-C-N	5.36	127.77	120.54
1	2	505	VAL	C-N-CA	5.36	127.77	120.54
1	5	549	VAL	N-CA-CB	5.36	117.43	110.57
1	7	439	GLY	O-C-N	5.36	128.61	122.34
1	8	424	GLU	O-C-N	5.36	127.59	122.07
1	h	339	LEU	N-CA-C	5.36	117.12	111.28
1	h	507	GLN	O-C-N	-5.36	116.04	122.15
1	j	218	VAL	CA-C-N	5.36	126.11	120.11
1	j	218	VAL	C-N-CA	5.36	126.11	120.11
1	l	150	VAL	CA-C-N	5.36	128.71	121.05
1	l	150	VAL	C-N-CA	5.36	128.71	121.05
1	p	457	ASP	N-CA-C	5.36	117.12	111.28
1	p	640	ARG	CA-C-O	-5.36	114.87	120.55
1	r	542	PHE	O-C-N	-5.36	116.09	122.63
1	s	128	SER	N-CA-CB	5.36	119.28	110.39
1	w	492	LEU	N-CA-C	5.36	118.97	111.74
1	x	197	MET	CA-C-O	5.36	126.15	120.10
1	E	95	GLN	CA-C-O	-5.36	114.87	120.55
1	F	479	GLU	N-CA-C	5.36	117.81	111.33
1	H	414	GLN	CA-C-N	5.36	127.90	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	414	GLN	C-N-CA	5.36	127.90	120.29
1	J	307	VAL	CA-C-O	5.36	126.52	120.95
1	J	499	LYS	N-CA-C	5.36	117.12	111.28
1	N	278	MET	CG-SD-CE	-5.36	89.11	100.90
1	N	282	VAL	O-C-N	5.36	129.16	121.82
1	O	352	THR	CA-CB-OG1	5.36	117.64	109.60
1	Q	273	THR	CA-C-N	5.36	128.20	120.38
1	Q	273	THR	C-N-CA	5.36	128.20	120.38
1	Z	334	THR	CA-CB-OG1	5.36	117.64	109.60
1	0	643	ASN	CA-C-N	5.36	127.40	120.44
1	0	643	ASN	C-N-CA	5.36	127.40	120.44
1	3	305	LYS	CA-C-N	5.36	127.40	120.44
1	3	305	LYS	C-N-CA	5.36	127.40	120.44
1	3	373	ARG	N-CA-C	5.36	116.80	111.07
1	4	433	ILE	O-C-N	-5.36	116.67	121.87
1	5	452	ASN	CA-CB-CG	-5.36	107.24	112.60
1	b	251	LYS	CB-CA-C	5.36	119.68	110.79
1	e	180	LEU	O-C-N	-5.36	115.65	122.34
1	n	689	ARG	N-CA-C	5.36	117.12	111.28
1	s	475	ILE	N-CA-C	5.36	116.08	110.62
1	v	563	LYS	N-CA-CB	-5.36	102.24	110.01
1	C	279	ALA	N-CA-CB	-5.36	102.25	110.01
1	C	540	GLY	CA-C-N	5.36	127.40	120.44
1	C	540	GLY	C-N-CA	5.36	127.40	120.44
1	D	268	VAL	N-CA-C	5.36	118.24	109.78
1	F	554	GLU	CA-C-N	5.36	127.89	120.29
1	F	554	GLU	C-N-CA	5.36	127.89	120.29
1	G	568	ILE	O-C-N	-5.36	116.31	121.83
1	H	267	ASN	CB-CG-ND2	-5.36	108.37	116.40
1	H	700	THR	CA-C-O	5.36	126.10	120.42
1	J	241	ILE	N-CA-CB	5.36	116.81	110.55
1	L	469	THR	O-C-N	-5.36	115.95	122.22
1	P	522	LYS	N-CA-CB	5.36	117.78	110.01
1	Q	675	TYR	CB-CG-CD2	-5.36	112.77	120.80
1	S	665	MET	CA-C-O	5.36	125.97	119.38
1	U	252	TYR	N-CA-C	5.36	117.12	111.28
1	W	685	THR	CB-CA-C	-5.36	101.90	110.79
1	Y	164	CYS	N-CA-C	5.36	117.85	110.35
1	1	493	LEU	N-CA-CB	-5.35	103.68	112.25
1	7	280	HIS	CA-C-N	5.35	127.40	120.44
1	7	280	HIS	C-N-CA	5.35	127.40	120.44
1	8	400	ALA	CA-C-N	5.35	127.72	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8	400	ALA	C-N-CA	5.35	127.72	120.38
1	a	196	VAL	N-CA-CB	-5.35	104.29	110.55
1	d	212	GLU	CA-C-O	5.35	126.19	120.46
1	e	279	ALA	CA-C-N	5.35	127.45	120.28
1	e	279	ALA	C-N-CA	5.35	127.45	120.28
1	k	106	SER	CA-C-N	5.35	128.45	120.31
1	k	106	SER	C-N-CA	5.35	128.45	120.31
1	q	146	GLY	O-C-N	-5.35	117.03	122.60
1	q	328	ARG	NH1-CZ-NH2	-5.35	112.34	119.30
1	t	470	GLN	OE1-CD-NE2	-5.35	117.25	122.60
1	x	388	LEU	N-CA-C	5.35	116.81	110.97
1	M	591	LYS	N-CA-C	5.35	118.03	111.82
1	3	487	TYR	N-CA-C	5.35	117.11	111.28
1	7	588	VAL	N-CA-C	5.35	116.08	110.62
1	h	504	ILE	CA-C-O	5.35	126.52	120.85
1	h	689	ARG	CA-C-O	5.35	126.22	120.55
1	i	518	SER	O-C-N	-5.35	116.45	122.12
1	m	428	MET	N-CA-CB	5.35	117.77	110.01
1	o	586	SER	N-CA-C	5.35	117.86	111.71
1	p	446	ASN	OD1-CG-ND2	5.35	127.95	122.60
1	s	544	ASN	CA-C-O	5.35	126.21	120.70
1	t	394	ARG	NE-CZ-NH1	5.35	126.85	121.50
1	u	630	LEU	CA-C-N	5.35	127.45	120.28
1	u	630	LEU	C-N-CA	5.35	127.45	120.28
1	v	313	ASN	OD1-CG-ND2	-5.35	117.25	122.60
1	v	573	ARG	NE-CZ-NH2	-5.35	114.38	119.20
1	A	484	GLU	CA-C-N	5.35	131.08	121.66
1	A	484	GLU	C-N-CA	5.35	131.08	121.66
1	C	389	LEU	CA-C-N	5.35	127.77	120.54
1	C	389	LEU	C-N-CA	5.35	127.77	120.54
1	F	538	HIS	CB-CG-CD2	-5.35	124.24	131.20
1	H	469	THR	N-CA-C	5.35	117.81	111.33
1	I	206	HIS	ND1-CE1-NE2	5.35	113.75	108.40
1	I	629	HIS	CA-C-N	5.35	127.45	120.28
1	I	629	HIS	C-N-CA	5.35	127.45	120.28
1	L	129	SER	N-CA-CB	5.35	117.99	110.12
1	O	540	GLY	CA-C-O	-5.35	114.99	120.45
1	Q	352	THR	CA-C-N	5.35	129.05	121.61
1	Q	352	THR	C-N-CA	5.35	129.05	121.61
1	R	464	ILE	CA-C-O	-5.35	115.11	121.05
1	S	311	VAL	O-C-N	-5.35	116.32	121.83
1	T	493	LEU	CA-C-N	5.35	126.27	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	493	LEU	C-N-CA	5.35	126.27	120.44
1	d	363	GLY	CA-C-N	5.35	132.06	122.38
1	d	363	GLY	C-N-CA	5.35	132.06	122.38
1	h	596	ILE	N-CA-CB	5.35	116.81	110.55
1	j	442	VAL	N-CA-C	5.35	116.15	108.93
1	k	380	MET	N-CA-C	5.35	117.19	111.36
1	k	547	GLN	OE1-CD-NE2	-5.35	117.25	122.60
1	s	533	ASN	O-C-N	-5.35	116.45	122.12
1	u	393	ILE	CA-C-N	5.35	127.40	120.44
1	u	393	ILE	C-N-CA	5.35	127.40	120.44
1	v	110	LEU	CB-CA-C	-5.35	101.52	110.56
1	v	256	GLN	OE1-CD-NE2	5.35	127.95	122.60
1	H	297	ASP	N-CA-C	-5.35	106.76	113.72
1	S	116	LEU	O-C-N	-5.35	116.36	122.89
1	4	170	ARG	NE-CZ-NH1	5.35	126.85	121.50
1	5	437	VAL	N-CA-C	5.35	115.56	110.53
1	7	488	ARG	NH1-CZ-NH2	-5.35	112.34	119.30
1	7	640	ARG	O-C-N	-5.35	116.05	122.15
1	7	687	THR	CB-CA-C	-5.35	101.75	110.85
1	a	280	HIS	CA-CB-CG	5.35	119.15	113.80
1	a	428	MET	N-CA-C	5.35	117.80	111.33
1	a	578	VAL	CA-C-O	5.35	127.47	120.78
1	e	97	VAL	CA-C-N	5.35	126.78	120.09
1	e	97	VAL	C-N-CA	5.35	126.78	120.09
1	g	176	THR	OG1-CB-CG2	-5.35	98.60	109.30
1	g	274	GLU	CA-C-N	5.35	127.45	120.28
1	g	274	GLU	C-N-CA	5.35	127.45	120.28
1	i	135	LEU	CB-CA-C	-5.35	101.91	110.79
1	n	474	ASN	CA-C-N	5.35	127.30	120.56
1	n	474	ASN	C-N-CA	5.35	127.30	120.56
1	n	484	GLU	N-CA-CB	5.35	118.54	110.30
1	s	543	PHE	CA-C-N	5.35	127.72	120.44
1	s	543	PHE	C-N-CA	5.35	127.72	120.44
1	x	553	ILE	CA-C-O	-5.35	115.39	120.95
1	y	330	GLN	CA-C-N	5.35	128.44	120.31
1	y	330	GLN	C-N-CA	5.35	128.44	120.31
1	A	236	ASN	CA-CB-CG	-5.35	107.25	112.60
1	B	143	LEU	O-C-N	-5.35	116.54	121.30
1	B	385	SER	O-C-N	5.35	127.79	122.12
1	B	704	HIS	CG-CD2-NE2	5.35	112.55	107.20
1	L	400	ALA	CA-C-N	5.35	127.45	120.28
1	L	400	ALA	C-N-CA	5.35	127.45	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	695	ARG	NE-CZ-NH1	5.35	126.85	121.50
1	V	527	ILE	CA-C-N	5.35	127.45	120.28
1	V	527	ILE	C-N-CA	5.35	127.45	120.28
1	W	679	LEU	CA-C-N	5.35	128.31	120.71
1	W	679	LEU	C-N-CA	5.35	128.31	120.71
1	Y	332	GLU	N-CA-CB	-5.35	101.99	110.28
1	Z	287	ASP	CA-C-O	5.35	126.44	120.82
1	9	124	ILE	O-C-N	-5.35	117.48	123.26
1	d	130	GLY	CA-C-N	5.35	127.98	120.28
1	d	130	GLY	C-N-CA	5.35	127.98	120.28
1	d	375	THR	CA-C-N	5.35	127.39	120.44
1	d	375	THR	C-N-CA	5.35	127.39	120.44
1	f	174	ARG	CG-CD-NE	-5.35	100.23	112.00
1	h	349	PHE	O-C-N	-5.35	116.56	122.07
1	j	399	LYS	N-CA-C	5.35	117.19	111.36
1	k	521	GLN	N-CA-C	5.35	117.11	111.28
1	p	581	GLN	CA-C-N	5.35	127.98	120.28
1	p	581	GLN	C-N-CA	5.35	127.98	120.28
1	t	260	ASN	O-C-N	-5.35	116.98	123.13
1	t	674	ARG	NE-CZ-NH2	-5.35	114.39	119.20
1	u	636	GLU	N-CA-C	5.35	117.11	111.28
1	w	707	CYS	CB-CA-C	-5.35	100.91	110.70
1	x	183	PRO	O-C-N	-5.35	115.42	122.64
1	z	509	ILE	N-CA-CB	5.35	118.60	110.58
1	B	221	LEU	N-CA-C	5.35	116.85	109.15
1	F	108	ARG	NE-CZ-NH1	5.35	126.85	121.50
1	K	222	THR	CA-C-N	5.35	130.49	122.58
1	K	222	THR	C-N-CA	5.35	130.49	122.58
1	K	244	GLN	CA-C-N	5.35	127.40	120.56
1	K	244	GLN	C-N-CA	5.35	127.40	120.56
1	T	564	ALA	CA-C-N	5.35	127.39	120.44
1	T	564	ALA	C-N-CA	5.35	127.39	120.44
1	T	660	SER	N-CA-CB	5.35	118.57	110.28
1	V	171	ILE	N-CA-C	5.35	116.18	108.48
1	V	577	MET	CA-C-O	5.35	126.78	120.58
1	W	116	LEU	N-CA-C	5.35	118.56	110.64
1	W	342	ALA	CA-C-N	5.35	127.76	120.54
1	W	342	ALA	C-N-CA	5.35	127.76	120.54
1	7	143	LEU	O-C-N	-5.35	115.93	121.28
1	b	543	PHE	N-CA-CB	-5.35	102.25	110.16
1	c	280	HIS	N-CA-C	5.35	117.11	111.28
1	i	654	LEU	CA-C-N	5.35	127.76	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	i	654	LEU	C-N-CA	5.35	127.76	120.54
1	i	686	ALA	CA-C-N	5.35	127.39	120.44
1	i	686	ALA	C-N-CA	5.35	127.39	120.44
1	l	710	SER	N-CA-CB	5.35	117.94	110.56
1	n	362	GLU	O-C-N	-5.35	114.99	122.37
1	o	213	ILE	CA-CB-CG1	5.35	119.49	110.40
1	w	331	GLN	O-C-N	-5.35	115.17	122.33
1	I	696	ILE	N-CA-C	5.35	116.07	110.62
1	M	650	GLN	CA-C-N	5.35	127.71	120.65
1	M	650	GLN	C-N-CA	5.35	127.71	120.65
1	R	533	ASN	CA-C-N	5.35	127.30	120.56
1	R	533	ASN	C-N-CA	5.35	127.30	120.56
1	Y	692	LEU	N-CA-C	5.35	116.79	111.07
1	1	493	LEU	CA-C-O	5.34	127.76	121.40
1	2	337	LEU	N-CA-C	5.34	118.19	110.28
1	4	124	ILE	O-C-N	-5.34	117.53	123.20
1	4	549	VAL	N-CA-C	5.34	115.55	110.42
1	9	450	LEU	O-C-N	-5.34	116.45	122.12
1	m	394	ARG	CA-C-N	5.34	127.44	120.28
1	m	394	ARG	C-N-CA	5.34	127.44	120.28
1	m	442	VAL	CA-C-O	-5.34	117.98	122.63
1	p	103	LEU	N-CA-C	5.34	117.52	111.11
1	p	477	HIS	CB-CG-ND1	5.34	130.72	122.70
1	p	530	ALA	CB-CA-C	5.34	119.66	110.79
1	r	530	ALA	N-CA-C	5.34	117.11	111.28
1	u	294	THR	O-C-N	-5.34	116.99	123.03
1	v	149	ILE	CA-CB-CG1	5.34	119.49	110.40
1	z	297	ASP	N-CA-C	5.34	117.52	111.11
1	z	492	LEU	CA-C-O	5.34	128.15	120.51
1	D	458	PHE	CA-C-N	5.34	127.44	120.28
1	D	458	PHE	C-N-CA	5.34	127.44	120.28
1	F	645	ILE	CA-C-O	-5.34	115.11	118.69
1	H	303	THR	N-CA-C	5.34	116.79	111.07
1	H	353	HIS	ND1-CG-CD2	-5.34	100.75	106.10
1	M	323	MET	CA-C-N	5.34	130.21	123.10
1	M	323	MET	C-N-CA	5.34	130.21	123.10
1	N	110	LEU	N-CA-C	-5.34	106.76	113.28
1	T	156	VAL	N-CA-CB	5.34	116.36	110.53
1	U	355	TYR	CB-CA-C	5.34	119.19	110.96
1	U	701	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	W	694	GLU	N-CA-C	5.34	117.11	111.28
1	X	508	TYR	O-C-N	5.34	127.80	122.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	423	ILE	N-CA-CB	5.34	117.81	110.54
1	e	286	GLY	O-C-N	-5.34	116.20	122.45
1	B	709	PHE	N-CA-C	5.34	117.10	111.28
1	I	708	GLN	N-CA-C	5.34	116.79	111.07
1	P	710	SER	N-CA-C	5.34	118.55	110.64
1	R	151	THR	N-CA-C	5.34	122.18	110.80
1	V	167	TRP	CB-CA-C	5.34	118.37	110.14
1	0	267	ASN	OD1-CG-ND2	-5.34	117.26	122.60
1	0	496	VAL	O-C-N	-5.34	117.03	122.75
1	9	389	LEU	N-CA-C	5.34	116.78	111.07
1	9	390	GLU	O-C-N	-5.34	116.57	122.07
1	f	410	ASP	O-C-N	-5.34	114.45	123.00
1	f	531	PHE	CB-CG-CD1	5.34	129.78	120.70
1	g	162	GLN	CA-C-N	5.34	126.52	119.84
1	g	162	GLN	C-N-CA	5.34	126.52	119.84
1	g	489	GLY	CA-C-O	5.34	126.77	121.00
1	h	582	ASP	CA-CB-CG	5.34	117.94	112.60
1	j	355	TYR	N-CA-C	5.34	117.10	111.28
1	j	414	GLN	CA-C-N	5.34	127.44	120.28
1	j	414	GLN	C-N-CA	5.34	127.44	120.28
1	p	387	PRO	N-CA-CB	5.34	108.86	103.25
1	s	684	GLU	N-CA-C	5.34	116.78	111.07
1	w	205	SER	O-C-N	-5.34	117.30	123.33
1	y	568	ILE	CB-CA-C	5.34	118.72	111.88
1	y	655	ARG	NE-CZ-NH1	5.34	126.84	121.50
1	D	477	HIS	CE1-NE2-CD2	-5.34	103.66	109.00
1	K	480	VAL	N-CA-C	5.34	116.07	110.62
1	M	239	ARG	CA-C-N	5.34	131.31	121.70
1	M	239	ARG	C-N-CA	5.34	131.31	121.70
1	M	597	PHE	CA-CB-CG	-5.34	108.46	113.80
1	P	100	CYS	CA-C-N	5.34	127.78	120.46
1	P	100	CYS	C-N-CA	5.34	127.78	120.46
1	Q	436	LEU	CA-C-O	5.34	126.43	120.82
1	T	545	LEU	CA-C-N	5.34	127.44	120.28
1	T	545	LEU	C-N-CA	5.34	127.44	120.28
1	V	227	PRO	CB-CA-C	5.34	118.34	111.56
1	V	706	LEU	O-C-N	-5.34	116.06	122.15
1	X	634	PHE	N-CA-C	5.34	117.79	111.33
1	Y	482	LYS	CA-C-N	5.34	127.70	120.65
1	Y	482	LYS	C-N-CA	5.34	127.70	120.65
1	Z	650	GLN	N-CA-C	5.34	117.52	111.11
1	1	527	ILE	N-CA-C	5.34	115.55	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	564	ALA	CA-C-N	5.34	127.69	120.38
1	1	564	ALA	C-N-CA	5.34	127.69	120.38
1	2	119	PRO	N-CA-CB	5.34	108.00	103.19
1	3	503	ILE	N-CA-C	5.34	115.97	110.36
1	8	248	LEU	CA-C-N	5.34	128.06	120.53
1	8	248	LEU	C-N-CA	5.34	128.06	120.53
1	8	280	HIS	ND1-CG-CD2	5.34	111.44	106.10
1	h	355	TYR	CA-C-N	5.34	127.44	120.28
1	h	355	TYR	C-N-CA	5.34	127.44	120.28
1	i	486	GLN	CA-C-N	5.34	127.44	120.28
1	i	486	GLN	C-N-CA	5.34	127.44	120.28
1	s	456	GLU	O-C-N	-5.34	116.06	122.15
1	s	566	ASN	O-C-N	5.34	127.78	122.12
1	s	667	GLN	N-CA-C	5.34	117.85	111.71
1	x	191	HIS	N-CA-C	-5.34	105.36	111.07
1	z	592	VAL	CA-C-N	5.34	127.38	120.44
1	z	592	VAL	C-N-CA	5.34	127.38	120.44
1	B	303	THR	N-CA-CB	5.34	118.06	110.16
1	B	708	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	F	231	ARG	CA-C-N	5.34	130.69	122.68
1	F	231	ARG	C-N-CA	5.34	130.69	122.68
1	I	210	SER	CB-CA-C	-5.34	102.00	110.81
1	N	587	VAL	O-C-N	-5.34	116.68	121.91
1	O	175	ASN	OD1-CG-ND2	5.34	127.94	122.60
1	P	290	ILE	O-C-N	-5.34	117.49	123.26
1	S	380	MET	O-C-N	-5.34	116.46	122.12
1	V	704	HIS	ND1-CE1-NE2	5.34	113.74	108.40
1	X	195	ASN	O-C-N	5.34	127.78	122.12
1	2	420	PHE	CB-CG-CD2	-5.34	111.62	120.70
1	3	390	GLU	CB-CG-CD	5.34	121.67	112.60
1	4	586	SER	CA-C-O	-5.34	114.89	120.55
1	a	665	MET	CG-SD-CE	-5.34	89.16	100.90
1	h	504	ILE	N-CA-C	5.34	116.11	110.72
1	k	381	HIS	N-CA-CB	5.34	117.75	110.01
1	l	440	GLU	CA-C-N	5.34	128.29	120.71
1	l	440	GLU	C-N-CA	5.34	128.29	120.71
1	m	668	ILE	CB-CG1-CD1	5.34	125.01	113.80
1	m	686	ALA	CB-CA-C	-5.34	102.27	110.81
1	w	695	ARG	NE-CZ-NH1	5.34	126.84	121.50
1	y	705	ALA	CA-C-N	5.34	128.42	120.31
1	y	705	ALA	C-N-CA	5.34	128.42	120.31
1	A	187	GLU	N-CA-C	5.34	116.78	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	708	GLN	CA-C-N	5.34	127.43	120.28
1	B	708	GLN	C-N-CA	5.34	127.43	120.28
1	G	486	GLN	N-CA-C	5.34	117.29	108.48
1	Q	683	SER	N-CA-CB	5.34	118.52	110.30
1	R	264	VAL	CA-CB-CG1	-5.34	101.33	110.40
1	X	674	ARG	CA-C-N	5.34	127.43	120.28
1	X	674	ARG	C-N-CA	5.34	127.43	120.28
1	1	401	THR	N-CA-C	5.34	117.51	111.11
1	7	528	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	8	284	PRO	CA-C-N	5.34	130.48	121.14
1	8	284	PRO	C-N-CA	5.34	130.48	121.14
1	a	289	THR	CA-C-O	5.34	126.09	120.54
1	g	313	ASN	N-CA-CB	-5.34	102.08	110.30
1	p	657	ASN	CA-C-O	5.34	126.09	119.79
1	q	374	LEU	N-CA-C	-5.34	105.38	111.14
1	r	526	ILE	CA-C-O	-5.34	115.40	120.95
1	t	506	HIS	ND1-CE1-NE2	5.34	113.74	108.40
1	C	108	ARG	NH1-CZ-NH2	-5.34	112.36	119.30
1	C	259	ILE	N-CA-CB	5.34	116.35	110.53
1	I	320	LYS	CA-C-O	5.34	126.25	119.95
1	L	266	CYS	CA-C-N	5.34	131.34	121.52
1	L	266	CYS	C-N-CA	5.34	131.34	121.52
1	P	301	ARG	O-C-N	-5.34	117.08	123.06
1	R	112	VAL	N-CA-CB	5.34	120.57	111.50
1	0	444	ARG	CB-CG-CD	5.33	123.57	111.30
1	6	507	GLN	N-CA-C	5.33	116.78	111.07
1	c	497	ASN	CA-C-N	5.33	127.38	120.44
1	c	497	ASN	C-N-CA	5.33	127.38	120.44
1	g	645	ILE	O-C-N	-5.33	115.02	121.10
1	i	681	GLU	O-C-N	-5.33	115.69	122.78
1	l	381	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	o	534	VAL	N-CA-C	5.33	115.54	110.42
1	D	356	PHE	CA-CB-CG	-5.33	108.47	113.80
1	H	328	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	K	369	ARG	O-C-N	-5.33	115.90	122.25
1	L	494	GLY	CA-C-N	5.33	131.30	121.70
1	L	494	GLY	C-N-CA	5.33	131.30	121.70
1	P	583	GLN	CA-C-N	5.33	129.37	120.62
1	P	583	GLN	C-N-CA	5.33	129.37	120.62
1	W	270	ILE	N-CA-C	5.33	115.54	110.42
1	W	395	GLU	N-CA-C	5.33	117.51	111.11
1	1	294	THR	O-C-N	-5.33	116.22	123.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	8	497	ASN	OD1-CG-ND2	-5.33	117.27	122.60
1	b	101	ILE	CA-CB-CG1	5.33	119.47	110.40
1	c	514	GLU	CA-C-N	5.33	124.84	119.19
1	c	514	GLU	C-N-CA	5.33	124.84	119.19
1	e	536	LYS	N-CA-C	5.33	117.09	111.28
1	f	432	ASP	CA-C-O	5.33	126.10	119.97
1	g	234	VAL	CA-C-N	5.33	127.74	120.54
1	g	234	VAL	C-N-CA	5.33	127.74	120.54
1	j	555	ASP	CA-CB-CG	5.33	117.93	112.60
1	t	351	GLN	CB-CG-CD	5.33	121.67	112.60
1	v	329	GLY	N-CA-C	5.33	118.53	111.70
1	z	123	VAL	N-CA-C	5.33	115.78	107.99
1	B	440	GLU	CA-C-O	5.33	125.06	119.03
1	D	436	LEU	O-C-N	5.33	127.56	122.07
1	E	697	TYR	CA-C-N	5.33	127.37	120.44
1	E	697	TYR	C-N-CA	5.33	127.37	120.44
1	F	293	LEU	CA-C-O	5.33	126.24	120.43
1	N	336	ARG	CB-CA-C	5.33	117.47	110.06
1	N	577	MET	CG-SD-CE	-5.33	89.17	100.90
1	V	631	ASN	CA-C-N	5.33	127.74	120.54
1	V	631	ASN	C-N-CA	5.33	127.74	120.54
1	V	673	ASN	CA-CB-CG	5.33	117.93	112.60
1	W	455	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	W	496	VAL	O-C-N	-5.33	116.97	122.63
1	Z	205	SER	O-C-N	-5.33	116.68	123.24
1	2	270	ILE	CB-CA-C	-5.33	104.94	112.14
1	6	472	VAL	O-C-N	-5.33	116.20	122.07
1	6	537	LYS	CB-CA-C	-5.33	101.58	110.81
1	7	538	HIS	N-CA-CB	5.33	117.80	110.07
1	9	175	ASN	CA-CB-CG	-5.33	107.27	112.60
1	a	296	PRO	N-CA-CB	-5.33	98.39	103.51
1	a	553	ILE	N-CA-C	5.33	115.96	110.36
1	e	283	ASP	CA-C-O	-5.33	116.33	121.34
1	f	190	ILE	CA-C-N	5.33	127.69	120.38
1	f	190	ILE	C-N-CA	5.33	127.69	120.38
1	r	309	ASN	CA-CB-CG	5.33	117.93	112.60
1	s	539	PHE	CA-C-N	5.33	125.90	119.98
1	s	539	PHE	C-N-CA	5.33	125.90	119.98
1	t	635	LEU	O-C-N	5.33	127.63	122.09
1	w	204	ILE	N-CA-C	5.33	120.43	109.34
1	w	455	ARG	O-C-N	-5.33	116.47	122.12
1	x	174	ARG	CG-CD-NE	-5.33	100.27	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	112	VAL	CA-C-N	5.33	127.37	120.44
1	M	112	VAL	C-N-CA	5.33	127.37	120.44
1	M	251	LYS	CA-C-O	5.33	126.13	120.10
1	N	652	PHE	CA-C-O	-5.33	115.20	120.80
1	O	519	MET	N-CA-C	5.33	117.09	111.28
1	R	350	PHE	N-CA-C	5.33	117.09	111.28
1	T	204	ILE	O-C-N	-5.33	116.89	122.81
1	T	290	ILE	N-CA-CB	5.33	119.30	111.52
1	X	354	PRO	N-CA-C	-5.33	107.47	114.03
1	5	550	GLN	CA-C-N	5.33	127.42	120.28
1	5	550	GLN	C-N-CA	5.33	127.42	120.28
1	7	465	LEU	N-CA-CB	-5.33	102.28	110.12
1	b	692	LEU	N-CA-C	5.33	117.78	111.33
1	i	558	VAL	N-CA-CB	-5.33	102.58	110.58
1	m	471	LYS	CA-C-O	-5.33	114.90	120.55
1	v	137	ALA	N-CA-C	5.33	116.77	111.07
1	B	591	LYS	N-CA-C	5.33	116.77	111.07
1	C	194	GLN	OE1-CD-NE2	-5.33	117.27	122.60
1	H	481	GLU	CA-C-N	5.33	127.37	120.44
1	H	481	GLU	C-N-CA	5.33	127.37	120.44
1	M	332	GLU	CA-C-O	5.33	126.07	120.42
1	3	256	GLN	N-CA-C	5.33	117.50	111.11
1	7	552	THR	N-CA-CB	5.33	118.05	110.16
1	7	559	LYS	N-CA-C	5.33	116.77	111.07
1	9	641	LEU	N-CA-C	5.33	118.00	111.82
1	a	383	GLN	N-CA-CB	5.33	117.88	109.94
1	g	700	THR	CA-CB-CG2	5.33	119.56	110.50
1	v	505	VAL	N-CA-CB	5.33	116.78	110.55
1	w	256	GLN	OE1-CD-NE2	-5.33	117.27	122.60
1	L	507	GLN	N-CA-C	5.33	117.17	111.36
1	P	462	VAL	CA-C-N	5.33	125.86	120.00
1	P	462	VAL	C-N-CA	5.33	125.86	120.00
1	P	505	VAL	CA-C-N	5.33	127.69	120.44
1	P	505	VAL	C-N-CA	5.33	127.69	120.44
1	Q	496	VAL	N-CA-C	5.33	120.42	109.34
1	Q	568	ILE	N-CA-CB	5.33	117.79	110.54
1	U	675	TYR	CA-C-O	-5.33	115.41	121.00
1	X	698	ARG	CB-CG-CD	5.33	123.55	111.30
1	Y	226	LEU	CB-CA-C	5.33	116.76	108.61
1	1	552	THR	CA-C-N	5.33	127.27	120.56
1	1	552	THR	C-N-CA	5.33	127.27	120.56
1	9	148	GLY	N-CA-C	-5.33	108.34	115.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	9	380	MET	N-CA-C	-5.33	105.52	112.23
1	a	590	LYS	CG-CD-CE	5.33	123.55	111.30
1	h	477	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	l	398	GLN	OE1-CD-NE2	-5.33	117.27	122.60
1	p	373	ARG	N-CA-C	5.33	117.09	111.28
1	q	461	TRP	CE2-CD2-CE3	5.33	124.13	118.80
1	q	700	THR	CA-C-N	5.33	127.37	120.44
1	q	700	THR	C-N-CA	5.33	127.37	120.44
1	r	682	GLN	N-CA-C	5.33	120.11	111.37
1	t	572	PHE	CB-CA-C	5.33	119.63	110.79
1	w	569	GLN	CB-CA-C	-5.33	101.80	110.85
1	B	671	GLU	O-C-N	-5.33	115.92	123.01
1	C	326	LYS	O-C-N	-5.33	116.45	123.16
1	C	347	ILE	CA-C-O	5.33	126.50	120.85
1	F	109	ALA	CA-C-N	5.33	131.72	122.56
1	F	109	ALA	C-N-CA	5.33	131.72	122.56
1	I	307	VAL	O-C-N	-5.33	116.70	121.87
1	K	408	GLY	O-C-N	-5.33	117.56	123.05
1	S	481	GLU	O-C-N	-5.33	116.47	122.12
1	S	500	THR	N-CA-CB	5.33	117.95	110.12
1	5	552	THR	N-CA-C	-5.33	105.39	111.14
1	8	99	PRO	CB-CA-C	5.33	120.35	111.56
1	8	397	HIS	N-CA-CB	-5.33	102.28	110.16
1	k	398	GLN	N-CA-CB	5.33	117.73	110.01
1	m	239	ARG	N-CA-CB	-5.33	102.65	110.85
1	m	374	LEU	CA-C-N	5.33	127.73	120.54
1	m	374	LEU	C-N-CA	5.33	127.73	120.54
1	n	506	HIS	N-CA-C	5.33	116.77	111.07
1	t	449	ARG	CD-NE-CZ	5.33	131.85	124.40
1	z	145	ARG	N-CA-C	-5.33	99.45	110.80
1	D	107	LEU	O-C-N	-5.33	116.55	122.09
1	I	278	MET	CA-C-O	5.33	126.20	120.55
1	J	207	GLU	N-CA-C	5.33	117.59	110.35
1	L	245	ILE	O-C-N	-5.33	116.70	121.87
1	M	411	ILE	N-CA-C	5.33	120.38	108.88
1	Q	193	ALA	O-C-N	-5.33	116.47	122.12
1	R	261	LEU	CA-C-O	5.33	126.16	120.46
1	U	206	HIS	CG-CD2-NE2	5.33	112.53	107.20
1	V	267	ASN	CA-CB-CG	5.33	117.92	112.60
1	2	109	ALA	N-CA-C	5.32	118.24	111.69
1	3	589	LEU	O-C-N	-5.32	115.99	122.22
1	4	412	PRO	CA-C-N	5.32	131.71	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	412	PRO	C-N-CA	5.32	131.71	121.54
1	7	449	ARG	CA-CB-CG	-5.32	103.45	114.10
1	8	174	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	8	461	TRP	N-CA-C	5.32	117.50	111.11
1	9	294	THR	N-CA-C	5.32	116.37	108.86
1	9	381	HIS	N-CA-C	5.32	117.77	111.33
1	a	392	GLN	O-C-N	-5.32	116.48	122.12
1	d	134	VAL	CB-CA-C	-5.32	105.16	111.97
1	f	237	GLN	CA-C-N	5.32	126.49	119.84
1	f	237	GLN	C-N-CA	5.32	126.49	119.84
1	n	157	LEU	CA-C-O	5.32	125.99	120.40
1	r	432	ASP	CA-C-O	5.32	126.07	119.79
1	u	349	PHE	O-C-N	-5.32	116.48	122.12
1	C	348	THR	O-C-N	-5.32	116.48	122.12
1	D	165	GLU	O-C-N	-5.32	116.32	122.87
1	E	693	LYS	O-C-N	-5.32	116.34	122.09
1	G	588	VAL	CA-CB-CG2	-5.32	101.35	110.40
1	I	586	SER	N-CA-CB	5.32	117.73	110.01
1	J	708	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	K	533	ASN	OD1-CG-ND2	-5.32	117.28	122.60
1	M	214	THR	CB-CA-C	5.32	118.66	110.62
1	N	568	ILE	CA-CB-CG2	5.32	119.55	110.50
1	O	215	SER	CA-C-O	-5.32	115.20	120.26
1	P	386	LEU	CA-C-O	-5.32	113.17	118.34
1	Q	374	LEU	CA-C-N	5.32	127.73	120.54
1	Q	374	LEU	C-N-CA	5.32	127.73	120.54
1	U	256	GLN	N-CA-C	5.32	119.26	112.87
1	U	479	GLU	N-CA-C	5.32	116.77	111.07
1	X	632	ALA	N-CA-C	5.32	117.50	111.11
1	Y	510	GLN	CA-C-O	5.32	126.19	120.55
1	5	432	ASP	N-CA-C	5.32	117.50	111.11
1	r	432	ASP	O-C-N	-5.32	115.20	122.33
1	u	482	LYS	N-CA-C	5.32	117.08	111.28
1	z	532	ILE	CB-CA-C	5.32	119.33	112.14
1	B	655	ARG	CB-CG-CD	5.32	123.54	111.30
1	E	227	PRO	O-C-N	-5.32	116.13	122.89
1	Q	124	ILE	CA-C-N	5.32	129.19	120.51
1	Q	124	ILE	C-N-CA	5.32	129.19	120.51
1	R	640	ARG	O-C-N	-5.32	116.59	122.07
1	1	467	THR	N-CA-CB	5.32	118.03	110.16
1	2	339	LEU	CA-C-N	5.32	127.41	120.28
1	2	339	LEU	C-N-CA	5.32	127.41	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3	583	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	9	210	SER	CA-CB-OG	5.32	121.74	111.10
1	b	687	THR	CA-C-N	5.32	127.41	120.28
1	b	687	THR	C-N-CA	5.32	127.41	120.28
1	f	698	ARG	CA-C-N	5.32	127.41	120.28
1	f	698	ARG	C-N-CA	5.32	127.41	120.28
1	g	689	ARG	CA-C-N	5.32	127.84	120.29
1	g	689	ARG	C-N-CA	5.32	127.84	120.29
1	j	114	GLN	OE1-CD-NE2	5.32	127.92	122.60
1	l	471	LYS	CA-C-N	5.32	127.27	120.56
1	l	471	LYS	C-N-CA	5.32	127.27	120.56
1	l	499	LYS	O-C-N	-5.32	116.08	122.15
1	m	554	GLU	N-CA-C	5.32	116.76	111.07
1	o	101	ILE	CA-C-O	5.32	126.48	120.95
1	q	532	ILE	N-CA-C	5.32	116.69	110.62
1	q	549	VAL	N-CA-C	5.32	115.53	110.42
1	r	486	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	t	679	LEU	N-CA-CB	5.32	117.90	110.56
1	x	150	VAL	CB-CA-C	5.32	120.02	111.29
1	z	691	ILE	CA-C-N	5.32	127.41	120.28
1	z	691	ILE	C-N-CA	5.32	127.41	120.28
1	E	426	ILE	N-CA-C	5.32	116.05	110.62
1	I	435	LYS	CA-C-N	5.32	127.41	120.28
1	I	435	LYS	C-N-CA	5.32	127.41	120.28
1	K	441	GLU	CB-CG-CD	5.32	121.65	112.60
1	N	239	ARG	NE-CZ-NH2	-5.32	114.41	119.20
1	P	267	ASN	N-CA-C	5.32	117.16	111.36
1	R	320	LYS	N-CA-CB	-5.32	102.62	110.49
1	W	202	ARG	CA-CB-CG	5.32	124.74	114.10
1	Y	444	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	Z	535	ALA	N-CA-C	5.32	117.16	111.36
1	3	401	THR	CA-CB-CG2	5.32	119.54	110.50
1	3	527	ILE	N-CA-C	5.32	116.05	110.62
1	4	295	LYS	N-CA-C	5.32	121.56	109.81
1	c	94	GLU	CA-C-O	5.32	124.99	119.14
1	c	112	VAL	CA-C-O	-5.32	114.52	120.95
1	m	108	ARG	CA-C-N	5.32	131.32	122.54
1	m	108	ARG	C-N-CA	5.32	131.32	122.54
1	t	123	VAL	N-CA-C	5.32	115.75	107.99
1	H	330	GLN	CG-CD-NE2	5.32	124.38	116.40
1	L	680	GLN	N-CA-C	5.32	122.13	110.80
1	N	176	THR	CA-CB-CG2	-5.32	101.46	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	472	VAL	CA-C-N	5.32	127.67	120.38
1	Q	472	VAL	C-N-CA	5.32	127.67	120.38
1	S	655	ARG	CB-CA-C	-5.32	102.53	110.88
1	T	369	ARG	N-CA-CB	-5.32	102.78	110.70
1	0	370	LEU	N-CA-C	5.32	116.77	110.97
1	6	348	THR	N-CA-CB	5.32	117.72	110.01
1	6	434	GLU	N-CA-C	5.32	119.61	113.18
1	6	664	ALA	CA-C-O	-5.32	115.24	120.82
1	d	248	LEU	O-C-N	-5.32	116.48	122.12
1	e	655	ARG	NE-CZ-NH2	-5.32	114.42	119.20
1	g	406	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	i	206	HIS	ND1-CE1-NE2	5.32	113.72	108.40
1	t	623	PHE	O-C-N	-5.32	115.73	122.27
1	v	201	GLY	N-CA-C	5.32	120.93	111.73
1	w	369	ARG	N-CA-C	5.32	119.46	112.92
1	x	222	THR	CA-CB-OG1	5.32	117.58	109.60
1	B	498	TYR	CA-C-O	5.32	126.09	119.97
1	E	98	ARG	N-CA-CB	5.32	117.77	110.11
1	J	185	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	J	200	ASN	OD1-CG-ND2	-5.32	117.28	122.60
1	K	280	HIS	ND1-CE1-NE2	5.32	113.72	108.40
1	N	413	SER	CA-C-N	5.32	128.78	120.75
1	N	413	SER	C-N-CA	5.32	128.78	120.75
1	P	260	ASN	OD1-CG-ND2	-5.32	117.28	122.60
1	Q	414	GLN	N-CA-C	5.32	116.95	110.41
1	R	335	ASN	N-CA-C	5.32	117.15	110.24
1	U	118	LEU	CA-C-O	5.32	124.57	120.48
1	W	113	GLU	O-C-N	-5.32	115.30	122.43
1	1	449	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	3	640	ARG	O-C-N	5.32	127.83	122.09
1	5	381	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
1	9	149	ILE	N-CA-C	5.32	116.26	109.30
1	a	328	ARG	CA-C-N	5.32	125.15	120.10
1	a	328	ARG	C-N-CA	5.32	125.15	120.10
1	d	127	GLN	CA-CB-CG	5.32	124.73	114.10
1	h	452	ASN	N-CA-C	5.32	117.07	111.28
1	h	597	PHE	N-CA-CB	-5.32	102.36	110.33
1	k	398	GLN	O-C-N	-5.32	116.59	122.07
1	n	491	GLU	O-C-N	-5.32	115.53	122.39
1	o	265	PRO	CA-C-N	5.32	127.40	120.28
1	o	265	PRO	C-N-CA	5.32	127.40	120.28
1	o	314	LEU	CB-CA-C	-5.32	104.74	111.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	o	672	LYS	N-CA-C	5.32	117.08	111.28
1	t	401	THR	N-CA-C	5.32	116.76	111.07
1	t	588	VAL	N-CA-C	5.32	115.94	110.36
1	u	167	TRP	CB-CG-CD2	-5.32	119.36	126.80
1	D	497	ASN	CB-CA-C	5.32	121.00	110.42
1	D	575	GLU	CA-C-N	5.32	129.10	120.60
1	D	575	GLU	C-N-CA	5.32	129.10	120.60
1	I	493	LEU	CA-C-O	5.32	128.67	122.03
1	Q	351	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	T	558	VAL	CA-CB-CG2	5.32	119.44	110.40
1	W	236	ASN	OD1-CG-ND2	-5.32	117.28	122.60
1	Z	281	GLU	O-C-N	-5.32	116.56	122.09
1	7	170	ARG	NE-CZ-NH1	5.31	126.81	121.50
1	m	446	ASN	CA-C-N	5.31	128.63	120.82
1	m	446	ASN	C-N-CA	5.31	128.63	120.82
1	I	306	SER	N-CA-C	5.31	116.76	111.07
1	M	238	PRO	CA-C-N	5.31	128.77	120.75
1	M	238	PRO	C-N-CA	5.31	128.77	120.75
1	O	189	GLU	N-CA-C	5.31	117.49	111.11
1	V	361	GLU	CA-C-O	5.31	126.11	120.10
1	0	325	VAL	CA-C-N	5.31	128.89	121.24
1	0	325	VAL	C-N-CA	5.31	128.89	121.24
1	2	529	GLN	OE1-CD-NE2	-5.31	117.29	122.60
1	4	152	ARG	NE-CZ-NH2	5.31	123.98	119.20
1	4	287	ASP	O-C-N	-5.31	116.60	122.07
1	e	178	LEU	N-CA-C	5.31	117.74	108.76
1	k	459	LYS	N-CA-C	5.31	117.76	111.33
1	m	590	LYS	CA-C-O	5.31	126.87	120.92
1	u	642	ALA	N-CA-C	5.31	119.02	112.54
1	v	582	ASP	N-CA-C	5.31	122.11	110.80
1	F	214	THR	N-CA-CB	5.31	119.11	110.77
1	H	231	ARG	CD-NE-CZ	5.31	131.84	124.40
1	J	544	ASN	CB-CA-C	5.31	119.22	110.88
1	J	590	LYS	O-C-N	-5.31	116.49	122.12
1	N	214	THR	O-C-N	-5.31	116.11	123.12
1	O	231	ARG	N-CA-CB	-5.31	102.72	110.53
1	O	385	SER	CA-C-N	5.31	127.59	120.58
1	O	385	SER	C-N-CA	5.31	127.59	120.58
1	R	176	THR	CA-C-O	-5.31	114.61	120.30
1	T	567	MET	CA-C-O	5.31	126.18	120.55
1	V	417	ASP	O-C-N	-5.31	116.58	122.00
1	V	516	ALA	CA-C-N	5.31	127.83	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	516	ALA	C-N-CA	5.31	127.83	120.29
1	a	390	GLU	O-C-N	-5.31	116.60	122.07
1	a	695	ARG	CA-C-N	5.31	127.25	120.56
1	a	695	ARG	C-N-CA	5.31	127.25	120.56
1	b	240	ASP	CA-C-N	5.31	127.25	120.56
1	b	240	ASP	C-N-CA	5.31	127.25	120.56
1	i	649	ILE	O-C-N	-5.31	116.22	121.96
1	t	540	GLY	CA-C-N	5.31	127.40	120.28
1	t	540	GLY	C-N-CA	5.31	127.40	120.28
1	y	237	GLN	CG-CD-NE2	5.31	124.37	116.40
1	G	511	GLN	CA-C-N	5.31	131.01	121.66
1	G	511	GLN	C-N-CA	5.31	131.01	121.66
1	I	636	GLU	O-C-N	-5.31	116.60	122.07
1	K	331	GLN	CB-CG-CD	-5.31	103.57	112.60
1	V	354	PRO	N-CA-C	-5.31	106.28	113.40
1	Y	103	LEU	CA-C-N	5.31	127.25	120.56
1	Y	103	LEU	C-N-CA	5.31	127.25	120.56
1	4	147	SER	CB-CA-C	-5.31	104.64	111.22
1	4	640	ARG	NE-CZ-NH1	5.31	126.81	121.50
1	5	434	GLU	N-CA-C	5.31	116.75	111.07
1	9	653	MET	CA-C-N	5.31	128.59	121.90
1	9	653	MET	C-N-CA	5.31	128.59	121.90
1	9	674	ARG	NE-CZ-NH1	5.31	126.81	121.50
1	a	568	ILE	CA-C-N	5.31	127.39	120.28
1	a	568	ILE	C-N-CA	5.31	127.39	120.28
1	d	466	ALA	CA-C-N	5.31	127.39	120.28
1	d	466	ALA	C-N-CA	5.31	127.39	120.28
1	h	170	ARG	O-C-N	-5.31	117.11	123.27
1	i	145	ARG	NE-CZ-NH2	-5.31	114.42	119.20
1	j	236	ASN	CA-C-N	5.31	127.38	120.26
1	j	236	ASN	C-N-CA	5.31	127.38	120.26
1	p	573	ARG	NH1-CZ-NH2	-5.31	112.40	119.30
1	u	385	SER	N-CA-C	5.31	119.61	113.18
1	w	143	LEU	CA-C-N	5.31	126.48	119.84
1	w	143	LEU	C-N-CA	5.31	126.48	119.84
1	D	419	MET	CG-SD-CE	-5.31	89.22	100.90
1	D	562	ALA	O-C-N	-5.31	116.60	122.07
1	E	179	GLU	O-C-N	-5.31	116.34	122.87
1	E	502	GLU	CA-C-N	5.31	127.25	120.56
1	E	502	GLU	C-N-CA	5.31	127.25	120.56
1	G	216	PRO	CB-CA-C	5.31	117.74	110.52
1	M	269	ASP	CA-CB-CG	5.31	117.91	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	490	LYS	N-CA-C	5.31	116.75	111.07
1	S	475	ILE	O-C-N	-5.31	116.71	121.91
1	T	283	ASP	CA-C-N	5.31	124.64	118.85
1	T	283	ASP	C-N-CA	5.31	124.64	118.85
1	T	309	ASN	O-C-N	-5.31	116.49	122.12
1	U	395	GLU	CA-CB-CG	5.31	124.72	114.10
1	W	125	GLY	O-C-N	-5.31	117.50	123.61
1	W	383	GLN	N-CA-C	-5.31	106.58	113.16
1	X	108	ARG	CD-NE-CZ	5.31	131.83	124.40
1	Y	168	ALA	CA-C-O	5.31	126.77	120.66
1	0	629	HIS	CA-C-O	5.31	126.18	120.55
1	2	533	ASN	N-CA-CB	5.31	117.92	110.12
1	4	705	ALA	N-CA-C	5.31	117.06	111.28
1	5	95	GLN	OE1-CD-NE2	-5.31	117.29	122.60
1	a	692	LEU	N-CA-C	5.31	117.48	111.11
1	c	557	LYS	N-CA-C	5.31	117.06	111.28
1	d	185	GLN	N-CA-C	5.31	119.02	112.54
1	g	271	ALA	CA-C-O	5.31	125.70	119.28
1	h	190	ILE	CA-C-O	5.31	126.20	120.47
1	i	226	LEU	CA-C-N	5.31	126.47	119.84
1	i	226	LEU	C-N-CA	5.31	126.47	119.84
1	l	557	LYS	CA-CB-CG	5.31	124.72	114.10
1	o	311	VAL	CA-C-N	5.31	127.34	120.44
1	o	311	VAL	C-N-CA	5.31	127.34	120.44
1	o	390	GLU	N-CA-CB	-5.31	102.05	110.28
1	x	275	ALA	CA-C-O	5.31	126.05	120.42
1	y	331	GLN	CA-C-N	5.31	129.70	120.68
1	y	331	GLN	C-N-CA	5.31	129.70	120.68
1	y	381	HIS	CE1-NE2-CD2	-5.31	103.69	109.00
1	G	341	GLU	CB-CA-C	5.31	119.60	110.79
1	H	282	VAL	N-CA-C	5.31	118.91	112.80
1	I	511	GLN	N-CA-C	5.31	117.81	111.71
1	J	476	ILE	N-CA-CB	-5.31	103.32	110.54
1	J	659	ASP	CA-C-O	5.31	126.13	120.24
1	K	160	LYS	N-CA-C	5.31	118.08	108.69
1	O	411	ILE	N-CA-C	5.31	120.34	108.88
1	R	497	ASN	O-C-N	-5.31	115.53	122.59
1	S	660	SER	O-C-N	-5.31	115.74	122.27
1	V	395	GLU	CA-C-O	5.31	126.10	120.10
1	Y	464	ILE	CA-C-N	5.31	127.34	120.44
1	Y	464	ILE	C-N-CA	5.31	127.34	120.44
1	0	426	ILE	CA-C-N	5.31	127.34	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	0	426	ILE	C-N-CA	5.31	127.34	120.44
1	1	219	PRO	N-CA-CB	-5.31	97.81	103.38
1	2	383	GLN	N-CA-CB	5.31	117.92	110.12
1	6	436	LEU	O-C-N	-5.31	115.22	122.33
1	f	386	LEU	CA-C-N	-5.31	114.28	119.64
1	f	386	LEU	C-N-CA	-5.31	114.28	119.64
1	F	216	PRO	CA-C-N	-5.31	113.82	122.26
1	F	216	PRO	C-N-CA	-5.31	113.82	122.26
1	G	311	VAL	O-C-N	-5.31	116.72	121.87
1	L	663	LYS	N-CA-C	5.31	117.06	111.28
1	N	697	TYR	CB-CA-C	5.31	119.21	110.88
1	O	347	ILE	CA-C-N	5.31	127.70	120.54
1	O	347	ILE	C-N-CA	5.31	127.70	120.54
1	2	239	ARG	CA-C-N	5.30	131.25	121.70
1	2	239	ARG	C-N-CA	5.30	131.25	121.70
1	b	581	GLN	CA-C-N	5.30	128.78	120.82
1	b	581	GLN	C-N-CA	5.30	128.78	120.82
1	d	276	LEU	O-C-N	-5.30	116.50	122.12
1	e	664	ALA	CA-C-N	5.30	127.39	120.28
1	e	664	ALA	C-N-CA	5.30	127.39	120.28
1	i	694	GLU	N-CA-C	5.30	117.06	111.28
1	k	692	LEU	N-CA-CB	5.30	117.70	110.01
1	m	244	GLN	N-CA-C	5.30	117.06	111.28
1	p	496	VAL	O-C-N	-5.30	116.56	122.66
1	q	392	GLN	OE1-CD-NE2	-5.30	117.30	122.60
1	q	393	ILE	N-CA-CB	5.30	116.19	110.62
1	s	232	VAL	CA-C-O	5.30	126.88	121.63
1	v	365	ALA	O-C-N	-5.30	115.53	122.59
1	v	465	LEU	CA-C-N	5.30	127.39	120.28
1	v	465	LEU	C-N-CA	5.30	127.39	120.28
1	x	252	TYR	CA-C-O	-5.30	113.87	119.97
1	x	534	VAL	CB-CA-C	-5.30	104.98	112.14
1	z	685	THR	CA-CB-OG1	5.30	117.56	109.60
1	B	143	LEU	CA-C-N	5.30	126.47	119.84
1	B	143	LEU	C-N-CA	5.30	126.47	119.84
1	B	445	GLU	CB-CA-C	5.30	117.80	110.16
1	C	680	GLN	OE1-CD-NE2	-5.30	117.30	122.60
1	H	353	HIS	CG-CD2-NE2	5.30	112.50	107.20
1	I	545	LEU	CD1-CG-CD2	5.30	122.47	110.80
1	L	224	ILE	CA-C-N	5.30	130.76	122.17
1	L	224	ILE	C-N-CA	5.30	130.76	122.17
1	N	258	THR	O-C-N	-5.30	115.61	122.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	381	HIS	ND1-CE1-NE2	5.30	113.70	108.40
1	R	461	TRP	N-CA-C	5.30	117.75	111.33
1	R	591	LYS	O-C-N	-5.30	116.57	122.09
1	U	308	MET	N-CA-C	5.30	117.06	111.28
1	2	353	HIS	CA-CB-CG	-5.30	108.50	113.80
1	d	654	LEU	O-C-N	-5.30	115.66	121.76
1	i	344	LYS	N-CA-CB	5.30	117.88	109.82
1	k	482	LYS	N-CA-C	5.30	117.14	111.36
1	l	330	GLN	N-CA-C	5.30	119.72	112.88
1	q	700	THR	CA-CB-OG1	5.30	117.56	109.60
1	s	682	GLN	CA-C-N	5.30	128.37	120.31
1	s	682	GLN	C-N-CA	5.30	128.37	120.31
1	t	329	GLY	N-CA-C	5.30	118.21	111.37
1	u	462	VAL	CB-CA-C	-5.30	104.98	112.14
1	C	267	ASN	CA-CB-CG	5.30	117.90	112.60
1	D	198	ALA	N-CA-C	5.30	117.81	111.71
1	F	202	ARG	NE-CZ-NH2	-5.30	114.43	119.20
1	R	146	GLY	O-C-N	-5.30	115.81	122.70
1	S	422	LEU	CD1-CG-CD2	-5.30	99.13	110.80
1	0	709	PHE	N-CA-C	5.30	117.97	111.82
1	5	166	ALA	O-C-N	-5.30	116.70	123.06
1	9	242	GLY	O-C-N	-5.30	117.09	122.18
1	9	456	GLU	N-CA-CB	5.30	117.91	110.12
1	a	388	LEU	CA-C-O	-5.30	115.25	120.82
1	b	552	THR	N-CA-C	5.30	117.14	111.36
1	d	333	ILE	CA-CB-CG1	5.30	119.41	110.40
1	g	449	ARG	N-CA-CB	5.30	117.83	110.04
1	k	494	GLY	O-C-N	-5.30	115.81	122.70
1	o	505	VAL	CA-CB-CG1	5.30	119.41	110.40
1	r	177	GLU	N-CA-C	-5.30	100.53	109.07
1	t	284	PRO	O-C-N	-5.30	115.11	122.27
1	w	686	ALA	N-CA-C	5.30	116.74	111.07
1	x	477	HIS	CA-C-N	5.30	127.33	120.44
1	x	477	HIS	C-N-CA	5.30	127.33	120.44
1	z	166	ALA	N-CA-CB	5.30	117.76	109.97
1	C	293	LEU	N-CA-CB	5.30	118.91	110.16
1	E	404	LEU	O-C-N	-5.30	116.61	122.07
1	F	330	GLN	OE1-CD-NE2	5.30	127.90	122.60
1	I	220	ASP	CB-CA-C	5.30	118.87	109.65
1	M	402	GLU	CB-CG-CD	5.30	121.61	112.60
1	P	151	THR	O-C-N	-5.30	116.42	122.89
1	P	647	PHE	O-C-N	-5.30	116.58	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	459	LYS	N-CA-CB	5.30	117.91	110.12
1	Y	680	GLN	O-C-N	-5.30	116.35	122.87
1	0	127	GLN	N-CA-C	5.30	117.80	111.71
1	1	406	ARG	NH1-CZ-NH2	-5.30	112.41	119.30
1	1	662	GLN	O-C-N	-5.30	115.75	122.27
1	3	624	THR	CB-CA-C	-5.30	102.53	110.90
1	4	269	ASP	N-CA-CB	-5.30	101.95	109.85
1	4	506	HIS	CB-CG-ND1	5.30	130.65	122.70
1	e	682	GLN	CA-C-N	5.30	127.38	120.28
1	e	682	GLN	C-N-CA	5.30	127.38	120.28
1	m	632	ALA	CA-C-N	5.30	127.33	120.44
1	m	632	ALA	C-N-CA	5.30	127.33	120.44
1	n	681	GLU	N-CA-C	5.30	117.17	110.33
1	F	234	VAL	N-CA-C	5.30	120.36	109.34
1	G	634	PHE	CA-CB-CG	5.30	119.10	113.80
1	I	706	LEU	O-C-N	-5.30	116.50	122.12
1	J	503	ILE	CA-CB-CG1	5.30	119.41	110.40
1	N	126	ASP	CA-CB-CG	5.30	117.90	112.60
1	O	254	GLN	O-C-N	-5.30	116.50	122.12
1	R	145	ARG	NE-CZ-NH2	-5.30	114.43	119.20
1	R	294	THR	CA-C-O	5.30	127.64	121.44
1	S	182	ASP	CA-CB-CG	5.30	117.90	112.60
1	S	371	ALA	N-CA-C	5.30	116.74	111.07
1	X	137	ALA	CA-C-O	5.30	126.09	120.10
1	X	708	GLN	O-C-N	-5.30	116.11	122.15
1	Y	127	GLN	CA-C-N	5.30	127.33	120.44
1	Y	127	GLN	C-N-CA	5.30	127.33	120.44
1	0	93	TYR	CA-C-N	5.30	128.36	120.31
1	0	93	TYR	C-N-CA	5.30	128.36	120.31
1	5	126	ASP	CB-CA-C	-5.30	99.71	109.46
1	6	503	ILE	CA-C-N	5.30	127.72	120.46
1	6	503	ILE	C-N-CA	5.30	127.72	120.46
1	a	245	ILE	CA-C-N	5.30	128.36	120.31
1	a	245	ILE	C-N-CA	5.30	128.36	120.31
1	d	265	PRO	N-CA-CB	5.30	107.77	103.32
1	f	375	THR	O-C-N	5.30	127.53	122.07
1	q	494	GLY	CA-C-N	5.30	131.24	121.70
1	q	494	GLY	C-N-CA	5.30	131.24	121.70
1	s	185	GLN	OE1-CD-NE2	-5.30	117.30	122.60
1	s	260	ASN	N-CA-CB	5.30	118.63	110.21
1	x	425	LYS	N-CA-C	5.30	116.74	111.07
1	y	597	PHE	CA-CB-CG	5.30	119.10	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	411	ILE	CA-C-O	-5.30	112.85	119.95
1	U	478	GLU	CA-C-N	5.30	127.33	120.44
1	U	478	GLU	C-N-CA	5.30	127.33	120.44
1	0	375	THR	N-CA-C	-5.30	105.59	111.36
1	1	258	THR	N-CA-CB	5.30	117.79	109.69
1	3	166	ALA	CA-C-N	5.30	131.26	121.94
1	3	166	ALA	C-N-CA	5.30	131.26	121.94
1	6	499	LYS	CB-CA-C	5.30	119.20	110.88
1	7	465	LEU	N-CA-C	5.30	117.05	111.28
1	9	103	LEU	CB-CA-C	-5.30	102.00	110.79
1	b	163	PRO	N-CA-CB	5.30	108.39	103.46
1	d	658	GLY	O-C-N	-5.30	117.05	122.19
1	h	552	THR	N-CA-C	5.30	117.05	111.28
1	h	657	ASN	CA-CB-CG	5.30	117.90	112.60
1	j	119	PRO	CA-C-N	5.30	128.23	120.71
1	j	119	PRO	C-N-CA	5.30	128.23	120.71
1	j	695	ARG	N-CA-C	5.30	116.74	111.07
1	k	682	GLN	N-CA-C	5.30	117.55	110.35
1	q	397	HIS	CE1-NE2-CD2	-5.30	103.70	109.00
1	q	520	LEU	CD1-CG-CD2	5.30	122.45	110.80
1	q	579	PHE	O-C-N	-5.30	117.34	123.33
1	r	238	PRO	CA-C-N	5.30	131.23	121.70
1	r	238	PRO	C-N-CA	5.30	131.23	121.70
1	A	681	GLU	O-C-N	-5.30	115.73	122.78
1	F	431	GLN	CA-C-O	5.30	126.03	120.42
1	M	193	ALA	O-C-N	-5.30	116.58	122.09
1	Q	302	GLY	CA-C-N	5.30	127.38	120.28
1	Q	302	GLY	C-N-CA	5.30	127.38	120.28
1	R	345	LYS	CA-C-N	5.30	127.64	120.38
1	R	345	LYS	C-N-CA	5.30	127.64	120.38
1	S	598	ASN	OD1-CG-ND2	-5.30	117.30	122.60
1	U	684	GLU	N-CA-C	5.30	117.05	111.28
1	W	153	CYS	N-CA-CB	5.30	118.13	110.77
1	X	126	ASP	O-C-N	-5.30	116.75	122.79
1	Y	220	ASP	CA-C-N	-5.30	113.63	122.21
1	Y	220	ASP	C-N-CA	-5.30	113.63	122.21
1	Z	269	ASP	CA-C-N	5.30	128.84	120.47
1	Z	269	ASP	C-N-CA	5.30	128.84	120.47
1	i	593	ARG	CA-C-O	-5.29	115.44	121.00
1	A	370	LEU	CA-C-N	5.29	127.32	120.44
1	A	370	LEU	C-N-CA	5.29	127.32	120.44
1	B	183	PRO	O-C-N	-5.29	115.49	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	416	ALA	N-CA-CB	5.29	118.93	110.46
1	C	593	ARG	N-CA-C	5.29	118.20	111.69
1	K	131	LYS	N-CA-CB	5.29	118.45	110.30
1	M	701	GLN	CA-CB-CG	5.29	124.69	114.10
1	Y	208	LEU	N-CA-C	5.29	117.35	109.25
1	l	596	ILE	O-C-N	-5.29	115.95	122.57
1	3	538	HIS	CE1-NE2-CD2	-5.29	103.71	109.00
1	e	115	ASP	CA-CB-CG	-5.29	107.31	112.60
1	e	657	ASN	CA-C-N	5.29	125.97	119.99
1	e	657	ASN	C-N-CA	5.29	125.97	119.99
1	g	656	GLU	CA-C-N	5.29	127.37	120.28
1	g	656	GLU	C-N-CA	5.29	127.37	120.28
1	h	98	ARG	NH1-CZ-NH2	-5.29	112.42	119.30
1	l	163	PRO	N-CA-C	-5.29	106.63	113.57
1	n	98	ARG	CD-NE-CZ	-5.29	116.99	124.40
1	o	195	ASN	N-CA-C	5.29	116.73	111.07
1	o	506	HIS	CB-CG-CD2	-5.29	124.32	131.20
1	s	136	GLU	N-CA-C	5.29	117.74	111.33
1	t	592	VAL	N-CA-C	5.29	115.50	110.42
1	v	165	GLU	O-C-N	-5.29	116.51	122.97
1	y	458	PHE	CA-CB-CG	5.29	119.09	113.80
1	y	500	THR	N-CA-C	5.29	117.05	111.28
1	B	663	LYS	CA-C-N	5.29	127.63	120.38
1	B	663	LYS	C-N-CA	5.29	127.63	120.38
1	F	229	ILE	N-CA-C	5.29	116.38	108.54
1	G	373	ARG	N-CA-C	5.29	117.13	111.36
1	G	578	VAL	N-CA-CB	5.29	119.96	111.23
1	Q	438	GLU	N-CA-C	5.29	117.05	111.28
1	Y	484	GLU	N-CA-C	5.29	117.13	111.36
1	0	698	ARG	CA-C-O	-5.29	114.81	120.42
1	1	513	VAL	CB-CA-C	-5.29	105.20	111.97
1	2	634	PHE	N-CA-C	5.29	117.05	111.28
1	3	336	ARG	CA-C-O	-5.29	115.01	121.36
1	3	409	ALA	CA-C-N	5.29	131.23	121.70
1	3	409	ALA	C-N-CA	5.29	131.23	121.70
1	5	497	ASN	N-CA-C	5.29	117.37	108.96
1	8	508	TYR	N-CA-C	5.29	118.20	111.69
1	9	468	ASN	CA-CB-CG	-5.29	107.31	112.60
1	c	123	VAL	CA-C-N	5.29	129.60	122.93
1	c	123	VAL	C-N-CA	5.29	129.60	122.93
1	c	133	SER	N-CA-C	5.29	117.05	111.28
1	e	572	PHE	CB-CG-CD1	-5.29	111.71	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	244	GLN	CA-C-N	5.29	127.23	120.56
1	h	244	GLN	C-N-CA	5.29	127.23	120.56
1	i	287	ASP	CA-CB-CG	-5.29	107.31	112.60
1	j	433	ILE	N-CA-CB	5.29	116.38	110.51
1	l	659	ASP	CB-CA-C	5.29	119.58	110.79
1	n	677	TRP	CG-CD2-CE3	5.29	139.19	133.90
1	v	95	GLN	CB-CG-CD	5.29	121.59	112.60
1	v	446	ASN	CA-CB-CG	5.29	117.89	112.60
1	z	243	LEU	N-CA-CB	-5.29	102.34	110.12
1	A	311	VAL	CA-C-O	-5.29	115.56	121.17
1	E	152	ARG	CD-NE-CZ	5.29	131.81	124.40
1	E	344	LYS	CB-CG-CD	5.29	123.47	111.30
1	M	345	LYS	CA-C-N	5.29	127.80	120.29
1	M	345	LYS	C-N-CA	5.29	127.80	120.29
1	O	232	VAL	CA-C-N	5.29	128.22	120.71
1	O	232	VAL	C-N-CA	5.29	128.22	120.71
1	R	538	HIS	ND1-CE1-NE2	5.29	113.69	108.40
1	U	460	ASN	CA-C-N	5.29	127.32	120.44
1	U	460	ASN	C-N-CA	5.29	127.32	120.44
1	V	357	ARG	CA-C-N	5.29	127.23	120.56
1	V	357	ARG	C-N-CA	5.29	127.23	120.56
1	X	435	LYS	CA-C-N	5.29	127.63	120.38
1	X	435	LYS	C-N-CA	5.29	127.63	120.38
1	Y	395	GLU	N-CA-C	5.29	117.48	111.02
1	Y	459	LYS	O-C-N	-5.29	115.76	122.27
1	Y	524	MET	CG-SD-CE	-5.29	89.26	100.90
1	0	118	LEU	CA-C-N	5.29	126.45	119.84
1	0	118	LEU	C-N-CA	5.29	126.45	119.84
1	3	151	THR	CA-C-N	5.29	127.63	120.44
1	3	151	THR	C-N-CA	5.29	127.63	120.44
1	5	539	PHE	CA-CB-CG	-5.29	108.51	113.80
1	9	668	ILE	CA-C-O	5.29	126.45	120.95
1	f	476	ILE	CB-CA-C	-5.29	105.00	112.14
1	i	502	GLU	CA-C-O	-5.29	114.92	120.63
1	j	236	ASN	CA-CB-CG	5.29	117.89	112.60
1	o	569	GLN	CA-C-N	5.29	127.64	120.44
1	o	569	GLN	C-N-CA	5.29	127.64	120.44
1	G	500	THR	CA-C-N	5.29	127.63	120.38
1	G	500	THR	C-N-CA	5.29	127.63	120.38
1	H	464	ILE	O-C-N	-5.29	116.74	121.87
1	R	416	ALA	CA-C-N	5.29	131.64	121.54
1	R	416	ALA	C-N-CA	5.29	131.64	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	666	MET	N-CA-C	5.29	117.79	111.71
1	5	644	GLN	N-CA-CB	-5.29	102.33	110.16
1	7	643	ASN	CA-CB-CG	5.29	117.89	112.60
1	8	144	PRO	N-CA-C	5.29	119.52	111.11
1	b	329	GLY	O-C-N	-5.29	117.97	123.58
1	i	639	LYS	O-C-N	5.29	128.18	122.15
1	l	550	GLN	O-C-N	-5.29	116.51	122.12
1	r	330	GLN	O-C-N	5.29	128.18	122.15
1	r	384	LYS	CA-C-O	5.29	126.05	119.97
1	s	498	TYR	O-C-N	-5.29	115.22	122.46
1	u	167	TRP	CA-C-O	-5.29	115.42	121.40
1	u	281	GLU	CB-CA-C	-5.29	102.01	110.79
1	w	175	ASN	CA-CB-CG	-5.29	107.31	112.60
1	w	557	LYS	N-CA-C	5.29	117.73	111.33
1	y	542	PHE	O-C-N	-5.29	116.58	122.55
1	y	549	VAL	CA-C-N	5.29	127.36	120.28
1	y	549	VAL	C-N-CA	5.29	127.36	120.28
1	A	113	GLU	N-CA-C	5.29	117.12	111.36
1	A	209	ILE	CA-C-O	5.29	126.09	120.48
1	D	115	ASP	CA-C-O	5.29	127.68	119.96
1	F	160	LYS	N-CA-C	5.29	117.43	108.02
1	F	201	GLY	CA-C-N	5.29	127.90	120.28
1	F	201	GLY	C-N-CA	5.29	127.90	120.28
1	H	357	ARG	N-CA-C	5.29	117.05	111.28
1	I	217	GLU	N-CA-C	5.29	117.12	111.36
1	M	192	LYS	CA-C-N	5.29	127.68	120.54
1	M	192	LYS	C-N-CA	5.29	127.68	120.54
1	M	681	GLU	O-C-N	-5.29	116.73	123.24
1	M	681	GLU	N-CA-C	-5.29	101.15	109.50
1	R	311	VAL	O-C-N	-5.29	116.73	121.91
1	S	573	ARG	N-CA-C	5.29	118.52	111.75
1	Y	342	ALA	CA-C-O	5.29	126.08	120.10
1	Z	194	GLN	CA-C-N	5.29	127.80	120.29
1	Z	194	GLN	C-N-CA	5.29	127.80	120.29
1	1	145	ARG	CD-NE-CZ	-5.29	117.00	124.40
1	4	351	GLN	CA-CB-CG	5.29	124.67	114.10
1	7	528	GLN	O-C-N	5.29	127.52	122.07
1	a	335	ASN	OD1-CG-ND2	-5.29	117.31	122.60
1	h	165	GLU	N-CA-C	5.29	117.69	110.24
1	q	267	ASN	CA-CB-CG	-5.29	107.31	112.60
1	r	552	THR	CA-C-N	5.29	127.22	120.56
1	r	552	THR	C-N-CA	5.29	127.22	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	s	393	ILE	N-CA-C	5.29	115.50	110.42
1	t	456	GLU	N-CA-C	5.29	117.79	111.71
1	v	426	ILE	CA-C-O	5.29	126.45	120.85
1	z	320	LYS	CA-C-O	5.29	125.42	119.18
1	z	380	MET	CB-CA-C	-5.29	101.86	110.85
1	B	573	ARG	CA-C-N	5.29	127.62	120.38
1	B	573	ARG	C-N-CA	5.29	127.62	120.38
1	C	405	ARG	N-CA-CB	-5.29	101.78	110.40
1	C	660	SER	CA-C-O	5.29	126.07	120.10
1	N	348	THR	N-CA-C	5.29	120.09	111.37
1	4	683	SER	CA-C-N	5.29	127.36	120.28
1	4	683	SER	C-N-CA	5.29	127.36	120.28
1	7	145	ARG	CB-CG-CD	5.29	123.46	111.30
1	c	106	SER	O-C-N	5.29	127.72	122.12
1	e	344	LYS	CB-CA-C	-5.29	102.58	110.88
1	g	526	ILE	O-C-N	-5.29	116.73	121.91
1	o	388	LEU	CA-C-N	5.29	127.36	120.28
1	o	388	LEU	C-N-CA	5.29	127.36	120.28
1	p	592	VAL	CB-CA-C	5.29	118.74	111.97
1	w	214	THR	O-C-N	-5.29	117.01	123.30
1	y	660	SER	N-CA-C	5.29	117.04	111.28
1	B	642	ALA	CA-C-O	5.29	126.05	119.97
1	G	482	LYS	O-C-N	-5.29	116.59	122.09
1	H	280	HIS	O-C-N	-5.29	116.12	122.15
1	H	454	ILE	CA-C-N	5.29	127.36	120.28
1	H	454	ILE	C-N-CA	5.29	127.36	120.28
1	P	494	GLY	CA-C-N	5.29	131.21	121.70
1	P	494	GLY	C-N-CA	5.29	131.21	121.70
1	R	126	ASP	CA-C-O	5.29	127.32	121.56
1	U	334	THR	CA-CB-CG2	5.29	119.49	110.50
1	U	500	THR	CA-C-O	5.29	126.37	120.82
1	V	246	LYS	N-CA-C	5.29	117.04	111.28
1	0	531	PHE	CB-CG-CD1	-5.28	111.72	120.70
1	1	157	LEU	N-CA-CB	5.28	118.89	110.65
1	3	160	LYS	O-C-N	-5.28	117.13	123.31
1	8	645	ILE	N-CA-C	5.28	120.27	112.61
1	9	593	ARG	O-C-N	-5.28	116.38	122.09
1	9	593	ARG	NE-CZ-NH2	-5.28	114.44	119.20
1	f	697	TYR	N-CA-CB	-5.28	102.34	110.16
1	j	640	ARG	N-CA-CB	5.28	117.89	110.12
1	k	165	GLU	O-C-N	-5.28	115.56	122.59
1	r	205	SER	O-C-N	-5.28	117.01	123.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	t	456	GLU	O-C-N	-5.28	116.04	122.22
1	v	420	PHE	N-CA-C	5.28	117.04	111.28
1	y	106	SER	O-C-N	-5.28	116.63	122.07
1	E	174	ARG	NE-CZ-NH1	5.28	126.78	121.50
1	E	440	GLU	N-CA-C	5.28	120.39	112.94
1	I	391	GLY	O-C-N	-5.28	117.06	122.19
1	K	345	LYS	N-CA-CB	-5.28	102.34	110.16
1	P	279	ALA	N-CA-C	5.28	117.78	111.71
1	V	124	ILE	N-CA-CB	5.28	118.12	111.46
1	3	121	ILE	CB-CA-C	-5.28	103.25	110.96
1	4	529	GLN	CA-C-O	5.28	126.15	120.55
1	7	585	TYR	N-CA-C	5.28	117.95	111.82
1	8	515	PRO	N-CA-CB	5.28	108.80	103.25
1	9	516	ALA	CA-C-N	5.28	129.66	120.68
1	9	516	ALA	C-N-CA	5.28	129.66	120.68
1	e	588	VAL	CA-C-N	5.28	127.79	120.29
1	e	588	VAL	C-N-CA	5.28	127.79	120.29
1	e	666	MET	CA-C-N	5.28	127.67	120.54
1	e	666	MET	C-N-CA	5.28	127.67	120.54
1	m	192	LYS	N-CA-C	5.28	117.12	111.36
1	m	504	ILE	N-CA-C	5.28	116.01	110.62
1	o	275	ALA	N-CA-CB	-5.28	102.09	110.22
1	p	94	GLU	N-CA-C	5.28	117.78	111.71
1	v	500	THR	N-CA-C	5.28	116.72	111.07
1	v	582	ASP	CA-C-N	5.28	127.89	120.28
1	v	582	ASP	C-N-CA	5.28	127.89	120.28
1	C	112	VAL	CA-CB-CG1	5.28	119.38	110.40
1	F	284	PRO	N-CA-CB	5.28	108.80	103.25
1	K	383	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	L	307	VAL	N-CA-C	5.28	115.49	110.42
1	Z	426	ILE	N-CA-C	5.28	115.42	110.30
1	Z	698	ARG	CA-C-O	5.28	126.37	120.82
1	4	256	GLN	O-C-N	-5.28	116.13	122.15
1	9	127	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	9	342	ALA	CB-CA-C	-5.28	102.03	110.79
1	a	577	MET	CG-SD-CE	-5.28	89.28	100.90
1	b	530	ALA	CA-C-O	5.28	126.36	120.82
1	c	143	LEU	CA-C-O	-5.28	112.92	120.16
1	f	202	ARG	N-CA-CB	-5.28	102.81	110.47
1	k	411	ILE	CA-C-N	-5.28	113.24	119.84
1	k	411	ILE	C-N-CA	-5.28	113.24	119.84
1	k	415	GLU	N-CA-C	5.28	117.04	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	o	218	VAL	CA-C-N	5.28	125.29	119.90
1	o	218	VAL	C-N-CA	5.28	125.29	119.90
1	p	399	LYS	CA-C-N	5.28	127.36	120.28
1	p	399	LYS	C-N-CA	5.28	127.36	120.28
1	p	490	LYS	N-CA-CB	5.28	117.67	110.01
1	q	564	ALA	CA-C-O	-5.28	115.28	120.82
1	r	550	GLN	CG-CD-NE2	-5.28	108.48	116.40
1	s	383	GLN	O-C-N	-5.28	115.78	122.27
1	B	446	ASN	O-C-N	-5.28	116.00	122.55
1	C	206	HIS	CA-C-N	5.28	128.60	121.05
1	C	206	HIS	C-N-CA	5.28	128.60	121.05
1	E	533	ASN	CB-CA-C	-5.28	101.87	110.85
1	F	309	ASN	N-CA-C	5.28	116.72	111.07
1	F	402	GLU	CA-C-O	-5.28	114.95	120.55
1	H	301	ARG	CB-CG-CD	5.28	123.44	111.30
1	J	339	LEU	CA-C-O	5.28	125.86	119.31
1	J	707	CYS	N-CA-C	5.28	117.04	111.28
1	K	345	LYS	O-C-N	-5.28	116.13	122.15
1	N	566	ASN	N-CA-C	5.28	117.04	111.28
1	P	269	ASP	N-CA-C	5.28	117.34	110.53
1	R	100	CYS	O-C-N	-5.28	116.60	122.09
1	R	244	GLN	N-CA-C	5.28	117.04	111.28
1	U	578	VAL	CB-CA-C	5.28	117.96	111.25
1	Y	659	ASP	O-C-N	-5.28	116.63	122.07
1	Z	278	MET	CA-C-N	5.28	127.36	120.28
1	Z	278	MET	C-N-CA	5.28	127.36	120.28
1	Z	310	VAL	O-C-N	-5.28	116.54	121.87
1	Z	556	ILE	CA-CB-CG1	5.28	119.38	110.40
1	g	523	ALA	N-CA-C	5.28	117.03	111.28
1	p	406	ARG	NE-CZ-NH2	-5.28	114.45	119.20
1	y	431	GLN	O-C-N	-5.28	116.52	122.12
1	z	521	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	E	538	HIS	CE1-NE2-CD2	-5.28	103.72	109.00
1	Q	132	SER	O-C-N	5.28	127.72	122.12
1	R	523	ALA	CA-C-O	5.28	126.55	120.90
1	V	675	TYR	CA-C-O	-5.28	114.95	120.55
1	Y	703	ARG	CB-CG-CD	5.28	123.44	111.30
1	Z	698	ARG	O-C-N	-5.28	116.63	122.07
1	1	174	ARG	NH1-CZ-NH2	-5.28	112.44	119.30
1	4	350	PHE	CA-C-N	5.28	127.30	120.44
1	4	350	PHE	C-N-CA	5.28	127.30	120.44
1	5	401	THR	N-CA-C	5.28	117.03	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	572	PHE	O-C-N	-5.28	115.78	122.27
1	d	383	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	d	485	LYS	CA-C-N	5.28	127.30	120.44
1	d	485	LYS	C-N-CA	5.28	127.30	120.44
1	j	153	CYS	O-C-N	-5.28	117.80	121.65
1	l	431	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	n	218	VAL	CG1-CB-CG2	-5.28	99.19	110.80
1	q	153	CYS	CA-C-N	5.28	126.44	119.84
1	q	153	CYS	C-N-CA	5.28	126.44	119.84
1	r	151	THR	CA-CB-CG2	-5.28	101.53	110.50
1	r	479	GLU	O-C-N	-5.28	115.77	122.26
1	u	311	VAL	CA-C-N	5.28	127.78	120.29
1	u	311	VAL	C-N-CA	5.28	127.78	120.29
1	u	488	ARG	CB-CA-C	-5.28	101.92	110.79
1	v	581	GLN	N-CA-C	5.28	122.04	110.80
1	y	538	HIS	CA-C-O	5.28	126.02	119.79
1	z	219	PRO	N-CA-C	-5.28	102.87	111.68
1	E	693	LYS	N-CA-C	5.28	116.84	111.14
1	O	167	TRP	CH2-CZ2-CE2	5.28	124.36	117.50
1	O	578	VAL	N-CA-C	5.28	116.35	108.54
1	P	523	ALA	N-CA-CB	5.28	117.66	110.01
1	T	238	PRO	CA-C-N	5.28	131.20	121.70
1	T	238	PRO	C-N-CA	5.28	131.20	121.70
1	U	237	GLN	N-CA-C	5.28	117.08	109.48
1	U	331	GLN	O-C-N	-5.28	115.36	122.43
1	0	162	GLN	CB-CA-C	-5.28	103.26	110.22
1	3	98	ARG	CA-C-N	5.28	124.78	119.19
1	3	98	ARG	C-N-CA	5.28	124.78	119.19
1	3	565	GLU	O-C-N	-5.28	116.53	122.12
1	6	192	LYS	N-CA-C	5.28	117.71	111.33
1	b	162	GLN	O-C-N	-5.28	117.80	121.65
1	b	432	ASP	CA-CB-CG	-5.28	107.32	112.60
1	c	596	ILE	CA-CB-CG2	-5.28	101.53	110.50
1	f	264	VAL	CA-C-N	5.28	126.43	119.84
1	f	264	VAL	C-N-CA	5.28	126.43	119.84
1	i	492	LEU	CB-CA-C	5.28	120.92	110.42
1	m	211	LEU	O-C-N	-5.28	117.02	123.30
1	p	150	VAL	CA-CB-CG1	5.28	119.37	110.40
1	s	358	VAL	N-CA-C	5.28	116.00	110.62
1	s	534	VAL	CA-C-N	5.28	127.35	120.28
1	s	534	VAL	C-N-CA	5.28	127.35	120.28
1	s	705	ALA	CA-C-O	5.28	126.14	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	t	552	THR	O-C-N	-5.28	116.64	122.07
1	E	533	ASN	CA-C-N	5.28	127.21	120.56
1	E	533	ASN	C-N-CA	5.28	127.21	120.56
1	H	395	GLU	CB-CG-CD	5.28	121.57	112.60
1	L	339	LEU	N-CA-C	5.28	117.44	111.11
1	N	634	PHE	CA-C-O	5.28	126.36	120.82
1	O	660	SER	N-CA-CB	5.28	117.88	110.12
1	1	123	VAL	CA-CB-CG1	5.27	119.37	110.40
1	7	704	HIS	CG-CD2-NE2	5.27	112.47	107.20
1	f	405	ARG	NE-CZ-NH2	5.27	123.95	119.20
1	i	513	VAL	CA-CB-CG1	5.27	119.36	110.40
1	k	673	ASN	OD1-CG-ND2	-5.27	117.33	122.60
1	t	245	ILE	N-CA-C	5.27	116.00	110.62
1	x	629	HIS	CA-C-O	-5.27	114.83	120.42
1	I	285	GLU	N-CA-C	5.27	117.03	111.28
1	Q	227	PRO	CA-C-N	5.27	127.28	120.64
1	Q	227	PRO	C-N-CA	5.27	127.28	120.64
1	Q	655	ARG	NH1-CZ-NH2	-5.27	112.44	119.30
1	V	277	SER	N-CA-C	5.27	117.03	111.28
1	V	541	GLU	O-C-N	-5.27	116.14	122.15
1	0	436	LEU	CA-C-N	5.27	127.40	120.60
1	0	436	LEU	C-N-CA	5.27	127.40	120.60
1	3	467	THR	N-CA-CB	5.27	117.96	110.16
1	4	133	SER	O-C-N	-5.27	115.37	122.43
1	5	287	ASP	N-CA-CB	5.27	117.66	110.01
1	9	545	LEU	CA-C-O	-5.27	114.96	120.55
1	d	209	ILE	N-CA-CB	5.27	117.32	110.99
1	f	556	ILE	N-CA-CB	5.27	116.72	110.55
1	g	285	GLU	N-CA-CB	5.27	118.39	110.53
1	j	657	ASN	OD1-CG-ND2	5.27	127.87	122.60
1	n	358	VAL	CA-C-O	5.27	126.43	120.95
1	r	255	ARG	O-C-N	-5.27	116.64	122.86
1	t	194	GLN	CA-C-N	5.27	127.34	120.28
1	t	194	GLN	C-N-CA	5.27	127.34	120.28
1	x	312	ARG	CA-C-N	-5.27	114.71	122.83
1	x	312	ARG	C-N-CA	-5.27	114.71	122.83
1	z	538	HIS	ND1-CE1-NE2	5.27	113.67	108.40
1	C	349	PHE	CA-CB-CG	-5.27	108.53	113.80
1	G	157	LEU	CA-C-N	5.27	130.71	122.17
1	G	157	LEU	C-N-CA	5.27	130.71	122.17
1	I	244	GLN	N-CA-CB	5.27	117.87	110.12
1	I	629	HIS	CG-CD2-NE2	5.27	112.47	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	583	GLN	CG-CD-NE2	-5.27	108.49	116.40
1	M	187	GLU	CA-CB-CG	-5.27	103.56	114.10
1	Q	582	ASP	N-CA-C	5.27	122.03	110.80
1	S	454	ILE	N-CA-CB	5.27	117.71	110.54
1	U	336	ARG	N-CA-C	5.27	118.40	111.28
1	V	407	CYS	CA-C-O	-5.27	115.35	121.15
1	X	234	VAL	CA-CB-CG1	5.27	119.36	110.40
1	g	519	MET	CA-C-N	5.27	127.34	120.28
1	g	519	MET	C-N-CA	5.27	127.34	120.28
1	q	153	CYS	CA-C-O	-5.27	115.65	120.50
1	r	686	ALA	O-C-N	-5.27	116.53	122.12
1	x	280	HIS	ND1-CE1-NE2	5.27	113.67	108.40
1	C	251	LYS	N-CA-C	5.27	117.03	111.28
1	C	257	GLN	OE1-CD-NE2	-5.27	117.33	122.60
1	F	435	LYS	CA-CB-CG	-5.27	103.56	114.10
1	I	114	GLN	CA-C-N	5.27	131.61	121.54
1	I	114	GLN	C-N-CA	5.27	131.61	121.54
1	K	406	ARG	N-CA-C	5.27	119.56	113.18
1	N	594	GLU	N-CA-C	5.27	117.03	111.28
1	1	597	PHE	CA-C-N	5.27	131.19	121.70
1	1	597	PHE	C-N-CA	5.27	131.19	121.70
1	5	390	GLU	CA-C-N	5.27	125.94	119.99
1	5	390	GLU	C-N-CA	5.27	125.94	119.99
1	6	244	GLN	N-CA-C	5.27	117.71	111.33
1	8	108	ARG	NH1-CZ-NH2	-5.27	112.45	119.30
1	8	171	ILE	O-C-N	-5.27	117.18	123.03
1	e	431	GLN	N-CA-C	5.27	117.02	111.28
1	g	165	GLU	N-CA-C	5.27	117.67	110.24
1	k	98	ARG	CA-C-O	-5.27	113.23	118.34
1	k	155	LEU	N-CA-C	5.27	117.55	109.07
1	m	655	ARG	N-CA-CB	-5.27	102.43	110.07
1	n	95	GLN	CA-CB-CG	5.27	124.64	114.10
1	n	318	LEU	N-CA-C	5.27	117.95	110.10
1	n	410	ASP	CA-C-N	5.27	131.19	121.70
1	n	410	ASP	C-N-CA	5.27	131.19	121.70
1	p	251	LYS	CA-C-N	5.27	127.61	120.44
1	p	251	LYS	C-N-CA	5.27	127.61	120.44
1	z	587	VAL	CA-C-N	5.27	127.68	120.46
1	z	587	VAL	C-N-CA	5.27	127.68	120.46
1	D	690	ARG	NH1-CZ-NH2	-5.27	112.45	119.30
1	E	237	GLN	CA-C-N	5.27	124.88	119.56
1	E	237	GLN	C-N-CA	5.27	124.88	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	628	ILE	CA-C-O	5.27	126.44	120.85
1	M	638	SER	O-C-N	-5.27	116.61	122.09
1	N	152	ARG	N-CA-CB	-5.27	102.42	110.33
1	W	168	ALA	N-CA-C	5.27	117.99	109.40
1	Y	431	GLN	CA-C-O	-5.27	114.83	120.42
1	2	460	ASN	O-C-N	-5.27	114.88	122.36
1	7	167	TRP	CB-CG-CD1	-5.27	119.00	126.90
1	b	183	PRO	N-CD-CG	5.27	111.10	103.20
1	i	301	ARG	NE-CZ-NH1	5.27	126.77	121.50
1	l	134	VAL	O-C-N	-5.27	116.76	121.87
1	t	406	ARG	NE-CZ-NH2	-5.27	114.46	119.20
1	x	652	PHE	N-CA-C	5.27	118.17	111.69
1	A	371	ALA	CA-C-N	5.27	127.29	120.44
1	A	371	ALA	C-N-CA	5.27	127.29	120.44
1	C	263	VAL	N-CA-C	5.27	115.17	107.37
1	C	535	ALA	CA-C-N	5.27	127.34	120.28
1	C	535	ALA	C-N-CA	5.27	127.34	120.28
1	H	526	ILE	CA-C-N	5.27	127.68	120.46
1	H	526	ILE	C-N-CA	5.27	127.68	120.46
1	M	538	HIS	ND1-CE1-NE2	5.27	113.67	108.40
1	N	482	LYS	O-C-N	-5.27	116.14	122.15
1	R	299	MET	O-C-N	-5.27	116.46	122.89
1	R	506	HIS	CA-C-N	5.27	127.29	120.44
1	R	506	HIS	C-N-CA	5.27	127.29	120.44
1	U	331	GLN	CA-C-O	5.27	125.86	119.38
1	Z	508	TYR	CB-CA-C	5.27	119.15	110.88
1	c	477	HIS	N-CA-CB	5.27	117.86	110.12
1	d	706	LEU	O-C-N	-5.27	116.15	122.15
1	p	519	MET	N-CA-C	5.27	117.43	111.11
1	w	562	ALA	CB-CA-C	5.27	119.80	110.85
1	C	313	ASN	CB-CG-ND2	-5.27	108.50	116.40
1	C	377	GLU	CB-CA-C	5.27	119.63	110.68
1	F	703	ARG	CA-C-N	5.27	127.65	120.54
1	F	703	ARG	C-N-CA	5.27	127.65	120.54
1	M	410	ASP	N-CA-C	5.27	116.83	111.14
1	N	181	GLN	N-CA-C	5.27	122.02	110.80
1	O	352	THR	N-CA-CB	5.27	119.26	110.41
1	Q	506	HIS	ND1-CE1-NE2	5.27	113.67	108.40
1	S	453	LYS	N-CA-CB	5.27	117.64	110.01
1	T	414	GLN	N-CA-CB	-5.27	102.03	110.46
1	l	400	ALA	O-C-N	-5.26	116.54	122.12
1	a	574	MET	CG-SD-CE	-5.26	89.32	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	148	GLY	CA-C-N	5.26	127.63	120.63
1	c	148	GLY	C-N-CA	5.26	127.63	120.63
1	g	469	THR	N-CA-CB	5.26	117.64	110.01
1	h	474	ASN	CA-C-O	5.26	126.32	120.90
1	j	526	ILE	CA-C-N	5.26	127.67	120.46
1	j	526	ILE	C-N-CA	5.26	127.67	120.46
1	o	224	ILE	N-CA-C	5.26	115.16	107.37
1	o	520	LEU	O-C-N	-5.26	116.54	122.12
1	s	145	ARG	NE-CZ-NH1	-5.26	116.24	121.50
1	v	376	THR	O-C-N	-5.26	116.54	122.12
1	z	194	GLN	CA-C-N	5.26	127.28	120.44
1	z	194	GLN	C-N-CA	5.26	127.28	120.44
1	z	204	ILE	CA-C-O	5.26	125.46	120.25
1	z	474	ASN	OD1-CG-ND2	-5.26	117.33	122.60
1	H	529	GLN	N-CA-C	5.26	116.70	111.07
1	L	145	ARG	NE-CZ-NH2	5.26	123.94	119.20
1	M	695	ARG	N-CA-C	5.26	118.17	111.69
1	O	385	SER	N-CA-C	5.26	117.43	111.11
1	P	98	ARG	N-CA-C	5.26	120.64	113.16
1	T	289	THR	N-CA-CB	5.26	119.53	110.68
1	T	543	PHE	N-CA-C	5.26	117.43	111.11
1	W	213	ILE	CA-C-N	-5.26	115.74	123.00
1	W	213	ILE	C-N-CA	-5.26	115.74	123.00
1	4	476	ILE	CA-C-N	5.26	127.33	120.28
1	4	476	ILE	C-N-CA	5.26	127.33	120.28
1	c	178	LEU	O-C-N	-5.26	116.94	123.36
1	f	463	GLY	CA-C-N	5.26	127.89	120.42
1	f	463	GLY	C-N-CA	5.26	127.89	120.42
1	h	102	ASP	CA-CB-CG	5.26	117.86	112.60
1	h	252	TYR	O-C-N	-5.26	115.28	122.33
1	n	468	ASN	CA-C-N	5.26	127.33	120.28
1	n	468	ASN	C-N-CA	5.26	127.33	120.28
1	p	215	SER	CA-C-N	5.26	124.88	119.56
1	p	215	SER	C-N-CA	5.26	124.88	119.56
1	q	341	GLU	N-CA-CB	-5.26	102.12	110.28
1	A	191	HIS	CE1-NE2-CD2	-5.26	103.74	109.00
1	E	551	SER	O-C-N	5.26	127.71	122.08
1	M	101	ILE	N-CA-C	5.26	115.47	110.42
1	Z	311	VAL	N-CA-C	5.26	115.48	110.53
1	6	340	ALA	CA-C-N	5.26	127.28	120.44
1	6	340	ALA	C-N-CA	5.26	127.28	120.44
1	8	132	SER	N-CA-C	5.26	117.76	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	126	ASP	N-CA-C	5.26	116.28	108.86
1	b	107	LEU	N-CA-C	5.26	117.01	111.28
1	c	312	ARG	CD-NE-CZ	5.26	131.77	124.40
1	l	396	SER	N-CA-C	5.26	117.92	111.82
1	m	277	SER	N-CA-CB	5.26	118.43	110.28
1	n	267	ASN	CA-C-N	5.26	130.92	122.50
1	n	267	ASN	C-N-CA	5.26	130.92	122.50
1	t	175	ASN	N-CA-C	5.26	119.08	111.56
1	x	98	ARG	NE-CZ-NH2	5.26	123.94	119.20
1	B	117	ALA	N-CA-CB	-5.26	102.39	110.12
1	J	336	ARG	CB-CA-C	5.26	118.42	109.84
1	K	516	ALA	N-CA-C	5.26	117.42	111.11
1	N	704	HIS	ND1-CE1-NE2	5.26	113.66	108.40
1	W	303	THR	N-CA-CB	5.26	117.86	110.12
1	W	328	ARG	CA-C-N	5.26	131.72	121.41
1	W	328	ARG	C-N-CA	5.26	131.72	121.41
1	3	206	HIS	O-C-N	-5.26	116.07	122.22
1	5	134	VAL	CA-C-N	5.26	127.59	120.44
1	5	134	VAL	C-N-CA	5.26	127.59	120.44
1	7	152	ARG	N-CA-C	5.26	117.01	111.28
1	7	218	VAL	CG1-CB-CG2	5.26	122.37	110.80
1	c	397	HIS	CG-CD2-NE2	5.26	112.46	107.20
1	j	682	GLN	O-C-N	-5.26	116.54	122.12
1	p	179	GLU	N-CA-C	5.26	117.19	108.20
1	q	478	GLU	CB-CA-C	-5.26	102.06	110.79
1	u	301	ARG	O-C-N	-5.26	117.05	122.94
1	v	415	GLU	N-CA-C	5.26	117.01	111.28
1	z	188	LYS	CA-C-O	5.26	126.92	120.56
1	E	547	GLN	CB-CA-C	-5.26	101.91	110.85
1	J	191	HIS	ND1-CE1-NE2	5.26	113.66	108.40
1	L	546	ASN	OD1-CG-ND2	-5.26	117.34	122.60
1	N	626	ILE	CA-CB-CG1	5.26	119.34	110.40
1	P	429	PHE	N-CA-C	5.26	117.01	111.28
1	U	529	GLN	OE1-CD-NE2	-5.26	117.34	122.60
1	V	680	GLN	CA-C-N	5.26	128.18	120.71
1	V	680	GLN	C-N-CA	5.26	128.18	120.71
1	3	670	GLN	CB-CG-CD	5.26	121.54	112.60
1	5	233	ALA	CB-CA-C	5.26	118.10	109.90
1	5	278	MET	CA-C-O	5.26	126.12	120.70
1	b	703	ARG	CA-C-N	5.26	127.33	120.28
1	b	703	ARG	C-N-CA	5.26	127.33	120.28
1	e	98	ARG	NE-CZ-NH1	5.26	126.76	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	f	630	LEU	CB-CA-C	-5.26	102.40	110.81
1	j	212	GLU	CB-CG-CD	5.26	121.54	112.60
1	m	170	ARG	NE-CZ-NH2	-5.26	114.47	119.20
1	r	640	ARG	NE-CZ-NH1	5.26	126.76	121.50
1	t	384	LYS	CB-CA-C	5.26	119.52	110.79
1	u	372	GLU	CA-C-N	5.26	127.28	120.44
1	u	372	GLU	C-N-CA	5.26	127.28	120.44
1	w	152	ARG	CD-NE-CZ	5.26	131.76	124.40
1	A	629	HIS	O-C-N	-5.26	115.80	122.27
1	G	518	SER	O-C-N	-5.26	116.16	122.15
1	S	104	ILE	CB-CA-C	-5.26	104.96	112.22
1	T	401	THR	N-CA-CB	5.26	117.94	110.16
1	Z	666	MET	N-CA-C	-5.26	106.55	113.17
1	0	127	GLN	OE1-CD-NE2	-5.26	117.34	122.60
1	1	208	LEU	CA-C-N	5.26	130.44	122.98
1	1	208	LEU	C-N-CA	5.26	130.44	122.98
1	1	552	THR	O-C-N	-5.26	116.55	122.12
1	5	303	THR	N-CA-C	5.26	116.70	111.07
1	5	598	ASN	CA-CB-CG	5.26	117.86	112.60
1	b	153	CYS	CA-C-N	5.26	125.02	119.76
1	b	153	CYS	C-N-CA	5.26	125.02	119.76
1	c	283	ASP	CB-CA-C	5.26	120.53	110.17
1	j	94	GLU	N-CA-C	5.26	118.48	111.75
1	k	397	HIS	CA-C-O	5.26	126.34	120.82
1	l	366	THR	CB-CA-C	-5.26	102.40	110.81
1	m	451	TYR	CA-C-N	5.26	127.75	120.29
1	m	451	TYR	C-N-CA	5.26	127.75	120.29
1	q	373	ARG	NE-CZ-NH1	5.26	126.76	121.50
1	t	241	ILE	CA-CB-CG1	5.26	119.34	110.40
1	v	373	ARG	NE-CZ-NH1	5.26	126.76	121.50
1	z	390	GLU	CB-CG-CD	5.26	121.54	112.60
1	B	521	GLN	O-C-N	5.26	127.48	122.07
1	B	580	CYS	N-CA-C	-5.26	101.28	108.38
1	C	111	GLY	N-CA-C	5.26	119.27	112.54
1	E	198	ALA	O-C-N	-5.26	116.03	122.34
1	P	256	GLN	CG-CD-NE2	-5.26	108.52	116.40
1	R	482	LYS	N-CA-C	5.26	116.69	111.07
1	b	441	GLU	CA-C-N	5.25	127.54	120.50
1	b	441	GLU	C-N-CA	5.25	127.54	120.50
1	c	333	ILE	O-C-N	-5.25	117.08	122.23
1	s	318	LEU	CA-C-O	5.25	126.11	120.38
1	t	447	GLU	CB-CG-CD	-5.25	103.67	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	y	695	ARG	CG-CD-NE	-5.25	100.44	112.00
1	A	507	GLN	O-C-N	-5.25	116.07	122.22
1	W	564	ALA	N-CA-C	-5.25	105.61	112.23
1	Z	381	HIS	CE1-NE2-CD2	-5.25	103.75	109.00
1	2	525	GLU	N-CA-C	5.25	116.69	111.07
1	5	676	SER	N-CA-C	5.25	117.00	111.28
1	9	393	ILE	N-CA-CB	5.25	116.70	110.55
1	f	522	LYS	N-CA-C	5.25	117.01	111.28
1	g	337	LEU	N-CA-C	5.25	117.07	110.24
1	g	367	VAL	CA-C-O	-5.25	116.25	119.51
1	g	429	PHE	CA-CB-CG	-5.25	108.55	113.80
1	l	351	GLN	CA-C-O	-5.25	114.98	120.55
1	m	648	ILE	N-CA-C	5.25	115.88	110.36
1	o	384	LYS	N-CA-CB	-5.25	102.39	110.01
1	p	362	GLU	O-C-N	-5.25	116.04	122.34
1	q	170	ARG	O-C-N	-5.25	117.06	123.10
1	s	512	LEU	CA-C-N	5.25	127.18	120.56
1	s	512	LEU	C-N-CA	5.25	127.18	120.56
1	v	373	ARG	N-CA-C	5.25	117.00	111.28
1	x	176	THR	N-CA-C	5.25	116.71	109.15
1	x	185	GLN	CA-C-N	5.25	131.43	121.97
1	x	185	GLN	C-N-CA	5.25	131.43	121.97
1	y	691	ILE	CB-CA-C	-5.25	105.25	111.97
1	E	282	VAL	CB-CA-C	-5.25	105.69	110.63
1	G	454	ILE	O-C-N	-5.25	116.78	121.87
1	I	493	LEU	N-CA-C	5.25	118.37	111.28
1	J	237	GLN	CA-C-O	-5.25	113.50	118.33
1	M	559	LYS	O-C-N	5.25	127.69	122.12
1	M	570	LEU	CA-C-N	5.25	127.32	120.28
1	M	570	LEU	C-N-CA	5.25	127.32	120.28
1	O	399	LYS	CA-C-O	5.25	126.33	120.82
1	S	636	GLU	O-C-N	-5.25	116.46	122.08
1	U	686	ALA	CA-C-O	5.25	125.99	120.42
1	X	248	LEU	CA-C-N	5.25	127.38	120.60
1	X	248	LEU	C-N-CA	5.25	127.38	120.60
1	0	594	GLU	N-CA-C	5.25	117.00	111.28
1	8	627	GLY	CA-C-N	5.25	127.88	120.42
1	8	627	GLY	C-N-CA	5.25	127.88	120.42
1	d	133	SER	O-C-N	-5.25	116.55	122.12
1	d	452	ASN	CA-CB-CG	-5.25	107.35	112.60
1	g	401	THR	N-CA-C	5.25	116.69	111.07
1	h	585	TYR	O-C-N	-5.25	116.55	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	j	663	LYS	CA-C-N	5.25	127.32	120.28
1	j	663	LYS	C-N-CA	5.25	127.32	120.28
1	o	454	ILE	N-CA-C	5.25	115.46	110.42
1	p	514	GLU	CA-C-N	5.25	124.70	119.24
1	p	514	GLU	C-N-CA	5.25	124.70	119.24
1	q	118	LEU	CA-C-N	5.25	125.26	119.90
1	q	118	LEU	C-N-CA	5.25	125.26	119.90
1	s	564	ALA	CA-C-N	5.25	127.75	120.29
1	s	564	ALA	C-N-CA	5.25	127.75	120.29
1	v	311	VAL	CA-C-N	5.25	129.49	120.72
1	v	311	VAL	C-N-CA	5.25	129.49	120.72
1	z	396	SER	CA-C-O	5.25	125.99	120.42
1	A	522	LYS	O-C-N	-5.25	116.16	122.15
1	A	655	ARG	N-CA-C	5.25	116.69	111.07
1	D	682	GLN	O-C-N	-5.25	116.55	122.12
1	L	312	ARG	CG-CD-NE	-5.25	100.45	112.00
1	Q	574	MET	CG-SD-CE	-5.25	89.35	100.90
1	S	678	LEU	CA-C-O	5.25	126.12	120.55
1	T	328	ARG	NE-CZ-NH2	-5.25	114.47	119.20
1	T	468	ASN	N-CA-C	5.25	117.08	111.36
1	V	294	THR	CA-CB-OG1	5.25	117.48	109.60
1	4	281	GLU	N-CA-C	5.25	117.00	111.28
1	d	346	GLU	N-CA-C	5.25	116.69	111.07
1	d	512	LEU	CD1-CG-CD2	5.25	122.35	110.80
1	i	555	ASP	CA-C-O	5.25	126.11	120.55
1	j	544	ASN	CA-C-O	5.25	125.98	120.42
1	u	192	LYS	O-C-N	-5.25	116.56	122.12
1	y	228	GLY	CA-C-O	-5.25	116.05	120.98
1	y	571	GLN	N-CA-C	5.25	117.41	111.11
1	C	132	SER	O-C-N	-5.25	115.30	122.33
1	H	282	VAL	CA-CB-CG1	-5.25	101.47	110.40
1	K	635	LEU	N-CA-C	-5.25	105.47	111.14
1	N	696	ILE	N-CA-C	5.25	115.97	110.62
1	O	156	VAL	N-CA-C	5.25	115.33	107.51
1	O	251	LYS	CA-C-O	5.25	126.03	120.10
1	T	356	PHE	CA-C-N	5.25	128.29	120.31
1	T	356	PHE	C-N-CA	5.25	128.29	120.31
1	6	660	SER	N-CA-CB	5.25	117.93	110.16
1	7	304	GLU	CA-C-N	5.25	127.31	120.28
1	7	304	GLU	C-N-CA	5.25	127.31	120.28
1	b	373	ARG	N-CA-C	5.25	117.41	111.11
1	e	398	GLN	O-C-N	-5.25	116.66	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	f	438	GLU	N-CA-C	5.25	117.00	111.28
1	f	567	MET	CG-SD-CE	-5.25	89.35	100.90
1	l	163	PRO	CB-CA-C	5.25	119.77	112.11
1	o	273	THR	CA-CB-OG1	5.25	117.47	109.60
1	o	510	GLN	N-CA-C	5.25	117.68	111.33
1	q	386	LEU	N-CA-C	5.25	120.75	113.45
1	r	593	ARG	CD-NE-CZ	5.25	131.75	124.40
1	u	231	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	D	238	PRO	O-C-N	-5.25	117.47	123.03
1	F	640	ARG	CD-NE-CZ	5.25	131.75	124.40
1	F	677	TRP	CB-CA-C	5.25	120.03	110.11
1	G	512	LEU	O-C-N	-5.25	115.27	122.46
1	H	316	TYR	CB-CA-C	5.25	119.26	110.55
1	J	421	PHE	N-CA-C	5.25	116.69	111.07
1	N	260	ASN	N-CA-C	5.25	117.31	108.96
1	P	156	VAL	CB-CA-C	-5.25	103.79	110.98
1	S	510	GLN	O-C-N	-5.25	116.08	122.22
1	S	581	GLN	CA-CB-CG	5.25	124.60	114.10
1	V	273	THR	N-CA-C	5.25	117.49	110.35
1	X	675	TYR	CB-CA-C	-5.25	102.08	110.79
1	1	167	TRP	CB-CG-CD1	-5.25	119.03	126.90
1	1	575	GLU	N-CA-C	5.25	118.94	112.54
1	2	632	ALA	O-C-N	-5.25	116.56	122.12
1	3	690	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	5	488	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	6	353	HIS	ND1-CE1-NE2	5.25	113.65	108.40
1	8	287	ASP	CA-C-N	5.25	130.73	122.49
1	8	287	ASP	C-N-CA	5.25	130.73	122.49
1	8	328	ARG	CD-NE-CZ	5.25	131.75	124.40
1	c	251	LYS	O-C-N	5.25	127.68	122.12
1	h	457	ASP	CA-C-O	5.25	126.00	119.97
1	j	574	MET	CA-C-N	5.25	131.57	121.18
1	j	574	MET	C-N-CA	5.25	131.57	121.18
1	k	480	VAL	O-C-N	-5.25	116.43	121.83
1	n	278	MET	CA-C-O	5.25	126.11	120.55
1	t	397	HIS	O-C-N	-5.25	116.42	122.09
1	u	483	TYR	O-C-N	-5.25	116.42	122.09
1	u	704	HIS	CB-CG-CD2	-5.25	124.38	131.20
1	v	487	TYR	CA-C-N	5.25	127.83	120.28
1	v	487	TYR	C-N-CA	5.25	127.83	120.28
1	z	642	ALA	CA-C-N	5.25	127.58	120.44
1	z	642	ALA	C-N-CA	5.25	127.58	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	110	LEU	N-CA-CB	-5.25	101.52	110.33
1	C	119	PRO	N-CA-CB	5.25	107.73	103.32
1	F	505	VAL	N-CA-C	5.25	115.46	110.42
1	G	457	ASP	N-CA-C	5.25	117.00	111.28
1	H	635	LEU	N-CA-C	5.25	116.68	111.07
1	I	192	LYS	O-C-N	-5.25	116.17	122.15
1	L	555	ASP	O-C-N	-5.25	116.56	122.12
1	O	569	GLN	N-CA-C	5.25	117.00	111.28
1	V	674	ARG	NE-CZ-NH2	-5.25	114.48	119.20
1	X	121	ILE	N-CA-C	5.25	116.01	108.93
1	Y	570	LEU	CA-C-N	5.25	127.26	120.44
1	Y	570	LEU	C-N-CA	5.25	127.26	120.44
1	6	649	ILE	N-CA-CB	5.25	116.33	110.51
1	j	689	ARG	CA-C-N	5.25	127.74	120.29
1	j	689	ARG	C-N-CA	5.25	127.74	120.29
1	k	584	ILE	CA-C-N	5.25	127.57	120.38
1	k	584	ILE	C-N-CA	5.25	127.57	120.38
1	t	641	LEU	CA-C-N	5.25	127.57	120.38
1	t	641	LEU	C-N-CA	5.25	127.57	120.38
1	z	313	ASN	N-CA-CB	-5.25	102.88	110.70
1	E	383	GLN	N-CA-C	5.25	117.00	111.28
1	G	525	GLU	N-CA-C	5.25	117.08	111.36
1	I	662	GLN	O-C-N	-5.25	116.67	122.07
1	M	143	LEU	CB-CA-C	5.25	117.65	109.42
1	S	154	PRO	N-CA-C	5.25	123.28	112.47
1	T	377	GLU	O-C-N	-5.25	116.56	122.12
1	0	243	LEU	N-CA-CB	5.24	117.61	110.01
1	a	389	LEU	CA-C-N	5.24	127.26	120.44
1	a	389	LEU	C-N-CA	5.24	127.26	120.44
1	b	229	ILE	O-C-N	-5.24	117.32	122.67
1	c	416	ALA	N-CA-C	5.24	116.68	111.07
1	f	582	ASP	N-CA-CB	5.24	118.33	109.78
1	j	629	HIS	N-CA-CB	5.24	117.83	110.12
1	m	243	LEU	N-CA-C	-5.24	105.16	112.45
1	w	699	LEU	N-CA-CB	5.24	117.83	110.12
1	x	378	LEU	CA-C-N	5.24	127.64	120.46
1	x	378	LEU	C-N-CA	5.24	127.64	120.46
1	y	258	THR	N-CA-C	5.24	117.89	110.50
1	z	367	VAL	O-C-N	-5.24	115.12	121.10
1	D	121	ILE	N-CA-CB	5.24	116.82	110.95
1	D	381	HIS	CB-CG-CD2	-5.24	124.38	131.20
1	D	683	SER	CA-C-N	5.24	127.26	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	683	SER	C-N-CA	5.24	127.26	120.44
1	G	642	ALA	N-CA-CB	5.24	118.30	110.22
1	J	244	GLN	OE1-CD-NE2	5.24	127.84	122.60
1	O	702	ALA	CA-C-N	5.24	127.62	120.54
1	O	702	ALA	C-N-CA	5.24	127.62	120.54
1	Q	411	ILE	N-CA-C	5.24	120.21	108.88
1	S	256	GLN	CG-CD-NE2	5.24	124.26	116.40
1	U	640	ARG	N-CA-C	5.24	116.68	111.07
1	W	105	ASP	CA-C-N	5.24	127.57	120.44
1	W	105	ASP	C-N-CA	5.24	127.57	120.44
1	6	282	VAL	O-C-N	-5.24	116.96	122.20
1	a	578	VAL	N-CA-C	5.24	120.24	109.34
1	c	423	ILE	CA-C-N	5.24	127.30	120.28
1	c	423	ILE	C-N-CA	5.24	127.30	120.28
1	e	544	ASN	N-CA-C	5.24	117.07	111.36
1	l	698	ARG	O-C-N	-5.24	116.67	122.07
1	p	503	ILE	CB-CA-C	-5.24	104.99	112.22
1	q	634	PHE	N-CA-C	5.24	116.99	111.28
1	v	381	HIS	CG-CD2-NE2	5.24	112.44	107.20
1	x	477	HIS	CA-CB-CG	-5.24	108.56	113.80
1	I	104	ILE	CA-CB-CG2	-5.24	101.59	110.50
1	I	256	GLN	N-CA-C	5.24	117.90	111.82
1	O	126	ASP	N-CA-C	5.24	115.16	108.24
1	Y	475	ILE	N-CA-CB	5.24	116.68	110.55
1	1	420	PHE	CA-CB-CG	5.24	119.04	113.80
1	2	236	ASN	CA-CB-CG	5.24	117.84	112.60
1	3	468	ASN	CA-C-N	5.24	127.30	120.28
1	3	468	ASN	C-N-CA	5.24	127.30	120.28
1	8	110	LEU	CA-C-N	5.24	128.01	121.83
1	8	110	LEU	C-N-CA	5.24	128.01	121.83
1	8	217	GLU	N-CA-C	5.24	119.66	113.16
1	a	546	ASN	CB-CG-ND2	5.24	124.26	116.40
1	b	320	LYS	N-CA-C	-5.24	106.12	112.88
1	c	475	ILE	CA-C-O	-5.24	115.61	121.17
1	p	697	TYR	CA-CB-CG	5.24	123.33	113.90
1	s	479	GLU	N-CA-C	-5.24	106.39	112.89
1	v	571	GLN	O-C-N	-5.24	116.56	122.12
1	x	355	TYR	CA-C-O	-5.24	114.99	120.55
1	y	629	HIS	CG-CD2-NE2	5.24	112.44	107.20
1	C	585	TYR	N-CA-C	5.24	117.40	111.11
1	D	657	ASN	CA-CB-CG	5.24	117.84	112.60
1	D	698	ARG	NH1-CZ-NH2	5.24	126.11	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	523	ALA	O-C-N	5.24	127.47	122.07
1	I	263	VAL	CA-C-N	5.24	127.41	122.85
1	I	263	VAL	C-N-CA	5.24	127.41	122.85
1	N	285	GLU	O-C-N	-5.24	115.14	122.37
1	N	549	VAL	N-CA-CB	5.24	116.68	110.55
1	Q	316	TYR	O-C-N	-5.24	116.19	121.27
1	Q	331	GLN	O-C-N	-5.24	115.23	122.46
1	R	437	VAL	N-CA-C	5.24	115.97	110.62
1	W	671	GLU	O-C-N	-5.24	117.18	123.31
1	X	253	ILE	CA-CB-CG2	-5.24	101.59	110.50
1	Z	511	GLN	OE1-CD-NE2	-5.24	117.36	122.60
1	0	692	LEU	N-CA-CB	5.24	118.40	110.28
1	1	537	LYS	N-CA-C	5.24	116.99	111.28
1	2	336	ARG	NE-CZ-NH2	-5.24	114.49	119.20
1	4	560	HIS	CA-CB-CG	-5.24	108.56	113.80
1	b	182	ASP	CA-C-N	5.24	125.55	119.47
1	b	182	ASP	C-N-CA	5.24	125.55	119.47
1	e	657	ASN	O-C-N	-5.24	116.67	122.07
1	f	308	MET	N-CA-C	5.24	116.99	111.28
1	m	593	ARG	CG-CD-NE	-5.24	100.48	112.00
1	n	357	ARG	NE-CZ-NH2	-5.24	114.48	119.20
1	o	353	HIS	CE1-NE2-CD2	-5.24	103.76	109.00
1	q	173	TYR	CB-CG-CD1	-5.24	112.94	120.80
1	r	181	GLN	OE1-CD-NE2	-5.24	117.36	122.60
1	r	643	ASN	CA-CB-CG	-5.24	107.36	112.60
1	u	120	ALA	CA-C-N	5.24	129.13	121.80
1	u	120	ALA	C-N-CA	5.24	129.13	121.80
1	u	434	GLU	CB-CG-CD	5.24	121.51	112.60
1	w	565	GLU	CA-CB-CG	5.24	124.58	114.10
1	x	462	VAL	N-CA-C	5.24	117.64	111.09
1	A	332	GLU	CA-C-O	5.24	126.32	120.82
1	C	676	SER	CA-C-N	5.24	127.30	120.28
1	C	676	SER	C-N-CA	5.24	127.30	120.28
1	E	686	ALA	CA-C-O	-5.24	115.32	120.82
1	I	494	GLY	CA-C-O	-5.24	115.74	121.71
1	I	677	TRP	CA-C-O	5.24	126.06	120.24
1	O	278	MET	N-CA-CB	5.24	117.82	110.12
1	O	498	TYR	CA-C-N	5.24	127.25	120.44
1	O	498	TYR	C-N-CA	5.24	127.25	120.44
1	P	592	VAL	N-CA-C	5.24	116.01	110.72
1	T	350	PHE	N-CA-C	5.24	117.40	111.11
1	U	244	GLN	CB-CG-CD	5.24	121.51	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	199	GLY	CA-C-O	5.24	126.23	119.68
1	W	231	ARG	NE-CZ-NH2	5.24	123.91	119.20
1	W	394	ARG	CA-C-N	5.24	127.61	120.54
1	W	394	ARG	C-N-CA	5.24	127.61	120.54
1	Z	356	PHE	N-CA-C	5.24	116.99	111.28
1	1	624	THR	CA-CB-OG1	5.24	117.45	109.60
1	5	560	HIS	CE1-NE2-CD2	-5.24	103.76	109.00
1	6	224	ILE	CA-C-O	5.24	127.20	120.97
1	9	554	GLU	O-C-N	-5.24	116.18	122.15
1	b	431	GLN	N-CA-C	5.24	117.39	111.11
1	d	564	ALA	N-CA-C	5.24	116.67	111.07
1	A	526	ILE	CA-C-N	5.24	127.86	120.42
1	A	526	ILE	C-N-CA	5.24	127.86	120.42
1	E	474	ASN	CA-C-N	5.24	127.25	120.70
1	E	474	ASN	C-N-CA	5.24	127.25	120.70
1	K	245	ILE	CA-C-N	5.24	127.61	120.54
1	K	245	ILE	C-N-CA	5.24	127.61	120.54
1	K	548	THR	N-CA-C	5.24	116.67	111.07
1	M	466	ALA	CA-C-N	5.24	127.25	120.44
1	M	466	ALA	C-N-CA	5.24	127.25	120.44
1	Q	373	ARG	NH1-CZ-NH2	5.24	126.11	119.30
1	U	556	ILE	CB-CA-C	-5.24	105.22	112.24
1	3	263	VAL	CA-CB-CG1	-5.24	101.50	110.40
1	5	675	TYR	N-CA-C	5.24	119.96	111.37
1	6	667	GLN	OE1-CD-NE2	-5.24	117.36	122.60
1	a	115	ASP	CA-CB-CG	-5.24	107.36	112.60
1	d	362	GLU	N-CA-C	5.24	119.29	113.01
1	d	555	ASP	CA-C-N	5.24	127.16	120.56
1	d	555	ASP	C-N-CA	5.24	127.16	120.56
1	e	544	ASN	N-CA-CB	5.24	117.91	110.16
1	f	366	THR	CA-C-N	5.24	131.82	122.13
1	f	366	THR	C-N-CA	5.24	131.82	122.13
1	f	465	LEU	N-CA-C	5.24	116.67	111.07
1	g	438	GLU	N-CA-C	5.24	117.73	111.71
1	h	280	HIS	N-CA-C	5.24	116.99	111.28
1	v	524	MET	CG-SD-CE	-5.24	89.38	100.90
1	w	110	LEU	N-CA-CB	-5.24	103.06	110.81
1	w	538	HIS	CG-CD2-NE2	5.24	112.44	107.20
1	A	312	ARG	CG-CD-NE	-5.24	100.48	112.00
1	B	111	GLY	O-C-N	-5.24	115.93	122.84
1	F	506	HIS	CE1-NE2-CD2	-5.24	103.76	109.00
1	G	640	ARG	NE-CZ-NH1	5.24	126.73	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	212	GLU	O-C-N	-5.24	117.15	123.27
1	H	304	GLU	O-C-N	5.24	127.46	122.07
1	I	145	ARG	CA-C-N	5.24	128.50	120.07
1	I	145	ARG	C-N-CA	5.24	128.50	120.07
1	I	466	ALA	O-C-N	-5.24	116.57	122.12
1	N	467	THR	CA-C-O	5.24	126.10	120.55
1	P	684	GLU	CB-CA-C	-5.24	102.66	110.88
1	0	561	THR	CA-C-N	5.23	127.72	120.29
1	0	561	THR	C-N-CA	5.23	127.72	120.29
1	0	649	ILE	CB-CA-C	-5.23	105.27	111.97
1	5	488	ARG	CB-CA-C	-5.23	101.95	110.85
1	6	630	LEU	CA-C-N	5.23	127.55	120.38
1	6	630	LEU	C-N-CA	5.23	127.55	120.38
1	8	569	GLN	N-CA-C	5.23	116.98	111.28
1	d	395	GLU	CA-C-N	5.23	128.27	120.31
1	d	395	GLU	C-N-CA	5.23	128.27	120.31
1	J	574	MET	N-CA-C	5.23	116.98	111.28
1	M	459	LYS	CG-CD-CE	5.23	123.34	111.30
1	R	501	PHE	O-C-N	-5.23	116.57	122.12
1	Y	458	PHE	N-CA-C	5.23	116.98	111.28
1	Y	565	GLU	N-CA-C	5.23	116.67	111.07
1	0	623	PHE	O-C-N	5.23	128.53	122.20
1	2	276	LEU	N-CA-CB	5.23	117.60	110.01
1	3	131	LYS	O-C-N	-5.23	116.57	122.12
1	d	145	ARG	NE-CZ-NH2	5.23	123.91	119.20
1	j	332	GLU	CB-CG-CD	-5.23	103.70	112.60
1	o	236	ASN	O-C-N	5.23	128.88	122.34
1	o	384	LYS	O-C-N	-5.23	116.68	122.07
1	z	560	HIS	CA-C-N	5.23	127.24	120.44
1	z	560	HIS	C-N-CA	5.23	127.24	120.44
1	A	502	GLU	O-C-N	-5.23	116.57	122.12
1	A	665	MET	N-CA-C	5.23	117.66	111.33
1	I	428	MET	CA-C-N	5.23	127.56	120.44
1	I	428	MET	C-N-CA	5.23	127.56	120.44
1	K	108	ARG	NE-CZ-NH2	5.23	123.91	119.20
1	K	586	SER	O-C-N	-5.23	116.57	122.12
1	N	310	VAL	N-CA-CB	5.23	120.24	110.77
1	O	456	GLU	N-CA-CB	5.23	117.81	110.12
1	S	117	ALA	N-CA-C	5.23	117.89	111.82
1	X	115	ASP	CA-CB-CG	-5.23	107.37	112.60
1	X	375	THR	CA-C-O	5.23	126.50	120.90
1	0	593	ARG	CA-C-O	5.23	126.09	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	304	GLU	CA-C-N	5.23	128.01	120.38
1	2	304	GLU	C-N-CA	5.23	128.01	120.38
1	4	640	ARG	NH1-CZ-NH2	-5.23	112.50	119.30
1	6	318	LEU	CB-CA-C	-5.23	102.42	110.26
1	8	190	ILE	CA-C-N	5.23	127.24	120.44
1	8	190	ILE	C-N-CA	5.23	127.24	120.44
1	a	168	ALA	CB-CA-C	-5.23	99.03	109.33
1	b	151	THR	N-CA-CB	5.23	117.73	109.83
1	c	337	LEU	CA-C-N	5.23	128.51	120.82
1	c	337	LEU	C-N-CA	5.23	128.51	120.82
1	c	562	ALA	N-CA-C	5.23	116.98	111.28
1	i	634	PHE	O-C-N	-5.23	115.84	122.27
1	j	458	PHE	CA-C-N	5.23	127.24	120.44
1	j	458	PHE	C-N-CA	5.23	127.24	120.44
1	k	401	THR	N-CA-CB	5.23	117.59	110.01
1	m	208	LEU	CA-C-N	5.23	129.55	121.71
1	m	208	LEU	C-N-CA	5.23	129.55	121.71
1	n	276	LEU	O-C-N	-5.23	115.24	122.46
1	t	703	ARG	NH1-CZ-NH2	-5.23	112.50	119.30
1	y	574	MET	CA-C-N	5.23	128.26	120.31
1	y	574	MET	C-N-CA	5.23	128.26	120.31
1	F	229	ILE	O-C-N	-5.23	116.97	122.83
1	I	154	PRO	O-C-N	-5.23	115.58	122.64
1	N	180	LEU	N-CA-C	5.23	118.92	112.54
1	N	375	THR	O-C-N	-5.23	116.10	122.22
1	N	702	ALA	N-CA-CB	5.23	117.55	109.91
1	P	418	LYS	N-CA-CB	5.23	117.73	109.94
1	P	488	ARG	NE-CZ-NH2	-5.23	114.49	119.20
1	Q	136	GLU	O-C-N	-5.23	116.58	122.12
1	V	227	PRO	CA-C-O	-5.23	115.45	121.36
1	3	573	ARG	N-CA-C	5.23	116.98	111.28
1	4	520	LEU	CA-C-O	5.23	126.09	120.70
1	4	671	GLU	O-C-N	-5.23	116.06	123.01
1	8	481	GLU	N-CA-C	5.23	116.98	111.28
1	c	246	LYS	CA-C-N	5.23	127.24	120.44
1	c	246	LYS	C-N-CA	5.23	127.24	120.44
1	l	297	ASP	CA-C-O	5.23	125.54	119.32
1	p	501	PHE	N-CA-C	5.23	117.66	111.33
1	p	548	THR	N-CA-C	5.23	117.40	111.02
1	y	226	LEU	CA-C-O	-5.23	115.24	120.63
1	z	689	ARG	NE-CZ-NH2	5.23	123.91	119.20
1	E	279	ALA	N-CA-CB	-5.23	102.43	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	702	ALA	CA-C-N	5.23	127.29	120.28
1	P	702	ALA	C-N-CA	5.23	127.29	120.28
1	Y	237	GLN	N-CA-C	5.23	117.73	110.20
1	0	630	LEU	O-C-N	-5.23	116.49	122.08
1	4	367	VAL	CA-C-N	5.23	125.52	119.93
1	4	367	VAL	C-N-CA	5.23	125.52	119.93
1	9	154	PRO	O-C-N	-5.23	115.58	122.64
1	b	372	GLU	N-CA-C	5.23	116.66	111.07
1	e	422	LEU	N-CA-CB	-5.23	102.44	110.12
1	f	297	ASP	CB-CA-C	5.23	118.16	109.38
1	g	345	LYS	N-CA-C	5.23	116.78	111.14
1	o	242	GLY	O-C-N	-5.23	116.81	122.19
1	p	668	ILE	N-CA-C	5.23	115.85	110.36
1	t	663	LYS	CA-C-N	5.23	127.28	120.28
1	t	663	LYS	C-N-CA	5.23	127.28	120.28
1	z	562	ALA	CA-C-O	-5.23	114.98	120.63
1	D	526	ILE	CB-CA-C	5.23	118.66	111.97
1	E	534	VAL	N-CA-CB	5.23	116.67	110.55
1	H	429	PHE	O-C-N	-5.23	116.19	122.15
1	K	563	LYS	CA-C-N	5.23	127.23	120.44
1	K	563	LYS	C-N-CA	5.23	127.23	120.44
1	N	315	THR	N-CA-CB	5.23	117.90	110.16
1	P	191	HIS	N-CA-C	5.23	117.38	111.11
1	Q	409	ALA	O-C-N	-5.23	116.89	122.85
1	U	437	VAL	CA-C-N	5.23	130.29	121.14
1	U	437	VAL	C-N-CA	5.23	130.29	121.14
1	Z	170	ARG	NE-CZ-NH2	-5.23	114.50	119.20
1	6	386	LEU	CA-C-O	-5.23	113.52	118.33
1	e	564	ALA	N-CA-C	5.23	117.88	111.82
1	f	282	VAL	O-C-N	-5.23	114.20	122.04
1	u	699	LEU	O-C-N	-5.23	116.58	122.12
1	v	208	LEU	CA-C-N	5.23	131.05	122.64
1	v	208	LEU	C-N-CA	5.23	131.05	122.64
1	z	156	VAL	O-C-N	-5.23	116.56	122.94
1	E	526	ILE	CA-C-N	5.23	127.14	120.56
1	E	526	ILE	C-N-CA	5.23	127.14	120.56
1	H	325	VAL	O-C-N	-5.23	117.33	122.76
1	L	500	THR	O-C-N	5.23	127.66	122.12
1	M	395	GLU	CA-C-O	5.23	126.31	120.82
1	Q	372	GLU	CA-C-O	5.23	126.31	120.82
1	S	483	TYR	N-CA-C	5.23	116.66	111.07
1	U	325	VAL	CA-C-N	5.23	129.37	122.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	325	VAL	C-N-CA	5.23	129.37	122.42
1	U	657	ASN	CA-C-O	5.23	126.27	120.63
1	Y	527	ILE	CA-C-N	-5.23	112.87	120.29
1	Y	527	ILE	C-N-CA	-5.23	112.87	120.29
1	Y	690	ARG	NE-CZ-NH1	5.23	126.73	121.50
1	0	365	ALA	N-CA-CB	-5.22	103.31	111.56
1	2	538	HIS	CG-CD2-NE2	5.22	112.42	107.20
1	4	358	VAL	CA-C-O	-5.22	115.52	120.95
1	4	579	PHE	N-CA-CB	-5.22	102.72	110.71
1	6	467	THR	CA-CB-OG1	5.22	117.44	109.60
1	7	404	LEU	O-C-N	-5.22	116.19	122.15
1	9	151	THR	CA-C-O	5.22	127.09	121.55
1	d	486	GLN	CB-CG-CD	5.22	121.48	112.60
1	i	388	LEU	N-CA-C	5.22	116.66	111.07
1	i	704	HIS	N-CA-C	5.22	116.66	111.07
1	k	130	GLY	O-C-N	-5.22	117.21	122.54
1	o	268	VAL	CA-C-O	5.22	126.78	120.67
1	o	710	SER	N-CA-C	5.22	118.91	112.54
1	p	369	ARG	CA-C-N	5.22	127.23	120.44
1	p	369	ARG	C-N-CA	5.22	127.23	120.44
1	t	145	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	t	232	VAL	O-C-N	-5.22	117.33	122.76
1	u	506	HIS	CB-CA-C	-5.22	102.12	110.79
1	C	575	GLU	CA-CB-CG	-5.22	103.65	114.10
1	I	559	LYS	O-C-N	-5.22	116.66	122.09
1	J	474	ASN	O-C-N	-5.22	116.11	122.22
1	N	276	LEU	N-CA-C	5.22	117.06	111.36
1	O	263	VAL	O-C-N	-5.22	117.23	123.03
1	P	640	ARG	N-CA-C	5.22	116.97	111.28
1	Q	629	HIS	CA-CB-CG	-5.22	108.58	113.80
1	S	389	LEU	N-CA-CB	5.22	117.80	110.12
1	S	677	TRP	CG-CD2-CE3	-5.22	128.68	133.90
1	X	123	VAL	N-CA-C	5.22	115.62	107.99
1	1	272	THR	CA-CB-CG2	5.22	119.38	110.50
1	2	102	ASP	N-CA-C	5.22	116.97	111.28
1	7	310	VAL	N-CA-CB	5.22	120.22	110.77
1	8	684	GLU	N-CA-CB	-5.22	102.43	110.16
1	a	98	ARG	CG-CD-NE	-5.22	100.51	112.00
1	a	191	HIS	CG-CD2-NE2	5.22	112.42	107.20
1	m	455	ARG	CA-C-N	5.22	127.59	120.54
1	m	455	ARG	C-N-CA	5.22	127.59	120.54
1	p	396	SER	CA-C-O	5.22	126.30	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	r	586	SER	O-C-N	-5.22	116.58	122.12
1	u	376	THR	O-C-N	-5.22	116.58	122.12
1	u	454	ILE	CA-CB-CG1	5.22	119.28	110.40
1	v	386	LEU	CA-C-O	-5.22	113.83	118.63
1	z	260	ASN	OD1-CG-ND2	-5.22	117.38	122.60
1	E	488	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	E	504	ILE	CA-C-O	-5.22	115.31	120.85
1	G	376	THR	N-CA-CB	5.22	117.89	110.16
1	H	506	HIS	CG-CD2-NE2	5.22	112.42	107.20
1	I	460	ASN	CA-CB-CG	-5.22	107.38	112.60
1	P	677	TRP	CB-CG-CD2	-5.22	119.49	126.80
1	S	131	LYS	CA-CB-CG	5.22	124.54	114.10
1	S	519	MET	CA-C-N	5.22	127.23	120.44
1	S	519	MET	C-N-CA	5.22	127.23	120.44
1	S	638	SER	N-CA-C	5.22	116.97	111.28
1	V	584	ILE	CA-C-N	5.22	127.28	120.28
1	V	584	ILE	C-N-CA	5.22	127.28	120.28
1	W	256	GLN	OE1-CD-NE2	-5.22	117.38	122.60
1	W	397	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	Z	500	THR	CB-CA-C	-5.22	102.12	110.79
1	7	255	ARG	NE-CZ-NH2	5.22	123.90	119.20
1	b	437	VAL	CA-C-N	5.22	127.28	120.28
1	b	437	VAL	C-N-CA	5.22	127.28	120.28
1	c	672	LYS	N-CA-C	5.22	116.97	111.28
1	d	689	ARG	CG-CD-NE	-5.22	100.51	112.00
1	n	655	ARG	N-CA-C	5.22	116.78	111.14
1	w	382	ILE	N-CA-CB	5.22	116.66	110.55
1	C	562	ALA	N-CA-C	5.22	116.97	111.28
1	E	195	ASN	N-CA-C	5.22	117.05	111.36
1	G	126	ASP	CA-CB-CG	5.22	117.82	112.60
1	G	382	ILE	N-CA-CB	5.22	116.66	110.55
1	Q	454	ILE	CA-CB-CG2	-5.22	101.62	110.50
1	R	679	LEU	O-C-N	-5.22	115.93	122.35
1	U	460	ASN	CA-CB-CG	-5.22	107.38	112.60
1	W	372	GLU	CG-CD-OE2	5.22	130.41	118.40
1	X	137	ALA	N-CA-C	5.22	117.72	111.71
1	0	115	ASP	N-CA-CB	5.22	119.31	110.49
1	4	651	TYR	O-C-N	-5.22	116.39	122.03
1	8	380	MET	O-C-N	-5.22	116.59	122.12
1	9	390	GLU	CA-C-N	5.22	125.73	119.94
1	9	390	GLU	C-N-CA	5.22	125.73	119.94
1	a	135	LEU	N-CA-C	5.22	117.87	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	d	518	SER	N-CA-C	5.22	117.65	111.33
1	h	560	HIS	ND1-CE1-NE2	5.22	113.62	108.40
1	l	233	ALA	N-CA-C	5.22	117.45	110.35
1	m	193	ALA	N-CA-C	5.22	116.65	111.07
1	m	516	ALA	N-CA-C	5.22	117.05	111.36
1	n	666	MET	CA-C-N	5.22	127.28	120.28
1	n	666	MET	C-N-CA	5.22	127.28	120.28
1	n	672	LYS	N-CA-C	5.22	117.87	111.82
1	x	129	SER	CB-CA-C	-5.22	100.97	110.63
1	A	527	ILE	N-CA-C	5.22	115.99	110.72
1	C	708	GLN	O-C-N	-5.22	116.59	122.12
1	D	341	GLU	CA-C-O	5.22	126.30	120.82
1	K	596	ILE	CA-C-N	5.22	127.23	120.44
1	K	596	ILE	C-N-CA	5.22	127.23	120.44
1	S	264	VAL	CA-C-N	5.22	125.50	119.92
1	S	264	VAL	C-N-CA	5.22	125.50	119.92
1	T	472	VAL	N-CA-C	5.22	115.94	110.62
1	T	518	SER	N-CA-C	5.22	116.97	111.28
1	V	258	THR	CA-C-N	5.22	128.08	120.98
1	V	258	THR	C-N-CA	5.22	128.08	120.98
1	X	309	ASN	CB-CA-C	5.22	119.07	110.88
1	Z	303	THR	CA-CB-CG2	-5.22	101.63	110.50
1	6	562	ALA	CA-C-N	5.22	127.22	120.44
1	6	562	ALA	C-N-CA	5.22	127.22	120.44
1	c	226	LEU	CA-C-O	-5.22	115.27	120.64
1	d	380	MET	CA-C-O	5.22	125.78	119.31
1	o	640	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	w	405	ARG	N-CA-C	5.22	117.71	111.71
1	x	405	ARG	CA-C-O	5.22	126.08	120.55
1	z	168	ALA	O-C-N	-5.22	116.99	123.36
1	z	666	MET	O-C-N	-5.22	115.44	122.43
1	A	291	GLY	CA-C-O	-5.22	116.53	120.76
1	E	411	ILE	N-CA-C	5.22	120.15	108.88
1	G	343	THR	O-C-N	-5.22	116.59	122.12
1	I	688	LYS	CA-C-N	5.22	127.22	120.44
1	I	688	LYS	C-N-CA	5.22	127.22	120.44
1	K	183	PRO	O-C-N	-5.22	115.60	122.64
1	L	469	THR	N-CA-C	5.22	117.71	111.71
1	R	626	ILE	N-CA-C	5.22	115.94	110.62
1	1	351	GLN	N-CA-C	5.22	116.97	111.28
1	2	136	GLU	CA-C-N	5.22	128.24	120.31
1	2	136	GLU	C-N-CA	5.22	128.24	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3	297	ASP	CA-C-O	5.22	125.34	119.18
1	5	412	PRO	CB-CA-C	5.22	116.25	111.87
1	6	350	PHE	CA-CB-CG	-5.22	108.58	113.80
1	6	350	PHE	N-CA-CB	5.22	117.79	110.12
1	g	112	VAL	CA-CB-CG2	5.22	119.27	110.40
1	g	233	ALA	O-C-N	-5.22	117.27	123.22
1	g	364	SER	CA-C-O	5.22	127.97	120.51
1	h	234	VAL	N-CA-CB	5.22	116.22	110.53
1	i	425	LYS	CA-C-O	5.22	126.48	120.90
1	j	436	LEU	CA-C-N	5.22	127.33	120.60
1	j	436	LEU	C-N-CA	5.22	127.33	120.60
1	k	588	VAL	N-CA-C	5.22	115.94	110.62
1	n	216	PRO	CA-C-N	5.22	127.53	120.44
1	n	216	PRO	C-N-CA	5.22	127.53	120.44
1	n	563	LYS	O-C-N	-5.22	116.70	122.07
1	q	663	LYS	CA-C-N	5.22	127.27	120.28
1	q	663	LYS	C-N-CA	5.22	127.27	120.28
1	s	593	ARG	O-C-N	-5.22	116.70	122.07
1	v	392	GLN	N-CA-C	5.22	117.05	111.36
1	x	195	ASN	N-CA-C	5.22	117.05	111.36
1	B	366	THR	CA-C-N	5.22	131.78	122.13
1	B	366	THR	C-N-CA	5.22	131.78	122.13
1	D	339	LEU	CA-C-N	5.22	127.70	120.29
1	D	339	LEU	C-N-CA	5.22	127.70	120.29
1	E	563	LYS	CA-C-N	5.22	127.54	120.65
1	E	563	LYS	C-N-CA	5.22	127.54	120.65
1	I	526	ILE	O-C-N	-5.22	116.81	121.87
1	Q	277	SER	N-CA-CB	5.22	117.88	110.16
1	T	354	PRO	O-C-N	5.22	128.75	122.23
1	X	501	PHE	O-C-N	-5.22	116.59	122.12
1	0	631	ASN	OD1-CG-ND2	-5.21	117.39	122.60
1	1	382	ILE	N-CA-CB	5.21	116.65	110.55
1	1	691	ILE	N-CA-CB	5.21	117.25	110.57
1	2	590	LYS	O-C-N	5.21	127.65	122.12
1	5	207	GLU	CA-C-N	5.21	128.27	120.87
1	5	207	GLU	C-N-CA	5.21	128.27	120.87
1	6	279	ALA	N-CA-C	5.21	117.71	111.71
1	7	406	ARG	CA-C-O	5.21	126.08	120.55
1	9	229	ILE	O-C-N	-5.21	116.99	122.67
1	a	666	MET	CA-C-O	5.21	125.39	119.18
1	b	571	GLN	O-C-N	-5.21	116.67	122.09
1	e	151	THR	N-CA-CB	5.21	117.32	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	202	ARG	CD-NE-CZ	5.21	131.70	124.40
1	f	700	THR	CA-C-N	5.21	127.22	120.44
1	f	700	THR	C-N-CA	5.21	127.22	120.44
1	q	119	PRO	N-CA-C	5.21	119.39	111.15
1	q	175	ASN	CB-CA-C	5.21	120.80	110.42
1	w	217	GLU	CA-C-O	5.21	126.36	120.00
1	x	649	ILE	CA-C-N	5.21	127.22	120.44
1	x	649	ILE	C-N-CA	5.21	127.22	120.44
1	z	626	ILE	N-CA-C	5.21	115.94	110.62
1	H	662	GLN	CG-CD-NE2	5.21	124.22	116.40
1	K	214	THR	CA-CB-OG1	5.21	117.42	109.60
1	K	462	VAL	N-CA-C	5.21	116.56	110.62
1	N	531	PHE	CA-CB-CG	-5.21	108.58	113.80
1	P	371	ALA	N-CA-C	5.21	116.65	111.07
1	S	94	GLU	CA-C-N	5.21	127.22	120.44
1	S	94	GLU	C-N-CA	5.21	127.22	120.44
1	S	167	TRP	CG-CD2-CE3	5.21	139.11	133.90
1	S	303	THR	CA-CB-CG2	-5.21	101.64	110.50
1	T	697	TYR	CB-CA-C	5.21	119.07	110.88
1	U	333	ILE	CA-C-N	5.21	127.27	120.28
1	U	333	ILE	C-N-CA	5.21	127.27	120.28
1	U	415	GLU	N-CA-C	5.21	117.71	111.71
1	4	504	ILE	CA-C-N	5.21	127.60	120.46
1	4	504	ILE	C-N-CA	5.21	127.60	120.46
1	6	256	GLN	CA-C-O	5.21	125.99	120.10
1	8	389	LEU	N-CA-C	5.21	116.96	111.28
1	9	428	MET	CG-SD-CE	-5.21	89.43	100.90
1	e	417	ASP	CA-C-O	-5.21	113.64	119.79
1	k	275	ALA	N-CA-CB	-5.21	102.24	110.06
1	q	449	ARG	O-C-N	-5.21	116.24	122.65
1	x	93	TYR	CB-CA-C	5.21	120.00	110.10
1	B	307	VAL	CA-CB-CG2	-5.21	101.54	110.40
1	B	474	ASN	OD1-CG-ND2	-5.21	117.39	122.60
1	H	636	GLU	N-CA-C	5.21	118.80	112.23
1	M	188	LYS	O-C-N	-5.21	116.59	122.12
1	M	437	VAL	CB-CA-C	-5.21	103.81	112.26
1	N	495	PHE	N-CA-CB	5.21	119.36	110.50
1	N	569	GLN	CA-C-O	5.21	126.08	120.55
1	P	359	LEU	N-CA-C	5.21	117.04	111.36
1	W	283	ASP	CB-CA-C	-5.21	104.19	110.81
1	X	262	VAL	CB-CA-C	-5.21	103.94	111.19
1	Z	338	SER	O-C-N	-5.21	116.46	122.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	0	679	LEU	N-CA-CB	-5.21	102.47	110.44
1	2	254	GLN	N-CA-C	5.21	119.48	113.18
1	3	285	GLU	CB-CG-CD	5.21	121.46	112.60
1	3	561	THR	N-CA-CB	5.21	117.78	110.12
1	4	108	ARG	N-CA-C	5.21	117.86	111.82
1	4	451	TYR	CA-CB-CG	-5.21	104.52	113.90
1	4	567	MET	CA-C-O	5.21	126.07	120.55
1	5	349	PHE	N-CA-C	5.21	116.65	111.07
1	8	474	ASN	OD1-CG-ND2	-5.21	117.39	122.60
1	b	196	VAL	N-CA-CB	-5.21	103.45	110.54
1	b	421	PHE	CA-CB-CG	-5.21	108.59	113.80
1	b	685	THR	O-C-N	-5.21	116.59	122.12
1	c	244	GLN	CA-C-O	5.21	125.94	119.79
1	d	513	VAL	CA-CB-CG2	-5.21	101.54	110.40
1	h	419	MET	CA-C-N	5.21	127.22	120.44
1	h	419	MET	C-N-CA	5.21	127.22	120.44
1	j	545	LEU	CA-C-O	5.21	126.08	120.55
1	o	583	GLN	N-CA-C	-5.21	106.78	112.72
1	p	361	GLU	N-CA-C	5.21	119.97	111.37
1	r	246	LYS	CA-C-N	5.21	127.22	120.44
1	r	246	LYS	C-N-CA	5.21	127.22	120.44
1	x	636	GLU	CB-CA-C	5.21	119.44	110.79
1	D	241	ILE	N-CA-C	5.21	115.83	110.36
1	D	488	ARG	NE-CZ-NH1	5.21	126.71	121.50
1	J	333	ILE	O-C-N	-5.21	116.05	122.88
1	L	105	ASP	CA-CB-CG	5.21	117.81	112.60
1	L	568	ILE	CA-C-N	5.21	128.23	120.31
1	L	568	ILE	C-N-CA	5.21	128.23	120.31
1	N	191	HIS	N-CA-C	5.21	116.96	111.28
1	O	381	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	1	234	VAL	CA-C-N	5.21	127.26	120.28
1	1	234	VAL	C-N-CA	5.21	127.26	120.28
1	1	389	LEU	CA-C-N	5.21	128.03	120.79
1	1	389	LEU	C-N-CA	5.21	128.03	120.79
1	d	395	GLU	O-C-N	-5.21	116.21	122.15
1	e	555	ASP	CA-C-N	5.21	127.12	120.56
1	e	555	ASP	C-N-CA	5.21	127.12	120.56
1	i	548	THR	N-CA-CB	5.21	117.74	109.82
1	l	418	LYS	N-CA-C	5.21	116.96	111.28
1	p	696	ILE	N-CA-C	5.21	115.83	110.36
1	B	311	VAL	O-C-N	5.21	126.92	121.87
1	C	145	ARG	NE-CZ-NH2	-5.21	114.51	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	679	LEU	CA-C-N	5.21	128.73	121.02
1	C	679	LEU	C-N-CA	5.21	128.73	121.02
1	E	485	LYS	CA-C-O	5.21	125.30	119.41
1	K	288	ARG	NE-CZ-NH1	5.21	126.71	121.50
1	M	356	PHE	N-CA-C	5.21	116.96	111.28
1	N	653	MET	N-CA-C	5.21	117.86	111.82
1	Y	154	PRO	N-CA-C	5.21	123.20	112.47
1	Y	650	GLN	O-C-N	-5.21	116.60	122.12
1	0	235	ASP	CA-C-N	5.21	130.95	122.67
1	0	235	ASP	C-N-CA	5.21	130.95	122.67
1	0	274	GLU	CA-C-N	5.21	128.03	120.79
1	0	274	GLU	C-N-CA	5.21	128.03	120.79
1	3	149	ILE	CA-C-N	5.21	131.34	121.97
1	3	149	ILE	C-N-CA	5.21	131.34	121.97
1	6	443	VAL	N-CA-CB	5.21	117.75	110.56
1	a	518	SER	N-CA-CB	5.21	117.78	110.12
1	a	560	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	a	568	ILE	CA-C-O	5.21	126.69	121.17
1	c	586	SER	CA-C-N	5.21	127.82	120.42
1	c	586	SER	C-N-CA	5.21	127.82	120.42
1	f	348	THR	CA-C-N	5.21	127.21	120.44
1	f	348	THR	C-N-CA	5.21	127.21	120.44
1	l	343	THR	O-C-N	-5.21	116.21	122.15
1	t	650	GLN	N-CA-C	5.21	116.96	111.28
1	v	479	GLU	CA-C-O	5.21	125.94	120.42
1	x	394	ARG	O-C-N	-5.21	116.71	122.07
1	B	123	VAL	O-C-N	-5.21	116.58	122.94
1	B	690	ARG	NH1-CZ-NH2	-5.21	112.53	119.30
1	L	174	ARG	NE-CZ-NH2	-5.21	114.51	119.20
1	Q	202	ARG	NE-CZ-NH2	-5.21	114.51	119.20
1	T	98	ARG	NE-CZ-NH1	5.21	126.71	121.50
1	T	534	VAL	O-C-N	-5.21	116.82	121.87
1	U	701	GLN	N-CA-CB	-5.21	102.46	110.12
1	V	460	ASN	CA-C-O	5.21	126.29	120.82
1	1	378	LEU	CA-C-O	5.21	126.26	120.90
1	1	684	GLU	CA-C-O	-5.21	115.35	120.82
1	2	531	PHE	N-CA-C	5.21	116.64	111.07
1	6	376	THR	N-CA-C	5.21	116.95	111.28
1	9	242	GLY	CA-C-O	5.21	126.62	121.00
1	a	257	GLN	N-CA-CB	-5.21	101.91	110.40
1	a	409	ALA	N-CA-C	5.21	117.32	109.41
1	a	444	ARG	CB-CG-CD	5.21	123.28	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	g	685	THR	CA-C-O	5.21	126.07	120.55
1	j	392	GLN	CA-C-N	5.21	127.59	120.77
1	j	392	GLN	C-N-CA	5.21	127.59	120.77
1	l	350	PHE	CA-CB-CG	-5.21	108.59	113.80
1	n	357	ARG	NH1-CZ-NH2	5.21	126.07	119.30
1	o	143	LEU	N-CA-C	5.21	117.26	110.08
1	q	425	LYS	CB-CA-C	-5.21	102.00	110.85
1	w	283	ASP	O-C-N	-5.21	115.33	121.32
1	y	444	ARG	NE-CZ-NH2	-5.21	114.51	119.20
1	B	342	ALA	CA-C-N	5.21	127.52	120.44
1	B	342	ALA	C-N-CA	5.21	127.52	120.44
1	J	276	LEU	CA-C-N	5.21	127.26	120.28
1	J	276	LEU	C-N-CA	5.21	127.26	120.28
1	J	446	ASN	O-C-N	-5.21	116.09	122.55
1	K	644	GLN	O-C-N	-5.21	116.47	122.09
1	L	108	ARG	N-CA-CB	5.21	117.78	110.12
1	M	108	ARG	NH1-CZ-NH2	-5.21	112.53	119.30
1	P	535	ALA	N-CA-C	5.21	116.95	111.28
1	W	390	GLU	CA-CB-CG	5.21	124.51	114.10
1	Y	510	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	Z	362	GLU	CA-C-O	5.21	125.77	119.31
1	6	696	ILE	CA-C-N	5.21	127.21	120.44
1	6	696	ILE	C-N-CA	5.21	127.21	120.44
1	9	285	GLU	N-CA-C	-5.21	107.48	113.88
1	9	624	THR	CA-C-N	5.21	127.21	120.44
1	9	624	THR	C-N-CA	5.21	127.21	120.44
1	b	192	LYS	CB-CA-C	-5.21	102.71	110.88
1	c	354	PRO	CA-C-N	5.21	127.57	120.54
1	c	354	PRO	C-N-CA	5.21	127.57	120.54
1	t	273	THR	CA-C-N	5.21	127.78	120.28
1	t	273	THR	C-N-CA	5.21	127.78	120.28
1	x	695	ARG	N-CA-CB	5.21	117.70	109.94
1	I	479	GLU	N-CA-C	5.21	116.64	111.07
1	K	327	CYS	CA-C-N	5.21	131.48	121.54
1	K	327	CYS	C-N-CA	5.21	131.48	121.54
1	L	594	GLU	N-CA-C	5.21	117.86	111.82
1	P	552	THR	CA-C-N	5.21	127.12	120.56
1	P	552	THR	C-N-CA	5.21	127.12	120.56
1	P	589	LEU	N-CA-C	5.21	117.63	111.33
1	1	452	ASN	CA-CB-CG	-5.20	107.40	112.60
1	7	687	THR	N-CA-CB	5.20	117.86	110.16
1	c	358	VAL	CA-C-N	5.20	127.20	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	358	VAL	C-N-CA	5.20	127.20	120.44
1	c	360	LEU	O-C-N	-5.20	116.22	122.15
1	c	394	ARG	N-CA-C	5.20	116.64	111.07
1	c	587	VAL	CA-C-N	5.20	127.12	120.56
1	c	587	VAL	C-N-CA	5.20	127.12	120.56
1	d	94	GLU	O-C-N	-5.20	116.71	122.07
1	d	204	ILE	CB-CA-C	-5.20	104.08	111.21
1	d	260	ASN	CA-CB-CG	-5.20	107.40	112.60
1	h	263	VAL	O-C-N	-5.20	116.10	122.97
1	o	384	LYS	CA-C-O	5.20	126.28	120.82
1	p	572	PHE	CA-CB-CG	-5.20	108.60	113.80
1	q	663	LYS	N-CA-C	5.20	117.86	111.82
1	s	305	LYS	N-CA-C	5.20	118.73	112.38
1	s	307	VAL	CA-C-O	5.20	126.09	120.47
1	s	477	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	t	187	GLU	N-CA-C	5.20	117.63	111.33
1	t	339	LEU	CA-C-O	5.20	125.98	120.10
1	u	669	LEU	CA-C-N	5.20	127.20	120.44
1	u	669	LEU	C-N-CA	5.20	127.20	120.44
1	x	214	THR	N-CA-CB	5.20	118.77	110.65
1	x	449	ARG	CD-NE-CZ	5.20	131.69	124.40
1	y	132	SER	O-C-N	-5.20	115.87	122.27
1	K	273	THR	CA-C-N	5.20	129.53	120.68
1	K	273	THR	C-N-CA	5.20	129.53	120.68
1	L	588	VAL	CA-C-N	5.20	127.20	120.44
1	L	588	VAL	C-N-CA	5.20	127.20	120.44
1	R	658	GLY	CA-C-O	5.20	126.18	120.66
1	S	579	PHE	N-CA-C	5.20	117.29	109.23
1	T	196	VAL	CA-C-N	5.20	127.21	120.44
1	T	196	VAL	C-N-CA	5.20	127.21	120.44
1	T	322	TYR	CA-C-N	5.20	130.74	122.62
1	T	322	TYR	C-N-CA	5.20	130.74	122.62
1	X	140	GLY	CA-C-O	5.20	126.20	119.44
1	X	280	HIS	CA-C-N	5.20	127.51	120.38
1	X	280	HIS	C-N-CA	5.20	127.51	120.38
1	1	124	ILE	N-CA-C	5.20	115.34	107.75
1	4	390	GLU	CA-C-N	5.20	125.71	119.94
1	4	390	GLU	C-N-CA	5.20	125.71	119.94
1	p	152	ARG	NE-CZ-NH1	5.20	126.70	121.50
1	z	655	ARG	CG-CD-NE	-5.20	100.56	112.00
1	G	267	ASN	OD1-CG-ND2	-5.20	117.40	122.60
1	H	426	ILE	CA-C-N	5.20	128.22	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	426	ILE	C-N-CA	5.20	128.22	120.31
1	O	597	PHE	CB-CG-CD1	5.20	129.54	120.70
1	P	437	VAL	O-C-N	-5.20	116.74	121.94
1	R	447	GLU	N-CA-CB	-5.20	102.15	110.63
1	V	585	TYR	CA-C-N	5.20	127.20	120.44
1	V	585	TYR	C-N-CA	5.20	127.20	120.44
1	Z	222	THR	O-C-N	-5.20	117.13	123.27
1	Z	436	LEU	CA-C-O	5.20	126.47	120.90
1	0	264	VAL	CB-CA-C	5.20	116.29	110.52
1	2	448	THR	CB-CA-C	5.20	118.01	109.90
1	6	648	ILE	N-CA-CB	5.20	116.64	110.55
1	f	145	ARG	CA-C-O	5.20	125.97	119.78
1	f	373	ARG	N-CA-C	5.20	116.63	111.07
1	f	451	TYR	CA-C-N	5.20	127.25	120.28
1	f	451	TYR	C-N-CA	5.20	127.25	120.28
1	h	95	GLN	O-C-N	-5.20	116.61	122.12
1	h	542	PHE	CA-C-O	5.20	126.03	120.46
1	h	675	TYR	CA-C-O	5.20	126.28	120.82
1	i	307	VAL	CA-CB-CG2	-5.20	101.56	110.40
1	j	303	THR	CA-CB-OG1	5.20	117.40	109.60
1	l	550	GLN	OE1-CD-NE2	5.20	127.80	122.60
1	l	574	MET	O-C-N	-5.20	116.61	122.12
1	m	168	ALA	N-CA-C	5.20	117.92	109.24
1	n	411	ILE	CA-C-O	-5.20	111.96	120.80
1	o	189	GLU	CA-C-O	-5.20	113.41	118.97
1	o	249	ILE	CA-C-O	-5.20	115.54	120.95
1	r	674	ARG	CD-NE-CZ	5.20	131.68	124.40
1	u	295	LYS	N-CA-C	5.20	121.30	109.81
1	x	501	PHE	CA-C-O	5.20	126.28	120.82
1	z	511	GLN	CA-C-O	-5.20	115.04	120.55
1	A	234	VAL	O-C-N	-5.20	117.58	123.20
1	B	376	THR	N-CA-C	5.20	116.63	111.07
1	D	131	LYS	N-CA-C	5.20	116.95	111.28
1	G	333	ILE	CA-C-N	5.20	127.77	120.28
1	G	333	ILE	C-N-CA	5.20	127.77	120.28
1	I	100	CYS	CA-C-N	5.20	127.11	120.56
1	I	100	CYS	C-N-CA	5.20	127.11	120.56
1	J	441	GLU	CA-C-N	5.20	128.20	122.22
1	J	441	GLU	C-N-CA	5.20	128.20	122.22
1	P	181	GLN	OE1-CD-NE2	-5.20	117.40	122.60
1	W	292	ILE	CA-C-O	5.20	126.09	120.53
1	X	665	MET	CA-CB-CG	-5.20	103.70	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	217	GLU	N-CA-C	5.20	116.95	111.28
1	Z	638	SER	N-CA-CB	5.20	117.77	110.12
1	2	469	THR	O-C-N	-5.20	116.72	122.07
1	3	190	ILE	O-C-N	-5.20	116.83	121.87
1	4	135	LEU	CA-C-N	5.20	127.25	120.28
1	4	135	LEU	C-N-CA	5.20	127.25	120.28
1	4	255	ARG	CD-NE-CZ	-5.20	117.12	124.40
1	6	415	GLU	N-CA-C	5.20	116.95	111.28
1	8	516	ALA	N-CA-CB	-5.20	102.26	110.06
1	8	549	VAL	N-CA-C	5.20	115.92	110.62
1	a	661	LEU	CD1-CG-CD2	5.20	122.24	110.80
1	b	629	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	c	269	ASP	CA-CB-CG	5.20	117.80	112.60
1	d	695	ARG	NH1-CZ-NH2	-5.20	112.54	119.30
1	e	412	PRO	CA-C-N	5.20	127.25	120.28
1	e	412	PRO	C-N-CA	5.20	127.25	120.28
1	f	635	LEU	N-CA-CB	5.20	117.61	110.07
1	h	431	GLN	N-CA-C	5.20	119.34	112.89
1	q	676	SER	CA-C-O	-5.20	114.27	120.56
1	u	488	ARG	NE-CZ-NH1	5.20	126.70	121.50
1	y	209	ILE	CB-CA-C	5.20	118.42	111.19
1	y	510	GLN	N-CA-C	5.20	116.94	111.28
1	A	365	ALA	N-CA-CB	5.20	119.28	110.49
1	C	98	ARG	NE-CZ-NH1	5.20	126.70	121.50
1	I	282	VAL	CG1-CB-CG2	5.20	122.24	110.80
1	K	458	PHE	O-C-N	-5.20	116.61	122.12
1	L	491	GLU	N-CA-C	5.20	117.57	108.52
1	N	544	ASN	N-CA-CB	5.20	117.86	110.16
1	O	354	PRO	N-CA-C	-5.20	106.95	114.18
1	V	273	THR	O-C-N	-5.20	116.42	122.81
1	X	557	LYS	O-C-N	5.20	127.50	122.09
1	Y	247	ALA	CA-C-N	5.20	127.20	120.44
1	Y	247	ALA	C-N-CA	5.20	127.20	120.44
1	b	588	VAL	CA-C-O	-5.20	115.34	120.85
1	e	118	LEU	CA-C-N	5.20	126.34	119.84
1	e	118	LEU	C-N-CA	5.20	126.34	119.84
1	e	492	LEU	CB-CA-C	5.20	116.19	109.80
1	f	97	VAL	CA-C-N	5.20	127.22	120.26
1	f	97	VAL	C-N-CA	5.20	127.22	120.26
1	h	356	PHE	CA-C-N	5.20	127.24	120.28
1	h	356	PHE	C-N-CA	5.20	127.24	120.28
1	k	587	VAL	CA-CB-CG2	5.20	119.23	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	342	ALA	N-CA-C	5.20	117.69	111.71
1	C	316	TYR	CA-C-N	5.20	126.34	119.84
1	C	316	TYR	C-N-CA	5.20	126.34	119.84
1	L	572	PHE	N-CA-CB	5.20	117.76	110.12
1	W	174	ARG	N-CA-CB	-5.20	103.39	110.56
1	b	640	ARG	N-CA-CB	5.20	118.00	110.26
1	e	360	LEU	CA-C-N	5.20	127.19	120.44
1	e	360	LEU	C-N-CA	5.20	127.19	120.44
1	f	702	ALA	CA-C-N	5.20	127.55	120.54
1	f	702	ALA	C-N-CA	5.20	127.55	120.54
1	g	334	THR	CB-CA-C	-5.20	101.02	110.63
1	n	573	ARG	N-CA-C	5.20	116.94	111.28
1	p	532	ILE	N-CA-C	5.20	115.41	110.42
1	q	697	TYR	CA-CB-CG	5.20	123.25	113.90
1	u	293	LEU	CA-C-O	-5.20	115.14	120.54
1	u	709	PHE	CA-C-O	5.20	126.24	120.63
1	v	481	GLU	CA-CB-CG	5.20	124.49	114.10
1	w	682	GLN	CA-C-N	5.20	127.24	120.28
1	w	682	GLN	C-N-CA	5.20	127.24	120.28
1	y	645	ILE	CA-C-N	5.20	126.33	119.84
1	y	645	ILE	C-N-CA	5.20	126.33	119.84
1	D	238	PRO	CB-CA-C	-5.20	105.90	111.56
1	E	645	ILE	CA-C-O	5.20	122.17	118.69
1	H	680	GLN	CA-C-N	5.20	129.10	120.94
1	H	680	GLN	C-N-CA	5.20	129.10	120.94
1	I	223	ILE	CA-C-O	5.20	126.49	120.67
1	J	569	GLN	OE1-CD-NE2	-5.20	117.41	122.60
1	N	222	THR	CB-CA-C	5.20	118.14	110.14
1	O	409	ALA	N-CA-CB	5.20	117.61	109.97
1	R	191	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	S	537	LYS	N-CA-C	5.20	119.62	113.28
1	S	704	HIS	CA-C-N	5.20	127.55	120.54
1	S	704	HIS	C-N-CA	5.20	127.55	120.54
1	U	278	MET	N-CA-C	5.20	116.63	111.07
1	W	339	LEU	CA-C-O	5.20	125.75	119.31
1	Y	697	TYR	CA-C-N	5.20	127.50	120.38
1	Y	697	TYR	C-N-CA	5.20	127.50	120.38
1	Z	190	ILE	N-CA-C	-5.20	105.42	113.16
1	1	674	ARG	O-C-N	-5.19	115.48	122.23
1	7	315	THR	N-CA-C	-5.19	105.69	112.23
1	7	547	GLN	CA-C-N	5.19	127.19	120.44
1	7	547	GLN	C-N-CA	5.19	127.19	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	131	LYS	N-CA-C	5.19	118.40	111.75
1	g	343	THR	CA-CB-CG2	5.19	119.33	110.50
1	h	336	ARG	NH1-CZ-NH2	-5.19	112.55	119.30
1	i	335	ASN	N-CA-C	5.19	119.33	112.89
1	j	487	TYR	N-CA-CB	5.19	118.55	109.72
1	w	192	LYS	O-C-N	-5.19	116.72	122.07
1	x	582	ASP	CA-C-N	5.19	128.21	120.31
1	x	582	ASP	C-N-CA	5.19	128.21	120.31
1	y	511	GLN	CA-C-O	5.19	125.97	120.10
1	y	648	ILE	O-C-N	-5.19	116.82	121.91
1	A	490	LYS	N-CA-C	5.19	116.94	111.28
1	E	325	VAL	N-CA-C	5.19	117.33	108.86
1	H	674	ARG	N-CA-C	5.19	119.33	112.89
1	P	178	LEU	O-C-N	-5.19	117.46	123.33
1	P	458	PHE	CA-CB-CG	-5.19	108.61	113.80
1	1	150	VAL	CA-CB-CG1	5.19	119.23	110.40
1	1	446	ASN	CA-CB-CG	-5.19	107.41	112.60
1	8	507	GLN	O-C-N	-5.19	116.14	122.22
1	c	639	LYS	CA-CB-CG	5.19	124.49	114.10
1	g	167	TRP	O-C-N	-5.19	117.33	123.25
1	h	624	THR	CB-CA-C	-5.19	100.70	110.67
1	k	553	ILE	CA-C-O	-5.19	115.55	120.95
1	m	672	LYS	N-CA-C	5.19	116.94	111.28
1	p	525	GLU	CA-C-N	5.19	127.19	120.70
1	p	525	GLU	C-N-CA	5.19	127.19	120.70
1	r	135	LEU	CA-C-N	5.19	127.49	120.38
1	r	135	LEU	C-N-CA	5.19	127.49	120.38
1	r	454	ILE	CA-C-N	5.19	127.76	120.28
1	r	454	ILE	C-N-CA	5.19	127.76	120.28
1	t	497	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	t	533	ASN	CA-C-O	5.19	125.92	120.42
1	u	95	GLN	N-CA-C	5.19	119.25	113.02
1	A	387	PRO	CA-C-N	5.19	127.24	120.28
1	A	387	PRO	C-N-CA	5.19	127.24	120.28
1	D	158	LYS	O-C-N	-5.19	117.30	123.22
1	D	521	GLN	CA-C-N	5.19	127.24	120.28
1	D	521	GLN	C-N-CA	5.19	127.24	120.28
1	K	582	ASP	CA-CB-CG	-5.19	107.41	112.60
1	Q	224	ILE	O-C-N	-5.19	117.05	122.81
1	Q	435	LYS	CA-C-N	5.19	127.19	120.44
1	Q	435	LYS	C-N-CA	5.19	127.19	120.44
1	S	191	HIS	ND1-CG-CD2	-5.19	100.91	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	495	PHE	CA-C-O	5.19	129.63	120.80
1	W	242	GLY	O-C-N	-5.19	116.62	122.28
1	W	679	LEU	CA-C-O	5.19	125.96	119.78
1	Y	125	GLY	CA-C-N	5.19	132.25	123.01
1	Y	125	GLY	C-N-CA	5.19	132.25	123.01
1	Z	506	HIS	CG-CD2-NE2	5.19	112.39	107.20
1	5	223	ILE	O-C-N	-5.19	118.21	123.19
1	9	362	GLU	CA-C-N	-5.19	114.29	120.00
1	9	362	GLU	C-N-CA	-5.19	114.29	120.00
1	f	383	GLN	CA-C-N	5.19	127.23	120.28
1	f	383	GLN	C-N-CA	5.19	127.23	120.28
1	i	247	ALA	N-CA-CB	-5.19	102.49	110.12
1	k	148	GLY	CA-C-N	5.19	127.53	120.63
1	k	148	GLY	C-N-CA	5.19	127.53	120.63
1	o	397	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
1	v	332	GLU	CA-CB-CG	5.19	124.48	114.10
1	w	113	GLU	N-CA-C	-5.19	105.66	112.41
1	w	308	MET	N-CA-C	5.19	117.84	111.82
1	x	191	HIS	CG-CD2-NE2	5.19	112.39	107.20
1	z	353	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
1	D	266	CYS	CA-C-N	5.19	127.19	120.44
1	D	266	CYS	C-N-CA	5.19	127.19	120.44
1	E	279	ALA	CA-C-O	-5.19	115.05	120.55
1	E	460	ASN	CA-C-O	-5.19	114.23	120.10
1	F	197	MET	N-CA-C	5.19	116.94	111.28
1	F	632	ALA	O-C-N	-5.19	116.62	122.12
1	G	152	ARG	N-CA-CB	-5.19	102.77	110.61
1	M	496	VAL	N-CA-CB	-5.19	104.92	111.46
1	Q	649	ILE	N-CA-CB	5.19	118.37	110.58
1	X	171	ILE	N-CA-CB	-5.19	104.25	111.41
1	Y	427	LYS	N-CA-CB	5.19	117.53	110.01
1	2	221	LEU	N-CA-CB	5.19	119.49	111.24
1	3	149	ILE	N-CA-C	5.19	120.13	109.34
1	4	634	PHE	N-CA-CB	5.19	117.75	110.12
1	c	427	LYS	N-CA-C	5.19	116.94	111.28
1	i	242	GLY	CA-C-O	-5.19	115.41	120.75
1	s	157	LEU	CA-C-N	5.19	129.67	122.77
1	s	157	LEU	C-N-CA	5.19	129.67	122.77
1	z	96	LYS	O-C-N	-5.19	115.15	122.10
1	D	378	LEU	O-C-N	-5.19	116.72	122.07
1	K	553	ILE	O-C-N	-5.19	116.84	121.87
1	M	319	LYS	N-CA-C	-5.19	106.97	113.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	321	GLY	O-C-N	-5.19	117.20	122.60
1	Y	272	THR	CA-CB-OG1	5.19	117.38	109.60
1	1	399	LYS	CA-C-O	5.19	126.05	120.55
1	1	449	ARG	CA-C-N	5.19	127.23	120.28
1	1	449	ARG	C-N-CA	5.19	127.23	120.28
1	7	234	VAL	N-CA-C	-5.19	104.35	110.21
1	7	531	PHE	CB-CG-CD1	-5.19	111.88	120.70
1	7	543	PHE	N-CA-C	5.19	116.62	111.07
1	8	276	LEU	O-C-N	-5.19	116.24	122.15
1	a	435	LYS	CG-CD-CE	5.19	123.23	111.30
1	a	685	THR	CA-CB-CG2	-5.19	101.68	110.50
1	b	195	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	g	181	GLN	CB-CA-C	5.19	120.74	110.42
1	g	315	THR	O-C-N	-5.19	116.15	122.22
1	j	98	ARG	NH1-CZ-NH2	-5.19	112.56	119.30
1	k	191	HIS	CA-C-N	5.19	127.18	120.44
1	k	191	HIS	C-N-CA	5.19	127.18	120.44
1	o	183	PRO	N-CD-CG	5.19	110.98	103.20
1	q	569	GLN	N-CA-C	5.19	116.94	111.28
1	x	367	VAL	CA-CB-CG1	5.19	119.22	110.40
1	B	248	LEU	N-CA-C	5.19	116.74	111.14
1	B	330	GLN	CA-C-N	5.19	130.96	122.81
1	B	330	GLN	C-N-CA	5.19	130.96	122.81
1	D	466	ALA	N-CA-C	5.19	116.94	111.28
1	F	106	SER	N-CA-C	5.19	116.62	111.07
1	K	336	ARG	CB-CA-C	5.19	118.81	111.86
1	L	222	THR	CA-CB-OG1	5.19	117.38	109.60
1	L	378	LEU	N-CA-C	5.19	116.62	111.07
1	M	262	VAL	CB-CA-C	-5.19	103.87	110.98
1	N	284	PRO	N-CA-CB	5.19	108.70	103.25
1	N	439	GLY	N-CA-C	5.19	123.07	115.08
1	N	646	PRO	CA-C-N	5.19	127.23	120.28
1	N	646	PRO	C-N-CA	5.19	127.23	120.28
1	O	533	ASN	N-CA-C	5.19	116.62	111.07
1	U	634	PHE	CA-CB-CG	5.19	118.99	113.80
1	V	350	PHE	CA-CB-CG	5.19	118.99	113.80
1	X	702	ALA	N-CA-C	5.19	116.94	111.28
1	5	180	LEU	CA-C-N	5.19	131.44	121.54
1	5	180	LEU	C-N-CA	5.19	131.44	121.54
1	7	443	VAL	CA-C-O	5.19	127.28	121.11
1	f	699	LEU	O-C-N	-5.19	116.62	122.12
1	l	280	HIS	CE1-NE2-CD2	-5.19	103.81	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	q	441	GLU	N-CA-C	5.19	117.99	110.42
1	x	291	GLY	CA-C-N	5.19	130.00	123.10
1	x	291	GLY	C-N-CA	5.19	130.00	123.10
1	A	144	PRO	CA-C-O	-5.19	115.50	121.36
1	N	513	VAL	O-C-N	-5.19	116.83	121.91
1	P	425	LYS	N-CA-C	5.19	116.93	111.28
1	V	256	GLN	N-CA-C	5.19	116.62	111.07
1	X	487	TYR	CA-C-N	5.19	128.98	120.63
1	X	487	TYR	C-N-CA	5.19	128.98	120.63
1	Z	226	LEU	O-C-N	-5.19	115.72	121.53
1	1	123	VAL	N-CA-C	5.18	115.93	108.93
1	1	305	LYS	CA-C-O	5.18	126.05	120.55
1	2	127	GLN	CG-CD-NE2	-5.18	108.62	116.40
1	2	130	GLY	CA-C-N	5.18	131.44	121.54
1	2	130	GLY	C-N-CA	5.18	131.44	121.54
1	6	285	GLU	N-CA-C	5.18	118.76	112.23
1	7	685	THR	N-CA-CB	5.18	119.00	110.39
1	8	389	LEU	CA-C-N	5.18	127.18	120.44
1	8	389	LEU	C-N-CA	5.18	127.18	120.44
1	e	463	GLY	O-C-N	-5.18	117.14	122.17
1	f	677	TRP	CZ3-CH2-CZ2	-5.18	114.76	121.50
1	h	389	LEU	N-CA-CB	5.18	117.83	110.16
1	i	110	LEU	N-CA-C	5.18	119.45	113.18
1	l	466	ALA	CA-C-N	5.18	127.18	120.44
1	l	466	ALA	C-N-CA	5.18	127.18	120.44
1	n	155	LEU	O-C-N	-5.18	117.13	123.30
1	q	503	ILE	O-C-N	-5.18	116.84	121.87
1	u	280	HIS	ND1-CE1-NE2	5.18	113.58	108.40
1	w	353	HIS	CA-C-N	5.18	124.69	119.19
1	w	353	HIS	C-N-CA	5.18	124.69	119.19
1	A	145	ARG	N-CA-C	5.18	116.62	111.07
1	B	167	TRP	CH2-CZ2-CE2	5.18	124.24	117.50
1	D	571	GLN	CA-C-O	-5.18	115.06	120.55
1	J	375	THR	CA-C-N	5.18	127.49	120.65
1	J	375	THR	C-N-CA	5.18	127.49	120.65
1	M	223	ILE	CA-CB-CG1	5.18	119.22	110.40
1	R	442	VAL	N-CA-C	5.18	120.12	109.34
1	S	676	SER	CA-C-O	5.18	126.27	120.82
1	U	511	GLN	OE1-CD-NE2	-5.18	117.42	122.60
1	U	626	ILE	N-CA-C	5.18	115.96	110.72
1	W	406	ARG	NE-CZ-NH2	-5.18	114.53	119.20
1	W	680	GLN	N-CA-CB	5.18	117.66	109.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	571	GLN	N-CA-C	5.18	116.93	111.28
1	Z	695	ARG	CB-CG-CD	5.18	123.22	111.30
1	5	256	GLN	CA-C-O	5.18	126.04	120.70
1	5	573	ARG	CA-C-N	5.18	127.22	120.28
1	5	573	ARG	C-N-CA	5.18	127.22	120.28
1	b	246	LYS	CA-C-O	-5.18	114.93	120.42
1	d	419	MET	N-CA-C	5.18	116.93	111.28
1	g	422	LEU	N-CA-C	5.18	116.74	111.14
1	i	426	ILE	CA-C-N	5.18	127.23	120.28
1	i	426	ILE	C-N-CA	5.18	127.23	120.28
1	m	334	THR	O-C-N	-5.18	115.36	122.46
1	q	163	PRO	N-CA-CB	5.18	108.28	103.46
1	s	566	ASN	CA-CB-CG	5.18	117.78	112.60
1	s	690	ARG	CA-C-O	-5.18	114.93	120.42
1	t	536	LYS	N-CA-CB	-5.18	102.49	110.01
1	v	382	ILE	CB-CA-C	-5.18	105.14	112.14
1	x	548	THR	CA-CB-OG1	5.18	117.37	109.60
1	y	397	HIS	ND1-CE1-NE2	5.18	113.58	108.40
1	z	542	PHE	CA-CB-CG	-5.18	108.62	113.80
1	A	534	VAL	O-C-N	-5.18	116.81	121.89
1	B	113	GLU	CA-C-O	5.18	125.33	119.27
1	F	189	GLU	N-CA-C	5.18	117.67	111.71
1	J	105	ASP	N-CA-CB	-5.18	102.50	110.12
1	J	673	ASN	CA-CB-CG	5.18	117.78	112.60
1	K	161	LYS	CB-CA-C	5.18	118.08	109.53
1	Q	432	ASP	CA-C-N	5.18	127.09	120.56
1	Q	432	ASP	C-N-CA	5.18	127.09	120.56
1	Q	456	GLU	CA-C-O	5.18	125.93	119.97
1	S	162	GLN	CA-C-N	5.18	126.32	119.84
1	S	162	GLN	C-N-CA	5.18	126.32	119.84
1	T	536	LYS	CA-C-N	5.18	127.74	120.28
1	T	536	LYS	C-N-CA	5.18	127.74	120.28
1	W	582	ASP	CA-C-N	5.18	128.89	120.60
1	W	582	ASP	C-N-CA	5.18	128.89	120.60
1	X	110	LEU	N-CA-C	-5.18	106.64	113.17
1	X	586	SER	N-CA-C	5.18	117.01	111.36
1	1	101	ILE	CA-C-O	5.18	126.66	121.17
1	2	471	LYS	CA-C-N	5.18	129.54	121.35
1	2	471	LYS	C-N-CA	5.18	129.54	121.35
1	m	651	TYR	CA-C-N	5.18	127.17	120.44
1	m	651	TYR	C-N-CA	5.18	127.17	120.44
1	p	563	LYS	N-CA-CB	5.18	117.52	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	q	303	THR	N-CA-C	5.18	117.33	111.11
1	A	695	ARG	CA-C-N	5.18	127.84	120.53
1	A	695	ARG	C-N-CA	5.18	127.84	120.53
1	F	282	VAL	CA-C-O	5.18	123.64	118.98
1	G	572	PHE	CA-C-N	5.18	127.65	120.29
1	G	572	PHE	C-N-CA	5.18	127.65	120.29
1	G	678	LEU	O-C-N	5.18	127.61	122.12
1	O	539	PHE	O-C-N	5.18	128.42	122.25
1	O	660	SER	N-CA-C	5.18	116.93	111.28
1	P	453	LYS	CA-C-O	5.18	125.91	120.42
1	Q	477	HIS	CA-C-O	-5.18	115.36	120.70
1	W	701	GLN	O-C-N	-5.18	116.24	122.15
1	X	558	VAL	CA-C-O	5.18	125.47	119.36
1	0	330	GLN	N-CA-C	5.18	116.92	111.28
1	2	529	GLN	CA-C-N	5.18	127.48	120.44
1	2	529	GLN	C-N-CA	5.18	127.48	120.44
1	4	627	GLY	O-C-N	-5.18	115.97	122.70
1	5	661	LEU	N-CA-C	5.18	116.61	111.07
1	6	117	ALA	CA-C-N	5.18	134.44	121.80
1	6	117	ALA	C-N-CA	5.18	134.44	121.80
1	8	379	ILE	CA-C-O	5.18	126.34	120.95
1	9	293	LEU	N-CA-CB	-5.18	101.61	110.16
1	c	473	LYS	N-CA-CB	-5.18	102.24	110.22
1	c	481	GLU	O-C-N	-5.18	116.74	122.07
1	d	409	ALA	CA-C-N	5.18	131.03	121.70
1	d	409	ALA	C-N-CA	5.18	131.03	121.70
1	j	551	SER	N-CA-C	5.18	116.93	111.28
1	o	236	ASN	CA-CB-CG	-5.18	107.42	112.60
1	o	667	GLN	CA-C-N	5.18	127.56	120.46
1	o	667	GLN	C-N-CA	5.18	127.56	120.46
1	q	293	LEU	N-CA-C	5.18	117.41	109.07
1	r	464	ILE	O-C-N	-5.18	116.83	121.91
1	y	378	LEU	O-C-N	-5.18	116.25	122.15
1	B	122	ALA	CB-CA-C	-5.18	101.70	110.19
1	G	154	PRO	N-CD-CG	5.18	110.97	103.20
1	H	569	GLN	CA-C-N	5.18	127.48	120.44
1	H	569	GLN	C-N-CA	5.18	127.48	120.44
1	J	410	ASP	CA-CB-CG	5.18	117.78	112.60
1	J	506	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
1	M	269	ASP	CA-C-N	5.18	127.56	120.46
1	M	269	ASP	C-N-CA	5.18	127.56	120.46
1	P	239	ARG	NH1-CZ-NH2	-5.18	112.57	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	326	LYS	N-CA-C	5.18	117.20	109.59
1	Y	560	HIS	O-C-N	-5.18	116.25	122.15
1	0	527	ILE	N-CA-CB	5.18	117.20	110.57
1	2	520	LEU	O-C-N	-5.18	116.63	122.12
1	3	529	GLN	N-CA-C	5.18	117.00	111.36
1	4	461	TRP	N-CA-CB	-5.18	102.51	110.12
1	6	306	SER	CA-C-O	5.18	126.04	120.55
1	6	312	ARG	CA-C-O	5.18	125.95	120.10
1	e	705	ALA	CA-C-N	5.18	127.17	120.44
1	e	705	ALA	C-N-CA	5.18	127.17	120.44
1	w	279	ALA	N-CA-C	5.18	116.92	111.28
1	J	668	ILE	N-CA-CB	5.18	117.58	110.54
1	P	182	ASP	N-CA-C	-5.18	103.51	109.93
1	1	98	ARG	O-C-N	-5.18	115.87	120.48
1	5	703	ARG	CD-NE-CZ	5.18	131.65	124.40
1	6	151	THR	N-CA-CB	5.18	117.65	109.83
1	b	666	MET	CA-C-N	5.18	127.73	120.28
1	b	666	MET	C-N-CA	5.18	127.73	120.28
1	e	523	ALA	O-C-N	-5.18	116.63	122.12
1	e	636	GLU	N-CA-C	5.18	117.83	111.82
1	f	473	LYS	O-C-N	-5.18	116.16	122.22
1	i	231	ARG	CG-CD-NE	-5.18	100.61	112.00
1	i	549	VAL	CA-C-N	5.18	127.17	120.44
1	i	549	VAL	C-N-CA	5.18	127.17	120.44
1	i	624	THR	CA-CB-OG1	5.18	117.36	109.60
1	k	255	ARG	CB-CA-C	5.18	118.50	109.65
1	l	266	CYS	O-C-N	5.18	127.61	122.12
1	m	323	MET	CA-C-N	5.18	130.26	122.75
1	m	323	MET	C-N-CA	5.18	130.26	122.75
1	m	338	SER	N-CA-C	5.18	117.54	110.55
1	n	697	TYR	N-CA-CB	5.18	117.82	110.16
1	q	237	GLN	O-C-N	-5.18	115.73	121.53
1	v	701	GLN	CA-C-O	-5.18	115.06	120.55
1	y	632	ALA	O-C-N	-5.18	116.63	122.12
1	A	141	VAL	CB-CA-C	5.18	118.52	110.96
1	C	511	GLN	N-CA-C	5.18	119.22	113.01
1	E	510	GLN	OE1-CD-NE2	-5.18	117.42	122.60
1	F	186	VAL	N-CA-C	5.18	115.39	110.53
1	F	535	ALA	CA-C-O	5.18	127.08	121.02
1	G	363	GLY	CA-C-O	5.18	126.15	120.66
1	J	272	THR	CA-CB-CG2	5.18	119.30	110.50
1	O	384	LYS	N-CA-C	5.18	117.00	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	452	ASN	OD1-CG-ND2	-5.18	117.42	122.60
1	R	428	MET	CG-SD-CE	-5.18	89.51	100.90
1	S	498	TYR	CA-C-O	5.18	126.04	120.55
1	X	405	ARG	NE-CZ-NH2	5.18	123.86	119.20
1	2	351	GLN	CA-C-O	5.17	125.78	119.05
1	3	191	HIS	ND1-CE1-NE2	5.17	113.58	108.40
1	4	131	LYS	CA-C-N	5.17	131.42	121.54
1	4	131	LYS	C-N-CA	5.17	131.42	121.54
1	8	108	ARG	NE-CZ-NH2	5.17	123.86	119.20
1	c	411	ILE	N-CA-C	5.17	120.06	108.88
1	e	364	SER	CA-C-O	5.17	127.91	120.51
1	g	301	ARG	CA-C-N	5.17	126.61	120.14
1	g	301	ARG	C-N-CA	5.17	126.61	120.14
1	g	698	ARG	N-CA-C	5.17	116.92	111.28
1	h	118	LEU	CA-C-O	5.17	127.25	120.16
1	j	241	ILE	N-CA-C	5.17	115.90	110.62
1	n	153	CYS	CA-C-O	-5.17	113.07	120.16
1	p	296	PRO	CA-C-O	5.17	125.29	118.98
1	s	375	THR	CA-C-O	5.17	126.03	120.55
1	s	394	ARG	O-C-N	-5.17	116.74	122.07
1	t	488	ARG	CA-C-N	5.17	126.79	120.22
1	t	488	ARG	C-N-CA	5.17	126.79	120.22
1	v	655	ARG	NE-CZ-NH1	5.17	126.67	121.50
1	v	697	TYR	CA-C-O	5.17	126.03	120.55
1	w	338	SER	N-CA-CB	5.17	117.66	110.26
1	w	352	THR	N-CA-C	5.17	117.82	111.82
1	z	548	THR	N-CA-CB	5.17	117.68	109.82
1	A	551	SER	O-C-N	-5.17	116.63	122.12
1	A	630	LEU	O-C-N	-5.17	115.39	122.33
1	B	433	ILE	CA-C-N	5.17	127.22	120.28
1	B	433	ILE	C-N-CA	5.17	127.22	120.28
1	C	581	GLN	CA-C-N	5.17	127.47	120.38
1	C	581	GLN	C-N-CA	5.17	127.47	120.38
1	E	271	ALA	N-CA-C	5.17	118.85	112.54
1	F	497	ASN	CB-CA-C	5.17	118.86	110.22
1	N	430	ASN	CA-C-N	5.17	127.47	120.38
1	N	430	ASN	C-N-CA	5.17	127.47	120.38
1	3	181	GLN	CA-C-O	5.17	127.91	120.51
1	7	527	ILE	CA-CB-CG1	-5.17	101.61	110.40
1	8	469	THR	CA-C-O	-5.17	115.07	120.55
1	9	502	GLU	CA-C-O	5.17	126.03	120.55
1	a	449	ARG	NE-CZ-NH1	5.17	126.67	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	505	VAL	CA-CB-CG2	-5.17	101.61	110.40
1	i	121	ILE	CA-C-O	5.17	125.77	120.39
1	l	114	GLN	OE1-CD-NE2	-5.17	117.43	122.60
1	l	138	LEU	N-CA-CB	-5.17	102.55	110.26
1	n	212	GLU	CB-CG-CD	5.17	121.39	112.60
1	o	148	GLY	O-C-N	-5.17	117.13	122.51
1	t	504	ILE	N-CA-C	5.17	117.52	111.05
1	C	295	LYS	CA-C-N	5.17	124.78	119.56
1	C	295	LYS	C-N-CA	5.17	124.78	119.56
1	F	380	MET	N-CA-C	5.17	116.61	111.07
1	J	662	GLN	CA-C-N	5.17	127.21	120.28
1	J	662	GLN	C-N-CA	5.17	127.21	120.28
1	O	446	ASN	CA-CB-CG	5.17	117.77	112.60
1	Y	453	LYS	CG-CD-CE	5.17	123.20	111.30
1	Z	418	LYS	N-CA-CB	-5.17	102.51	110.01
1	1	535	ALA	O-C-N	5.17	127.40	122.07
1	2	530	ALA	N-CA-C	5.17	116.72	111.14
1	3	537	LYS	O-C-N	-5.17	116.64	122.12
1	4	160	LYS	O-C-N	-5.17	116.88	123.24
1	5	301	ARG	CA-CB-CG	5.17	124.44	114.10
1	7	308	MET	CA-C-N	5.17	127.16	120.44
1	7	308	MET	C-N-CA	5.17	127.16	120.44
1	7	440	GLU	O-C-N	-5.17	115.26	122.19
1	8	487	TYR	CA-C-N	5.17	127.63	120.29
1	8	487	TYR	C-N-CA	5.17	127.63	120.29
1	9	350	PHE	CB-CG-CD1	5.17	129.49	120.70
1	9	671	GLU	O-C-N	-5.17	117.32	123.22
1	c	367	VAL	CA-C-O	5.17	122.55	119.19
1	e	500	THR	CA-C-N	5.17	127.21	120.28
1	e	500	THR	C-N-CA	5.17	127.21	120.28
1	f	236	ASN	CB-CA-C	-5.17	102.81	110.67
1	g	410	ASP	CA-C-N	5.17	131.70	122.13
1	g	410	ASP	C-N-CA	5.17	131.70	122.13
1	i	595	GLU	CA-C-O	5.17	125.72	119.31
1	l	113	GLU	CA-C-N	5.17	129.74	122.09
1	l	113	GLU	C-N-CA	5.17	129.74	122.09
1	n	428	MET	N-CA-C	5.17	116.92	111.28
1	s	191	HIS	O-C-N	-5.17	116.25	122.15
1	t	258	THR	CB-CA-C	-5.17	101.62	109.89
1	x	251	LYS	CA-C-N	5.17	128.17	120.31
1	x	251	LYS	C-N-CA	5.17	128.17	120.31
1	D	386	LEU	O-C-N	-5.17	115.85	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	347	ILE	O-C-N	5.17	126.98	121.91
1	J	702	ALA	CB-CA-C	-5.17	102.53	110.81
1	L	381	HIS	N-CA-CB	5.17	118.30	110.28
1	Q	481	GLU	N-CA-C	5.17	119.85	111.37
1	T	394	ARG	N-CA-CB	-5.17	102.51	110.16
1	X	636	GLU	N-CA-C	5.17	116.92	111.28
1	2	163	PRO	CA-C-N	5.17	130.59	122.21
1	2	163	PRO	C-N-CA	5.17	130.59	122.21
1	c	282	VAL	CA-CB-CG1	-5.17	101.61	110.40
1	d	502	GLU	O-C-N	-5.17	116.75	122.07
1	h	539	PHE	CA-CB-CG	5.17	118.97	113.80
1	k	531	PHE	CA-C-N	5.17	127.76	120.42
1	k	531	PHE	C-N-CA	5.17	127.76	120.42
1	k	680	GLN	OE1-CD-NE2	-5.17	117.43	122.60
1	l	388	LEU	N-CA-C	5.17	116.92	111.28
1	n	168	ALA	CA-C-O	-5.17	115.12	120.70
1	o	396	SER	N-CA-CB	5.17	117.51	110.01
1	t	252	TYR	CB-CG-CD1	-5.17	113.04	120.80
1	u	406	ARG	NE-CZ-NH1	5.17	126.67	121.50
1	E	529	GLN	N-CA-C	5.17	116.60	111.07
1	H	195	ASN	N-CA-C	5.17	116.60	111.07
1	K	373	ARG	N-CA-C	5.17	117.00	111.36
1	N	280	HIS	N-CA-C	5.17	116.92	111.28
1	P	484	GLU	N-CA-C	-5.17	106.97	113.28
1	U	96	LYS	O-C-N	-5.17	115.56	122.49
1	Z	118	LEU	N-CA-C	5.17	121.23	109.81
1	2	556	ILE	CA-C-O	-5.17	115.37	120.85
1	4	185	GLN	CA-C-N	5.17	127.76	120.42
1	4	185	GLN	C-N-CA	5.17	127.76	120.42
1	4	375	THR	N-CA-C	5.17	117.31	111.11
1	6	373	ARG	NE-CZ-NH1	5.17	126.67	121.50
1	e	120	ALA	CA-C-O	5.17	126.58	120.89
1	g	235	ASP	O-C-N	-5.17	116.72	122.09
1	i	451	TYR	O-C-N	-5.17	116.64	122.12
1	l	532	ILE	N-CA-CB	5.17	116.60	110.55
1	n	587	VAL	N-CA-C	-5.17	105.46	113.16
1	n	700	THR	N-CA-C	5.17	116.91	111.28
1	o	142	ALA	CB-CA-C	5.17	120.71	110.42
1	q	249	ILE	O-C-N	-5.17	116.86	121.87
1	s	153	CYS	O-C-N	-5.17	116.66	121.72
1	u	98	ARG	NE-CZ-NH2	-5.17	114.55	119.20
1	u	277	SER	CB-CA-C	-5.17	102.21	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	x	377	GLU	CA-C-O	-5.17	114.94	120.42
1	C	110	LEU	O-C-N	-5.17	115.42	122.19
1	E	215	SER	CB-CA-C	-5.17	101.96	109.97
1	G	114	GLN	CB-CG-CD	5.17	121.39	112.60
1	Q	313	ASN	OD1-CG-ND2	5.17	127.77	122.60
1	Q	659	ASP	CA-CB-CG	5.17	117.77	112.60
1	W	475	ILE	N-CA-C	5.17	115.89	110.62
1	Y	456	GLU	CA-C-N	5.17	127.63	120.29
1	Y	456	GLU	C-N-CA	5.17	127.63	120.29
1	0	338	SER	N-CA-C	5.17	117.19	110.53
1	7	466	ALA	O-C-N	5.17	127.60	122.12
1	7	502	GLU	CA-C-O	5.17	126.43	120.90
1	8	640	ARG	NE-CZ-NH2	5.17	123.85	119.20
1	9	483	TYR	N-CA-C	5.17	116.72	111.14
1	d	356	PHE	N-CA-CB	5.17	118.82	110.40
1	i	565	GLU	N-CA-CB	-5.17	102.52	110.01
1	j	108	ARG	CG-CD-NE	-5.17	100.64	112.00
1	j	325	VAL	O-C-N	5.17	128.60	123.18
1	u	97	VAL	CA-CB-CG2	5.17	119.18	110.40
1	x	591	LYS	N-CA-C	5.17	116.91	111.28
1	z	258	THR	CA-CB-OG1	5.17	117.35	109.60
1	B	554	GLU	N-CA-C	5.17	116.60	110.97
1	D	633	TYR	N-CA-C	5.17	116.99	111.36
1	F	468	ASN	N-CA-C	-5.17	105.83	111.82
1	G	567	MET	CA-C-N	5.17	127.76	120.42
1	G	567	MET	C-N-CA	5.17	127.76	120.42
1	I	671	GLU	N-CA-C	5.17	116.68	108.67
1	K	429	PHE	O-C-N	-5.17	116.75	122.07
1	O	165	GLU	N-CA-C	5.17	121.81	110.80
1	V	382	ILE	N-CA-C	5.17	115.38	110.42
1	W	474	ASN	CB-CA-C	-5.17	102.77	110.88
1	Y	371	ALA	CA-C-N	5.17	127.20	120.28
1	Y	371	ALA	C-N-CA	5.17	127.20	120.28
1	Z	262	VAL	CB-CA-C	5.17	118.06	110.98
1	3	204	ILE	O-C-N	-5.17	117.16	122.63
1	4	313	ASN	N-CA-CB	5.17	117.71	110.12
1	7	191	HIS	CA-CB-CG	5.17	118.97	113.80
1	7	194	GLN	OE1-CD-NE2	-5.17	117.44	122.60
1	7	677	TRP	CZ3-CH2-CZ2	-5.17	114.79	121.50
1	9	467	THR	CA-C-N	5.17	128.16	120.31
1	9	467	THR	C-N-CA	5.17	128.16	120.31
1	9	477	HIS	CG-CD2-NE2	5.17	112.36	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	707	CYS	CA-C-O	5.17	126.03	120.55
1	h	132	SER	N-CA-C	5.17	116.91	111.28
1	h	475	ILE	CA-C-N	5.17	129.11	120.64
1	h	475	ILE	C-N-CA	5.17	129.11	120.64
1	k	373	ARG	NH1-CZ-NH2	-5.17	112.59	119.30
1	l	591	LYS	N-CA-C	5.17	116.91	111.28
1	o	153	CYS	CA-C-O	-5.17	113.98	120.23
1	p	205	SER	CA-C-N	5.17	131.44	122.56
1	p	205	SER	C-N-CA	5.17	131.44	122.56
1	v	240	ASP	CB-CG-OD2	5.17	130.28	118.40
1	J	560	HIS	O-C-N	-5.17	115.92	122.27
1	R	505	VAL	CB-CA-C	-5.17	105.17	112.14
1	X	573	ARG	NE-CZ-NH2	5.17	123.85	119.20
1	Z	483	TYR	N-CA-CB	-5.17	102.58	110.07
1	5	476	ILE	O-C-N	-5.16	116.86	121.87
1	f	238	PRO	CA-C-N	5.16	131.00	121.70
1	f	238	PRO	C-N-CA	5.16	131.00	121.70
1	i	94	GLU	O-C-N	5.16	127.39	122.07
1	j	590	LYS	N-CA-C	5.16	117.65	111.71
1	k	383	GLN	OE1-CD-NE2	-5.16	117.44	122.60
1	l	701	GLN	CA-C-N	5.16	127.20	120.28
1	l	701	GLN	C-N-CA	5.16	127.20	120.28
1	m	175	ASN	CB-CA-C	5.16	118.43	111.82
1	o	454	ILE	CB-CA-C	-5.16	105.36	111.97
1	p	655	ARG	O-C-N	-5.16	116.56	122.08
1	r	435	LYS	N-CA-C	5.16	117.81	111.82
1	t	401	THR	CB-CA-C	-5.16	102.77	110.88
1	t	565	GLU	CA-C-N	5.16	128.16	120.31
1	t	565	GLU	C-N-CA	5.16	128.16	120.31
1	B	707	CYS	CA-C-N	5.16	127.62	120.29
1	B	707	CYS	C-N-CA	5.16	127.62	120.29
1	C	470	GLN	N-CA-CB	5.16	117.71	110.12
1	F	448	THR	CA-C-O	5.16	127.24	121.40
1	H	267	ASN	CA-CB-CG	-5.16	107.44	112.60
1	K	247	ALA	N-CA-C	5.16	119.84	111.37
1	K	547	GLN	N-CA-C	5.16	116.91	111.28
1	L	225	ASP	N-CA-CB	-5.16	102.75	110.24
1	N	696	ILE	N-CA-CB	5.16	117.56	110.54
1	R	364	SER	N-CA-C	-5.16	106.29	112.59
1	T	331	GLN	O-C-N	-5.16	114.54	122.08
1	V	365	ALA	N-CA-C	5.16	121.80	110.80
1	Y	324	ILE	O-C-N	-5.16	117.16	122.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	465	LEU	CA-C-O	5.16	126.24	120.82
1	d	186	VAL	CA-C-O	-5.16	115.58	120.95
1	m	648	ILE	N-CA-CB	5.16	116.24	110.51
1	p	166	ALA	CA-C-O	5.16	126.75	120.81
1	z	197	MET	O-C-N	-5.16	116.65	122.12
1	D	310	VAL	CA-C-O	-5.16	115.58	120.95
1	F	113	GLU	CB-CG-CD	5.16	121.38	112.60
1	T	118	LEU	N-CA-C	5.16	121.22	109.81
1	T	699	LEU	O-C-N	-5.16	116.65	122.12
1	2	206	HIS	CB-CG-CD2	-5.16	124.49	131.20
1	4	448	THR	N-CA-CB	5.16	118.14	110.29
1	8	583	GLN	OE1-CD-NE2	-5.16	117.44	122.60
1	a	492	LEU	CA-C-N	5.16	130.06	122.63
1	a	492	LEU	C-N-CA	5.16	130.06	122.63
1	c	451	TYR	CA-CB-CG	-5.16	104.61	113.90
1	f	465	LEU	CB-CA-C	-5.16	102.78	110.88
1	g	106	SER	O-C-N	-5.16	116.27	122.15
1	g	451	TYR	CA-C-N	5.16	127.20	120.28
1	g	451	TYR	C-N-CA	5.16	127.20	120.28
1	j	141	VAL	CA-C-O	-5.16	114.63	120.67
1	k	200	ASN	OD1-CG-ND2	-5.16	117.44	122.60
1	m	385	SER	CB-CA-C	-5.16	100.76	110.67
1	q	225	ASP	CA-C-N	5.16	128.50	120.60
1	q	225	ASP	C-N-CA	5.16	128.50	120.60
1	u	552	THR	CA-C-N	5.16	127.53	120.46
1	u	552	THR	C-N-CA	5.16	127.53	120.46
1	w	179	GLU	O-C-N	-5.16	116.46	122.96
1	w	202	ARG	CD-NE-CZ	5.16	131.62	124.40
1	w	383	GLN	OE1-CD-NE2	-5.16	117.44	122.60
1	y	340	ALA	CA-C-N	5.16	127.15	120.44
1	y	340	ALA	C-N-CA	5.16	127.15	120.44
1	z	397	HIS	CA-CB-CG	5.16	118.96	113.80
1	z	573	ARG	CG-CD-NE	-5.16	100.64	112.00
1	B	317	PRO	CA-C-N	5.16	130.67	122.62
1	B	317	PRO	C-N-CA	5.16	130.67	122.62
1	G	381	HIS	CG-CD2-NE2	5.16	112.36	107.20
1	G	507	GLN	OE1-CD-NE2	-5.16	117.44	122.60
1	G	629	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
1	I	432	ASP	O-C-N	-5.16	116.65	122.12
1	K	676	SER	N-CA-CB	5.16	117.49	110.01
1	L	197	MET	N-CA-CB	5.16	117.71	110.12
1	L	290	ILE	CA-C-O	5.16	125.95	120.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	370	LEU	CA-C-N	5.16	127.15	120.44
1	P	370	LEU	C-N-CA	5.16	127.15	120.44
1	P	426	ILE	O-C-N	-5.16	116.53	121.90
1	P	449	ARG	CA-C-N	5.16	127.62	120.29
1	P	449	ARG	C-N-CA	5.16	127.62	120.29
1	Q	394	ARG	N-CA-C	5.16	116.90	111.28
1	T	535	ALA	N-CA-C	5.16	116.91	111.28
1	X	407	CYS	CA-C-N	5.16	131.53	121.41
1	X	407	CYS	C-N-CA	5.16	131.53	121.41
1	Y	561	THR	CA-CB-CG2	5.16	119.27	110.50
1	Z	288	ARG	N-CA-C	-5.16	104.75	112.54
1	1	389	LEU	O-C-N	-5.16	116.65	122.12
1	3	275	ALA	N-CA-C	5.16	116.90	111.28
1	4	704	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
1	c	206	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
1	e	674	ARG	CG-CD-NE	-5.16	100.65	112.00
1	g	136	GLU	O-C-N	-5.16	114.90	122.43
1	g	552	THR	N-CA-CB	5.16	117.63	109.94
1	o	481	GLU	CA-C-O	-5.16	115.08	120.55
1	u	229	ILE	N-CA-C	-5.16	100.90	108.54
1	u	677	TRP	O-C-N	5.16	127.38	122.07
1	w	426	ILE	CB-CG1-CD1	5.16	124.64	113.80
1	B	305	LYS	N-CA-CB	-5.16	102.53	110.16
1	D	433	ILE	N-CA-C	5.16	115.37	110.42
1	F	173	TYR	CA-C-O	5.16	125.94	119.59
1	G	367	VAL	CB-CA-C	-5.16	105.13	110.13
1	G	367	VAL	N-CA-C	5.16	113.75	107.61
1	G	577	MET	N-CA-C	-5.16	106.99	113.28
1	P	435	LYS	CA-C-O	-5.16	115.08	120.55
1	R	660	SER	O-C-N	-5.16	116.73	122.09
1	T	362	GLU	N-CA-CB	-5.16	102.36	110.30
1	Z	538	HIS	ND1-CE1-NE2	5.16	113.56	108.40
1	g	577	MET	N-CA-CB	5.16	117.85	110.06
1	i	312	ARG	N-CA-C	5.16	117.30	111.11
1	l	523	ALA	CA-C-N	5.16	127.14	120.44
1	l	523	ALA	C-N-CA	5.16	127.14	120.44
1	C	687	THR	N-CA-CB	5.16	117.44	109.91
1	I	416	ALA	CA-C-N	5.16	127.71	120.28
1	I	416	ALA	C-N-CA	5.16	127.71	120.28
1	O	194	GLN	O-C-N	-5.16	116.27	122.15
1	T	110	LEU	CA-C-O	5.16	125.59	119.56
1	V	482	LYS	CG-CD-CE	5.16	123.16	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	335	ASN	CA-CB-CG	5.16	117.76	112.60
1	Z	690	ARG	NE-CZ-NH2	-5.16	114.56	119.20
1	8	249	ILE	N-CA-C	5.16	116.50	110.62
1	8	548	THR	CA-CB-OG1	5.16	117.33	109.60
1	c	481	GLU	N-CA-CB	5.16	117.48	110.01
1	c	662	GLN	CB-CG-CD	-5.16	103.83	112.60
1	h	148	GLY	CA-C-N	5.16	127.52	120.35
1	h	148	GLY	C-N-CA	5.16	127.52	120.35
1	p	243	LEU	CA-C-O	5.16	126.06	120.55
1	p	666	MET	O-C-N	-5.16	115.34	122.46
1	t	391	GLY	CA-C-N	5.16	127.14	120.44
1	t	391	GLY	C-N-CA	5.16	127.14	120.44
1	w	338	SER	O-C-N	-5.16	116.72	122.75
1	z	376	THR	N-CA-CB	5.16	117.48	110.01
1	z	698	ARG	CD-NE-CZ	5.16	131.62	124.40
1	E	587	VAL	CA-C-O	5.16	125.82	120.25
1	H	110	LEU	N-CA-C	5.16	116.90	111.28
1	H	507	GLN	CA-C-N	5.16	127.14	120.44
1	H	507	GLN	C-N-CA	5.16	127.14	120.44
1	J	630	LEU	CA-C-N	5.16	127.19	120.28
1	J	630	LEU	C-N-CA	5.16	127.19	120.28
1	S	466	ALA	N-CA-C	5.16	116.59	111.07
1	V	250	LYS	CA-C-N	5.16	131.39	121.54
1	V	250	LYS	C-N-CA	5.16	131.39	121.54
1	Z	595	GLU	CA-CB-CG	-5.16	103.79	114.10
1	a	308	MET	CA-CB-CG	5.15	124.41	114.10
1	b	380	MET	CA-C-N	5.15	127.19	120.28
1	b	380	MET	C-N-CA	5.15	127.19	120.28
1	g	454	ILE	CA-CB-CG2	-5.15	101.74	110.50
1	n	379	ILE	CA-C-O	5.15	125.82	120.25
1	q	220	ASP	CA-CB-CG	5.15	117.75	112.60
1	r	425	LYS	CA-C-O	5.15	126.41	120.90
1	t	223	ILE	CA-CB-CG1	5.15	119.16	110.40
1	t	281	GLU	N-CA-C	5.15	117.64	111.71
1	z	708	GLN	O-C-N	-5.15	116.66	122.12
1	B	573	ARG	CB-CA-C	5.15	119.06	110.81
1	I	556	ILE	N-CA-CB	5.15	118.31	110.58
1	J	689	ARG	NH1-CZ-NH2	-5.15	112.60	119.30
1	K	206	HIS	CB-CG-CD2	-5.15	124.50	131.20
1	L	331	GLN	OE1-CD-NE2	-5.15	117.45	122.60
1	M	582	ASP	CA-CB-CG	5.15	117.75	112.60
1	T	366	THR	CB-CA-C	-5.15	101.46	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	0	344	LYS	N-CA-C	5.15	116.98	111.36
1	4	657	ASN	O-C-N	-5.15	116.66	122.12
1	5	279	ALA	CA-C-N	5.15	127.19	120.28
1	5	279	ALA	C-N-CA	5.15	127.19	120.28
1	8	134	VAL	CA-C-O	-5.15	115.59	120.95
1	9	245	ILE	CA-CB-CG2	5.15	119.26	110.50
1	a	512	LEU	N-CA-CB	-5.15	102.86	110.49
1	a	529	GLN	CA-C-N	5.15	127.61	120.29
1	a	529	GLN	C-N-CA	5.15	127.61	120.29
1	c	185	GLN	CA-CB-CG	-5.15	103.80	114.10
1	c	537	LYS	CA-C-O	5.15	126.01	120.55
1	f	496	VAL	N-CA-CB	5.15	116.15	110.53
1	g	240	ASP	CB-CG-OD2	-5.15	106.55	118.40
1	k	524	MET	CA-C-O	5.15	126.01	120.55
1	k	592	VAL	CB-CA-C	-5.15	105.18	112.14
1	l	436	LEU	N-CA-CB	-5.15	102.54	110.01
1	l	624	THR	CA-C-N	5.15	127.19	120.28
1	l	624	THR	C-N-CA	5.15	127.19	120.28
1	l	659	ASP	N-CA-CB	-5.15	102.55	110.12
1	n	498	TYR	CB-CG-CD2	-5.15	113.07	120.80
1	p	347	ILE	CA-CB-CG1	5.15	119.16	110.40
1	s	320	LYS	CA-C-O	5.15	125.45	119.32
1	t	659	ASP	O-C-N	5.15	127.38	122.07
1	v	596	ILE	O-C-N	-5.15	118.01	121.98
1	w	687	THR	CB-CA-C	-5.15	102.79	110.88
1	F	144	PRO	N-CA-CB	5.15	108.66	103.25
1	F	685	THR	N-CA-CB	5.15	117.69	110.12
1	G	153	CYS	CA-C-O	-5.15	114.00	120.23
1	H	446	ASN	CA-CB-CG	5.15	117.75	112.60
1	I	409	ALA	CA-C-N	5.15	130.41	122.42
1	I	409	ALA	C-N-CA	5.15	130.41	122.42
1	I	529	GLN	CA-CB-CG	5.15	124.41	114.10
1	K	468	ASN	CA-C-O	5.15	125.89	119.97
1	M	286	GLY	CA-C-O	5.15	125.91	119.88
1	M	660	SER	CA-C-O	5.15	126.19	120.63
1	R	200	ASN	CA-C-N	5.15	127.76	119.98
1	R	200	ASN	C-N-CA	5.15	127.76	119.98
1	R	536	LYS	N-CA-C	5.15	116.90	111.28
1	T	356	PHE	CA-CB-CG	-5.15	108.65	113.80
1	U	236	ASN	N-CA-CB	5.15	119.05	110.91
1	W	293	LEU	CA-C-N	5.15	130.32	121.87
1	W	293	LEU	C-N-CA	5.15	130.32	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	634	PHE	CB-CG-CD1	5.15	129.46	120.70
1	Y	695	ARG	CA-C-N	5.15	127.25	120.60
1	Y	695	ARG	C-N-CA	5.15	127.25	120.60
1	Z	383	GLN	N-CA-CB	5.15	117.79	110.16
1	0	395	GLU	N-CA-C	5.15	116.89	111.28
1	3	636	GLU	O-C-N	-5.15	115.93	122.27
1	5	245	ILE	CB-CA-C	-5.15	105.38	111.97
1	5	336	ARG	N-CA-CB	5.15	118.16	109.92
1	a	559	LYS	CA-C-N	5.15	127.60	120.29
1	a	559	LYS	C-N-CA	5.15	127.60	120.29
1	e	319	LYS	CA-C-O	5.15	124.72	119.05
1	e	685	THR	CA-CB-OG1	5.15	117.33	109.60
1	g	193	ALA	CA-C-N	5.15	127.14	120.44
1	g	193	ALA	C-N-CA	5.15	127.14	120.44
1	g	652	PHE	N-CA-C	5.15	116.58	111.07
1	m	502	GLU	CA-C-N	5.15	127.05	120.56
1	m	502	GLU	C-N-CA	5.15	127.05	120.56
1	t	688	LYS	O-C-N	5.15	127.58	122.12
1	u	367	VAL	N-CA-C	-5.15	102.28	107.89
1	v	640	ARG	NE-CZ-NH2	-5.15	114.56	119.20
1	y	267	ASN	CB-CA-C	5.15	119.61	110.85
1	B	326	LYS	N-CA-CB	-5.15	102.75	110.17
1	C	223	ILE	N-CA-CB	-5.15	101.68	111.21
1	C	461	TRP	N-CA-CB	-5.15	102.33	110.06
1	H	586	SER	CB-CA-C	-5.15	102.24	110.79
1	L	702	ALA	O-C-N	-5.15	116.66	122.12
1	X	624	THR	N-CA-CB	5.15	117.69	110.12
1	0	243	LEU	CA-C-N	5.15	127.49	120.54
1	0	243	LEU	C-N-CA	5.15	127.49	120.54
1	0	348	THR	CB-CA-C	-5.15	102.77	110.90
1	5	677	TRP	N-CA-C	5.15	116.58	111.07
1	7	214	THR	N-CA-CB	5.15	118.65	110.57
1	8	312	ARG	CG-CD-NE	-5.15	100.67	112.00
1	b	477	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	k	357	ARG	CA-C-N	5.15	127.24	120.60
1	k	357	ARG	C-N-CA	5.15	127.24	120.60
1	x	379	ILE	CA-CB-CG1	5.15	119.15	110.40
1	A	381	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	B	364	SER	O-C-N	-5.15	115.74	122.59
1	T	570	LEU	O-C-N	-5.15	116.66	122.12
1	V	427	LYS	O-C-N	-5.15	116.73	122.09
1	X	692	LEU	N-CA-CB	-5.15	102.54	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3	535	ALA	O-C-N	-5.15	116.74	122.09
1	3	685	THR	CB-CA-C	-5.15	102.80	110.88
1	4	108	ARG	CA-C-O	5.15	125.89	119.97
1	5	226	LEU	CA-C-O	-5.15	114.13	120.05
1	7	623	PHE	CA-C-O	5.15	126.00	120.70
1	8	669	LEU	CA-C-O	5.15	125.70	119.11
1	8	705	ALA	N-CA-C	5.15	117.29	111.11
1	9	174	ARG	NE-CZ-NH1	5.15	126.65	121.50
1	9	279	ALA	N-CA-C	5.15	116.58	111.07
1	a	155	LEU	O-C-N	-5.15	117.30	123.27
1	c	240	ASP	CB-CA-C	5.15	119.88	110.10
1	c	657	ASN	OD1-CG-ND2	-5.15	117.45	122.60
1	d	297	ASP	CA-CB-CG	-5.15	107.45	112.60
1	g	335	ASN	N-CA-C	-5.15	105.68	112.94
1	j	154	PRO	N-CA-C	5.15	119.39	111.21
1	k	643	ASN	CA-C-N	5.15	127.60	120.29
1	k	643	ASN	C-N-CA	5.15	127.60	120.29
1	n	537	LYS	CA-C-N	-5.15	112.98	120.29
1	n	537	LYS	C-N-CA	-5.15	112.98	120.29
1	o	358	VAL	N-CA-CB	-5.15	104.80	110.51
1	q	248	LEU	O-C-N	-5.15	115.54	122.23
1	q	560	HIS	CA-CB-CG	-5.15	108.65	113.80
1	v	434	GLU	O-C-N	-5.15	116.66	122.12
1	v	645	ILE	N-CA-CB	5.15	114.47	110.45
1	x	661	LEU	N-CA-C	5.15	116.89	111.28
1	y	174	ARG	CA-C-O	5.15	125.37	119.35
1	H	353	HIS	CB-CG-CD2	5.15	137.89	131.20
1	H	662	GLN	N-CA-CB	5.15	118.26	110.28
1	I	436	LEU	CA-C-N	5.15	127.73	120.42
1	I	436	LEU	C-N-CA	5.15	127.73	120.42
1	I	554	GLU	CA-C-N	5.15	127.18	120.28
1	I	554	GLU	C-N-CA	5.15	127.18	120.28
1	M	145	ARG	CA-C-O	-5.15	115.42	120.82
1	N	657	ASN	CB-CA-C	5.15	119.05	110.81
1	V	474	ASN	O-C-N	-5.15	116.66	122.12
1	W	356	PHE	CA-C-N	5.15	127.49	120.54
1	W	356	PHE	C-N-CA	5.15	127.49	120.54
1	W	543	PHE	CA-C-O	5.15	126.41	120.90
1	4	401	THR	CB-CA-C	-5.15	102.10	110.85
1	7	550	GLN	CA-C-N	5.15	127.60	120.29
1	7	550	GLN	C-N-CA	5.15	127.60	120.29
1	9	429	PHE	CA-C-N	5.15	127.18	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	9	429	PHE	C-N-CA	5.15	127.18	120.28
1	r	666	MET	N-CA-C	5.15	117.79	111.82
1	s	574	MET	O-C-N	5.15	127.37	122.07
1	C	198	ALA	O-C-N	-5.15	115.78	122.37
1	F	526	ILE	N-CA-CB	5.15	118.30	110.58
1	H	256	GLN	CB-CG-CD	5.15	121.35	112.60
1	L	110	LEU	O-C-N	-5.15	115.27	122.37
1	O	126	ASP	CA-C-N	5.15	128.13	120.31
1	O	126	ASP	C-N-CA	5.15	128.13	120.31
1	V	366	THR	N-CA-CB	5.15	118.22	110.30
1	Z	214	THR	O-C-N	-5.15	117.30	123.27
1	3	655	ARG	N-CA-C	5.14	116.89	111.28
1	4	312	ARG	CA-C-N	5.14	127.17	120.28
1	4	312	ARG	C-N-CA	5.14	127.17	120.28
1	4	537	LYS	N-CA-C	5.14	116.58	111.07
1	b	533	ASN	OD1-CG-ND2	-5.14	117.45	122.60
1	h	164	CYS	CA-C-N	5.14	128.16	120.90
1	h	164	CYS	C-N-CA	5.14	128.16	120.90
1	l	542	PHE	N-CA-C	5.14	117.55	107.57
1	p	506	HIS	CG-CD2-NE2	5.14	112.34	107.20
1	q	463	GLY	CA-C-O	5.14	125.70	120.45
1	u	521	GLN	CA-C-O	-5.14	115.10	120.55
1	v	460	ASN	O-C-N	5.14	128.01	122.15
1	w	280	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	x	446	ASN	CB-CG-ND2	5.14	124.12	116.40
1	z	111	GLY	CA-C-N	5.14	130.96	121.70
1	z	111	GLY	C-N-CA	5.14	130.96	121.70
1	A	120	ALA	N-CA-C	5.14	117.55	108.75
1	C	390	GLU	O-C-N	5.14	127.44	122.09
1	F	543	PHE	N-CA-C	5.14	116.97	111.36
1	H	317	PRO	O-C-N	-5.14	115.69	122.64
1	I	243	LEU	CA-C-O	5.14	126.40	120.90
1	O	457	ASP	CA-CB-CG	5.14	117.75	112.60
1	Q	683	SER	CB-CA-C	-5.14	99.89	110.38
1	0	191	HIS	N-CA-C	5.14	116.89	111.28
1	3	222	THR	N-CA-CB	5.14	118.84	110.77
1	3	288	ARG	N-CA-C	-5.14	104.71	112.99
1	c	591	LYS	CB-CG-CD	5.14	123.13	111.30
1	g	256	GLN	OE1-CD-NE2	-5.14	117.46	122.60
1	g	623	PHE	CA-C-N	5.14	128.53	120.82
1	g	623	PHE	C-N-CA	5.14	128.53	120.82
1	n	501	PHE	O-C-N	-5.14	116.67	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	o	683	SER	CA-C-N	5.14	127.12	120.44
1	o	683	SER	C-N-CA	5.14	127.12	120.44
1	v	525	GLU	O-C-N	-5.14	116.77	122.07
1	w	353	HIS	CG-CD2-NE2	5.14	112.34	107.20
1	x	301	ARG	CA-C-O	5.14	127.78	121.56
1	C	191	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	G	383	GLN	CA-C-O	5.14	126.22	120.82
1	I	550	GLN	OE1-CD-NE2	-5.14	117.46	122.60
1	I	703	ARG	O-C-N	-5.14	116.67	122.12
1	K	703	ARG	CB-CA-C	5.14	119.33	110.79
1	L	264	VAL	CA-C-N	5.14	125.15	119.90
1	L	264	VAL	C-N-CA	5.14	125.15	119.90
1	P	665	MET	O-C-N	-5.14	116.20	122.22
1	Q	695	ARG	NE-CZ-NH2	-5.14	114.57	119.20
1	R	286	GLY	CA-C-O	5.14	126.20	120.03
1	T	525	GLU	N-CA-C	5.14	117.55	111.33
1	U	563	LYS	N-CA-C	-5.14	105.57	111.07
1	X	635	LEU	N-CA-C	-5.14	105.75	111.36
1	6	503	ILE	O-C-N	-5.14	116.53	121.83
1	g	257	GLN	CA-C-O	5.14	125.30	119.18
1	H	113	GLU	CA-C-N	5.14	130.50	122.17
1	H	113	GLU	C-N-CA	5.14	130.50	122.17
1	M	474	ASN	CA-C-O	-5.14	115.10	120.55
1	U	280	HIS	ND1-CE1-NE2	5.14	113.54	108.40
1	V	126	ASP	N-CA-C	5.14	117.34	110.35
1	2	675	TYR	O-C-N	-5.14	115.98	122.20
1	3	238	PRO	CA-C-O	-5.14	115.53	121.95
1	4	547	GLN	N-CA-C	5.14	116.88	111.28
1	4	573	ARG	N-CA-C	5.14	118.81	112.54
1	6	629	HIS	ND1-CE1-NE2	5.14	113.54	108.40
1	8	411	ILE	O-C-N	-5.14	115.24	121.10
1	9	533	ASN	CB-CA-C	5.14	119.59	110.85
1	a	317	PRO	CA-C-N	5.14	130.25	123.00
1	a	317	PRO	C-N-CA	5.14	130.25	123.00
1	b	317	PRO	N-CA-C	5.14	119.16	111.14
1	d	428	MET	CA-C-N	5.14	127.12	120.44
1	d	428	MET	C-N-CA	5.14	127.12	120.44
1	g	343	THR	CA-CB-OG1	5.14	117.31	109.60
1	i	95	GLN	CA-C-O	5.14	126.00	120.55
1	q	661	LEU	CA-C-N	5.14	127.48	120.54
1	q	661	LEU	C-N-CA	5.14	127.48	120.54
1	r	157	LEU	N-CA-C	-5.14	100.52	108.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	r	436	LEU	N-CA-C	5.14	116.88	111.28
1	r	685	THR	N-CA-C	5.14	116.96	111.36
1	s	689	ARG	CB-CA-C	-5.14	102.26	110.79
1	t	226	LEU	CA-C-N	5.14	126.27	119.84
1	t	226	LEU	C-N-CA	5.14	126.27	119.84
1	u	525	GLU	CB-CA-C	-5.14	102.81	110.88
1	A	148	GLY	CA-C-N	5.14	131.22	121.97
1	A	148	GLY	C-N-CA	5.14	131.22	121.97
1	B	197	MET	CA-C-N	5.14	127.42	120.38
1	B	197	MET	C-N-CA	5.14	127.42	120.38
1	E	335	ASN	OD1-CG-ND2	-5.14	117.46	122.60
1	G	148	GLY	CA-C-N	5.14	127.47	120.63
1	G	148	GLY	C-N-CA	5.14	127.47	120.63
1	L	650	GLN	N-CA-C	5.14	116.88	111.28
1	N	258	THR	CA-C-O	5.14	126.74	120.62
1	N	637	THR	CA-CB-OG1	5.14	117.31	109.60
1	R	570	LEU	N-CA-C	-5.14	105.68	111.28
1	T	103	LEU	O-C-N	-5.14	116.58	122.08
1	U	473	LYS	O-C-N	-5.14	116.67	122.12
1	V	246	LYS	CA-C-N	5.14	127.12	120.44
1	V	246	LYS	C-N-CA	5.14	127.12	120.44
1	V	667	GLN	CA-C-O	5.14	125.70	119.38
1	W	305	LYS	CA-C-N	5.14	127.59	120.29
1	W	305	LYS	C-N-CA	5.14	127.59	120.29
1	W	661	LEU	N-CA-CB	-5.14	102.56	110.01
1	X	465	LEU	CA-C-N	5.14	127.17	120.28
1	X	465	LEU	C-N-CA	5.14	127.17	120.28
1	Z	238	PRO	CA-C-N	5.14	130.95	121.70
1	Z	238	PRO	C-N-CA	5.14	130.95	121.70
1	0	527	ILE	CA-C-N	5.14	127.48	120.54
1	0	527	ILE	C-N-CA	5.14	127.48	120.54
1	3	532	ILE	O-C-N	-5.14	116.89	121.87
1	7	464	ILE	CA-CB-CG1	-5.14	101.67	110.40
1	8	371	ALA	O-C-N	5.14	127.43	122.09
1	9	409	ALA	CA-C-N	5.14	130.95	121.70
1	9	409	ALA	C-N-CA	5.14	130.95	121.70
1	f	708	GLN	OE1-CD-NE2	-5.14	117.46	122.60
1	i	338	SER	N-CA-CB	5.14	117.24	110.25
1	t	162	GLN	CA-C-N	5.14	126.26	119.84
1	t	162	GLN	C-N-CA	5.14	126.26	119.84
1	t	673	ASN	OD1-CG-ND2	-5.14	117.46	122.60
1	t	684	GLU	N-CA-C	5.14	116.88	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	148	GLY	CA-C-N	5.14	131.22	121.97
1	I	148	GLY	C-N-CA	5.14	131.22	121.97
1	I	299	MET	CB-CA-C	5.14	117.55	109.84
1	J	189	GLU	N-CA-CB	-5.14	102.62	110.07
1	K	135	LEU	CA-C-N	5.14	127.68	120.28
1	K	135	LEU	C-N-CA	5.14	127.68	120.28
1	P	537	LYS	CA-C-O	-5.14	114.97	120.42
1	Q	222	THR	N-CA-CB	5.14	118.77	110.65
1	Q	507	GLN	CA-CB-CG	5.14	124.38	114.10
1	S	303	THR	O-C-N	-5.14	116.21	122.22
1	Y	410	ASP	N-CA-C	5.14	116.92	110.24
1	1	231	ARG	CA-C-N	5.14	128.46	120.34
1	1	231	ARG	C-N-CA	5.14	128.46	120.34
1	1	285	GLU	O-C-N	-5.14	115.98	122.19
1	1	303	THR	CA-C-O	-5.14	115.11	120.55
1	a	532	ILE	N-CA-C	5.14	115.86	110.62
1	e	450	LEU	CA-C-N	5.14	127.42	120.38
1	e	450	LEU	C-N-CA	5.14	127.42	120.38
1	e	588	VAL	CA-CB-CG1	5.14	119.13	110.40
1	j	206	HIS	CG-CD2-NE2	5.14	112.34	107.20
1	j	533	ASN	CA-CB-CG	5.14	117.74	112.60
1	k	333	ILE	N-CA-C	5.14	115.36	110.53
1	k	383	GLN	O-C-N	-5.14	116.78	122.07
1	l	641	LEU	CA-C-N	5.14	127.68	120.28
1	l	641	LEU	C-N-CA	5.14	127.68	120.28
1	n	343	THR	CA-CB-OG1	5.14	117.30	109.60
1	n	695	ARG	NH1-CZ-NH2	-5.14	112.62	119.30
1	p	269	ASP	CA-CB-CG	5.14	117.74	112.60
1	p	544	ASN	OD1-CG-ND2	-5.14	117.46	122.60
1	p	690	ARG	N-CA-C	5.14	116.88	111.28
1	q	283	ASP	CB-CA-C	5.14	120.29	110.17
1	r	293	LEU	CA-C-O	5.14	126.45	120.49
1	r	636	GLU	CA-C-N	5.14	127.16	120.28
1	r	636	GLU	C-N-CA	5.14	127.16	120.28
1	u	240	ASP	N-CA-CB	5.14	119.23	110.50
1	v	514	GLU	CA-C-O	-5.14	113.12	120.16
1	x	361	GLU	N-CA-C	5.14	117.62	111.71
1	z	270	ILE	CA-CB-CG1	5.14	119.13	110.40
1	F	593	ARG	N-CA-C	5.14	116.88	111.28
1	J	341	GLU	O-C-N	-5.14	115.55	122.23
1	Q	644	GLN	N-CA-C	5.14	117.27	111.11
1	S	351	GLN	CA-CB-CG	5.14	124.37	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Y	244	GLN	N-CA-C	5.14	116.96	111.36
1	1	659	ASP	CA-C-N	5.13	127.16	120.28
1	1	659	ASP	C-N-CA	5.13	127.16	120.28
1	5	440	GLU	CA-C-N	5.13	128.37	120.82
1	5	440	GLU	C-N-CA	5.13	128.37	120.82
1	a	521	GLN	CA-C-O	-5.13	115.43	120.82
1	a	535	ALA	N-CA-CB	5.13	117.76	110.16
1	b	382	ILE	N-CA-C	5.13	115.35	110.42
1	b	473	LYS	N-CA-C	5.13	117.54	111.33
1	f	166	ALA	CA-C-O	5.13	126.84	121.19
1	l	375	THR	N-CA-CB	5.13	117.67	110.12
1	l	450	LEU	N-CA-CB	-5.13	102.57	110.12
1	m	379	ILE	CA-C-O	5.13	126.29	120.95
1	p	118	LEU	CB-CA-C	5.13	120.28	110.17
1	s	245	ILE	N-CA-C	5.13	115.35	110.42
1	w	276	LEU	N-CA-CB	5.13	117.76	110.16
1	y	275	ALA	CA-C-O	5.13	125.85	119.79
1	D	695	ARG	O-C-N	-5.13	116.78	122.07
1	G	431	GLN	N-CA-C	5.13	117.62	111.71
1	M	182	ASP	CA-CB-CG	5.13	117.73	112.60
1	O	230	THR	O-C-N	-5.13	117.37	123.22
1	Q	429	PHE	O-C-N	-5.13	116.75	122.09
1	U	585	TYR	CA-C-N	5.13	127.16	120.28
1	U	585	TYR	C-N-CA	5.13	127.16	120.28
1	Z	249	ILE	O-C-N	5.13	126.94	121.91
1	Z	431	GLN	CA-C-N	5.13	127.47	120.54
1	Z	431	GLN	C-N-CA	5.13	127.47	120.54
1	0	541	GLU	CB-CG-CD	5.13	121.33	112.60
1	5	376	THR	CA-CB-CG2	5.13	119.23	110.50
1	6	650	GLN	CA-C-N	5.13	127.11	120.44
1	6	650	GLN	C-N-CA	5.13	127.11	120.44
1	f	237	GLN	CB-CA-C	5.13	123.52	112.38
1	f	355	TYR	N-CA-CB	5.13	117.76	110.06
1	h	659	ASP	CA-CB-CG	5.13	117.73	112.60
1	l	632	ALA	CA-C-N	5.13	127.47	120.54
1	l	632	ALA	C-N-CA	5.13	127.47	120.54
1	n	261	LEU	CA-C-O	-5.13	114.81	120.30
1	u	405	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	H	689	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	W	206	HIS	CA-C-O	5.13	126.16	119.95
1	X	410	ASP	CA-C-N	5.13	130.94	121.70
1	X	410	ASP	C-N-CA	5.13	130.94	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	152	ARG	CB-CA-C	-5.13	100.72	109.65
1	2	359	LEU	CA-C-N	5.13	127.41	120.38
1	2	359	LEU	C-N-CA	5.13	127.41	120.38
1	4	96	LYS	CA-C-N	5.13	129.16	121.77
1	4	96	LYS	C-N-CA	5.13	129.16	121.77
1	4	112	VAL	CA-CB-CG2	-5.13	101.68	110.40
1	5	673	ASN	OD1-CG-ND2	5.13	127.73	122.60
1	7	342	ALA	CA-C-O	5.13	126.21	120.82
1	e	322	TYR	CB-CG-CD2	-5.13	113.10	120.80
1	g	514	GLU	N-CA-C	5.13	120.44	113.16
1	j	330	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	o	291	GLY	CA-C-N	5.13	129.47	122.34
1	o	291	GLY	C-N-CA	5.13	129.47	122.34
1	p	361	GLU	O-C-N	-5.13	116.21	122.11
1	q	434	GLU	CA-C-O	5.13	126.21	120.82
1	s	217	GLU	CA-C-O	5.13	125.27	119.27
1	s	239	ARG	NE-CZ-NH2	-5.13	114.58	119.20
1	s	478	GLU	N-CA-C	5.13	116.87	111.28
1	t	490	LYS	CA-C-O	5.13	125.72	119.05
1	u	498	TYR	CA-CB-CG	-5.13	104.66	113.90
1	v	382	ILE	CA-CB-CG1	-5.13	101.68	110.40
1	w	591	LYS	N-CA-C	5.13	116.56	111.07
1	x	284	PRO	N-CA-C	-5.13	107.05	114.18
1	B	529	GLN	CB-CG-CD	5.13	121.32	112.60
1	D	481	GLU	N-CA-C	5.13	116.87	111.28
1	G	587	VAL	N-CA-CB	5.13	120.65	110.95
1	N	430	ASN	CA-C-O	5.13	126.39	120.90
1	T	452	ASN	CA-CB-CG	-5.13	107.47	112.60
1	T	472	VAL	CA-C-N	5.13	127.16	120.28
1	T	472	VAL	C-N-CA	5.13	127.16	120.28
1	U	503	ILE	N-CA-C	5.13	115.35	110.42
1	Z	659	ASP	CB-CG-OD1	5.13	130.20	118.40
1	2	185	GLN	CG-CD-OE1	5.13	131.06	120.80
1	7	591	LYS	CA-C-N	5.13	127.02	120.56
1	7	591	LYS	C-N-CA	5.13	127.02	120.56
1	c	358	VAL	CA-CB-CG2	-5.13	101.68	110.40
1	J	444	ARG	NH1-CZ-NH2	-5.13	112.63	119.30
1	P	543	PHE	CA-C-O	5.13	125.99	120.55
1	S	399	LYS	CA-C-O	5.13	125.86	120.42
1	T	481	GLU	CB-CG-CD	-5.13	103.88	112.60
1	0	623	PHE	N-CA-C	5.13	119.78	111.37
1	2	187	GLU	O-C-N	5.13	127.56	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	471	LYS	O-C-N	-5.13	115.38	122.46
1	3	341	GLU	N-CA-C	5.13	116.95	111.36
1	d	254	GLN	CG-CD-NE2	5.13	124.09	116.40
1	d	377	GLU	CA-C-N	5.13	127.11	120.44
1	d	377	GLU	C-N-CA	5.13	127.11	120.44
1	f	491	GLU	N-CA-C	5.13	119.03	112.26
1	k	383	GLN	CB-CG-CD	5.13	121.32	112.60
1	q	576	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	z	269	ASP	CA-CB-CG	5.13	117.73	112.60
1	A	410	ASP	O-C-N	5.13	127.63	122.09
1	D	475	ILE	CA-C-N	5.13	127.22	120.60
1	D	475	ILE	C-N-CA	5.13	127.22	120.60
1	L	623	PHE	CA-CB-CG	-5.13	108.67	113.80
1	M	123	VAL	CB-CA-C	-5.13	105.69	111.23
1	M	151	THR	CA-C-O	5.13	126.61	121.07
1	V	597	PHE	O-C-N	-5.13	116.68	122.12
1	Y	304	GLU	N-CA-C	5.13	116.68	111.14
1	0	565	GLU	CA-C-N	5.13	127.11	120.44
1	0	565	GLU	C-N-CA	5.13	127.11	120.44
1	2	623	PHE	CA-CB-CG	5.13	118.93	113.80
1	c	506	HIS	ND1-CE1-NE2	5.13	113.53	108.40
1	d	263	VAL	CA-C-O	5.13	126.06	120.57
1	e	314	LEU	CB-CA-C	5.13	118.73	111.86
1	f	333	ILE	CA-CB-CG2	-5.13	101.79	110.50
1	i	442	VAL	N-CA-C	5.13	115.61	108.84
1	k	244	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	n	575	GLU	N-CA-C	5.13	118.63	112.38
1	r	460	ASN	O-C-N	-5.13	115.39	122.46
1	s	419	MET	N-CA-C	5.13	116.87	111.28
1	t	445	GLU	CA-C-N	5.13	131.33	121.54
1	t	445	GLU	C-N-CA	5.13	131.33	121.54
1	t	511	GLN	CB-CA-C	-5.13	102.13	110.85
1	v	657	ASN	CA-CB-CG	5.13	117.73	112.60
1	A	179	GLU	N-CA-C	5.13	117.09	109.25
1	B	567	MET	CA-C-O	-5.13	114.98	120.42
1	D	698	ARG	NE-CZ-NH2	-5.13	114.59	119.20
1	I	459	LYS	O-C-N	-5.13	116.69	122.12
1	K	647	PHE	CB-CA-C	-5.13	102.13	110.85
1	P	155	LEU	O-C-N	-5.13	116.35	123.12
1	S	644	GLN	N-CA-C	5.13	117.26	111.11
1	T	630	LEU	N-CA-C	5.13	116.87	111.28
1	X	229	ILE	N-CA-CB	5.13	116.31	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	135	LEU	N-CA-C	-5.13	105.38	111.69
1	0	529	GLN	O-C-N	-5.12	116.31	122.15
1	a	172	SER	CB-CA-C	5.12	118.16	109.50
1	a	387	PRO	N-CA-CB	5.12	109.18	103.44
1	m	324	ILE	CA-CB-CG1	5.12	119.11	110.40
1	r	392	GLN	N-CA-CB	-5.12	102.59	110.12
1	y	357	ARG	NE-CZ-NH1	5.12	126.62	121.50
1	B	249	ILE	CA-C-N	5.12	127.15	120.28
1	B	249	ILE	C-N-CA	5.12	127.15	120.28
1	B	498	TYR	O-C-N	-5.12	115.97	122.27
1	G	220	ASP	CA-CB-CG	5.12	117.72	112.60
1	L	119	PRO	CA-C-N	5.12	131.33	121.54
1	L	119	PRO	C-N-CA	5.12	131.33	121.54
1	M	439	GLY	O-C-N	-5.12	116.88	122.41
1	R	456	GLU	N-CA-C	5.12	116.87	111.28
1	S	166	ALA	N-CA-C	5.12	117.86	110.28
1	V	233	ALA	N-CA-CB	5.12	118.12	109.92
1	W	503	ILE	N-CA-C	5.12	115.34	110.42
1	Z	106	SER	CA-C-O	5.12	126.20	120.82
1	0	458	PHE	N-CA-C	5.12	116.86	111.28
1	5	507	GLN	CA-C-N	5.12	127.57	120.29
1	5	507	GLN	C-N-CA	5.12	127.57	120.29
1	6	410	ASP	CA-CB-CG	5.12	117.72	112.60
1	c	448	THR	O-C-N	-5.12	117.05	123.04
1	d	683	SER	CA-C-N	5.12	127.15	120.28
1	d	683	SER	C-N-CA	5.12	127.15	120.28
1	d	697	TYR	CB-CA-C	5.12	119.00	110.90
1	e	396	SER	CA-C-N	5.12	127.10	120.44
1	e	396	SER	C-N-CA	5.12	127.10	120.44
1	g	292	ILE	CB-CA-C	5.12	118.44	110.96
1	h	279	ALA	N-CA-C	5.12	116.86	111.28
1	h	397	HIS	ND1-CE1-NE2	5.12	113.52	108.40
1	n	667	GLN	OE1-CD-NE2	-5.12	117.48	122.60
1	p	156	VAL	O-C-N	-5.12	116.69	122.94
1	t	666	MET	N-CA-C	5.12	117.60	111.71
1	u	534	VAL	O-C-N	-5.12	116.57	121.90
1	A	154	PRO	CA-C-O	-5.12	115.57	121.36
1	B	472	VAL	O-C-N	-5.12	116.89	121.91
1	F	425	LYS	CA-C-O	-5.12	114.99	120.42
1	G	624	THR	CA-CB-OG1	5.12	117.28	109.60
1	K	628	ILE	CA-C-O	5.12	126.28	120.95
1	L	244	GLN	N-CA-C	5.12	117.76	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	576	GLN	O-C-N	-5.12	116.76	122.09
1	R	115	ASP	CA-C-N	5.12	130.51	122.21
1	R	115	ASP	C-N-CA	5.12	130.51	122.21
1	R	182	ASP	CA-C-N	5.12	125.41	119.47
1	R	182	ASP	C-N-CA	5.12	125.41	119.47
1	U	376	THR	CB-CA-C	-5.12	102.83	110.88
1	V	101	ILE	CA-C-N	5.12	127.56	120.29
1	V	101	ILE	C-N-CA	5.12	127.56	120.29
1	W	238	PRO	CA-C-N	5.12	130.61	121.75
1	W	238	PRO	C-N-CA	5.12	130.61	121.75
1	X	695	ARG	CA-C-O	-5.12	114.08	119.97
1	Z	568	ILE	O-C-N	5.12	127.23	121.90
1	4	672	LYS	N-CA-C	5.12	116.86	111.28
1	9	695	ARG	N-CA-C	5.12	116.55	111.07
1	b	566	ASN	CA-CB-CG	5.12	117.72	112.60
1	f	185	GLN	CB-CG-CD	-5.12	103.89	112.60
1	j	547	GLN	OE1-CD-NE2	-5.12	117.48	122.60
1	l	346	GLU	N-CA-C	5.12	116.86	111.28
1	m	662	GLN	OE1-CD-NE2	-5.12	117.48	122.60
1	n	357	ARG	CD-NE-CZ	5.12	131.57	124.40
1	n	497	ASN	CA-C-O	5.12	125.84	120.36
1	r	640	ARG	O-C-N	-5.12	115.47	122.33
1	t	117	ALA	N-CA-CB	-5.12	102.07	110.11
1	w	244	GLN	CG-CD-NE2	5.12	124.08	116.40
1	w	698	ARG	NE-CZ-NH1	5.12	126.62	121.50
1	z	281	GLU	CB-CA-C	-5.12	102.29	110.79
1	A	386	LEU	CB-CA-C	5.12	122.28	112.76
1	E	206	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	F	185	GLN	N-CA-C	5.12	116.86	111.28
1	H	389	LEU	CB-CA-C	-5.12	102.14	110.85
1	H	706	LEU	O-C-N	-5.12	116.80	122.07
1	L	281	GLU	N-CA-C	5.12	116.55	111.07
1	L	554	GLU	N-CA-C	5.12	116.55	111.07
1	N	101	ILE	CA-C-O	5.12	126.28	120.85
1	S	175	ASN	OD1-CG-ND2	-5.12	117.48	122.60
1	U	409	ALA	CA-C-N	5.12	127.41	120.65
1	U	409	ALA	C-N-CA	5.12	127.41	120.65
1	U	526	ILE	N-CA-CB	5.12	117.50	110.54
1	4	451	TYR	N-CA-CB	-5.12	102.33	110.22
1	9	584	ILE	CA-C-O	5.12	126.22	120.03
1	o	519	MET	CG-SD-CE	-5.12	89.64	100.90
1	p	655	ARG	NE-CZ-NH1	5.12	126.62	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	z	453	LYS	CA-C-N	5.12	127.47	120.46
1	z	453	LYS	C-N-CA	5.12	127.47	120.46
1	z	552	THR	CA-C-N	5.12	127.75	120.53
1	z	552	THR	C-N-CA	5.12	127.75	120.53
1	P	206	HIS	CG-CD2-NE2	5.12	112.32	107.20
1	l	275	ALA	N-CA-C	5.12	116.86	111.28
1	a	255	ARG	NE-CZ-NH2	-5.12	114.59	119.20
1	c	341	GLU	CB-CA-C	-5.12	102.81	110.90
1	d	224	ILE	O-C-N	-5.12	117.73	123.26
1	e	419	MET	N-CA-C	5.12	117.52	111.33
1	f	110	LEU	N-CA-CB	5.12	118.06	110.49
1	f	313	ASN	CB-CG-OD1	5.12	131.03	120.80
1	i	644	GLN	O-C-N	-5.12	116.80	122.07
1	k	658	GLY	CA-C-O	-5.12	114.61	120.09
1	l	471	LYS	CA-C-O	5.12	126.38	120.90
1	p	320	LYS	O-C-N	5.12	128.34	122.25
1	u	183	PRO	CA-C-N	5.12	125.66	119.98
1	u	183	PRO	C-N-CA	5.12	125.66	119.98
1	v	281	GLU	CA-C-N	5.12	127.82	122.14
1	v	281	GLU	C-N-CA	5.12	127.82	122.14
1	A	145	ARG	NE-CZ-NH1	5.12	126.62	121.50
1	B	412	PRO	CA-C-O	-5.12	115.74	121.32
1	C	337	LEU	N-CA-CB	5.12	117.56	109.83
1	E	223	ILE	CA-C-O	5.12	126.01	120.53
1	I	365	ALA	O-C-N	-5.12	118.17	123.29
1	J	569	GLN	O-C-N	-5.12	116.31	122.15
1	L	157	LEU	N-CA-CB	5.12	118.77	110.43
1	M	143	LEU	CA-C-O	-5.12	114.72	120.25
1	Q	548	THR	CB-CA-C	-5.12	102.84	110.88
1	W	430	ASN	O-C-N	-5.12	116.77	122.09
1	Y	272	THR	CA-C-N	5.12	127.98	120.71
1	Y	272	THR	C-N-CA	5.12	127.98	120.71
1	3	593	ARG	O-C-N	-5.12	116.80	122.07
1	4	361	GLU	CB-CG-CD	5.12	121.30	112.60
1	4	694	GLU	CB-CA-C	-5.12	102.85	110.88
1	5	398	GLN	N-CA-C	5.12	116.86	111.28
1	6	671	GLU	N-CA-CB	5.12	117.59	109.71
1	8	204	ILE	CB-CA-C	5.12	118.60	111.08
1	d	127	GLN	OE1-CD-NE2	-5.12	117.48	122.60
1	e	398	GLN	CA-C-O	5.12	126.19	120.82
1	f	477	HIS	N-CA-C	5.12	117.75	111.82
1	h	206	HIS	CB-CG-CD2	-5.12	124.55	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	j	414	GLN	CA-C-O	5.12	127.45	121.46
1	t	469	THR	N-CA-CB	5.12	117.56	109.94
1	w	329	GLY	N-CA-C	5.12	125.31	113.18
1	L	650	GLN	CA-C-O	5.12	125.97	120.55
1	M	217	GLU	CA-C-N	-5.12	118.33	123.04
1	M	217	GLU	C-N-CA	-5.12	118.33	123.04
1	Z	369	ARG	NH1-CZ-NH2	-5.12	112.65	119.30
1	Z	515	PRO	N-CA-C	5.12	121.38	113.75
1	0	335	ASN	N-CA-CB	-5.12	102.91	110.53
1	0	509	ILE	O-C-N	-5.12	116.70	121.87
1	9	102	ASP	CA-CB-CG	5.12	117.72	112.60
1	b	477	HIS	CG-CD2-NE2	5.12	112.32	107.20
1	e	125	GLY	CA-C-N	5.12	128.47	120.75
1	e	125	GLY	C-N-CA	5.12	128.47	120.75
1	f	262	VAL	CA-C-O	5.12	126.17	120.59
1	h	193	ALA	CA-C-O	5.12	125.65	119.31
1	m	392	GLN	N-CA-C	5.12	116.54	111.07
1	o	397	HIS	ND1-CE1-NE2	5.12	113.52	108.40
1	p	265	PRO	N-CA-C	5.12	119.34	111.21
1	r	332	GLU	N-CA-C	5.12	117.76	110.24
1	u	367	VAL	CA-C-N	5.12	125.12	119.90
1	u	367	VAL	C-N-CA	5.12	125.12	119.90
1	v	534	VAL	N-CA-C	5.12	115.33	110.42
1	x	356	PHE	CA-C-O	5.12	125.97	120.70
1	x	586	SER	N-CA-CB	5.12	117.64	110.12
1	x	652	PHE	CB-CG-CD1	-5.12	112.00	120.70
1	z	410	ASP	CA-C-N	5.12	130.91	121.70
1	z	410	ASP	C-N-CA	5.12	130.91	121.70
1	A	494	GLY	O-C-N	-5.12	116.05	122.70
1	B	553	ILE	N-CA-CB	5.12	117.50	110.54
1	D	320	LYS	CA-C-N	5.12	131.43	121.41
1	D	320	LYS	C-N-CA	5.12	131.43	121.41
1	E	573	ARG	O-C-N	-5.12	116.70	122.12
1	F	551	SER	N-CA-C	5.12	117.59	111.71
1	I	260	ASN	CA-CB-CG	-5.12	107.48	112.60
1	J	500	THR	CA-C-N	5.12	127.09	120.44
1	J	500	THR	C-N-CA	5.12	127.09	120.44
1	O	695	ARG	NE-CZ-NH1	5.12	126.62	121.50
1	Q	152	ARG	CA-C-O	5.12	124.81	119.03
1	S	499	LYS	N-CA-CB	5.12	117.64	110.12
1	T	99	PRO	CB-CA-C	-5.12	104.64	112.11
1	0	278	MET	CA-C-N	5.11	130.77	121.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	0	278	MET	C-N-CA	5.11	130.77	121.92
1	1	449	ARG	O-C-N	-5.11	116.52	122.81
1	2	392	GLN	N-CA-C	5.11	117.52	111.33
1	5	570	LEU	O-C-N	-5.11	116.70	122.12
1	7	362	GLU	N-CA-C	5.11	118.30	111.75
1	8	188	LYS	CA-C-N	5.11	127.13	120.28
1	8	188	LYS	C-N-CA	5.11	127.13	120.28
1	8	700	THR	OG1-CB-CG2	-5.11	99.07	109.30
1	9	200	ASN	CA-C-O	5.11	127.32	120.98
1	9	221	LEU	O-C-N	-5.11	116.98	123.17
1	9	418	LYS	CA-C-O	5.11	125.84	120.42
1	a	663	LYS	CA-C-N	5.11	127.85	120.38
1	a	663	LYS	C-N-CA	5.11	127.85	120.38
1	c	174	ARG	NE-CZ-NH2	5.11	123.80	119.20
1	e	357	ARG	NE-CZ-NH1	-5.11	116.39	121.50
1	n	659	ASP	CB-CA-C	5.11	118.91	110.88
1	q	420	PHE	CA-CB-CG	-5.11	108.69	113.80
1	s	369	ARG	NE-CZ-NH1	5.11	126.61	121.50
1	w	253	ILE	CA-C-N	5.11	127.13	120.28
1	w	253	ILE	C-N-CA	5.11	127.13	120.28
1	x	108	ARG	N-CA-C	5.11	116.70	111.03
1	y	488	ARG	N-CA-CB	5.11	117.42	110.01
1	y	591	LYS	N-CA-C	5.11	117.25	111.11
1	C	677	TRP	CB-CG-CD1	-5.11	119.23	126.90
1	I	420	PHE	N-CA-C	5.11	117.52	111.33
1	N	338	SER	N-CA-CB	5.11	118.10	109.92
1	N	644	GLN	N-CA-C	5.11	116.85	111.28
1	O	560	HIS	CA-C-O	5.11	125.85	119.97
1	S	325	VAL	CA-CB-CG2	5.11	119.09	110.40
1	Z	627	GLY	N-CA-C	5.11	118.87	112.73
1	Z	657	ASN	CA-C-O	-5.11	115.13	120.55
1	c	236	ASN	OD1-CG-ND2	-5.11	117.49	122.60
1	e	354	PRO	CA-C-N	5.11	127.44	120.54
1	e	354	PRO	C-N-CA	5.11	127.44	120.54
1	j	680	GLN	N-CA-C	5.11	116.51	109.15
1	l	442	VAL	CA-C-O	5.11	126.86	121.59
1	p	123	VAL	CB-CA-C	-5.11	104.50	111.15
1	s	526	ILE	N-CA-CB	-5.11	102.91	110.58
1	H	208	LEU	CA-C-N	5.11	129.53	123.19
1	H	208	LEU	C-N-CA	5.11	129.53	123.19
1	K	427	LYS	N-CA-CB	5.11	117.56	109.94
1	Q	249	ILE	CA-C-N	5.11	131.30	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	249	ILE	C-N-CA	5.11	131.30	121.54
1	S	401	THR	CA-C-N	5.11	127.44	120.54
1	S	401	THR	C-N-CA	5.11	127.44	120.54
1	T	663	LYS	CA-C-O	-5.11	115.13	120.55
1	U	530	ALA	CA-C-N	5.11	127.55	120.29
1	U	530	ALA	C-N-CA	5.11	127.55	120.29
1	W	387	PRO	N-CA-C	5.11	121.37	113.75
1	X	186	VAL	O-C-N	-5.11	116.91	121.87
1	X	635	LEU	O-C-N	-5.11	116.32	122.15
1	0	246	LYS	O-C-N	-5.11	116.70	122.12
1	3	431	GLN	N-CA-C	5.11	116.85	111.28
1	3	488	ARG	CA-C-O	-5.11	115.00	120.42
1	3	563	LYS	N-CA-C	5.11	116.85	111.28
1	5	684	GLU	CB-CG-CD	5.11	121.29	112.60
1	b	127	GLN	CA-C-N	5.11	130.97	122.54
1	b	127	GLN	C-N-CA	5.11	130.97	122.54
1	b	203	GLY	O-C-N	-5.11	116.02	122.82
1	e	398	GLN	N-CA-CB	5.11	117.42	110.01
1	h	104	ILE	CA-CB-CG1	5.11	119.09	110.40
1	k	655	ARG	N-CA-C	5.11	117.25	111.02
1	n	694	GLU	CA-C-O	5.11	126.37	120.90
1	o	710	SER	CB-CA-C	-5.11	99.63	110.31
1	q	570	LEU	N-CA-C	5.11	116.85	111.28
1	r	377	GLU	CA-C-N	5.11	127.08	120.44
1	r	377	GLU	C-N-CA	5.11	127.08	120.44
1	t	409	ALA	CA-C-N	5.11	130.90	121.70
1	t	409	ALA	C-N-CA	5.11	130.90	121.70
1	A	194	GLN	O-C-N	-5.11	116.77	122.09
1	G	255	ARG	NE-CZ-NH2	-5.11	114.60	119.20
1	N	170	ARG	N-CA-C	5.11	117.02	108.99
1	P	455	ARG	NE-CZ-NH2	5.11	123.80	119.20
1	Q	145	ARG	CA-C-N	5.11	131.43	121.41
1	Q	145	ARG	C-N-CA	5.11	131.43	121.41
1	T	484	GLU	O-C-N	-5.11	115.64	122.49
1	W	183	PRO	N-CA-C	5.11	120.57	113.98
1	X	336	ARG	CG-CD-NE	-5.11	100.76	112.00
1	Z	693	LYS	CA-C-N	5.11	127.13	120.28
1	Z	693	LYS	C-N-CA	5.11	127.13	120.28
1	2	337	LEU	O-C-N	-5.11	116.66	122.89
1	c	191	HIS	ND1-CE1-NE2	5.11	113.51	108.40
1	k	440	GLU	CA-C-O	5.11	125.21	119.18
1	n	504	ILE	O-C-N	-5.11	116.90	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	o	431	GLN	N-CA-C	5.11	117.51	111.33
1	u	398	GLN	N-CA-C	5.11	117.75	111.82
1	w	296	PRO	N-CA-C	-5.11	107.96	114.35
1	y	557	LYS	CB-CA-C	-5.11	102.86	110.88
1	z	584	ILE	CA-C-N	5.11	127.44	120.54
1	z	584	ILE	C-N-CA	5.11	127.44	120.54
1	H	574	MET	N-CA-C	5.11	116.85	111.28
1	I	642	ALA	O-C-N	-5.11	115.58	122.43
1	Q	705	ALA	N-CA-CB	-5.11	102.61	110.12
1	S	433	ILE	N-CA-C	5.11	115.33	110.42
1	W	196	VAL	CB-CA-C	-5.11	105.43	111.97
1	Z	501	PHE	CA-CB-CG	5.11	118.91	113.80
1	Z	706	LEU	CD1-CG-CD2	-5.11	99.56	110.80
1	0	518	SER	CA-CB-OG	-5.11	100.89	111.10
1	5	373	ARG	N-CA-CB	5.11	117.37	109.91
1	6	364	SER	CB-CA-C	-5.11	101.58	109.29
1	6	485	LYS	CA-C-O	5.11	124.67	119.05
1	8	105	ASP	CA-C-N	5.11	127.54	120.29
1	8	105	ASP	C-N-CA	5.11	127.54	120.29
1	8	204	ILE	CA-C-N	5.11	130.91	122.33
1	8	204	ILE	C-N-CA	5.11	130.91	122.33
1	8	334	THR	N-CA-C	5.11	116.66	111.14
1	m	259	ILE	N-CA-CB	5.11	117.19	111.21
1	p	186	VAL	CA-CB-CG2	5.11	119.08	110.40
1	r	280	HIS	CA-CB-CG	5.11	118.91	113.80
1	r	474	ASN	CA-C-O	5.11	125.96	120.70
1	s	507	GLN	N-CA-C	5.11	116.85	111.28
1	s	555	ASP	N-CA-CB	-5.11	102.60	110.01
1	z	419	MET	O-C-N	-5.11	116.71	122.12
1	E	95	GLN	N-CA-CB	5.11	117.63	110.12
1	F	689	ARG	N-CA-C	5.11	117.51	111.33
1	I	301	ARG	CA-C-O	5.11	127.81	121.94
1	L	571	GLN	CA-C-O	5.11	125.96	120.55
1	P	690	ARG	CA-C-O	-5.11	115.14	120.55
1	Q	388	LEU	CA-C-N	5.11	127.12	120.28
1	Q	388	LEU	C-N-CA	5.11	127.12	120.28
1	W	237	GLN	CA-C-N	5.11	126.22	119.84
1	W	237	GLN	C-N-CA	5.11	126.22	119.84
1	0	406	ARG	N-CA-C	5.11	117.25	111.02
1	7	118	LEU	CA-C-N	5.11	125.34	119.83
1	7	118	LEU	C-N-CA	5.11	125.34	119.83
1	a	457	ASP	CA-C-N	5.11	128.07	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	457	ASP	C-N-CA	5.11	128.07	120.31
1	b	664	ALA	O-C-N	-5.11	116.71	122.12
1	f	162	GLN	OE1-CD-NE2	5.11	127.71	122.60
1	f	538	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	g	572	PHE	N-CA-C	5.11	116.65	111.14
1	h	472	VAL	N-CA-C	5.11	115.32	110.42
1	i	230	THR	OG1-CB-CG2	-5.11	99.09	109.30
1	u	146	GLY	CA-C-N	5.11	130.67	122.86
1	u	146	GLY	C-N-CA	5.11	130.67	122.86
1	w	283	ASP	CA-C-N	5.11	126.22	119.84
1	w	283	ASP	C-N-CA	5.11	126.22	119.84
1	w	709	PHE	CB-CG-CD1	-5.11	112.02	120.70
1	A	644	GLN	N-CA-C	5.11	116.53	111.07
1	C	221	LEU	CA-C-N	5.11	129.19	122.30
1	C	221	LEU	C-N-CA	5.11	129.19	122.30
1	E	505	VAL	O-C-N	-5.11	116.92	121.87
1	H	164	CYS	CA-C-N	5.11	131.29	121.54
1	H	164	CYS	C-N-CA	5.11	131.29	121.54
1	H	175	ASN	O-C-N	-5.11	115.80	122.59
1	H	314	LEU	N-CA-C	5.11	118.81	112.58
1	I	282	VAL	N-CA-C	-5.11	105.88	113.39
1	J	345	LYS	CA-C-N	5.11	127.08	120.44
1	J	345	LYS	C-N-CA	5.11	127.08	120.44
1	K	229	ILE	CA-CB-CG2	-5.11	101.82	110.50
1	N	335	ASN	N-CA-C	5.11	117.50	110.35
1	O	141	VAL	N-CA-C	5.11	115.32	108.17
1	O	152	ARG	CB-CG-CD	5.11	123.05	111.30
1	O	326	LYS	CA-CB-CG	5.11	124.31	114.10
1	S	110	LEU	N-CA-C	5.11	116.53	111.07
1	V	99	PRO	CA-N-CD	-5.11	104.85	112.00
1	1	505	VAL	CA-C-N	5.10	127.08	120.44
1	1	505	VAL	C-N-CA	5.10	127.08	120.44
1	6	704	HIS	CB-CA-C	-5.10	102.00	110.68
1	d	578	VAL	N-CA-C	5.10	115.20	107.75
1	q	476	ILE	CA-CB-CG1	5.10	119.08	110.40
1	x	680	GLN	CA-C-N	5.10	128.35	121.05
1	x	680	GLN	C-N-CA	5.10	128.35	121.05
1	z	488	ARG	CA-CB-CG	5.10	124.31	114.10
1	D	574	MET	N-CA-CB	5.10	117.41	110.01
1	F	156	VAL	N-CA-C	-5.10	100.96	108.11
1	K	339	LEU	O-C-N	-5.10	116.71	122.12
1	Q	523	ALA	CA-C-N	5.10	127.08	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	523	ALA	C-N-CA	5.10	127.08	120.44
1	S	323	MET	N-CA-C	-5.10	101.53	109.14
1	1	506	HIS	CB-CA-C	-5.10	102.87	110.88
1	3	457	ASP	CA-CB-CG	-5.10	107.50	112.60
1	7	484	GLU	O-C-N	-5.10	115.99	122.27
1	8	488	ARG	CD-NE-CZ	-5.10	117.26	124.40
1	9	328	ARG	N-CA-C	-5.10	107.22	113.50
1	9	430	ASN	N-CA-CB	5.10	117.62	110.12
1	9	667	GLN	CA-C-N	5.10	127.45	120.46
1	9	667	GLN	C-N-CA	5.10	127.45	120.46
1	b	501	PHE	CA-C-N	5.10	127.43	120.54
1	b	501	PHE	C-N-CA	5.10	127.43	120.54
1	e	387	PRO	CA-C-N	5.10	127.88	120.79
1	e	387	PRO	C-N-CA	5.10	127.88	120.79
1	f	483	TYR	CG-CD2-CE2	5.10	128.85	121.20
1	g	400	ALA	CA-C-N	5.10	127.07	120.44
1	g	400	ALA	C-N-CA	5.10	127.07	120.44
1	g	516	ALA	O-C-N	-5.10	116.71	122.12
1	h	133	SER	CA-C-N	5.10	126.99	120.56
1	h	133	SER	C-N-CA	5.10	126.99	120.56
1	h	535	ALA	CA-C-N	5.10	127.12	120.28
1	h	535	ALA	C-N-CA	5.10	127.12	120.28
1	h	689	ARG	O-C-N	-5.10	116.71	122.12
1	n	520	LEU	N-CA-C	5.10	116.84	111.28
1	q	332	GLU	CA-C-O	5.10	125.96	120.55
1	s	324	ILE	CA-CB-CG1	5.10	119.08	110.40
1	u	220	ASP	CA-C-O	5.10	125.61	119.59
1	u	456	GLU	CA-C-O	5.10	126.36	120.90
1	v	393	ILE	N-CA-C	5.10	115.32	110.42
1	v	676	SER	O-C-N	5.10	127.53	122.12
1	w	433	ILE	CA-C-O	-5.10	115.76	121.17
1	x	428	MET	CG-SD-CE	-5.10	89.68	100.90
1	B	478	GLU	O-C-N	-5.10	115.11	122.36
1	B	481	GLU	CA-C-O	5.10	125.96	120.55
1	D	664	ALA	N-CA-C	5.10	116.84	111.28
1	H	138	LEU	N-CA-CB	-5.10	102.66	110.26
1	I	128	SER	N-CA-CB	5.10	118.47	110.46
1	J	651	TYR	N-CA-C	5.10	118.77	112.54
1	M	624	THR	N-CA-CB	5.10	117.41	110.01
1	P	426	ILE	CA-C-N	5.10	127.12	120.28
1	P	426	ILE	C-N-CA	5.10	127.12	120.28
1	P	488	ARG	NH1-CZ-NH2	5.10	125.93	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	333	ILE	CA-CB-CG1	5.10	119.07	110.40
1	3	173	TYR	CA-CB-CG	-5.10	104.72	113.90
1	b	644	GLN	CA-C-O	5.10	125.83	120.42
1	e	397	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	f	643	ASN	CA-CB-CG	-5.10	107.50	112.60
1	j	587	VAL	CA-C-O	-5.10	115.25	120.71
1	p	510	GLN	O-C-N	-5.10	116.24	122.11
1	s	623	PHE	CB-CG-CD2	-5.10	112.03	120.70
1	t	247	ALA	N-CA-C	5.10	118.66	112.23
1	y	506	HIS	ND1-CG-CD2	-5.10	101.00	106.10
1	D	682	GLN	CA-C-N	5.10	130.88	121.70
1	D	682	GLN	C-N-CA	5.10	130.88	121.70
1	H	124	ILE	CB-CG1-CD1	-5.10	103.09	113.80
1	K	491	GLU	N-CA-CB	5.10	117.89	110.65
1	S	278	MET	CA-C-N	5.10	127.12	120.28
1	S	278	MET	C-N-CA	5.10	127.12	120.28
1	W	240	ASP	O-C-N	-5.10	114.84	123.00
1	0	325	VAL	O-C-N	-5.10	117.64	123.10
1	1	394	ARG	N-CA-C	5.10	116.84	111.28
1	5	152	ARG	CA-C-O	5.10	124.43	118.97
1	6	111	GLY	O-C-N	-5.10	117.34	122.59
1	7	657	ASN	CB-CA-C	5.10	119.26	110.79
1	9	699	LEU	O-C-N	-5.10	116.72	122.12
1	b	687	THR	O-C-N	-5.10	116.71	122.12
1	d	477	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	f	127	GLN	CA-C-N	5.10	130.63	121.66
1	f	127	GLN	C-N-CA	5.10	130.63	121.66
1	i	357	ARG	NE-CZ-NH1	5.10	126.60	121.50
1	k	277	SER	O-C-N	5.10	127.32	122.07
1	l	188	LYS	N-CA-CB	5.10	119.11	110.49
1	l	506	HIS	CB-CG-ND1	5.10	130.35	122.70
1	m	574	MET	CA-C-O	-5.10	115.01	120.42
1	p	215	SER	O-C-N	-5.10	117.93	121.65
1	t	193	ALA	N-CA-C	5.10	116.53	111.07
1	v	660	SER	O-C-N	-5.10	116.34	122.15
1	x	304	GLU	N-CA-C	5.10	116.53	111.07
1	x	493	LEU	O-C-N	5.10	129.24	123.27
1	z	158	LYS	CA-C-O	-5.10	114.66	120.32
1	C	368	PRO	N-CD-CG	5.10	110.85	103.20
1	E	337	LEU	CA-C-O	5.10	126.87	121.16
1	G	311	VAL	CA-C-O	5.10	126.25	120.95
1	G	436	LEU	O-C-N	5.10	127.96	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	463	GLY	CA-C-N	5.10	127.45	120.46
1	G	463	GLY	C-N-CA	5.10	127.45	120.46
1	H	590	LYS	N-CA-C	5.10	116.92	111.36
1	I	301	ARG	NE-CZ-NH1	5.10	126.60	121.50
1	K	659	ASP	O-C-N	-5.10	116.72	122.12
1	O	139	SER	N-CA-CB	5.10	118.00	110.56
1	O	485	LYS	O-C-N	-5.10	115.47	122.46
1	S	287	ASP	N-CA-C	-5.10	106.22	112.90
1	S	324	ILE	O-C-N	-5.10	117.17	123.03
1	V	253	ILE	CA-CB-CG1	5.10	119.07	110.40
1	V	655	ARG	NE-CZ-NH1	5.10	126.60	121.50
1	Z	118	LEU	CA-C-O	-5.10	113.17	120.16
1	Z	384	LYS	N-CA-C	5.10	117.57	111.71
1	Z	556	ILE	O-C-N	-5.10	116.92	121.87
1	3	647	PHE	CA-C-O	5.10	125.83	119.97
1	5	566	ASN	CA-C-N	5.10	127.53	120.29
1	5	566	ASN	C-N-CA	5.10	127.53	120.29
1	8	655	ARG	N-CA-C	5.10	117.24	111.02
1	9	122	ALA	O-C-N	-5.10	117.25	123.27
1	a	467	THR	CA-CB-OG1	-5.10	101.95	109.60
1	e	444	ARG	NE-CZ-NH2	-5.10	114.61	119.20
1	h	268	VAL	N-CA-C	5.10	115.97	110.21
1	h	401	THR	N-CA-C	5.10	117.23	111.11
1	l	201	GLY	N-CA-C	5.10	120.52	112.06
1	n	362	GLU	CG-CD-OE2	5.10	130.12	118.40
1	n	555	ASP	CA-CB-CG	5.10	117.70	112.60
1	r	415	GLU	O-C-N	-5.10	116.72	122.12
1	t	579	PHE	CA-CB-CG	-5.10	108.70	113.80
1	x	480	VAL	CA-CB-CG1	5.10	119.07	110.40
1	y	486	GLN	CA-C-N	5.10	127.36	120.38
1	y	486	GLN	C-N-CA	5.10	127.36	120.38
1	B	296	PRO	CA-C-N	5.10	130.81	122.65
1	B	296	PRO	C-N-CA	5.10	130.81	122.65
1	B	376	THR	CA-C-O	-5.10	115.47	120.82
1	H	378	LEU	CA-C-N	5.10	127.44	120.46
1	H	378	LEU	C-N-CA	5.10	127.44	120.46
1	I	373	ARG	CA-C-N	5.10	127.11	120.28
1	I	373	ARG	C-N-CA	5.10	127.11	120.28
1	J	152	ARG	CA-C-O	5.10	125.56	119.60
1	K	484	GLU	CB-CA-C	5.10	118.95	110.90
1	L	463	GLY	CA-C-O	-5.10	115.50	121.00
1	R	433	ILE	O-C-N	5.10	126.81	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	697	TYR	CB-CG-CD1	-5.10	113.15	120.80
1	T	655	ARG	CG-CD-NE	-5.10	100.79	112.00
1	V	162	GLN	CA-C-N	5.10	124.41	118.85
1	V	162	GLN	C-N-CA	5.10	124.41	118.85
1	6	112	VAL	O-C-N	-5.10	117.12	122.83
1	b	103	LEU	O-C-N	-5.10	116.82	122.07
1	e	102	ASP	CA-C-N	5.10	127.06	120.44
1	e	102	ASP	C-N-CA	5.10	127.06	120.44
1	h	538	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	m	508	TYR	O-C-N	-5.10	116.72	122.12
1	n	265	PRO	N-CA-C	5.10	119.21	111.11
1	n	551	SER	CA-C-N	5.10	127.11	120.28
1	n	551	SER	C-N-CA	5.10	127.11	120.28
1	y	561	THR	OG1-CB-CG2	-5.10	99.11	109.30
1	C	109	ALA	O-C-N	5.10	127.52	122.12
1	H	327	CYS	N-CA-CB	-5.10	102.31	110.46
1	H	688	LYS	CA-C-N	5.10	127.06	120.44
1	H	688	LYS	C-N-CA	5.10	127.06	120.44
1	K	375	THR	CA-CB-OG1	5.10	117.24	109.60
1	S	436	LEU	CA-C-N	5.10	126.98	120.56
1	S	436	LEU	C-N-CA	5.10	126.98	120.56
1	Y	394	ARG	CA-C-N	5.10	127.87	120.79
1	Y	394	ARG	C-N-CA	5.10	127.87	120.79
1	0	143	LEU	CA-C-O	-5.09	114.75	120.25
1	1	278	MET	CA-C-N	5.09	127.11	120.28
1	1	278	MET	C-N-CA	5.09	127.11	120.28
1	1	661	LEU	N-CA-C	5.09	116.52	111.07
1	d	238	PRO	CA-C-O	-5.09	115.42	122.15
1	g	537	LYS	N-CA-C	5.09	119.50	113.28
1	i	532	ILE	N-CA-C	5.09	115.82	110.62
1	k	694	GLU	O-C-N	-5.09	116.73	122.03
1	m	449	ARG	CG-CD-NE	-5.09	100.79	112.00
1	o	405	ARG	CA-C-N	5.09	127.36	120.38
1	o	405	ARG	C-N-CA	5.09	127.36	120.38
1	p	577	MET	CG-SD-CE	-5.09	89.69	100.90
1	p	688	LYS	CA-C-N	5.09	127.42	120.54
1	p	688	LYS	C-N-CA	5.09	127.42	120.54
1	r	194	GLN	CB-CA-C	-5.09	102.33	110.79
1	s	482	LYS	N-CA-C	5.09	116.91	111.36
1	t	125	GLY	CA-C-O	5.09	127.49	122.14
1	t	459	LYS	N-CA-CB	5.09	117.53	109.94
1	u	642	ALA	O-C-N	-5.09	115.60	122.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	v	468	ASN	CA-CB-CG	5.09	117.69	112.60
1	w	199	GLY	CA-C-O	-5.09	113.31	119.68
1	y	95	GLN	CA-C-O	5.09	125.31	119.35
1	z	345	LYS	CA-C-N	5.09	127.11	120.28
1	z	345	LYS	C-N-CA	5.09	127.11	120.28
1	D	486	GLN	CA-C-N	5.09	128.75	120.60
1	D	486	GLN	C-N-CA	5.09	128.75	120.60
1	D	588	VAL	O-C-N	-5.09	117.11	122.20
1	E	687	THR	N-CA-C	5.09	116.52	111.07
1	F	303	THR	N-CA-CB	5.09	117.46	110.07
1	F	404	LEU	O-C-N	-5.09	116.72	122.12
1	G	98	ARG	NE-CZ-NH2	-5.09	114.61	119.20
1	H	109	ALA	CA-C-N	5.09	127.11	120.28
1	H	109	ALA	C-N-CA	5.09	127.11	120.28
1	I	563	LYS	CB-CG-CD	5.09	123.02	111.30
1	J	235	ASP	N-CA-CB	-5.09	101.93	110.39
1	L	243	LEU	O-C-N	-5.09	116.72	122.12
1	M	686	ALA	CA-C-N	5.09	127.06	120.44
1	M	686	ALA	C-N-CA	5.09	127.06	120.44
1	Q	352	THR	N-CA-C	5.09	116.52	111.07
1	Q	575	GLU	N-CA-C	5.09	119.59	113.17
1	V	591	LYS	CA-C-N	5.09	126.98	120.56
1	V	591	LYS	C-N-CA	5.09	126.98	120.56
1	X	673	ASN	N-CA-C	5.09	119.34	113.18
1	Y	497	ASN	CA-C-N	5.09	127.42	120.54
1	Y	497	ASN	C-N-CA	5.09	127.42	120.54
1	Z	399	LYS	N-CA-C	5.09	116.83	111.28
1	Z	547	GLN	N-CA-C	5.09	117.73	111.82
1	7	675	TYR	N-CA-C	5.09	117.57	111.71
1	9	690	ARG	N-CA-CB	5.09	117.39	110.01
1	o	477	HIS	N-CA-CB	5.09	117.39	110.01
1	p	670	GLN	N-CA-C	5.09	117.73	111.82
1	v	211	LEU	CA-C-O	5.09	126.41	120.20
1	D	543	PHE	CA-C-O	-5.09	115.45	120.90
1	I	203	GLY	N-CA-C	-5.09	106.68	112.79
1	L	219	PRO	N-CA-CB	5.09	108.73	103.38
1	Z	395	GLU	CA-C-O	5.09	125.94	120.70
1	0	526	ILE	CA-C-N	5.09	127.08	120.56
1	0	526	ILE	C-N-CA	5.09	127.08	120.56
1	3	209	ILE	N-CA-CB	5.09	119.00	110.86
1	7	288	ARG	CA-C-N	5.09	128.00	120.82
1	7	288	ARG	C-N-CA	5.09	128.00	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	246	LYS	CA-C-O	5.09	125.83	119.97
1	c	401	THR	N-CA-C	5.09	117.56	111.71
1	c	500	THR	CA-CB-OG1	-5.09	101.96	109.60
1	d	123	VAL	CA-C-O	5.09	126.08	120.48
1	f	255	ARG	NE-CZ-NH2	5.09	123.78	119.20
1	j	520	LEU	CA-C-N	5.09	127.06	120.44
1	j	520	LEU	C-N-CA	5.09	127.06	120.44
1	k	117	ALA	CA-C-O	5.09	126.17	120.82
1	o	623	PHE	CB-CG-CD1	-5.09	112.04	120.70
1	q	351	GLN	O-C-N	-5.09	116.80	122.09
1	r	471	LYS	O-C-N	5.09	127.52	122.12
1	u	522	LYS	N-CA-C	5.09	117.23	111.02
1	y	289	THR	N-CA-C	5.09	116.71	108.41
1	y	342	ALA	N-CA-C	5.09	117.56	111.71
1	A	533	ASN	CA-CB-CG	-5.09	107.51	112.60
1	B	102	ASP	N-CA-C	5.09	117.73	111.82
1	C	532	ILE	N-CA-C	5.09	115.81	110.62
1	C	667	GLN	CA-C-O	-5.09	115.15	120.55
1	E	483	TYR	CA-CB-CG	5.09	123.06	113.90
1	F	495	PHE	CB-CA-C	5.09	119.77	110.10
1	G	245	ILE	CA-C-O	5.09	126.57	121.17
1	G	488	ARG	CA-C-O	-5.09	115.46	120.70
1	J	215	SER	CA-CB-OG	5.09	121.28	111.10
1	S	431	GLN	CB-CA-C	-5.09	102.89	110.88
1	S	709	PHE	CA-C-O	-5.09	115.45	120.90
1	U	301	ARG	CA-C-O	5.09	127.78	121.87
1	W	538	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
1	W	655	ARG	N-CA-C	5.09	119.72	111.37
1	0	305	LYS	CA-C-N	5.09	127.10	120.28
1	0	305	LYS	C-N-CA	5.09	127.10	120.28
1	3	158	LYS	N-CA-C	5.09	116.71	108.26
1	6	660	SER	CA-C-O	-5.09	115.03	120.42
1	8	205	SER	N-CA-CB	5.09	119.36	110.81
1	a	448	THR	CA-CB-CG2	5.09	119.15	110.50
1	c	396	SER	N-CA-C	-5.09	105.73	111.28
1	g	623	PHE	CA-C-O	-5.09	115.16	120.55
1	i	650	GLN	OE1-CD-NE2	-5.09	117.51	122.60
1	j	217	GLU	N-CA-C	5.09	119.58	113.17
1	j	383	GLN	CA-C-N	5.09	127.61	120.28
1	j	383	GLN	C-N-CA	5.09	127.61	120.28
1	j	657	ASN	CA-C-N	5.09	125.49	119.94
1	j	657	ASN	C-N-CA	5.09	125.49	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	k	245	ILE	CA-C-N	5.09	127.06	120.44
1	k	245	ILE	C-N-CA	5.09	127.06	120.44
1	m	595	GLU	CA-C-O	5.09	125.31	119.35
1	q	509	ILE	N-CA-C	5.09	115.81	110.62
1	r	591	LYS	N-CA-C	5.09	116.64	111.14
1	w	545	LEU	N-CA-C	5.09	117.22	111.11
1	E	144	PRO	CA-C-N	5.09	127.10	120.28
1	E	144	PRO	C-N-CA	5.09	127.10	120.28
1	E	448	THR	O-C-N	-5.09	117.68	123.48
1	E	523	ALA	CA-C-N	5.09	127.10	120.28
1	E	523	ALA	C-N-CA	5.09	127.10	120.28
1	H	151	THR	O-C-N	-5.09	116.58	122.89
1	H	394	ARG	CD-NE-CZ	-5.09	117.28	124.40
1	I	681	GLU	CA-C-N	5.09	128.00	120.82
1	I	681	GLU	C-N-CA	5.09	128.00	120.82
1	M	503	ILE	N-CA-C	5.09	115.31	110.42
1	N	270	ILE	N-CA-C	5.09	115.81	110.62
1	O	404	LEU	CA-C-N	5.09	127.10	120.28
1	O	404	LEU	C-N-CA	5.09	127.10	120.28
1	P	226	LEU	CA-C-N	5.09	126.20	119.84
1	P	226	LEU	C-N-CA	5.09	126.20	119.84
1	R	534	VAL	CA-C-N	5.09	127.06	120.44
1	R	534	VAL	C-N-CA	5.09	127.06	120.44
1	S	493	LEU	O-C-N	-5.09	117.15	123.36
1	U	546	ASN	CA-CB-CG	5.09	117.69	112.60
1	V	486	GLN	O-C-N	-5.09	116.72	122.12
1	W	526	ILE	CA-C-O	-5.09	115.45	120.85
1	5	634	PHE	CA-C-O	5.09	125.94	120.55
1	9	509	ILE	O-C-N	-5.09	116.92	121.91
1	g	653	MET	CG-SD-CE	-5.09	89.71	100.90
1	l	574	MET	CG-SD-CE	-5.09	89.71	100.90
1	o	239	ARG	N-CA-CB	-5.09	102.15	109.83
1	t	280	HIS	N-CA-C	5.09	116.83	111.28
1	t	315	THR	CA-CB-CG2	5.09	119.15	110.50
1	G	165	GLU	CA-C-N	5.09	128.70	121.42
1	G	165	GLU	C-N-CA	5.09	128.70	121.42
1	I	660	SER	N-CA-C	5.09	116.91	111.36
1	M	341	GLU	CB-CG-CD	-5.09	103.95	112.60
1	P	335	ASN	CA-CB-CG	5.09	117.69	112.60
1	U	204	ILE	O-C-N	-5.09	117.56	123.00
1	3	544	ASN	N-CA-C	5.09	116.83	111.28
1	3	701	GLN	CA-C-N	5.09	127.05	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3	701	GLN	C-N-CA	5.09	127.05	120.44
1	5	150	VAL	O-C-N	-5.09	116.21	122.57
1	5	191	HIS	N-CA-C	5.09	116.82	111.28
1	5	514	GLU	N-CA-CB	5.09	117.88	110.30
1	6	509	ILE	O-C-N	-5.09	116.92	121.91
1	7	107	LEU	N-CA-C	5.09	116.83	111.28
1	a	477	HIS	ND1-CE1-NE2	5.09	113.49	108.40
1	d	254	GLN	OE1-CD-NE2	-5.09	117.51	122.60
1	i	580	CYS	N-CA-CB	5.09	118.72	110.43
1	k	466	ALA	CA-C-N	5.09	127.36	120.44
1	k	466	ALA	C-N-CA	5.09	127.36	120.44
1	l	544	ASN	CA-C-N	5.09	127.05	120.44
1	l	544	ASN	C-N-CA	5.09	127.05	120.44
1	l	572	PHE	O-C-N	-5.09	116.73	122.12
1	p	206	HIS	CG-CD2-NE2	5.09	112.29	107.20
1	p	325	VAL	O-C-N	-5.09	117.77	123.26
1	q	378	LEU	N-CA-C	5.09	116.51	111.07
1	t	531	PHE	CA-C-O	5.09	125.94	120.55
1	v	180	LEU	N-CA-C	5.09	116.51	111.07
1	w	163	PRO	CA-C-N	5.09	128.43	120.75
1	w	163	PRO	C-N-CA	5.09	128.43	120.75
1	w	700	THR	CA-C-O	5.09	125.82	119.97
1	D	301	ARG	CA-C-N	5.09	126.75	120.34
1	D	301	ARG	C-N-CA	5.09	126.75	120.34
1	D	662	GLN	OE1-CD-NE2	-5.09	117.51	122.60
1	E	293	LEU	CA-C-O	5.09	126.10	120.71
1	G	657	ASN	CA-C-N	5.09	125.59	119.94
1	G	657	ASN	C-N-CA	5.09	125.59	119.94
1	I	417	ASP	CA-CB-CG	5.09	117.69	112.60
1	N	127	GLN	CA-C-N	5.09	127.61	120.28
1	N	127	GLN	C-N-CA	5.09	127.61	120.28
1	O	265	PRO	CA-C-N	5.09	127.09	120.28
1	O	265	PRO	C-N-CA	5.09	127.09	120.28
1	P	376	THR	CA-C-N	5.09	127.09	120.28
1	P	376	THR	C-N-CA	5.09	127.09	120.28
1	Q	432	ASP	N-CA-C	5.09	116.51	111.07
1	e	234	VAL	CA-C-N	5.08	131.25	121.54
1	e	234	VAL	C-N-CA	5.08	131.25	121.54
1	e	328	ARG	NE-CZ-NH1	-5.08	116.42	121.50
1	k	146	GLY	CA-C-N	5.08	131.25	121.54
1	k	146	GLY	C-N-CA	5.08	131.25	121.54
1	l	515	PRO	N-CD-CG	5.08	110.83	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	o	430	ASN	CA-CB-CG	-5.08	107.52	112.60
1	p	236	ASN	O-C-N	-5.08	115.83	122.59
1	p	647	PHE	CB-CA-C	-5.08	102.67	110.81
1	q	550	GLN	N-CA-C	5.08	116.82	111.28
1	D	703	ARG	N-CA-C	5.08	117.56	111.71
1	Q	265	PRO	CB-CA-C	5.08	117.74	111.23
1	Q	342	ALA	CB-CA-C	-5.08	102.67	110.81
1	S	634	PHE	O-C-N	-5.08	115.44	122.46
1	X	593	ARG	N-CA-C	5.08	116.51	111.07
1	Z	538	HIS	CA-CB-CG	5.08	118.89	113.80
1	0	244	GLN	OE1-CD-NE2	-5.08	117.52	122.60
1	1	631	ASN	O-C-N	5.08	127.51	122.12
1	5	476	ILE	CA-CB-CG2	5.08	119.14	110.50
1	6	690	ARG	NE-CZ-NH2	-5.08	114.62	119.20
1	8	237	GLN	CA-C-N	5.08	126.19	119.84
1	8	237	GLN	C-N-CA	5.08	126.19	119.84
1	8	407	CYS	O-C-N	-5.08	115.99	122.34
1	a	514	GLU	O-C-N	-5.08	115.47	121.32
1	c	244	GLN	CB-CG-CD	5.08	121.24	112.60
1	c	644	GLN	CB-CG-CD	5.08	121.24	112.60
1	k	657	ASN	CA-CB-CG	-5.08	107.52	112.60
1	l	382	ILE	N-CA-C	5.08	115.30	110.42
1	m	325	VAL	CA-CB-CG1	-5.08	101.76	110.40
1	o	586	SER	CA-C-N	5.08	128.98	120.64
1	o	586	SER	C-N-CA	5.08	128.98	120.64
1	r	328	ARG	CB-CA-C	-5.08	102.42	110.81
1	r	330	GLN	N-CA-CB	-5.08	102.64	110.16
1	s	655	ARG	N-CA-C	5.08	116.51	110.97
1	u	707	CYS	CA-C-O	5.08	125.94	120.55
1	v	547	GLN	O-C-N	-5.08	116.27	122.22
1	y	349	PHE	N-CA-CB	-5.08	102.64	110.01
1	y	538	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
1	A	695	ARG	CD-NE-CZ	-5.08	117.28	124.40
1	B	530	ALA	N-CA-C	5.08	116.82	111.28
1	C	462	VAL	CA-C-N	5.08	125.62	119.98
1	C	462	VAL	C-N-CA	5.08	125.62	119.98
1	D	529	GLN	CA-C-N	5.08	127.05	120.44
1	D	529	GLN	C-N-CA	5.08	127.05	120.44
1	D	591	LYS	O-C-N	-5.08	116.60	122.09
1	H	628	ILE	N-CA-C	5.08	115.81	110.62
1	J	695	ARG	N-CA-C	5.08	116.82	111.28
1	K	179	GLU	N-CA-C	5.08	117.60	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	531	PHE	CA-C-N	5.08	127.42	120.46
1	T	531	PHE	C-N-CA	5.08	127.42	120.46
1	V	701	GLN	CA-C-O	5.08	125.94	120.55
1	W	183	PRO	N-CA-CB	5.08	108.35	103.52
1	5	344	LYS	CA-C-N	5.08	127.05	120.44
1	5	344	LYS	C-N-CA	5.08	127.05	120.44
1	5	533	ASN	CA-C-N	5.08	127.42	120.46
1	5	533	ASN	C-N-CA	5.08	127.42	120.46
1	6	243	LEU	O-C-N	-5.08	116.36	122.15
1	7	192	LYS	CA-C-N	5.08	127.60	120.28
1	7	192	LYS	C-N-CA	5.08	127.60	120.28
1	7	629	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
1	f	424	GLU	CA-C-O	5.08	126.16	120.82
1	g	228	GLY	CA-C-O	-5.08	117.01	121.58
1	h	686	ALA	CA-C-N	5.08	127.09	120.28
1	h	686	ALA	C-N-CA	5.08	127.09	120.28
1	i	234	VAL	N-CA-C	5.08	114.92	107.15
1	l	682	GLN	CA-C-N	5.08	130.85	121.70
1	l	682	GLN	C-N-CA	5.08	130.85	121.70
1	n	394	ARG	CA-C-N	5.08	127.09	120.28
1	n	394	ARG	C-N-CA	5.08	127.09	120.28
1	r	299	MET	N-CA-C	5.08	117.60	110.23
1	u	381	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
1	u	470	GLN	CB-CA-C	-5.08	100.81	109.65
1	v	105	ASP	CA-CB-CG	5.08	117.68	112.60
1	y	118	LEU	CA-C-N	5.08	126.19	119.84
1	y	118	LEU	C-N-CA	5.08	126.19	119.84
1	z	550	GLN	CB-CG-CD	5.08	121.24	112.60
1	E	246	LYS	O-C-N	-5.08	116.83	122.07
1	H	422	LEU	CA-C-N	5.08	127.42	120.46
1	H	422	LEU	C-N-CA	5.08	127.42	120.46
1	I	584	ILE	CA-C-O	5.08	126.15	119.85
1	J	543	PHE	CA-C-N	5.08	127.05	120.44
1	J	543	PHE	C-N-CA	5.08	127.05	120.44
1	J	677	TRP	N-CA-C	5.08	116.82	111.28
1	O	560	HIS	CA-CB-CG	-5.08	108.72	113.80
1	Q	277	SER	CA-C-N	5.08	127.09	120.28
1	Q	277	SER	C-N-CA	5.08	127.09	120.28
1	T	536	LYS	N-CA-C	5.08	117.72	111.82
1	V	148	GLY	CA-C-N	5.08	131.12	121.97
1	V	148	GLY	C-N-CA	5.08	131.12	121.97
1	W	251	LYS	O-C-N	-5.08	116.84	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Z	367	VAL	CA-C-N	5.08	126.19	119.84
1	Z	367	VAL	C-N-CA	5.08	126.19	119.84
1	3	550	GLN	CB-CG-CD	-5.08	103.97	112.60
1	5	254	GLN	CA-C-N	5.08	127.92	120.71
1	5	254	GLN	C-N-CA	5.08	127.92	120.71
1	c	681	GLU	O-C-N	-5.08	117.06	122.85
1	o	365	ALA	O-C-N	-5.08	117.30	123.29
1	o	391	GLY	CA-C-N	5.08	127.09	120.28
1	o	391	GLY	C-N-CA	5.08	127.09	120.28
1	q	316	TYR	N-CA-C	5.08	116.90	109.84
1	F	128	SER	N-CA-C	5.08	119.23	113.19
1	L	562	ALA	CA-C-O	5.08	125.94	120.55
1	R	304	GLU	CB-CA-C	-5.08	102.21	110.85
1	V	437	VAL	N-CA-CB	5.08	116.49	110.55
1	0	655	ARG	NE-CZ-NH1	-5.08	116.42	121.50
1	8	679	LEU	N-CA-CB	5.08	117.83	110.47
1	9	409	ALA	O-C-N	-5.08	115.83	122.59
1	c	440	GLU	O-C-N	-5.08	115.84	122.39
1	c	532	ILE	N-CA-C	5.08	115.30	110.42
1	h	226	LEU	CB-CA-C	5.08	116.17	108.86
1	h	402	GLU	CA-C-N	5.08	127.08	120.28
1	h	402	GLU	C-N-CA	5.08	127.08	120.28
1	n	355	TYR	N-CA-CB	5.08	117.51	109.94
1	p	132	SER	CB-CA-C	-5.08	102.91	110.88
1	r	280	HIS	CG-CD2-NE2	5.08	112.28	107.20
1	u	411	ILE	O-C-N	-5.08	115.31	121.10
1	v	134	VAL	N-CA-C	5.08	115.80	110.62
1	G	286	GLY	CA-C-N	5.08	129.20	120.72
1	G	286	GLY	C-N-CA	5.08	129.20	120.72
1	G	563	LYS	N-CA-C	5.08	117.47	111.33
1	G	654	LEU	CB-CA-C	5.08	119.32	110.79
1	K	263	VAL	N-CA-CB	5.08	118.24	111.64
1	M	199	GLY	CA-C-N	5.08	129.40	122.34
1	M	199	GLY	C-N-CA	5.08	129.40	122.34
1	O	408	GLY	O-C-N	-5.08	116.10	122.70
1	3	335	ASN	CB-CG-ND2	5.08	124.02	116.40
1	6	133	SER	O-C-N	-5.08	116.74	122.12
1	8	167	TRP	CB-CA-C	5.08	121.36	110.45
1	e	121	ILE	N-CA-CB	5.08	116.79	111.00
1	j	183	PRO	N-CA-CB	5.08	108.18	103.41
1	j	452	ASN	OD1-CG-ND2	-5.08	117.52	122.60
1	l	453	LYS	N-CA-C	5.08	116.50	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	n	209	ILE	O-C-N	-5.08	117.70	123.03
1	q	702	ALA	N-CA-CB	-5.08	102.66	110.12
1	C	462	VAL	O-C-N	-5.08	116.60	121.83
1	E	598	ASN	CB-CA-C	5.08	119.75	110.10
1	L	266	CYS	N-CA-C	5.08	119.32	113.18
1	9	640	ARG	NE-CZ-NH2	-5.08	114.63	119.20
1	a	404	LEU	CA-C-O	5.08	125.93	120.55
1	h	187	GLU	CA-C-N	5.08	127.50	120.29
1	h	187	GLU	C-N-CA	5.08	127.50	120.29
1	h	434	GLU	O-C-N	-5.08	116.84	122.07
1	h	515	PRO	O-C-N	5.08	128.58	122.23
1	i	675	TYR	CA-C-O	5.08	125.93	120.55
1	n	135	LEU	N-CA-C	5.08	116.89	111.36
1	n	202	ARG	NE-CZ-NH1	5.08	126.58	121.50
1	n	707	CYS	CA-C-N	5.08	127.50	120.29
1	n	707	CYS	C-N-CA	5.08	127.50	120.29
1	o	395	GLU	CA-C-N	5.08	127.04	120.44
1	o	395	GLU	C-N-CA	5.08	127.04	120.44
1	o	578	VAL	N-CA-C	5.08	119.89	109.34
1	p	497	ASN	CB-CA-C	5.08	119.19	110.81
1	t	373	ARG	CA-C-O	-5.08	115.49	120.82
1	v	143	LEU	CA-C-N	5.08	125.52	120.14
1	v	143	LEU	C-N-CA	5.08	125.52	120.14
1	w	145	ARG	CA-C-N	5.08	131.36	121.41
1	w	145	ARG	C-N-CA	5.08	131.36	121.41
1	w	667	GLN	CB-CA-C	-5.08	102.37	110.79
1	x	201	GLY	O-C-N	-5.08	116.10	122.70
1	A	355	TYR	CA-CB-CG	5.08	123.03	113.90
1	F	471	LYS	CA-C-O	5.08	126.33	120.90
1	H	366	THR	CB-CA-C	-5.08	100.87	110.01
1	H	481	GLU	O-C-N	-5.08	116.74	122.12
1	H	623	PHE	CA-C-N	5.08	127.39	120.54
1	H	623	PHE	C-N-CA	5.08	127.39	120.54
1	K	570	LEU	CA-C-O	-5.08	115.49	120.82
1	Q	131	LYS	N-CA-C	5.08	121.61	110.80
1	R	328	ARG	CB-CA-C	-5.08	102.69	110.81
1	R	536	LYS	O-C-N	-5.08	116.74	122.12
1	T	410	ASP	O-C-N	-5.08	114.88	123.00
1	U	535	ALA	CB-CA-C	-5.08	102.88	110.90
1	2	165	GLU	O-C-N	-5.07	117.43	123.11
1	2	477	HIS	N-CA-C	5.07	116.50	111.07
1	3	209	ILE	O-C-N	-5.07	117.55	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	137	ALA	CA-C-O	5.07	125.80	120.42
1	5	121	ILE	N-CA-CB	5.07	116.55	110.31
1	5	513	VAL	N-CA-CB	5.07	116.49	110.55
1	c	543	PHE	O-C-N	-5.07	116.81	122.09
1	h	529	GLN	CA-C-O	-5.07	115.47	120.90
1	h	581	GLN	CA-C-N	5.07	131.23	121.54
1	h	581	GLN	C-N-CA	5.07	131.23	121.54
1	l	526	ILE	CA-C-N	5.07	127.62	120.42
1	l	526	ILE	C-N-CA	5.07	127.62	120.42
1	m	435	LYS	CG-CD-CE	5.07	122.97	111.30
1	m	513	VAL	CA-C-N	5.07	126.43	120.09
1	m	513	VAL	C-N-CA	5.07	126.43	120.09
1	n	305	LYS	CA-C-N	5.07	127.34	120.44
1	n	305	LYS	C-N-CA	5.07	127.34	120.44
1	n	638	SER	CA-CB-OG	5.07	121.25	111.10
1	o	598	ASN	OD1-CG-ND2	-5.07	117.53	122.60
1	p	477	HIS	CG-CD2-NE2	5.07	112.27	107.20
1	r	593	ARG	N-CA-C	5.07	116.50	111.07
1	u	516	ALA	N-CA-C	5.07	116.81	111.28
1	u	594	GLU	N-CA-C	5.07	116.81	111.28
1	w	395	GLU	CA-C-N	5.07	127.08	120.28
1	w	395	GLU	C-N-CA	5.07	127.08	120.28
1	D	231	ARG	NE-CZ-NH2	-5.07	114.63	119.20
1	L	335	ASN	CA-CB-CG	-5.07	107.53	112.60
1	L	656	GLU	CA-C-O	5.07	125.93	120.55
1	M	500	THR	OG1-CB-CG2	-5.07	99.15	109.30
1	P	126	ASP	CA-C-O	-5.07	116.17	121.55
1	S	405	ARG	CA-C-O	-5.07	115.17	120.55
1	X	294	THR	CA-C-O	-5.07	115.17	121.06
1	X	529	GLN	O-C-N	-5.07	116.37	122.15
1	Y	185	GLN	CB-CA-C	-5.07	102.06	110.68
1	0	527	ILE	O-C-N	-5.07	116.62	121.90
1	1	707	CYS	CA-C-O	5.07	125.93	120.55
1	2	680	GLN	CA-C-O	-5.07	114.87	120.60
1	k	125	GLY	CA-C-O	5.07	125.05	121.04
1	r	502	GLU	CA-C-O	5.07	125.93	120.55
1	C	336	ARG	CA-C-N	5.07	127.91	120.71
1	C	336	ARG	C-N-CA	5.07	127.91	120.71
1	O	588	VAL	CA-CB-CG2	-5.07	101.78	110.40
1	P	550	GLN	N-CA-C	5.07	117.47	111.33
1	U	328	ARG	O-C-N	-5.07	115.84	122.59
1	V	253	ILE	CA-C-O	5.07	125.72	119.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	355	TYR	CA-C-O	5.07	125.80	119.97
1	X	701	GLN	N-CA-C	5.07	116.50	111.07
1	Y	113	GLU	CA-C-O	5.07	124.40	118.77
1	1	463	GLY	CA-C-O	5.07	125.88	120.30
1	6	245	ILE	CA-CB-CG1	5.07	119.02	110.40
1	7	594	GLU	CA-C-N	5.07	127.49	120.29
1	7	594	GLU	C-N-CA	5.07	127.49	120.29
1	h	197	MET	N-CA-CB	5.07	117.58	110.12
1	h	645	ILE	N-CA-CB	5.07	118.31	111.21
1	o	624	THR	N-CA-CB	5.07	117.57	110.12
1	p	555	ASP	O-C-N	-5.07	116.06	122.20
1	q	398	GLN	CA-C-N	5.07	127.03	120.44
1	q	398	GLN	C-N-CA	5.07	127.03	120.44
1	s	586	SER	CB-CA-C	-5.07	100.94	110.67
1	C	488	ARG	NE-CZ-NH2	5.07	123.76	119.20
1	D	231	ARG	NE-CZ-NH1	5.07	126.57	121.50
1	D	381	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
1	G	333	ILE	O-C-N	-5.07	116.63	121.90
1	I	496	VAL	CA-C-O	5.07	126.62	120.74
1	J	381	HIS	CB-CG-ND1	-5.07	115.09	122.70
1	K	296	PRO	N-CA-CB	5.07	109.04	103.26
1	L	384	LYS	CB-CA-C	-5.07	99.39	109.99
1	O	294	THR	N-CA-CB	5.07	119.83	111.62
1	U	377	GLU	CA-C-N	5.07	131.22	121.54
1	U	377	GLU	C-N-CA	5.07	131.22	121.54
1	X	398	GLN	CA-C-N	5.07	127.03	120.44
1	X	398	GLN	C-N-CA	5.07	127.03	120.44
1	1	384	LYS	CA-C-N	5.07	130.69	121.92
1	1	384	LYS	C-N-CA	5.07	130.69	121.92
1	a	170	ARG	CG-CD-NE	-5.07	100.85	112.00
1	c	141	VAL	CA-CB-CG2	5.07	119.02	110.40
1	e	531	PHE	O-C-N	-5.07	116.85	122.07
1	e	624	THR	CB-CA-C	-5.07	101.25	110.63
1	f	304	GLU	CA-C-N	5.07	127.38	120.54
1	f	304	GLU	C-N-CA	5.07	127.38	120.54
1	i	703	ARG	NE-CZ-NH2	5.07	123.76	119.20
1	l	516	ALA	O-C-N	-5.07	116.85	122.07
1	p	556	ILE	N-CA-C	5.07	115.29	110.42
1	q	531	PHE	CA-CB-CG	5.07	118.87	113.80
1	A	704	HIS	CA-C-O	5.07	126.14	120.82
1	J	150	VAL	N-CA-C	5.07	119.88	109.34
1	N	430	ASN	O-C-N	-5.07	116.82	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	U	487	TYR	O-C-N	-5.07	116.75	122.12
1	W	172	SER	CA-C-N	5.07	129.19	120.72
1	W	172	SER	C-N-CA	5.07	129.19	120.72
1	W	673	ASN	OD1-CG-ND2	5.07	127.67	122.60
1	Y	704	HIS	CB-CG-ND1	5.07	130.30	122.70
1	2	500	THR	N-CA-CB	5.07	117.66	110.16
1	4	472	VAL	CA-C-N	5.07	127.58	120.28
1	4	472	VAL	C-N-CA	5.07	127.58	120.28
1	4	518	SER	N-CA-CB	5.07	117.36	110.01
1	7	277	SER	CA-C-N	5.07	127.33	120.44
1	7	277	SER	C-N-CA	5.07	127.33	120.44
1	8	533	ASN	OD1-CG-ND2	5.07	127.67	122.60
1	9	372	GLU	O-C-N	-5.07	116.62	122.09
1	e	251	LYS	N-CA-C	5.07	117.46	111.33
1	f	334	THR	N-CA-C	5.07	116.80	111.28
1	i	346	GLU	CB-CG-CD	-5.07	103.99	112.60
1	j	595	GLU	N-CA-CB	-5.07	104.29	110.98
1	l	629	HIS	CG-CD2-NE2	5.07	112.27	107.20
1	o	506	HIS	N-CA-CB	5.07	117.57	110.12
1	o	546	ASN	O-C-N	-5.07	116.29	122.22
1	r	333	ILE	CB-CA-C	-5.07	103.28	110.83
1	t	512	LEU	CA-C-N	5.07	126.94	120.56
1	t	512	LEU	C-N-CA	5.07	126.94	120.56
1	x	420	PHE	N-CA-C	5.07	116.49	111.07
1	x	693	LYS	N-CA-C	5.07	116.49	111.07
1	z	679	LEU	CA-C-N	5.07	127.91	120.71
1	z	679	LEU	C-N-CA	5.07	127.91	120.71
1	C	175	ASN	CA-CB-CG	-5.07	107.53	112.60
1	C	267	ASN	N-CA-C	5.07	118.72	112.54
1	G	338	SER	O-C-N	-5.07	116.88	122.86
1	J	229	ILE	N-CA-CB	5.07	116.88	111.46
1	J	526	ILE	N-CA-C	5.07	115.28	110.42
1	K	529	GLN	N-CA-C	5.07	116.88	111.36
1	P	518	SER	N-CA-C	5.07	116.80	111.28
1	P	649	ILE	N-CA-C	5.07	115.18	110.42
1	R	488	ARG	O-C-N	-5.07	116.75	122.12
1	T	555	ASP	CB-CA-C	-5.07	102.92	110.88
1	X	194	GLN	O-C-N	5.07	127.49	122.12
1	0	250	LYS	N-CA-C	5.07	118.23	111.75
1	2	186	VAL	CA-C-O	5.07	125.72	120.25
1	8	179	GLU	CA-C-O	5.07	125.78	120.36
1	a	266	CYS	N-CA-C	5.07	117.70	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	153	CYS	CB-CA-C	-5.07	101.52	109.22
1	f	264	VAL	O-C-N	-5.07	115.62	120.59
1	g	346	GLU	CB-CG-CD	5.07	121.21	112.60
1	g	482	LYS	O-C-N	-5.07	116.75	122.12
1	i	459	LYS	CA-CB-CG	-5.07	103.97	114.10
1	j	107	LEU	O-C-N	-5.07	116.82	122.09
1	j	558	VAL	CA-C-N	5.07	127.07	120.28
1	j	558	VAL	C-N-CA	5.07	127.07	120.28
1	l	224	ILE	CA-C-O	5.07	126.59	120.66
1	m	559	LYS	O-C-N	-5.07	116.04	122.27
1	n	648	ILE	N-CA-CB	5.07	116.48	110.55
1	n	691	ILE	CA-C-N	5.07	127.48	120.29
1	n	691	ILE	C-N-CA	5.07	127.48	120.29
1	p	431	GLN	CA-C-N	5.07	127.48	120.29
1	p	431	GLN	C-N-CA	5.07	127.48	120.29
1	q	483	TYR	CB-CA-C	5.07	118.83	110.88
1	r	516	ALA	O-C-N	-5.07	116.75	122.12
1	E	531	PHE	CA-CB-CG	5.07	118.87	113.80
1	G	310	VAL	N-CA-C	5.07	115.79	110.62
1	H	568	ILE	CA-C-O	5.07	126.54	121.27
1	M	265	PRO	N-CD-CG	-5.07	95.60	103.20
1	P	511	GLN	N-CA-CB	-5.07	102.43	110.28
1	Q	311	VAL	CA-C-N	5.07	127.03	120.44
1	Q	311	VAL	C-N-CA	5.07	127.03	120.44
1	Q	330	GLN	O-C-N	-5.07	116.75	122.12
1	R	679	LEU	N-CA-C	5.07	118.49	112.72
1	V	585	TYR	O-C-N	-5.07	116.75	122.12
1	0	477	HIS	N-CA-C	5.06	117.69	111.82
1	0	542	PHE	O-C-N	5.06	129.06	122.38
1	2	581	GLN	CA-C-N	5.06	127.57	120.28
1	2	581	GLN	C-N-CA	5.06	127.57	120.28
1	7	434	GLU	CA-C-O	5.06	126.10	120.63
1	8	280	HIS	ND1-CE1-NE2	5.06	113.46	108.40
1	8	560	HIS	ND1-CE1-NE2	5.06	113.46	108.40
1	b	556	ILE	N-CA-C	5.06	115.83	110.72
1	e	210	SER	CA-C-N	5.06	130.13	122.99
1	e	210	SER	C-N-CA	5.06	130.13	122.99
1	n	410	ASP	N-CA-CB	-5.06	101.89	110.50
1	u	128	SER	N-CA-C	-5.06	105.84	111.36
1	C	111	GLY	CA-C-O	-5.06	115.53	122.31
1	R	318	LEU	O-C-N	-5.06	116.57	123.15
1	U	497	ASN	CB-CG-ND2	5.06	124.00	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	252	TYR	CA-C-O	5.06	126.14	120.82
1	1	532	ILE	CA-C-N	5.06	127.02	120.44
1	1	532	ILE	C-N-CA	5.06	127.02	120.44
1	4	639	LYS	CA-C-O	5.06	125.92	120.55
1	8	480	VAL	CA-C-N	5.06	127.06	120.28
1	8	480	VAL	C-N-CA	5.06	127.06	120.28
1	a	542	PHE	CA-CB-CG	-5.06	108.74	113.80
1	c	155	LEU	CA-C-O	5.06	125.72	120.40
1	k	119	PRO	N-CA-CB	5.06	107.57	103.32
1	k	257	GLN	N-CA-C	5.06	119.09	113.02
1	l	210	SER	CA-C-O	-5.06	115.39	121.11
1	l	555	ASP	CA-C-O	5.06	125.92	120.70
1	p	214	THR	CA-CB-OG1	-5.06	102.01	109.60
1	v	507	GLN	N-CA-C	5.06	116.80	111.28
1	w	587	VAL	N-CA-CB	5.06	120.52	110.95
1	x	584	ILE	N-CA-CB	5.06	117.43	110.54
1	y	491	GLU	N-CA-CB	-5.06	103.13	110.47
1	y	564	ALA	O-C-N	-5.06	116.86	122.07
1	z	165	GLU	N-CA-C	5.06	117.57	110.23
1	z	195	ASN	CA-C-O	5.06	126.14	120.82
1	A	119	PRO	N-CA-C	5.06	122.90	112.47
1	C	232	VAL	N-CA-C	5.06	117.12	109.12
1	D	308	MET	CA-C-N	5.06	127.83	120.79
1	D	308	MET	C-N-CA	5.06	127.83	120.79
1	D	432	ASP	N-CA-C	5.06	116.88	111.36
1	E	330	GLN	N-CA-CB	-5.06	102.50	110.30
1	G	277	SER	N-CA-CB	5.06	117.41	110.07
1	H	275	ALA	N-CA-C	5.06	116.49	111.07
1	J	325	VAL	CA-C-O	5.06	125.85	120.48
1	K	316	TYR	CA-C-O	-5.06	115.43	120.64
1	K	428	MET	N-CA-C	5.06	116.88	111.36
1	K	573	ARG	NH1-CZ-NH2	-5.06	112.72	119.30
1	M	449	ARG	CA-C-N	5.06	127.06	120.28
1	M	449	ARG	C-N-CA	5.06	127.06	120.28
1	O	465	LEU	CA-C-O	-5.06	115.18	120.55
1	P	690	ARG	CB-CA-C	-5.06	102.39	110.79
1	Q	161	LYS	N-CA-C	5.06	117.64	110.50
1	R	259	ILE	N-CA-CB	5.06	117.06	110.99
1	R	377	GLU	CB-CA-C	5.06	118.83	110.88
1	S	170	ARG	NE-CZ-NH2	-5.06	114.64	119.20
1	X	392	GLN	O-C-N	-5.06	116.86	122.07
1	Y	279	ALA	N-CA-C	5.06	119.53	112.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	5	537	LYS	O-C-N	-5.06	116.38	122.15
1	7	523	ALA	CA-C-O	5.06	125.91	120.70
1	h	479	GLU	N-CA-C	5.06	116.80	111.28
1	i	249	ILE	N-CA-C	5.06	116.39	110.62
1	j	327	CYS	CB-CA-C	5.06	118.05	109.50
1	n	216	PRO	N-CA-CB	-5.06	98.75	103.46
1	q	345	LYS	N-CA-C	5.06	116.48	111.07
1	t	221	LEU	N-CA-CB	5.06	119.95	110.99
1	z	559	LYS	CG-CD-CE	5.06	122.94	111.30
1	A	703	ARG	NE-CZ-NH1	5.06	126.56	121.50
1	E	138	LEU	O-C-N	-5.06	116.05	122.17
1	F	355	TYR	N-CA-C	5.06	116.80	111.28
1	H	435	LYS	N-CA-C	5.06	116.48	111.07
1	J	452	ASN	OD1-CG-ND2	-5.06	117.54	122.60
1	M	113	GLU	N-CA-C	5.06	116.49	111.07
1	M	420	PHE	N-CA-C	5.06	116.88	111.36
1	M	680	GLN	CB-CA-C	-5.06	102.00	109.90
1	P	703	ARG	CG-CD-NE	-5.06	100.86	112.00
1	Q	154	PRO	CA-C-N	5.06	129.42	122.84
1	Q	154	PRO	C-N-CA	5.06	129.42	122.84
1	Q	216	PRO	CA-C-N	5.06	127.48	120.29
1	Q	216	PRO	C-N-CA	5.06	127.48	120.29
1	S	145	ARG	NH1-CZ-NH2	-5.06	112.72	119.30
1	U	513	VAL	N-CA-C	5.06	115.28	110.42
1	3	487	TYR	CB-CG-CD1	5.06	128.39	120.80
1	5	135	LEU	CA-C-N	5.06	127.06	120.28
1	5	135	LEU	C-N-CA	5.06	127.06	120.28
1	b	455	ARG	N-CA-C	-5.06	106.89	113.16
1	h	679	LEU	O-C-N	-5.06	114.05	121.89
1	n	145	ARG	CA-C-O	5.06	125.58	119.31
1	n	361	GLU	CB-CA-C	5.06	119.28	110.68
1	w	305	LYS	CA-C-N	5.06	127.47	120.29
1	w	305	LYS	C-N-CA	5.06	127.47	120.29
1	w	543	PHE	CA-C-O	5.06	126.13	120.82
1	E	458	PHE	CA-CB-CG	-5.06	108.74	113.80
1	J	414	GLN	CA-C-N	5.06	127.47	120.29
1	J	414	GLN	C-N-CA	5.06	127.47	120.29
1	K	636	GLU	CA-C-N	5.06	127.31	120.38
1	K	636	GLU	C-N-CA	5.06	127.31	120.38
1	L	130	GLY	CA-C-N	5.06	127.77	120.38
1	L	130	GLY	C-N-CA	5.06	127.77	120.38
1	M	415	GLU	N-CA-CB	5.06	117.56	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	396	SER	CA-C-O	5.06	126.13	120.82
1	P	454	ILE	CA-CB-CG2	5.06	119.10	110.50
1	S	336	ARG	N-CA-C	5.06	118.22	111.24
1	X	512	LEU	CA-C-N	5.06	127.04	120.56
1	X	512	LEU	C-N-CA	5.06	127.04	120.56
1	2	473	LYS	CA-C-N	5.06	127.56	120.28
1	2	473	LYS	C-N-CA	5.06	127.56	120.28
1	7	331	GLN	CA-C-O	-5.06	115.39	121.11
1	8	657	ASN	CA-CB-CG	5.06	117.66	112.60
1	a	531	PHE	CA-C-O	5.06	125.91	120.55
1	b	269	ASP	O-C-N	-5.06	116.76	122.68
1	b	273	THR	CA-C-O	5.06	126.64	120.62
1	c	193	ALA	O-C-N	-5.06	116.76	122.12
1	f	206	HIS	ND1-CE1-NE2	5.06	113.46	108.40
1	g	630	LEU	O-C-N	-5.06	116.76	122.12
1	j	131	LYS	O-C-N	-5.06	116.76	122.12
1	j	544	ASN	CB-CA-C	5.06	119.45	110.85
1	k	384	LYS	N-CA-C	5.06	116.79	111.28
1	k	691	ILE	CA-C-N	5.06	127.01	120.44
1	k	691	ILE	C-N-CA	5.06	127.01	120.44
1	l	234	VAL	CA-C-O	5.06	127.10	120.78
1	m	650	GLN	O-C-N	-5.06	116.76	122.12
1	p	422	LEU	CA-C-O	5.06	125.79	119.97
1	q	397	HIS	CA-C-N	5.06	127.02	120.44
1	q	397	HIS	C-N-CA	5.06	127.02	120.44
1	s	626	ILE	CB-CA-C	5.06	119.20	112.22
1	u	526	ILE	CA-C-N	5.06	127.60	120.42
1	u	526	ILE	C-N-CA	5.06	127.60	120.42
1	v	372	GLU	N-CA-C	5.06	116.87	111.36
1	x	435	LYS	CG-CD-CE	5.06	122.93	111.30
1	x	634	PHE	O-C-N	5.06	127.28	122.07
1	E	461	TRP	CG-CD1-NE1	-5.06	103.63	110.20
1	G	651	TYR	N-CA-C	5.06	116.48	111.07
1	H	246	LYS	N-CA-C	5.06	117.69	111.82
1	H	425	LYS	O-C-N	-5.06	116.05	122.27
1	J	238	PRO	CA-C-O	-5.06	115.74	121.96
1	K	387	PRO	CA-C-N	5.06	127.01	120.44
1	K	387	PRO	C-N-CA	5.06	127.01	120.44
1	K	667	GLN	CA-CB-CG	5.06	124.22	114.10
1	P	239	ARG	O-C-N	-5.06	114.91	123.00
1	Q	219	PRO	N-CA-CB	-5.06	97.94	103.25
1	Y	500	THR	N-CA-CB	5.06	118.02	109.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	l	357	ARG	CA-C-O	-5.06	115.17	120.63
1	l	548	THR	CA-C-N	5.06	127.60	120.42
1	l	548	THR	C-N-CA	5.06	127.60	120.42
1	a	316	TYR	O-C-N	-5.06	115.22	121.64
1	o	593	ARG	CA-CB-CG	5.06	124.21	114.10
1	r	132	SER	N-CA-C	5.06	116.87	111.36
1	s	178	LEU	O-C-N	-5.06	116.86	122.93
1	y	181	GLN	CB-CA-C	5.06	120.48	110.42
1	y	644	GLN	OE1-CD-NE2	-5.06	117.54	122.60
1	D	137	ALA	N-CA-CB	-5.06	102.48	110.06
1	G	462	VAL	N-CA-C	5.06	115.78	110.62
1	I	397	HIS	O-C-N	-5.06	116.86	122.07
1	K	305	LYS	CA-C-N	5.06	127.06	120.28
1	K	305	LYS	C-N-CA	5.06	127.06	120.28
1	M	544	ASN	CA-CB-CG	-5.06	107.54	112.60
1	T	558	VAL	N-CA-CB	5.06	118.16	110.58
1	U	389	LEU	CA-C-N	5.06	127.06	120.28
1	U	389	LEU	C-N-CA	5.06	127.06	120.28
1	V	323	MET	N-CA-CB	-5.06	102.63	110.57
1	V	486	GLN	CB-CG-CD	5.06	121.19	112.60
1	Z	517	LEU	CB-CA-C	-5.06	102.40	110.79
1	4	382	ILE	O-C-N	-5.05	116.89	121.94
1	7	305	LYS	CA-C-N	5.05	129.22	120.58
1	7	305	LYS	C-N-CA	5.05	129.22	120.58
1	7	349	PHE	O-C-N	-5.05	116.76	122.12
1	c	120	ALA	CA-C-O	-5.05	115.82	121.23
1	e	93	TYR	CA-CB-CG	5.05	123.00	113.90
1	e	439	GLY	O-C-N	5.05	127.87	122.41
1	h	205	SER	O-C-N	-5.05	117.10	123.27
1	i	105	ASP	N-CA-C	5.05	116.79	111.28
1	l	239	ARG	O-C-N	-5.05	114.91	123.00
1	m	397	HIS	CA-CB-CG	5.05	118.86	113.80
1	n	145	ARG	O-C-N	-5.05	115.48	122.46
1	n	661	LEU	CA-C-N	5.05	127.05	120.28
1	n	661	LEU	C-N-CA	5.05	127.05	120.28
1	o	329	GLY	CA-C-N	5.05	127.05	120.28
1	o	329	GLY	C-N-CA	5.05	127.05	120.28
1	o	705	ALA	CA-C-N	5.05	127.01	120.44
1	o	705	ALA	C-N-CA	5.05	127.01	120.44
1	p	446	ASN	CA-C-O	5.05	126.64	120.57
1	t	173	TYR	CB-CA-C	5.05	119.11	110.01
1	v	648	ILE	N-CA-C	5.05	115.20	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	v	658	GLY	CA-C-N	5.05	127.05	120.28
1	v	658	GLY	C-N-CA	5.05	127.05	120.28
1	w	579	PHE	CA-C-O	-5.05	113.19	120.11
1	E	344	LYS	CA-C-N	5.05	127.01	120.44
1	E	344	LYS	C-N-CA	5.05	127.01	120.44
1	G	706	LEU	CA-C-N	5.05	127.99	120.31
1	G	706	LEU	C-N-CA	5.05	127.99	120.31
1	G	709	PHE	N-CA-C	5.05	117.18	111.11
1	H	164	CYS	N-CA-C	5.05	117.37	110.24
1	N	487	TYR	CB-CA-C	-5.05	102.83	111.02
1	R	123	VAL	CA-C-N	5.05	129.76	123.14
1	R	123	VAL	C-N-CA	5.05	129.76	123.14
1	S	240	ASP	CA-C-N	5.05	129.28	121.34
1	S	240	ASP	C-N-CA	5.05	129.28	121.34
1	S	507	GLN	CA-C-N	5.05	129.22	120.58
1	S	507	GLN	C-N-CA	5.05	129.22	120.58
1	T	487	TYR	N-CA-C	5.05	117.52	111.71
1	U	258	THR	O-C-N	-5.05	117.56	123.27
1	V	645	ILE	CA-CB-CG1	5.05	118.99	110.40
1	W	440	GLU	N-CA-CB	-5.05	103.27	110.80
1	X	471	LYS	N-CA-C	5.05	117.68	111.82
1	3	237	GLN	O-C-N	-5.05	115.96	120.71
1	b	563	LYS	CA-C-N	5.05	127.36	120.54
1	b	563	LYS	C-N-CA	5.05	127.36	120.54
1	i	395	GLU	O-C-N	-5.05	116.83	122.09
1	j	133	SER	N-CA-CB	5.05	117.55	110.12
1	k	164	CYS	CA-C-N	5.05	131.19	121.54
1	k	164	CYS	C-N-CA	5.05	131.19	121.54
1	m	675	TYR	CA-C-O	5.05	125.78	120.42
1	s	181	GLN	CA-C-N	5.05	127.41	120.39
1	s	181	GLN	C-N-CA	5.05	127.41	120.39
1	s	499	LYS	CA-C-O	5.05	125.91	120.70
1	v	353	HIS	ND1-CE1-NE2	5.05	113.45	108.40
1	A	525	GLU	N-CA-CB	5.05	117.47	109.94
1	B	315	THR	N-CA-C	5.05	117.44	111.33
1	D	347	ILE	N-CA-CB	5.05	116.46	110.55
1	F	328	ARG	CA-C-O	5.05	125.90	120.70
1	H	336	ARG	N-CA-CB	5.05	117.72	109.69
1	T	94	GLU	CA-C-N	5.05	131.19	121.18
1	T	94	GLU	C-N-CA	5.05	131.19	121.18
1	U	674	ARG	NE-CZ-NH1	5.05	126.55	121.50
1	2	159	LEU	CB-CA-C	-5.05	102.06	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	4	630	LEU	CA-C-O	5.05	125.78	119.97
1	8	577	MET	CG-SD-CE	-5.05	89.79	100.90
1	9	281	GLU	N-CA-C	5.05	117.44	111.33
1	e	384	LYS	CA-CB-CG	5.05	124.20	114.10
1	f	369	ARG	NE-CZ-NH1	5.05	126.55	121.50
1	g	145	ARG	N-CA-CB	-5.05	102.68	110.16
1	i	145	ARG	CA-C-O	5.05	125.75	119.79
1	l	182	ASP	N-CA-CB	-5.05	102.98	109.55
1	t	676	SER	CA-C-N	5.05	127.46	120.29
1	t	676	SER	C-N-CA	5.05	127.46	120.29
1	v	580	CYS	CA-C-N	5.05	131.19	121.54
1	v	580	CYS	C-N-CA	5.05	131.19	121.54
1	w	643	ASN	N-CA-CB	-5.05	101.84	110.33
1	y	188	LYS	CA-C-O	5.05	125.90	120.55
1	y	575	GLU	CA-C-O	5.05	125.78	119.97
1	D	588	VAL	CA-C-O	5.05	124.56	119.20
1	F	399	LYS	N-CA-CB	-5.05	102.69	110.16
1	F	629	HIS	CG-CD2-NE2	5.05	112.25	107.20
1	K	454	ILE	CA-C-O	-5.05	116.02	121.27
1	O	301	ARG	CD-NE-CZ	5.05	131.47	124.40
1	P	119	PRO	N-CA-CB	5.05	108.56	103.25
1	S	435	LYS	CB-CG-CD	5.05	122.92	111.30
1	U	290	ILE	O-C-N	-5.05	117.73	122.98
1	Y	661	LEU	CA-C-N	5.05	127.05	120.28
1	Y	661	LEU	C-N-CA	5.05	127.05	120.28
1	Z	196	VAL	O-C-N	5.05	126.86	121.91
1	2	308	MET	CA-CB-CG	5.05	124.20	114.10
1	4	153	CYS	CA-C-O	-5.05	114.75	120.46
1	7	99	PRO	N-CA-C	5.05	121.28	113.75
1	8	141	VAL	CB-CA-C	5.05	118.10	110.63
1	9	442	VAL	CA-CB-CG2	-5.05	101.81	110.40
1	9	689	ARG	CB-CA-C	5.05	119.27	110.68
1	b	497	ASN	N-CA-CB	5.05	118.49	110.16
1	c	672	LYS	CG-CD-CE	5.05	122.92	111.30
1	d	647	PHE	N-CA-C	5.05	116.78	111.28
1	e	434	GLU	N-CA-C	5.05	116.78	111.28
1	f	191	HIS	CB-CG-CD2	-5.05	124.64	131.20
1	f	698	ARG	NE-CZ-NH1	5.05	126.55	121.50
1	g	245	ILE	N-CA-C	5.05	115.66	110.36
1	i	185	GLN	CA-C-N	5.05	127.59	120.42
1	i	185	GLN	C-N-CA	5.05	127.59	120.42
1	o	175	ASN	N-CA-C	5.05	118.56	111.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	q	467	THR	OG1-CB-CG2	-5.05	99.20	109.30
1	q	521	GLN	OE1-CD-NE2	-5.05	117.55	122.60
1	r	636	GLU	CA-C-O	5.05	125.90	120.55
1	t	267	ASN	CA-CB-CG	5.05	117.65	112.60
1	v	197	MET	CA-C-N	5.05	127.99	120.31
1	v	197	MET	C-N-CA	5.05	127.99	120.31
1	w	189	GLU	CA-C-O	5.05	125.84	120.24
1	w	281	GLU	CA-C-N	5.05	128.52	122.16
1	w	281	GLU	C-N-CA	5.05	128.52	122.16
1	x	208	LEU	CA-C-O	5.05	126.75	121.19
1	y	155	LEU	O-C-N	-5.05	117.04	123.05
1	z	531	PHE	O-C-N	-5.05	116.87	122.07
1	A	335	ASN	CA-CB-CG	-5.05	107.55	112.60
1	K	650	GLN	N-CA-CB	5.05	117.54	110.12
1	Q	280	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
1	T	202	ARG	CA-C-N	5.05	131.31	121.41
1	T	202	ARG	C-N-CA	5.05	131.31	121.41
1	W	416	ALA	N-CA-C	5.05	116.78	111.28
1	Y	699	LEU	CA-C-O	-5.05	115.50	120.90
1	5	453	LYS	CA-C-N	5.05	127.38	120.46
1	5	453	LYS	C-N-CA	5.05	127.38	120.46
1	7	454	ILE	N-CA-C	5.05	117.36	111.05
1	f	109	ALA	N-CA-C	5.05	117.67	111.82
1	k	328	ARG	NE-CZ-NH2	-5.05	114.66	119.20
1	k	375	THR	N-CA-CB	5.05	117.54	110.12
1	y	232	VAL	CA-C-O	-5.05	115.09	120.39
1	z	498	TYR	CA-CB-CG	5.05	122.99	113.90
1	H	336	ARG	CA-C-N	5.05	130.44	123.07
1	H	336	ARG	C-N-CA	5.05	130.44	123.07
1	I	149	ILE	O-C-N	-5.05	116.26	122.57
1	N	103	LEU	N-CA-C	5.05	116.78	111.28
1	P	101	ILE	N-CA-C	5.05	115.77	110.62
1	T	570	LEU	N-CA-CB	-5.05	102.49	110.06
1	X	284	PRO	N-CA-CB	5.05	109.09	103.44
1	3	551	SER	O-C-N	-5.05	116.77	122.12
1	5	100	CYS	O-C-N	-5.05	116.87	122.07
1	6	182	ASP	CA-C-N	5.05	124.66	119.56
1	6	182	ASP	C-N-CA	5.05	124.66	119.56
1	d	228	GLY	CA-C-N	5.05	128.06	120.69
1	d	228	GLY	C-N-CA	5.05	128.06	120.69
1	n	497	ASN	O-C-N	-5.05	117.47	123.22
1	q	131	LYS	CA-C-N	5.05	127.75	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	q	131	LYS	C-N-CA	5.05	127.75	120.38
1	r	460	ASN	CA-C-O	5.05	125.57	119.31
1	r	673	ASN	N-CA-CB	-5.05	102.46	110.28
1	w	119	PRO	N-CA-CB	5.05	107.69	103.25
1	A	552	THR	OG1-CB-CG2	-5.05	99.21	109.30
1	C	479	GLU	CA-C-O	5.05	125.77	120.42
1	G	237	GLN	O-C-N	-5.05	115.78	121.43
1	H	314	LEU	CB-CA-C	5.05	119.21	111.39
1	N	215	SER	CA-C-O	-5.05	115.97	120.56
1	Q	123	VAL	N-CA-CB	5.05	117.72	111.41
1	S	167	TRP	CE2-CD2-CE3	-5.05	113.75	118.80
1	0	573	ARG	O-C-N	-5.04	116.77	122.12
1	1	491	GLU	CA-C-N	5.04	130.45	122.78
1	1	491	GLU	C-N-CA	5.04	130.45	122.78
1	3	266	CYS	CB-CA-C	-5.04	102.42	110.79
1	c	239	ARG	NE-CZ-NH1	5.04	126.55	121.50
1	c	250	LYS	N-CA-C	5.04	117.16	111.11
1	f	168	ALA	N-CA-CB	-5.04	102.77	111.55
1	k	222	THR	CB-CA-C	5.04	118.53	110.16
1	t	536	LYS	CA-C-O	5.04	126.12	120.82
1	H	187	GLU	CB-CA-C	-5.04	102.42	110.79
1	I	660	SER	O-C-N	-5.04	116.40	122.15
1	K	698	ARG	N-CA-C	5.04	116.78	111.28
1	L	335	ASN	N-CA-CB	5.04	117.55	109.28
1	L	424	GLU	O-C-N	-5.04	116.84	122.09
1	P	681	GLU	N-CA-C	5.04	117.55	110.23
1	R	275	ALA	O-C-N	-5.04	116.87	122.07
1	Y	429	PHE	O-C-N	-5.04	116.31	122.11
1	Z	542	PHE	CB-CA-C	-5.04	104.88	112.09
1	0	658	GLY	N-CA-C	5.04	118.74	112.64
1	8	279	ALA	CA-C-N	5.04	127.04	120.28
1	8	279	ALA	C-N-CA	5.04	127.04	120.28
1	a	131	LYS	CA-C-N	5.04	127.74	120.38
1	a	131	LYS	C-N-CA	5.04	127.74	120.38
1	b	461	TRP	CB-CA-C	-5.04	102.42	110.79
1	d	362	GLU	CA-C-N	5.04	131.29	121.41
1	d	362	GLU	C-N-CA	5.04	131.29	121.41
1	f	190	ILE	CB-CA-C	-5.04	105.52	111.97
1	i	655	ARG	CA-C-N	5.04	127.30	120.44
1	i	655	ARG	C-N-CA	5.04	127.30	120.44
1	i	674	ARG	N-CA-C	5.04	119.70	113.50
1	j	383	GLN	OE1-CD-NE2	-5.04	117.56	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	l	328	ARG	O-C-N	-5.04	116.88	122.07
1	p	509	ILE	CA-C-N	5.04	128.39	120.82
1	p	509	ILE	C-N-CA	5.04	128.39	120.82
1	q	426	ILE	O-C-N	-5.04	116.98	121.87
1	t	706	LEU	CA-C-N	5.04	127.00	120.44
1	t	706	LEU	C-N-CA	5.04	127.00	120.44
1	w	188	LYS	N-CA-C	-5.04	105.69	111.14
1	y	148	GLY	CA-C-N	5.04	128.11	120.75
1	y	148	GLY	C-N-CA	5.04	128.11	120.75
1	z	293	LEU	O-C-N	-5.04	117.47	123.22
1	z	449	ARG	NH1-CZ-NH2	-5.04	112.74	119.30
1	B	331	GLN	CA-C-N	5.04	128.37	120.75
1	B	331	GLN	C-N-CA	5.04	128.37	120.75
1	B	648	ILE	N-CA-CB	-5.04	104.11	110.57
1	E	174	ARG	NH1-CZ-NH2	-5.04	112.74	119.30
1	K	116	LEU	O-C-N	-5.04	117.29	122.94
1	M	573	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	P	708	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	R	131	LYS	N-CA-C	5.04	116.78	111.28
1	T	241	ILE	CB-CA-C	5.04	118.43	111.97
1	2	334	THR	CA-CB-OG1	5.04	117.16	109.60
1	7	585	TYR	CA-C-N	5.04	127.00	120.44
1	7	585	TYR	C-N-CA	5.04	127.00	120.44
1	a	357	ARG	N-CA-CB	5.04	117.53	110.12
1	a	629	HIS	ND1-CE1-NE2	5.04	113.44	108.40
1	d	544	ASN	OD1-CG-ND2	-5.04	117.56	122.60
1	f	120	ALA	CA-C-N	-5.04	116.45	122.90
1	f	120	ALA	C-N-CA	-5.04	116.45	122.90
1	g	692	LEU	O-C-N	-5.04	116.78	122.12
1	i	404	LEU	O-C-N	-5.04	116.78	122.12
1	j	707	CYS	O-C-N	5.04	127.26	122.07
1	k	500	THR	N-CA-C	-5.04	105.88	112.23
1	m	433	ILE	O-C-N	-5.04	116.97	121.91
1	x	452	ASN	CA-C-N	5.04	127.04	120.28
1	x	452	ASN	C-N-CA	5.04	127.04	120.28
1	y	665	MET	N-CA-C	5.04	116.77	111.28
1	A	318	LEU	N-CA-C	5.04	117.52	109.96
1	A	336	ARG	CB-CA-C	5.04	120.45	110.42
1	F	414	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	F	422	LEU	CA-C-N	5.04	127.37	120.46
1	F	422	LEU	C-N-CA	5.04	127.37	120.46
1	H	306	SER	CA-C-N	5.04	127.37	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	306	SER	C-N-CA	5.04	127.37	120.46
1	L	575	GLU	O-C-N	5.04	129.57	122.41
1	M	121	ILE	CA-C-O	5.04	125.70	120.36
1	M	548	THR	N-CA-C	5.04	116.46	111.07
1	Q	514	GLU	O-C-N	-5.04	115.97	120.71
1	R	644	GLN	CA-C-O	-5.04	115.53	120.82
1	S	564	ALA	O-C-N	5.04	127.90	122.15
1	T	239	ARG	O-C-N	-5.04	114.93	123.00
1	U	330	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	U	342	ALA	CA-C-N	5.04	126.99	120.44
1	U	342	ALA	C-N-CA	5.04	126.99	120.44
1	V	641	LEU	N-CA-C	5.04	117.51	111.71
1	X	400	ALA	N-CA-C	5.04	116.78	111.28
1	Y	632	ALA	CA-C-O	5.04	125.85	120.20
1	Z	166	ALA	CA-C-O	-5.04	115.64	121.19
1	4	697	TYR	CA-C-N	5.04	126.99	120.44
1	4	697	TYR	C-N-CA	5.04	126.99	120.44
1	5	525	GLU	O-C-N	5.04	127.46	122.12
1	7	122	ALA	CA-C-N	5.04	128.67	122.37
1	7	122	ALA	C-N-CA	5.04	128.67	122.37
1	8	518	SER	N-CA-C	-5.04	105.87	111.36
1	c	686	ALA	CA-C-O	5.04	125.89	120.55
1	d	419	MET	CA-CB-CG	5.04	124.18	114.10
1	t	180	LEU	CA-C-N	5.04	131.17	121.54
1	t	180	LEU	C-N-CA	5.04	131.17	121.54
1	v	590	LYS	N-CA-C	5.04	116.77	111.28
1	R	266	CYS	CA-C-O	5.04	125.58	119.38
1	U	449	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	V	204	ILE	CA-CB-CG2	5.04	119.07	110.50
1	W	401	THR	O-C-N	-5.04	116.41	122.15
1	Y	667	GLN	CA-C-N	5.04	127.58	120.42
1	Y	667	GLN	C-N-CA	5.04	127.58	120.42
1	7	552	THR	CA-CB-OG1	-5.04	102.04	109.60
1	c	305	LYS	N-CA-CB	-5.04	102.03	110.39
1	c	526	ILE	O-C-N	5.04	127.02	121.83
1	e	280	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
1	g	656	GLU	CB-CA-C	-5.04	102.97	110.88
1	h	312	ARG	O-C-N	-5.04	116.78	122.12
1	k	624	THR	OG1-CB-CG2	-5.04	99.22	109.30
1	q	566	ASN	CA-C-O	-5.04	115.53	120.82
1	t	293	LEU	O-C-N	-5.04	116.73	122.93
1	t	415	GLU	N-CA-CB	5.04	117.62	110.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	x	399	LYS	N-CA-CB	5.04	117.62	110.16
1	x	677	TRP	CE2-CD2-CE3	5.04	123.84	118.80
1	z	425	LYS	CB-CA-C	-5.04	99.78	110.31
1	A	236	ASN	CB-CG-OD1	5.04	130.88	120.80
1	F	644	GLN	N-CA-C	5.04	116.77	111.28
1	K	330	GLN	N-CA-CB	5.04	118.37	110.46
1	K	641	LEU	N-CA-C	5.04	116.77	111.28
1	L	164	CYS	CA-C-N	5.04	129.38	120.87
1	L	164	CYS	C-N-CA	5.04	129.38	120.87
1	M	327	CYS	CB-CA-C	5.04	120.52	109.99
1	M	397	HIS	ND1-CE1-NE2	5.04	113.44	108.40
1	P	238	PRO	O-C-N	-5.04	116.59	122.99
1	Q	436	LEU	O-C-N	-5.04	116.88	122.07
1	Q	665	MET	CG-SD-CE	-5.04	89.81	100.90
1	T	323	MET	CA-C-O	-5.04	115.22	121.11
1	5	479	GLU	CA-C-N	5.04	127.36	120.46
1	5	479	GLU	C-N-CA	5.04	127.36	120.46
1	7	474	ASN	N-CA-C	5.04	116.58	111.14
1	7	506	HIS	CA-C-N	5.04	127.03	120.28
1	7	506	HIS	C-N-CA	5.04	127.03	120.28
1	a	626	ILE	O-C-N	-5.04	116.97	121.91
1	b	523	ALA	CA-C-N	5.04	126.99	120.44
1	b	523	ALA	C-N-CA	5.04	126.99	120.44
1	e	707	CYS	CA-C-O	5.04	125.76	119.97
1	j	145	ARG	CA-C-O	5.04	125.97	120.58
1	j	705	ALA	CA-C-N	5.04	127.03	120.28
1	j	705	ALA	C-N-CA	5.04	127.03	120.28
1	w	369	ARG	CA-C-N	5.04	127.34	120.54
1	w	369	ARG	C-N-CA	5.04	127.34	120.54
1	H	525	GLU	N-CA-CB	-5.04	102.72	110.12
1	S	200	ASN	CA-C-O	5.04	127.71	120.51
1	1	245	ILE	CA-C-O	5.04	126.19	120.85
1	7	143	LEU	CA-C-O	-5.04	114.76	119.80
1	8	104	ILE	O-C-N	-5.04	116.11	121.80
1	a	522	LYS	CA-CB-CG	-5.04	104.03	114.10
1	a	550	GLN	N-CA-CB	5.04	117.61	110.16
1	e	647	PHE	CA-C-O	5.04	126.07	120.63
1	g	218	VAL	CA-CB-CG1	-5.04	101.84	110.40
1	h	581	GLN	N-CA-CB	5.04	118.47	110.87
1	h	704	HIS	N-CA-C	5.04	116.77	111.28
1	n	340	ALA	CA-C-N	5.04	126.99	120.44
1	n	340	ALA	C-N-CA	5.04	126.99	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	o	272	THR	CA-C-O	5.04	125.87	119.78
1	o	338	SER	N-CA-C	5.04	117.18	110.53
1	s	651	TYR	N-CA-C	5.04	116.46	111.07
1	t	569	GLN	N-CA-C	5.04	117.42	111.33
1	v	187	GLU	O-C-N	-5.04	115.68	122.43
1	x	280	HIS	CG-CD2-NE2	5.04	112.24	107.20
1	y	343	THR	N-CA-C	5.04	116.46	111.07
1	E	376	THR	N-CA-CB	5.04	117.31	110.01
1	H	100	CYS	CA-C-O	5.04	126.07	120.63
1	H	344	LYS	CG-CD-CE	5.04	122.88	111.30
1	H	469	THR	CA-C-N	5.04	127.44	120.29
1	H	469	THR	C-N-CA	5.04	127.44	120.29
1	H	592	VAL	CA-C-N	-5.04	113.14	120.29
1	H	592	VAL	C-N-CA	-5.04	113.14	120.29
1	I	186	VAL	N-CA-C	5.04	115.25	110.42
1	K	470	GLN	N-CA-C	5.04	119.42	113.28
1	K	701	GLN	CA-C-N	5.04	127.29	120.44
1	K	701	GLN	C-N-CA	5.04	127.29	120.44
1	L	170	ARG	CB-CG-CD	5.04	122.88	111.30
1	L	371	ALA	CA-C-O	5.04	125.76	120.42
1	M	546	ASN	CA-C-O	5.04	125.89	120.55
1	P	128	SER	O-C-N	-5.04	116.07	122.26
1	R	350	PHE	CA-CB-CG	-5.04	108.76	113.80
1	Y	457	ASP	N-CA-C	5.04	116.85	111.36
1	Z	93	TYR	CA-C-N	5.04	127.03	120.28
1	Z	93	TYR	C-N-CA	5.04	127.03	120.28
1	3	506	HIS	CA-C-O	5.03	126.29	120.90
1	4	155	LEU	CA-C-N	5.03	129.53	122.93
1	4	155	LEU	C-N-CA	5.03	129.53	122.93
1	4	430	ASN	N-CA-C	5.03	116.46	111.07
1	7	174	ARG	CA-C-O	5.03	125.52	119.43
1	8	131	LYS	N-CA-C	5.03	121.52	110.80
1	a	505	VAL	N-CA-CB	5.03	117.39	110.54
1	a	675	TYR	CB-CG-CD2	-5.03	113.25	120.80
1	j	199	GLY	O-C-N	5.03	128.22	122.33
1	o	466	ALA	CA-C-N	5.03	126.98	120.44
1	o	466	ALA	C-N-CA	5.03	126.98	120.44
1	s	283	ASP	O-C-N	-5.03	115.53	121.32
1	s	477	HIS	CB-CG-CD2	-5.03	124.66	131.20
1	t	293	LEU	N-CA-C	5.03	117.51	109.96
1	u	288	ARG	NH1-CZ-NH2	-5.03	112.76	119.30
1	u	421	PHE	N-CA-C	5.03	116.77	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	w	231	ARG	CB-CA-C	5.03	119.07	110.01
1	w	381	HIS	CA-CB-CG	-5.03	108.77	113.80
1	z	278	MET	CG-SD-CE	-5.03	89.83	100.90
1	B	215	SER	N-CA-CB	-5.03	106.54	111.27
1	E	470	GLN	CA-C-O	5.03	125.76	120.42
1	I	679	LEU	N-CA-C	5.03	118.31	112.97
1	J	107	LEU	CA-C-N	5.03	127.44	120.29
1	J	107	LEU	C-N-CA	5.03	127.44	120.29
1	J	248	LEU	N-CA-C	5.03	116.77	111.28
1	K	458	PHE	CA-C-N	5.03	126.98	120.44
1	K	458	PHE	C-N-CA	5.03	126.98	120.44
1	N	655	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	O	540	GLY	N-CA-C	5.03	119.97	113.27
1	O	690	ARG	CB-CG-CD	5.03	122.88	111.30
1	R	448	THR	CA-CB-CG2	5.03	119.06	110.50
1	R	654	LEU	CA-C-N	5.03	127.29	120.44
1	R	654	LEU	C-N-CA	5.03	127.29	120.44
1	V	398	GLN	CB-CG-CD	5.03	121.16	112.60
1	8	192	LYS	CA-CB-CG	5.03	124.16	114.10
1	8	267	ASN	CA-CB-CG	5.03	117.63	112.60
1	8	336	ARG	CB-CA-C	5.03	118.60	111.86
1	9	204	ILE	N-CA-C	5.03	117.73	109.78
1	a	385	SER	CA-C-O	5.03	125.53	119.59
1	b	566	ASN	O-C-N	-5.03	116.41	122.15
1	b	691	ILE	CA-C-O	-5.03	115.46	121.05
1	h	463	GLY	CA-C-O	-5.03	115.57	121.00
1	m	259	ILE	CA-C-O	-5.03	115.11	120.59
1	m	398	GLN	CA-C-O	5.03	126.28	120.90
1	m	438	GLU	CB-CG-CD	5.03	121.15	112.60
1	o	444	ARG	NE-CZ-NH2	-5.03	114.67	119.20
1	s	308	MET	N-CA-C	5.03	116.77	111.28
1	t	534	VAL	CA-C-O	5.03	126.50	121.17
1	v	103	LEU	CA-C-O	5.03	126.10	120.82
1	z	292	ILE	CA-C-O	5.03	126.89	120.75
1	A	264	VAL	CA-C-N	5.03	125.03	119.90
1	A	264	VAL	C-N-CA	5.03	125.03	119.90
1	R	582	ASP	CA-C-N	5.03	126.98	120.44
1	R	582	ASP	C-N-CA	5.03	126.98	120.44
1	V	634	PHE	N-CA-C	5.03	116.84	111.36
1	Z	542	PHE	CA-CB-CG	-5.03	108.77	113.80
1	1	494	GLY	O-C-N	-5.03	116.16	122.70
1	2	637	THR	CA-C-N	5.03	127.27	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	637	THR	C-N-CA	5.03	127.27	120.38
1	3	159	LEU	CD1-CG-CD2	-5.03	99.73	110.80
1	4	387	PRO	N-CA-C	-5.03	106.98	113.57
1	7	516	ALA	O-C-N	-5.03	116.89	122.07
1	8	488	ARG	CG-CD-NE	-5.03	100.93	112.00
1	b	193	ALA	O-C-N	-5.03	116.79	122.12
1	c	349	PHE	CA-CB-CG	5.03	118.83	113.80
1	e	671	GLU	O-C-N	-5.03	117.35	123.13
1	f	494	GLY	O-C-N	-5.03	116.16	122.70
1	g	167	TRP	CB-CG-CD2	5.03	133.84	126.80
1	k	285	GLU	CB-CG-CD	5.03	121.15	112.60
1	p	338	SER	CA-C-O	5.03	125.85	120.32
1	p	679	LEU	CA-C-O	5.03	125.77	119.78
1	r	576	GLN	CB-CA-C	-5.03	102.30	110.85
1	s	413	SER	N-CA-C	5.03	116.84	111.36
1	t	588	VAL	CB-CA-C	5.03	118.32	111.88
1	u	380	MET	O-C-N	-5.03	116.79	122.12
1	y	393	ILE	O-C-N	-5.03	116.91	121.94
1	y	670	GLN	CA-C-N	5.03	130.09	123.05
1	y	670	GLN	C-N-CA	5.03	130.09	123.05
1	D	536	LYS	N-CA-C	5.03	116.76	111.28
1	E	671	GLU	CA-C-N	5.03	127.02	120.28
1	E	671	GLU	C-N-CA	5.03	127.02	120.28
1	F	461	TRP	CA-C-N	5.03	127.35	120.46
1	F	461	TRP	C-N-CA	5.03	127.35	120.46
1	F	536	LYS	N-CA-C	5.03	117.15	111.11
1	H	687	THR	N-CA-C	-5.03	106.31	112.90
1	J	346	GLU	O-C-N	-5.03	116.89	122.07
1	L	467	THR	CA-C-N	5.03	127.02	120.28
1	L	467	THR	C-N-CA	5.03	127.02	120.28
1	M	266	CYS	N-CA-CB	-5.03	102.73	110.12
1	O	149	ILE	O-C-N	-5.03	117.54	122.67
1	O	173	TYR	CA-C-O	5.03	125.24	119.35
1	S	281	GLU	N-CA-C	5.03	117.15	111.11
1	U	590	LYS	CA-C-N	5.03	127.78	120.79
1	U	590	LYS	C-N-CA	5.03	127.78	120.79
1	V	574	MET	N-CA-C	5.03	117.50	111.71
1	X	415	GLU	CA-C-N	5.03	128.01	120.87
1	X	415	GLU	C-N-CA	5.03	128.01	120.87
1	Z	526	ILE	CB-CA-C	-5.03	105.53	111.97
1	2	305	LYS	CA-C-N	5.03	127.43	120.29
1	2	305	LYS	C-N-CA	5.03	127.43	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	465	LEU	CB-CA-C	-5.03	102.98	110.88
1	4	538	HIS	CB-CG-CD2	-5.03	124.66	131.20
1	6	526	ILE	O-C-N	-5.03	116.65	121.83
1	a	352	THR	N-CA-CB	5.03	117.93	110.49
1	a	709	PHE	N-CA-C	5.03	116.76	111.28
1	d	528	GLN	O-C-N	-5.03	116.89	122.07
1	g	368	PRO	N-CA-C	5.03	122.83	112.47
1	h	157	LEU	CA-C-N	5.03	129.66	122.72
1	h	157	LEU	C-N-CA	5.03	129.66	122.72
1	i	114	GLN	OE1-CD-NE2	-5.03	117.57	122.60
1	o	443	VAL	N-CA-CB	5.03	118.35	111.41
1	F	241	ILE	CA-C-N	5.03	125.52	119.94
1	F	241	ILE	C-N-CA	5.03	125.52	119.94
1	G	198	ALA	CA-C-N	5.03	131.27	121.41
1	G	198	ALA	C-N-CA	5.03	131.27	121.41
1	R	571	GLN	N-CA-C	5.03	118.68	112.54
1	U	668	ILE	CA-C-N	5.03	129.12	120.72
1	U	668	ILE	C-N-CA	5.03	129.12	120.72
1	W	247	ALA	O-C-N	-5.03	116.79	122.12
1	X	546	ASN	CB-CA-C	5.03	119.40	110.85
1	3	226	LEU	CA-C-O	-5.03	116.08	120.60
1	6	583	GLN	N-CA-C	-5.03	107.19	113.38
1	c	357	ARG	NH1-CZ-NH2	-5.03	112.77	119.30
1	c	640	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	d	661	LEU	N-CA-C	5.03	117.41	111.33
1	e	172	SER	CB-CA-C	5.03	118.11	109.51
1	e	572	PHE	CB-CG-CD2	5.03	129.25	120.70
1	g	544	ASN	O-C-N	5.03	127.88	122.15
1	i	115	ASP	CA-C-N	5.03	128.83	120.94
1	i	115	ASP	C-N-CA	5.03	128.83	120.94
1	l	562	ALA	O-C-N	-5.03	116.42	122.15
1	m	323	MET	O-C-N	-5.03	116.62	122.96
1	u	403	GLU	CA-C-O	5.03	125.88	120.55
1	w	134	VAL	CA-C-N	5.03	127.02	120.28
1	w	134	VAL	C-N-CA	5.03	127.02	120.28
1	w	568	ILE	N-CA-C	5.03	115.75	110.62
1	C	140	GLY	CA-C-N	5.03	129.94	123.10
1	C	140	GLY	C-N-CA	5.03	129.94	123.10
1	C	536	LYS	CG-CD-CE	5.03	122.86	111.30
1	G	107	LEU	CA-C-N	5.03	127.02	120.28
1	G	107	LEU	C-N-CA	5.03	127.02	120.28
1	I	218	VAL	CA-C-N	5.03	126.12	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	218	VAL	C-N-CA	5.03	126.12	119.84
1	J	154	PRO	N-CA-C	5.03	122.83	112.47
1	J	657	ASN	CA-C-N	5.03	125.66	120.03
1	J	657	ASN	C-N-CA	5.03	125.66	120.03
1	M	343	THR	O-C-N	-5.03	116.12	122.20
1	O	355	TYR	CA-C-N	5.03	127.02	120.28
1	O	355	TYR	C-N-CA	5.03	127.02	120.28
1	O	424	GLU	CA-C-O	-5.03	115.54	120.82
1	O	433	ILE	CA-C-N	5.03	126.97	120.44
1	O	433	ILE	C-N-CA	5.03	126.97	120.44
1	P	145	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	Q	194	GLN	CB-CA-C	-5.03	102.45	110.79
1	S	207	GLU	O-C-N	-5.03	116.69	122.87
1	S	413	SER	CA-C-O	5.03	127.70	120.51
1	T	570	LEU	CA-C-N	5.03	127.02	120.28
1	T	570	LEU	C-N-CA	5.03	127.02	120.28
1	U	127	GLN	CG-CD-OE1	-5.03	110.75	120.80
1	U	231	ARG	NE-CZ-NH1	-5.03	116.47	121.50
1	V	568	ILE	CB-CA-C	-5.03	105.53	111.97
1	V	668	ILE	O-C-N	5.03	126.75	121.87
1	W	118	LEU	CA-C-O	-5.03	115.02	119.75
1	X	597	PHE	N-CA-CB	-5.03	102.73	110.12
1	Y	134	VAL	N-CA-C	5.03	115.25	110.42
1	8	455	ARG	CA-C-O	5.03	125.75	120.42
1	9	203	GLY	O-C-N	-5.03	116.17	122.70
1	a	126	ASP	CA-CB-CG	5.03	117.62	112.60
1	f	467	THR	CA-C-O	-5.03	115.22	120.55
1	g	418	LYS	N-CA-C	5.03	116.45	110.97
1	h	510	GLN	CA-C-O	-5.03	115.22	120.55
1	k	367	VAL	N-CA-C	-5.03	97.27	107.92
1	o	161	LYS	O-C-N	-5.03	117.31	123.19
1	v	119	PRO	N-CD-CG	5.03	110.74	103.20
1	x	397	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
1	x	536	LYS	O-C-N	-5.03	116.79	122.12
1	A	487	TYR	N-CA-C	5.03	117.49	111.71
1	D	206	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
1	E	209	ILE	CA-C-O	-5.03	115.15	120.53
1	F	312	ARG	CD-NE-CZ	5.03	131.44	124.40
1	F	373	ARG	N-CA-C	5.03	116.45	111.07
1	H	247	ALA	CA-C-N	5.03	126.97	120.44
1	H	247	ALA	C-N-CA	5.03	126.97	120.44
1	I	391	GLY	CA-C-N	5.03	126.97	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	391	GLY	C-N-CA	5.03	126.97	120.44
1	I	397	HIS	CA-C-O	5.03	126.10	120.82
1	J	288	ARG	NH1-CZ-NH2	-5.03	112.77	119.30
1	K	206	HIS	ND1-CE1-NE2	5.03	113.42	108.40
1	K	445	GLU	CA-C-N	5.03	129.69	122.40
1	K	445	GLU	C-N-CA	5.03	129.69	122.40
1	P	427	LYS	CA-C-N	5.03	127.43	120.29
1	P	427	LYS	C-N-CA	5.03	127.43	120.29
1	P	596	ILE	CA-C-N	5.03	127.28	120.65
1	P	596	ILE	C-N-CA	5.03	127.28	120.65
1	Q	484	GLU	CA-C-O	5.03	126.10	120.82
1	V	675	TYR	CB-CG-CD2	5.03	128.34	120.80
1	Y	145	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	Y	623	PHE	CA-C-O	5.03	126.06	120.63
1	1	357	ARG	NE-CZ-NH2	-5.02	114.68	119.20
1	2	333	ILE	N-CA-CB	-5.02	105.78	112.26
1	4	110	LEU	CA-C-N	5.02	128.85	121.67
1	4	110	LEU	C-N-CA	5.02	128.85	121.67
1	8	350	PHE	CA-CB-CG	5.02	118.82	113.80
1	e	338	SER	N-CA-C	5.02	121.50	110.80
1	e	470	GLN	O-C-N	-5.02	115.60	122.33
1	m	213	ILE	CA-CB-CG1	5.02	118.94	110.40
1	p	166	ALA	N-CA-CB	5.02	117.34	109.85
1	s	508	TYR	CB-CG-CD2	5.02	128.34	120.80
1	H	212	GLU	CA-C-N	5.02	129.42	123.19
1	H	212	GLU	C-N-CA	5.02	129.42	123.19
1	I	187	GLU	CA-C-N	5.02	126.97	120.44
1	I	187	GLU	C-N-CA	5.02	126.97	120.44
1	I	229	ILE	CB-CG1-CD1	5.02	124.35	113.80
1	K	578	VAL	N-CA-C	5.02	119.79	109.34
1	K	636	GLU	N-CA-CB	-5.02	102.72	110.16
1	P	700	THR	O-C-N	-5.02	116.89	122.07
1	Q	312	ARG	NE-CZ-NH1	5.02	126.52	121.50
1	S	672	LYS	O-C-N	-5.02	116.79	122.12
1	1	695	ARG	NH1-CZ-NH2	-5.02	112.77	119.30
1	4	331	GLN	CA-C-N	5.02	126.97	120.44
1	4	331	GLN	C-N-CA	5.02	126.97	120.44
1	5	344	LYS	O-C-N	5.02	127.25	122.03
1	6	461	TRP	N-CA-CB	-5.02	102.74	110.12
1	9	692	LEU	CA-C-O	5.02	125.74	120.42
1	a	550	GLN	N-CA-C	5.02	116.83	111.36
1	c	578	VAL	O-C-N	-5.02	116.29	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	d	334	THR	CA-C-N	5.02	127.84	120.71
1	d	334	THR	C-N-CA	5.02	127.84	120.71
1	f	128	SER	CA-C-N	5.02	127.94	120.31
1	f	128	SER	C-N-CA	5.02	127.94	120.31
1	i	127	GLN	O-C-N	-5.02	116.80	122.12
1	k	118	LEU	O-C-N	5.02	127.09	121.32
1	s	331	GLN	CA-C-N	5.02	127.01	120.28
1	s	331	GLN	C-N-CA	5.02	127.01	120.28
1	s	511	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	u	113	GLU	O-C-N	-5.02	116.34	122.22
1	u	563	LYS	O-C-N	-5.02	116.90	122.07
1	x	626	ILE	CA-C-N	5.02	125.53	120.00
1	x	626	ILE	C-N-CA	5.02	125.53	120.00
1	y	464	ILE	N-CA-C	5.02	115.63	110.36
1	z	559	LYS	CA-C-O	5.02	125.88	120.55
1	L	130	GLY	N-CA-C	-5.02	108.15	115.63
1	O	381	HIS	CB-CG-ND1	5.02	130.23	122.70
1	Q	645	ILE	CB-CA-C	5.02	119.67	114.35
1	W	442	VAL	N-CA-C	5.02	115.58	109.30
1	W	545	LEU	N-CA-CB	-5.02	102.73	110.16
1	X	498	TYR	CA-C-N	5.02	126.97	120.44
1	X	498	TYR	C-N-CA	5.02	126.97	120.44
1	Z	103	LEU	CA-C-N	5.02	127.55	120.42
1	Z	103	LEU	C-N-CA	5.02	127.55	120.42
1	Z	152	ARG	CA-CB-CG	5.02	124.14	114.10
1	Z	684	GLU	N-CA-C	5.02	117.14	111.11
1	1	120	ALA	N-CA-CB	5.02	117.95	109.92
1	6	660	SER	N-CA-C	5.02	116.83	111.36
1	8	510	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	9	367	VAL	CA-CB-CG2	-5.02	101.86	110.40
1	a	549	VAL	CA-C-O	-5.02	115.85	121.17
1	b	179	GLU	O-C-N	-5.02	117.50	123.22
1	g	324	ILE	CA-C-N	-5.02	116.13	123.06
1	g	324	ILE	C-N-CA	-5.02	116.13	123.06
1	j	129	SER	CA-C-N	5.02	131.25	121.41
1	j	129	SER	C-N-CA	5.02	131.25	121.41
1	o	273	THR	O-C-N	-5.02	116.94	122.86
1	x	483	TYR	O-C-N	5.02	127.51	122.09
1	H	395	GLU	N-CA-C	5.02	116.75	111.28
1	L	564	ALA	O-C-N	5.02	127.24	122.07
1	P	479	GLU	CA-C-N	5.02	127.34	120.46
1	P	479	GLU	C-N-CA	5.02	127.34	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2	558	VAL	CA-C-N	5.02	126.97	120.44
1	2	558	VAL	C-N-CA	5.02	126.97	120.44
1	5	386	LEU	CA-C-N	5.02	124.32	118.85
1	5	386	LEU	C-N-CA	5.02	124.32	118.85
1	5	525	GLU	N-CA-C	5.02	116.75	111.28
1	c	588	VAL	CA-CB-CG2	-5.02	101.87	110.40
1	d	266	CYS	O-C-N	-5.02	116.43	122.15
1	d	312	ARG	CB-CA-C	5.02	120.31	110.67
1	e	705	ALA	N-CA-CB	-5.02	102.53	110.06
1	h	547	GLN	CA-C-N	5.02	127.01	120.28
1	h	547	GLN	C-N-CA	5.02	127.01	120.28
1	h	571	GLN	CB-CA-C	-5.02	102.46	110.79
1	m	436	LEU	O-C-N	-5.02	116.80	122.12
1	n	373	ARG	N-CA-CB	5.02	117.50	110.12
1	t	394	ARG	CB-CA-C	5.02	118.76	110.88
1	u	153	CYS	O-C-N	-5.02	115.47	121.39
1	v	455	ARG	NH1-CZ-NH2	-5.02	112.78	119.30
1	y	151	THR	O-C-N	-5.02	116.70	122.87
1	C	313	ASN	CA-C-N	5.02	131.13	121.54
1	C	313	ASN	C-N-CA	5.02	131.13	121.54
1	C	696	ILE	N-CA-C	5.02	115.24	110.42
1	D	256	GLN	CG-CD-NE2	-5.02	108.87	116.40
1	E	369	ARG	CA-C-N	5.02	127.26	120.38
1	E	369	ARG	C-N-CA	5.02	127.26	120.38
1	F	230	THR	N-CA-C	5.02	116.75	111.28
1	H	527	ILE	N-CA-C	5.02	115.74	110.62
1	J	151	THR	N-CA-C	5.02	117.62	110.24
1	N	193	ALA	N-CA-C	5.02	116.75	111.28
1	P	294	THR	CA-C-O	5.02	127.13	121.51
1	Q	197	MET	CG-SD-CE	-5.02	89.86	100.90
1	R	698	ARG	CD-NE-CZ	5.02	131.43	124.40
1	W	357	ARG	N-CA-CB	5.02	117.42	109.94
1	X	518	SER	CA-C-N	5.02	127.01	120.28
1	X	518	SER	C-N-CA	5.02	127.01	120.28
1	Y	116	LEU	CA-C-N	5.02	130.30	122.17
1	Y	116	LEU	C-N-CA	5.02	130.30	122.17
1	1	240	ASP	CA-C-N	5.02	127.33	120.46
1	1	240	ASP	C-N-CA	5.02	127.33	120.46
1	1	451	TYR	CB-CA-C	5.02	119.12	110.79
1	2	506	HIS	CA-C-N	5.02	127.50	120.28
1	2	506	HIS	C-N-CA	5.02	127.50	120.28
1	2	711	SER	N-CA-CB	5.02	119.03	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	7	225	ASP	CA-C-O	5.02	125.76	120.54
1	9	506	HIS	N-CA-C	5.02	116.75	111.28
1	c	487	TYR	N-CA-C	5.02	117.48	111.71
1	l	623	PHE	O-C-N	-5.02	116.80	122.12
1	l	635	LEU	O-C-N	-5.02	116.67	122.09
1	n	304	GLU	CA-C-N	5.02	127.00	120.28
1	n	304	GLU	C-N-CA	5.02	127.00	120.28
1	n	579	PHE	CB-CG-CD1	-5.02	112.17	120.70
1	q	351	GLN	CA-C-N	5.02	127.42	120.29
1	q	351	GLN	C-N-CA	5.02	127.42	120.29
1	q	544	ASN	CA-CB-CG	-5.02	107.58	112.60
1	q	636	GLU	CB-CG-CD	-5.02	104.07	112.60
1	x	203	GLY	CA-C-N	5.02	129.32	122.90
1	x	203	GLY	C-N-CA	5.02	129.32	122.90
1	z	246	LYS	N-CA-C	5.02	116.83	111.36
1	A	310	VAL	CA-C-O	5.02	126.08	120.71
1	D	111	GLY	O-C-N	-5.02	116.18	122.70
1	F	624	THR	CA-C-N	5.02	127.00	120.28
1	F	624	THR	C-N-CA	5.02	127.00	120.28
1	I	414	GLN	CG-CD-OE1	5.02	130.84	120.80
1	N	560	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
1	Q	289	THR	CA-C-N	5.02	129.57	123.10
1	Q	289	THR	C-N-CA	5.02	129.57	123.10
1	Q	528	GLN	CB-CG-CD	5.02	121.13	112.60
1	R	381	HIS	CB-CG-CD2	5.02	137.72	131.20
1	S	301	ARG	NE-CZ-NH2	-5.02	114.68	119.20
1	U	313	ASN	CA-CB-CG	-5.02	107.58	112.60
1	U	588	VAL	O-C-N	-5.02	116.66	121.83
1	U	670	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	0	227	PRO	N-CA-C	5.02	122.80	112.47
1	1	442	VAL	N-CA-C	5.02	117.71	109.78
1	5	241	ILE	N-CA-C	5.02	115.74	110.62
1	g	381	HIS	CA-CB-CG	-5.02	108.78	113.80
1	k	438	GLU	N-CA-C	5.02	119.25	113.18
1	m	213	ILE	O-C-N	5.02	128.40	123.18
1	n	560	HIS	CA-CB-CG	-5.02	108.78	113.80
1	r	413	SER	CA-C-O	5.02	125.40	119.48
1	r	701	GLN	CG-CD-OE1	5.02	130.83	120.80
1	u	194	GLN	N-CA-C	5.02	116.44	111.07
1	u	206	HIS	CA-CB-CG	-5.02	108.78	113.80
1	u	528	GLN	CB-CG-CD	5.02	121.13	112.60
1	y	510	GLN	N-CA-CB	5.02	117.49	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	161	LYS	N-CA-C	5.02	117.70	110.28
1	A	271	ALA	N-CA-C	5.02	116.44	111.07
1	D	288	ARG	NE-CZ-NH2	5.02	123.71	119.20
1	H	295	LYS	CA-C-N	5.02	126.11	119.84
1	H	295	LYS	C-N-CA	5.02	126.11	119.84
1	S	541	GLU	N-CA-C	-5.02	106.67	112.89
1	T	475	ILE	N-CA-CB	5.02	117.36	110.54
1	T	660	SER	CB-CA-C	-5.02	101.04	110.67
1	U	406	ARG	N-CA-C	5.02	116.75	111.28
1	W	136	GLU	O-C-N	-5.02	116.43	122.15
1	3	571	GLN	N-CA-CB	-5.01	102.75	110.12
1	7	593	ARG	CD-NE-CZ	-5.01	117.38	124.40
1	d	297	ASP	CB-CA-C	-5.01	102.47	110.79
1	g	357	ARG	N-CA-C	5.01	116.83	111.36
1	g	592	VAL	O-C-N	-5.01	117.01	121.87
1	h	324	ILE	CA-CB-CG1	5.01	118.92	110.40
1	h	585	TYR	CA-C-O	5.01	126.05	120.63
1	m	221	LEU	CA-C-O	-5.01	116.06	121.38
1	t	671	GLU	O-C-N	-5.01	116.81	123.13
1	w	256	GLN	N-CA-C	5.01	116.83	111.36
1	B	247	ALA	N-CA-C	5.01	116.83	111.36
1	E	232	VAL	CA-C-N	5.01	130.39	123.07
1	E	232	VAL	C-N-CA	5.01	130.39	123.07
1	G	662	GLN	CA-C-O	-5.01	115.23	120.55
1	H	248	LEU	N-CA-CB	5.01	117.28	110.01
1	H	328	ARG	NE-CZ-NH2	-5.01	114.69	119.20
1	N	644	GLN	CA-C-N	5.01	124.34	120.33
1	N	644	GLN	C-N-CA	5.01	124.34	120.33
1	O	454	ILE	O-C-N	-5.01	115.48	122.05
1	V	93	TYR	CA-C-N	5.01	126.96	120.44
1	V	93	TYR	C-N-CA	5.01	126.96	120.44
1	W	683	SER	N-CA-C	5.01	116.44	111.07
1	0	689	ARG	CA-C-N	5.01	126.96	120.44
1	0	689	ARG	C-N-CA	5.01	126.96	120.44
1	k	306	SER	CA-C-N	5.01	126.88	120.56
1	k	306	SER	C-N-CA	5.01	126.88	120.56
1	n	269	ASP	N-CA-CB	-5.01	103.27	110.44
1	n	656	GLU	CA-C-N	5.01	126.96	120.44
1	n	656	GLU	C-N-CA	5.01	126.96	120.44
1	o	192	LYS	N-CA-C	5.01	116.43	111.07
1	p	573	ARG	CA-C-O	5.01	126.26	120.90
1	q	224	ILE	N-CA-C	5.01	115.90	108.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	r	476	ILE	O-C-N	-5.01	116.30	122.57
1	w	674	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	z	595	GLU	O-C-N	-5.01	116.56	122.32
1	A	524	MET	CB-CA-C	-5.01	103.01	110.88
1	C	300	ASP	CA-C-O	5.01	127.68	120.51
1	E	198	ALA	N-CA-C	5.01	119.09	112.92
1	G	676	SER	CA-C-N	5.01	127.00	120.28
1	G	676	SER	C-N-CA	5.01	127.00	120.28
1	I	683	SER	N-CA-CB	5.01	117.94	110.22
1	Q	272	THR	CA-C-N	5.01	129.07	122.30
1	Q	272	THR	C-N-CA	5.01	129.07	122.30
1	Q	597	PHE	O-C-N	-5.01	116.88	122.09
1	U	392	GLN	N-CA-C	5.01	116.74	111.28
1	Y	182	ASP	CA-CB-CG	5.01	117.61	112.60
1	4	582	ASP	N-CA-C	5.01	118.49	112.38
1	8	588	VAL	CB-CA-C	5.01	119.93	112.16
1	9	301	ARG	O-C-N	-5.01	117.34	123.10
1	b	400	ALA	N-CA-C	5.01	116.43	110.97
1	b	596	ILE	O-C-N	-5.01	116.31	122.57
1	c	664	ALA	N-CA-C	5.01	116.74	111.28
1	e	657	ASN	CA-C-O	5.01	126.08	120.82
1	i	251	LYS	CA-C-N	5.01	127.41	120.29
1	i	251	LYS	C-N-CA	5.01	127.41	120.29
1	j	266	CYS	N-CA-CB	5.01	117.94	110.22
1	l	187	GLU	CA-C-O	5.01	125.73	119.97
1	l	299	MET	N-CA-C	5.01	116.99	110.43
1	m	467	THR	CA-C-N	5.01	127.93	120.31
1	m	467	THR	C-N-CA	5.01	127.93	120.31
1	m	693	LYS	CA-C-N	5.01	126.95	120.44
1	m	693	LYS	C-N-CA	5.01	126.95	120.44
1	p	506	HIS	CA-CB-CG	5.01	118.81	113.80
1	u	101	ILE	O-C-N	-5.01	117.01	121.87
1	y	203	GLY	N-CA-C	5.01	120.15	111.98
1	y	335	ASN	CA-C-N	5.01	131.11	121.54
1	y	335	ASN	C-N-CA	5.01	131.11	121.54
1	y	391	GLY	N-CA-C	5.01	118.31	112.50
1	z	395	GLU	N-CA-CB	5.01	117.28	110.01
1	A	394	ARG	NH1-CZ-NH2	-5.01	112.78	119.30
1	G	704	HIS	CB-CG-ND1	5.01	130.22	122.70
1	I	206	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
1	I	595	GLU	O-C-N	-5.01	116.91	122.07
1	M	484	GLU	O-C-N	-5.01	116.36	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	W	456	GLU	N-CA-CB	5.01	117.34	110.07
1	2	462	VAL	CA-C-N	5.01	125.65	119.99
1	2	462	VAL	C-N-CA	5.01	125.65	119.99
1	7	244	GLN	CA-C-N	5.01	127.32	120.46
1	7	244	GLN	C-N-CA	5.01	127.32	120.46
1	9	399	LYS	N-CA-C	5.01	117.12	111.11
1	b	230	THR	CA-C-O	5.01	125.52	119.31
1	j	308	MET	N-CA-C	5.01	116.74	111.28
1	m	220	ASP	N-CA-C	5.01	117.24	108.52
1	o	362	GLU	CA-CB-CG	-5.01	104.08	114.10
1	q	185	GLN	N-CA-C	5.01	119.24	113.18
1	C	548	THR	CB-CA-C	-5.01	102.99	110.90
1	H	350	PHE	N-CA-C	5.01	116.74	111.28
1	H	384	LYS	N-CA-C	5.01	117.39	111.33
1	J	180	LEU	CD1-CG-CD2	-5.01	99.78	110.80
1	K	234	VAL	N-CA-C	5.01	116.84	109.63
1	K	273	THR	N-CA-C	5.01	117.16	110.35
1	L	327	CYS	O-C-N	-5.01	117.33	122.94
1	N	539	PHE	CA-CB-CG	5.01	118.81	113.80
1	P	165	GLU	O-C-N	5.01	128.97	122.81
1	P	525	GLU	CA-C-O	5.01	126.08	120.82
1	R	153	CYS	CA-C-N	5.01	124.92	119.76
1	R	153	CYS	C-N-CA	5.01	124.92	119.76
1	V	422	LEU	CA-C-O	5.01	126.08	120.82
1	V	552	THR	CA-C-N	5.01	126.87	120.56
1	V	552	THR	C-N-CA	5.01	126.87	120.56
1	Y	342	ALA	O-C-N	-5.01	116.36	122.22
1	Z	668	ILE	CA-C-N	5.01	131.35	121.58
1	Z	668	ILE	C-N-CA	5.01	131.35	121.58
1	1	300	ASP	CA-CB-CG	5.01	117.61	112.60
1	2	215	SER	N-CA-C	-5.01	98.74	109.81
1	3	425	LYS	N-CA-C	5.01	116.74	111.28
1	6	528	GLN	CA-C-N	5.01	127.24	120.38
1	6	528	GLN	C-N-CA	5.01	127.24	120.38
1	7	440	GLU	CA-C-N	5.01	127.96	120.90
1	7	440	GLU	C-N-CA	5.01	127.96	120.90
1	7	499	LYS	CG-CD-CE	5.01	122.82	111.30
1	a	222	THR	CA-C-N	5.01	129.97	123.06
1	a	222	THR	C-N-CA	5.01	129.97	123.06
1	b	468	ASN	CA-C-O	5.01	125.86	120.55
1	e	135	LEU	CA-C-N	5.01	126.95	120.44
1	e	135	LEU	C-N-CA	5.01	126.95	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	118	LEU	N-CA-C	5.01	120.88	109.81
1	j	477	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
1	j	593	ARG	N-CA-CB	5.01	117.27	110.01
1	q	517	LEU	CA-C-N	5.01	127.24	120.38
1	q	517	LEU	C-N-CA	5.01	127.24	120.38
1	x	376	THR	N-CA-CB	5.01	117.27	110.01
1	z	662	GLN	OE1-CD-NE2	-5.01	117.59	122.60
1	A	470	GLN	OE1-CD-NE2	-5.01	117.59	122.60
1	R	313	ASN	O-C-N	-5.01	115.93	122.59
1	T	475	ILE	CA-C-O	-5.01	115.74	120.95
1	U	200	ASN	O-C-N	-5.01	115.93	122.59
1	1	661	LEU	O-C-N	-5.01	116.91	122.07
1	6	467	THR	O-C-N	-5.01	116.91	122.07
1	8	194	GLN	CG-CD-NE2	5.01	123.91	116.40
1	8	383	GLN	CG-CD-OE1	5.01	130.81	120.80
1	9	462	VAL	N-CA-CB	5.01	117.35	110.54
1	b	461	TRP	CD2-CE2-CZ2	-5.01	117.39	122.40
1	b	682	GLN	CA-C-O	-5.01	115.56	120.82
1	i	315	THR	N-CA-C	5.01	119.24	113.18
1	m	352	THR	CA-C-O	5.01	125.28	119.32
1	o	488	ARG	CA-C-N	5.01	125.54	119.98
1	o	488	ARG	C-N-CA	5.01	125.54	119.98
1	p	98	ARG	O-C-N	5.01	125.31	120.55
1	w	450	LEU	N-CA-CB	-5.01	102.75	110.16
1	x	150	VAL	N-CA-C	5.01	119.75	109.34
1	x	575	GLU	CA-C-N	5.01	131.10	121.54
1	x	575	GLU	C-N-CA	5.01	131.10	121.54
1	y	254	GLN	N-CA-C	5.01	119.02	113.01
1	D	228	GLY	CA-C-N	5.01	128.08	120.77
1	D	228	GLY	C-N-CA	5.01	128.08	120.77
1	K	591	LYS	N-CA-C	5.01	116.82	111.36
1	M	225	ASP	CB-CA-C	5.01	118.87	109.71
1	M	444	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	R	174	ARG	NE-CZ-NH2	5.01	123.71	119.20
1	V	640	ARG	CD-NE-CZ	5.01	131.41	124.40
1	Z	185	GLN	OE1-CD-NE2	-5.01	117.59	122.60
1	Z	260	ASN	O-C-N	-5.01	117.09	123.05
1	Z	363	GLY	CA-C-O	5.01	129.28	120.57
1	4	467	THR	N-CA-C	5.00	116.43	110.97
1	5	695	ARG	NE-CZ-NH1	5.00	126.50	121.50
1	c	392	GLN	CA-C-O	-5.00	115.56	120.82
1	g	696	ILE	CA-C-N	5.00	127.30	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	g	696	ILE	C-N-CA	5.00	127.30	120.54
1	h	397	HIS	CA-C-N	5.00	127.40	120.29
1	h	397	HIS	C-N-CA	5.00	127.40	120.29
1	k	543	PHE	CA-CB-CG	-5.00	108.80	113.80
1	A	352	THR	CA-C-N	5.00	129.27	122.56
1	A	352	THR	C-N-CA	5.00	129.27	122.56
1	D	133	SER	CB-CA-C	-5.00	102.48	110.79
1	D	420	PHE	CA-CB-CG	-5.00	108.80	113.80
1	F	170	ARG	CD-NE-CZ	-5.00	117.39	124.40
1	J	502	GLU	O-C-N	-5.00	116.92	122.07
1	R	637	THR	N-CA-CB	5.00	117.48	110.12
1	S	204	ILE	N-CA-C	5.00	115.86	110.21
1	Y	135	LEU	CA-C-N	5.00	126.99	120.28
1	Y	135	LEU	C-N-CA	5.00	126.99	120.28
1	Z	103	LEU	O-C-N	-5.00	116.92	122.07
1	2	108	ARG	NH1-CZ-NH2	-5.00	112.80	119.30
1	4	296	PRO	CB-CA-C	-5.00	103.88	111.44
1	5	320	LYS	N-CA-C	-5.00	107.02	112.72
1	6	207	GLU	O-C-N	-5.00	116.93	122.93
1	6	327	CYS	N-CA-C	-5.00	106.77	112.92
1	6	471	LYS	O-C-N	-5.00	115.31	122.41
1	8	140	GLY	CA-C-N	5.00	129.70	123.14
1	8	140	GLY	C-N-CA	5.00	129.70	123.14
1	8	182	ASP	N-CA-CB	5.00	117.42	110.11
1	a	538	HIS	ND1-CG-CD2	5.00	111.10	106.10
1	a	684	GLU	CA-C-O	-5.00	115.25	120.55
1	c	558	VAL	N-CA-C	5.00	115.22	110.42
1	f	344	LYS	CA-C-N	5.00	126.95	120.44
1	f	344	LYS	C-N-CA	5.00	126.95	120.44
1	f	688	LYS	O-C-N	-5.00	115.72	122.43
1	h	315	THR	O-C-N	5.00	127.22	122.07
1	i	405	ARG	N-CA-C	5.00	117.62	111.82
1	i	631	ASN	N-CA-C	-5.00	106.44	112.54
1	j	494	GLY	O-C-N	-5.00	117.44	122.59
1	k	205	SER	O-C-N	-5.00	117.34	123.30
1	m	118	LEU	CA-C-N	5.00	124.99	119.89
1	m	118	LEU	C-N-CA	5.00	124.99	119.89
1	n	644	GLN	CA-C-O	5.00	125.69	119.79
1	n	693	LYS	O-C-N	-5.00	116.92	122.07
1	p	297	ASP	CA-C-O	5.00	125.27	119.32
1	p	690	ARG	NE-CZ-NH1	5.00	126.50	121.50
1	p	703	ARG	NE-CZ-NH1	5.00	126.50	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	s	316	TYR	CA-C-O	5.00	125.10	120.60
1	x	261	LEU	CB-CA-C	5.00	118.78	110.78
1	y	153	CYS	O-C-N	-5.00	118.33	121.88
1	A	217	GLU	CA-C-N	5.00	129.44	120.59
1	A	217	GLU	C-N-CA	5.00	129.44	120.59
1	C	495	PHE	CB-CG-CD1	5.00	129.21	120.70
1	L	269	ASP	O-C-N	-5.00	117.52	123.22
1	M	582	ASP	O-C-N	-5.00	115.89	122.39
1	Q	491	GLU	N-CA-C	5.00	118.96	113.21
1	T	386	LEU	O-C-N	-5.00	116.01	120.71
1	V	286	GLY	CA-C-N	5.00	127.25	120.44
1	V	286	GLY	C-N-CA	5.00	127.25	120.44
1	V	289	THR	CA-CB-CG2	-5.00	101.99	110.50
1	V	300	ASP	CA-C-N	5.00	130.07	120.97
1	V	300	ASP	C-N-CA	5.00	130.07	120.97
1	3	514	GLU	CA-C-N	5.00	124.60	119.05
1	3	514	GLU	C-N-CA	5.00	124.60	119.05
1	5	689	ARG	N-CA-C	5.00	117.62	111.82
1	b	410	ASP	CA-C-N	5.00	130.70	121.70
1	b	410	ASP	C-N-CA	5.00	130.70	121.70
1	d	328	ARG	N-CA-C	5.00	117.62	111.82
1	e	655	ARG	N-CA-CB	5.00	117.42	109.82
1	e	700	THR	CA-CB-CG2	5.00	119.00	110.50
1	f	223	ILE	CA-CB-CG1	5.00	118.90	110.40
1	g	171	ILE	CA-C-O	5.00	125.59	120.39
1	h	315	THR	CA-CB-OG1	5.00	117.10	109.60
1	m	415	GLU	N-CA-CB	5.00	117.47	110.12
1	m	558	VAL	CG1-CB-CG2	-5.00	99.80	110.80
1	o	595	GLU	N-CA-C	-5.00	107.23	113.38
1	q	280	HIS	ND1-CE1-NE2	5.00	113.40	108.40
1	q	487	TYR	CB-CG-CD1	5.00	128.30	120.80
1	s	428	MET	CA-C-N	5.00	126.94	120.44
1	s	428	MET	C-N-CA	5.00	126.94	120.44
1	x	595	GLU	CA-C-O	5.00	125.85	120.70
1	y	688	LYS	N-CA-C	5.00	117.46	111.71
1	D	303	THR	CB-CA-C	-5.00	102.49	110.79
1	F	222	THR	CA-C-O	5.00	125.76	120.36
1	G	416	ALA	O-C-N	-5.00	116.45	122.15
1	H	371	ALA	N-CA-CB	-5.00	102.77	110.12
1	L	444	ARG	NE-CZ-NH1	5.00	126.50	121.50
1	O	552	THR	CA-CB-OG1	5.00	117.10	109.60
1	P	460	ASN	CA-C-N	5.00	127.48	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	460	ASN	C-N-CA	5.00	127.48	120.28
1	T	361	GLU	N-CA-CB	5.00	117.93	109.78
1	U	251	LYS	CA-C-O	-5.00	115.25	120.55
1	Z	478	GLU	CB-CA-C	-5.00	102.35	110.85

There are no chirality outliers.

All (1091) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0	170	ARG	Sidechain
1	0	239	ARG	Sidechain
1	0	255	ARG	Sidechain
1	0	369	ARG	Sidechain
1	0	373	ARG	Sidechain
1	0	488	ARG	Sidechain
1	0	508	TYR	Sidechain
1	0	690	ARG	Sidechain
1	0	98	ARG	Sidechain
1	1	191	HIS	Sidechain
1	1	255	ARG	Sidechain
1	1	301	ARG	Sidechain
1	1	312	ARG	Sidechain
1	1	322	TYR	Sidechain
1	1	373	ARG	Sidechain
1	1	483	TYR	Sidechain
1	1	697	TYR	Sidechain
1	1	703	ARG	Sidechain
1	1	98	ARG	Sidechain
1	2	152	ARG	Sidechain
1	2	202	ARG	Sidechain
1	2	252	TYR	Sidechain
1	2	301	ARG	Sidechain
1	2	316	TYR	Sidechain
1	2	321	GLY	Peptide
1	2	328	ARG	Sidechain
1	2	336	ARG	Sidechain
1	2	355	TYR	Sidechain
1	2	397	HIS	Sidechain
1	2	406	ARG	Sidechain
1	2	444	ARG	Sidechain
1	2	455	ARG	Sidechain
1	2	487	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	2	495	PHE	Sidechain
1	2	573	ARG	Sidechain
1	2	634	PHE	Sidechain
1	2	655	ARG	Sidechain
1	2	674	ARG	Sidechain
1	2	690	ARG	Sidechain
1	2	697	TYR	Sidechain
1	2	98	ARG	Sidechain
1	3	105	ASP	Mainchain
1	3	173	TYR	Sidechain
1	3	202	ARG	Sidechain
1	3	252	TYR	Sidechain
1	3	316	TYR	Peptide
1	3	328	ARG	Sidechain
1	3	336	ARG	Sidechain
1	3	349	PHE	Sidechain
1	3	357	ARG	Sidechain
1	3	394	ARG	Sidechain
1	3	417	ASP	Sidechain
1	3	449	ARG	Sidechain
1	3	498	TYR	Sidechain
1	3	572	PHE	Sidechain
1	3	630	LEU	Mainchain
1	3	651	TYR	Sidechain
1	3	674	ARG	Sidechain
1	3	675	TYR	Sidechain
1	3	689	ARG	Sidechain
1	3	695	ARG	Sidechain
1	3	93	TYR	Sidechain
1	3	98	ARG	Sidechain
1	4	108	ARG	Sidechain
1	4	170	ARG	Sidechain
1	4	312	ARG	Sidechain
1	4	336	ARG	Sidechain
1	4	373	ARG	Sidechain
1	4	405	ARG	Sidechain
1	4	455	ARG	Sidechain
1	4	477	HIS	Sidechain
1	4	483	TYR	Sidechain
1	4	487	TYR	Sidechain
1	4	498	TYR	Sidechain
1	4	593	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	4	640	ARG	Sidechain
1	4	93	TYR	Sidechain
1	5	170	ARG	Sidechain
1	5	206	HIS	Sidechain
1	5	231	ARG	Sidechain
1	5	237	GLN	Peptide
1	5	252	TYR	Sidechain
1	5	312	ARG	Sidechain
1	5	316	TYR	Peptide
1	5	357	ARG	Sidechain
1	5	369	ARG	Sidechain
1	5	394	ARG	Sidechain
1	5	487	TYR	Sidechain
1	5	498	TYR	Sidechain
1	5	508	TYR	Sidechain
1	5	539	PHE	Sidechain
1	5	695	ARG	Sidechain
1	5	698	ARG	Sidechain
1	5	98	ARG	Sidechain
1	6	316	TYR	Peptide
1	6	328	ARG	Sidechain
1	6	397	HIS	Sidechain
1	6	429	PHE	Sidechain
1	6	455	ARG	Sidechain
1	6	483	TYR	Sidechain
1	6	495	PHE	Sidechain
1	6	585	TYR	Sidechain
1	6	698	ARG	Sidechain
1	6	703	ARG	Sidechain
1	6	98	ARG	Sidechain
1	7	145	ARG	Sidechain
1	7	152	ARG	Sidechain
1	7	231	ARG	Sidechain
1	7	255	ARG	Sidechain
1	7	316	TYR	Sidechain
1	7	355	TYR	Sidechain
1	7	369	ARG	Sidechain
1	7	405	ARG	Sidechain
1	7	406	ARG	Sidechain
1	7	498	TYR	Sidechain
1	7	622	SER	Peptide
1	7	623	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	7	651	TYR	Sidechain
1	7	695	ARG	Sidechain
1	7	98	ARG	Sidechain
1	8	108	ARG	Sidechain
1	8	202	ARG	Sidechain
1	8	231	ARG	Sidechain
1	8	288	ARG	Sidechain
1	8	301	ARG	Sidechain
1	8	316	TYR	Sidechain
1	8	322	TYR	Sidechain
1	8	336	ARG	Sidechain
1	8	406	ARG	Sidechain
1	8	451	TYR	Sidechain
1	8	455	ARG	Sidechain
1	8	477	HIS	Sidechain
1	8	483	TYR	Sidechain
1	8	498	TYR	Sidechain
1	8	573	ARG	Sidechain
1	8	634	PHE	Sidechain
1	8	690	ARG	Sidechain
1	9	108	ARG	Sidechain
1	9	152	ARG	Sidechain
1	9	288	ARG	Sidechain
1	9	328	ARG	Sidechain
1	9	336	ARG	Sidechain
1	9	406	ARG	Sidechain
1	9	444	ARG	Sidechain
1	9	449	ARG	Sidechain
1	9	451	TYR	Sidechain
1	9	455	ARG	Sidechain
1	9	477	HIS	Sidechain
1	9	487	TYR	Sidechain
1	9	488	ARG	Sidechain
1	9	579	PHE	Sidechain
1	9	585	TYR	Sidechain
1	9	593	ARG	Sidechain
1	9	633	TYR	Sidechain
1	9	697	TYR	Sidechain
1	9	98	ARG	Sidechain
1	A	130	GLY	Peptide
1	A	170	ARG	Sidechain
1	A	173	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	A	218	VAL	Peptide
1	A	231	ARG	Sidechain
1	A	301	ARG	Sidechain
1	A	316	TYR	Sidechain
1	A	355	TYR	Sidechain
1	A	369	ARG	Sidechain
1	A	405	ARG	Sidechain
1	A	483	TYR	Sidechain
1	A	488	ARG	Sidechain
1	A	494	GLY	Peptide
1	A	498	TYR	Sidechain
1	A	501	PHE	Sidechain
1	A	506	HIS	Sidechain
1	A	629	HIS	Sidechain
1	A	633	TYR	Sidechain
1	A	640	ARG	Sidechain
1	A	651	TYR	Sidechain
1	A	675	TYR	Sidechain
1	A	690	ARG	Sidechain
1	A	98	ARG	Sidechain
1	B	152	ARG	Sidechain
1	B	153	CYS	Peptide
1	B	231	ARG	Sidechain
1	B	336	ARG	Sidechain
1	B	356	PHE	Sidechain
1	B	365	ALA	Mainchain
1	B	405	ARG	Sidechain
1	B	449	ARG	Sidechain
1	B	451	TYR	Sidechain
1	B	495	PHE	Sidechain
1	B	634	PHE	Sidechain
1	B	640	ARG	Sidechain
1	B	651	TYR	Sidechain
1	B	674	ARG	Sidechain
1	B	695	ARG	Sidechain
1	B	93	TYR	Sidechain
1	B	98	ARG	Sidechain
1	C	108	ARG	Sidechain
1	C	145	ARG	Sidechain
1	C	152	ARG	Sidechain
1	C	170	ARG	Sidechain
1	C	231	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	C	252	TYR	Sidechain
1	C	397	HIS	Sidechain
1	C	444	ARG	Peptide,Sidechain
1	C	483	TYR	Sidechain
1	C	488	ARG	Sidechain
1	C	508	TYR	Sidechain
1	C	572	PHE	Sidechain
1	C	573	ARG	Sidechain
1	C	640	ARG	Sidechain
1	C	697	TYR	Sidechain
1	C	98	ARG	Sidechain
1	D	108	ARG	Sidechain
1	D	190	ILE	Mainchain
1	D	231	ARG	Sidechain
1	D	288	ARG	Sidechain
1	D	336	ARG	Sidechain
1	D	355	TYR	Sidechain
1	D	394	ARG	Sidechain
1	D	405	ARG	Sidechain
1	D	444	ARG	Sidechain
1	D	449	ARG	Sidechain
1	D	487	TYR	Sidechain
1	D	495	PHE	Sidechain
1	D	597	PHE	Sidechain
1	D	629	HIS	Sidechain
1	D	651	TYR	Sidechain
1	D	697	TYR	Sidechain
1	D	98	ARG	Sidechain
1	E	145	ARG	Sidechain
1	E	170	ARG	Sidechain
1	E	202	ARG	Sidechain
1	E	206	HIS	Sidechain
1	E	328	ARG	Sidechain
1	E	336	ARG	Sidechain
1	E	356	PHE	Sidechain
1	E	373	ARG	Sidechain
1	E	483	TYR	Sidechain
1	E	494	GLY	Peptide
1	E	495	PHE	Sidechain
1	E	573	ARG	Sidechain
1	E	633	TYR	Sidechain
1	E	675	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	E	690	ARG	Sidechain
1	E	695	ARG	Sidechain
1	E	698	ARG	Sidechain
1	E	704	HIS	Sidechain
1	F	170	ARG	Sidechain
1	F	173	TYR	Sidechain
1	F	202	ARG	Sidechain
1	F	218	VAL	Peptide
1	F	231	ARG	Sidechain
1	F	252	TYR	Sidechain
1	F	337	LEU	Peptide
1	F	353	HIS	Sidechain
1	F	355	TYR	Sidechain
1	F	357	ARG	Sidechain
1	F	369	ARG	Sidechain
1	F	405	ARG	Sidechain
1	F	406	ARG	Sidechain
1	F	444	ARG	Sidechain
1	F	449	ARG	Sidechain
1	F	487	TYR	Sidechain
1	F	498	TYR	Sidechain
1	F	508	TYR	Sidechain
1	F	539	PHE	Sidechain
1	F	572	PHE	Sidechain
1	F	640	ARG	Sidechain
1	F	651	TYR	Sidechain
1	F	690	ARG	Sidechain
1	F	695	ARG	Sidechain
1	F	698	ARG	Sidechain
1	F	709	PHE	Sidechain
1	F	98	ARG	Sidechain
1	G	174	ARG	Sidechain
1	G	231	ARG	Sidechain
1	G	252	TYR	Sidechain
1	G	283	ASP	Peptide
1	G	288	ARG	Sidechain
1	G	301	ARG	Sidechain
1	G	312	ARG	Sidechain
1	G	322	TYR	Sidechain
1	G	336	ARG	Sidechain
1	G	355	TYR	Sidechain
1	G	373	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	G	406	ARG	Sidechain
1	G	483	TYR	Sidechain
1	G	487	TYR	Sidechain
1	G	488	ARG	Sidechain
1	G	498	TYR	Sidechain
1	G	690	ARG	Sidechain
1	G	697	TYR	Sidechain
1	G	703	ARG	Sidechain
1	H	152	ARG	Sidechain
1	H	153	CYS	Peptide
1	H	173	TYR	Sidechain
1	H	255	ARG	Sidechain
1	H	328	ARG	Sidechain
1	H	356	PHE	Sidechain
1	H	394	ARG	Sidechain
1	H	406	ARG	Sidechain
1	H	429	PHE	Sidechain
1	H	444	ARG	Sidechain
1	H	455	ARG	Sidechain
1	H	483	TYR	Sidechain
1	H	488	ARG	Sidechain
1	H	573	ARG	Sidechain
1	H	633	TYR	Sidechain
1	H	640	ARG	Sidechain
1	H	674	ARG	Sidechain
1	H	675	TYR	Sidechain
1	H	698	ARG	Sidechain
1	H	93	TYR	Sidechain
1	I	108	ARG	Sidechain
1	I	170	ARG	Sidechain
1	I	301	ARG	Sidechain
1	I	316	TYR	Sidechain
1	I	336	ARG	Sidechain
1	I	353	HIS	Sidechain
1	I	355	TYR	Sidechain
1	I	443	VAL	Peptide
1	I	444	ARG	Sidechain
1	I	455	ARG	Sidechain
1	I	498	TYR	Sidechain
1	I	573	ARG	Sidechain
1	I	579	PHE	Sidechain
1	I	633	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	I	651	TYR	Sidechain
1	I	674	ARG	Sidechain
1	I	675	TYR	Sidechain
1	I	698	ARG	Sidechain
1	J	108	ARG	Sidechain
1	J	231	ARG	Sidechain
1	J	255	ARG	Sidechain
1	J	288	ARG	Sidechain
1	J	301	ARG	Sidechain
1	J	397	HIS	Sidechain
1	J	414	GLN	Peptide
1	J	439	GLY	Peptide
1	J	449	ARG	Sidechain
1	J	451	TYR	Sidechain
1	J	593	ARG	Sidechain
1	J	597	PHE	Sidechain
1	J	633	TYR	Sidechain
1	J	698	ARG	Sidechain
1	J	98	ARG	Sidechain
1	K	108	ARG	Sidechain
1	K	152	ARG	Sidechain
1	K	170	ARG	Sidechain
1	K	173	TYR	Sidechain
1	K	174	ARG	Sidechain
1	K	206	HIS	Sidechain
1	K	252	TYR	Sidechain
1	K	322	TYR	Sidechain
1	K	355	TYR	Sidechain
1	K	369	ARG	Sidechain
1	K	373	ARG	Sidechain
1	K	538	HIS	Sidechain
1	K	582	ASP	Sidechain
1	K	593	ARG	Sidechain
1	K	633	TYR	Sidechain
1	K	674	ARG	Sidechain
1	K	690	ARG	Sidechain
1	K	695	ARG	Sidechain
1	L	152	ARG	Sidechain
1	L	239	ARG	Sidechain
1	L	252	TYR	Sidechain
1	L	255	ARG	Sidechain
1	L	312	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	L	322	TYR	Sidechain
1	L	336	ARG	Sidechain
1	L	355	TYR	Sidechain
1	L	357	ARG	Sidechain
1	L	429	PHE	Sidechain
1	L	483	TYR	Sidechain
1	L	498	TYR	Sidechain
1	L	542	PHE	Sidechain
1	L	543	PHE	Sidechain
1	L	647	PHE	Sidechain
1	L	651	TYR	Sidechain
1	L	655	ARG	Sidechain
1	L	689	ARG	Sidechain
1	L	690	ARG	Sidechain
1	L	695	ARG	Sidechain
1	L	697	TYR	Sidechain
1	L	704	HIS	Sidechain
1	L	98	ARG	Sidechain
1	M	202	ARG	Sidechain
1	M	231	ARG	Sidechain
1	M	255	ARG	Sidechain
1	M	322	TYR	Sidechain
1	M	336	ARG	Sidechain
1	M	449	ARG	Sidechain
1	M	451	TYR	Sidechain
1	M	487	TYR	Sidechain
1	M	488	ARG	Sidechain
1	M	542	PHE	Sidechain
1	M	597	PHE	Sidechain
1	M	674	ARG	Sidechain
1	M	698	ARG	Sidechain
1	N	111	GLY	Peptide
1	N	174	ARG	Sidechain
1	N	202	ARG	Sidechain
1	N	231	ARG	Sidechain
1	N	322	TYR	Sidechain
1	N	328	ARG	Sidechain
1	N	349	PHE	Sidechain
1	N	350	PHE	Sidechain
1	N	355	TYR	Sidechain
1	N	357	ARG	Sidechain
1	N	449	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	N	483	TYR	Sidechain
1	N	498	TYR	Sidechain
1	N	508	TYR	Sidechain
1	N	640	ARG	Sidechain
1	N	647	PHE	Sidechain
1	N	674	ARG	Sidechain
1	N	697	TYR	Sidechain
1	N	703	ARG	Sidechain
1	N	94	GLU	Mainchain
1	N	98	ARG	Sidechain
1	O	152	ARG	Sidechain
1	O	173	TYR	Sidechain
1	O	288	ARG	Sidechain
1	O	312	ARG	Sidechain
1	O	328	ARG	Sidechain
1	O	350	PHE	Sidechain
1	O	373	ARG	Sidechain
1	O	487	TYR	Sidechain
1	O	498	TYR	Sidechain
1	O	543	PHE	Sidechain
1	O	573	ARG	Sidechain
1	O	585	TYR	Sidechain
1	O	647	PHE	Sidechain
1	O	697	TYR	Sidechain
1	O	698	ARG	Sidechain
1	O	98	ARG	Sidechain
1	P	152	ARG	Sidechain
1	P	255	ARG	Sidechain
1	P	320	LYS	Mainchain
1	P	328	ARG	Sidechain
1	P	355	TYR	Sidechain
1	P	410	ASP	Peptide
1	P	421	PHE	Sidechain
1	P	444	ARG	Sidechain
1	P	449	ARG	Sidechain
1	P	451	TYR	Sidechain
1	P	487	TYR	Sidechain
1	P	539	PHE	Sidechain
1	P	597	PHE	Sidechain
1	P	633	TYR	Sidechain
1	P	640	ARG	Sidechain
1	P	674	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	P	695	ARG	Sidechain
1	P	93	TYR	Sidechain
1	P	98	ARG	Sidechain
1	Q	145	ARG	Sidechain
1	Q	152	ARG	Sidechain
1	Q	173	TYR	Sidechain
1	Q	231	ARG	Sidechain
1	Q	316	TYR	Sidechain
1	Q	328	ARG	Sidechain
1	Q	394	ARG	Sidechain
1	Q	397	HIS	Sidechain
1	Q	406	ARG	Sidechain
1	Q	420	PHE	Sidechain
1	Q	458	PHE	Sidechain
1	Q	483	TYR	Sidechain
1	Q	487	TYR	Sidechain
1	Q	492	LEU	Peptide
1	Q	508	TYR	Sidechain
1	Q	651	TYR	Sidechain
1	Q	690	ARG	Sidechain
1	Q	697	TYR	Sidechain
1	Q	98	ARG	Sidechain
1	R	191	HIS	Sidechain
1	R	218	VAL	Peptide
1	R	239	ARG	Sidechain
1	R	255	ARG	Sidechain
1	R	316	TYR	Sidechain
1	R	410	ASP	Peptide
1	R	451	TYR	Sidechain
1	R	458	PHE	Sidechain
1	R	483	TYR	Sidechain
1	R	675	TYR	Sidechain
1	R	697	TYR	Sidechain
1	R	703	ARG	Sidechain
1	R	98	ARG	Sidechain
1	S	202	ARG	Sidechain
1	S	252	TYR	Sidechain
1	S	369	ARG	Sidechain
1	S	397	HIS	Sidechain
1	S	451	TYR	Sidechain
1	S	498	TYR	Sidechain
1	S	542	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	S	543	PHE	Sidechain
1	S	573	ARG	Sidechain
1	S	586	SER	Mainchain
1	S	651	TYR	Sidechain
1	S	674	ARG	Sidechain
1	S	690	ARG	Sidechain
1	S	698	ARG	Sidechain
1	S	93	TYR	Sidechain
1	S	98	ARG	Sidechain
1	T	145	ARG	Sidechain
1	T	170	ARG	Sidechain
1	T	202	ARG	Sidechain
1	T	252	TYR	Sidechain
1	T	254	GLN	Peptide
1	T	328	ARG	Sidechain
1	T	336	ARG	Sidechain
1	T	355	TYR	Sidechain
1	T	410	ASP	Peptide
1	T	451	TYR	Sidechain
1	T	508	TYR	Sidechain
1	T	531	PHE	Sidechain
1	T	593	ARG	Sidechain
1	T	698	ARG	Sidechain
1	T	93	TYR	Sidechain
1	T	98	ARG	Sidechain
1	U	152	ARG	Sidechain
1	U	218	VAL	Peptide
1	U	231	ARG	Sidechain
1	U	239	ARG	Peptide
1	U	288	ARG	Sidechain
1	U	301	ARG	Sidechain
1	U	336	ARG	Sidechain
1	U	355	TYR	Sidechain
1	U	381	HIS	Sidechain
1	U	394	ARG	Sidechain
1	U	420	PHE	Sidechain
1	U	421	PHE	Sidechain
1	U	483	TYR	Sidechain
1	U	488	ARG	Sidechain
1	U	498	TYR	Sidechain
1	U	501	PHE	Sidechain
1	U	675	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	V	173	TYR	Sidechain
1	V	206	HIS	Sidechain
1	V	231	ARG	Sidechain
1	V	239	ARG	Sidechain
1	V	312	ARG	Sidechain
1	V	315	THR	Peptide
1	V	350	PHE	Sidechain
1	V	353	HIS	Peptide
1	V	355	TYR	Sidechain
1	V	410	ASP	Peptide
1	V	444	ARG	Sidechain
1	V	449	ARG	Sidechain
1	V	455	ARG	Sidechain
1	V	501	PHE	Sidechain
1	V	531	PHE	Sidechain
1	V	585	TYR	Sidechain
1	V	597	PHE	Sidechain
1	V	633	TYR	Sidechain
1	V	640	ARG	Sidechain
1	V	698	ARG	Sidechain
1	W	173	TYR	Sidechain
1	W	316	TYR	Sidechain
1	W	355	TYR	Sidechain
1	W	356	PHE	Sidechain
1	W	373	ARG	Sidechain
1	W	394	ARG	Sidechain
1	W	498	TYR	Sidechain
1	W	506	HIS	Sidechain
1	W	508	TYR	Sidechain
1	W	539	PHE	Sidechain
1	W	542	PHE	Peptide
1	W	634	PHE	Sidechain
1	W	651	TYR	Sidechain
1	W	655	ARG	Sidechain
1	W	674	ARG	Sidechain
1	W	675	TYR	Sidechain
1	W	98	ARG	Sidechain
1	X	152	ARG	Sidechain
1	X	170	ARG	Sidechain
1	X	174	ARG	Sidechain
1	X	231	ARG	Sidechain
1	X	252	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	X	322	TYR	Sidechain
1	X	330	GLN	Peptide
1	X	336	ARG	Sidechain
1	X	353	HIS	Sidechain
1	X	357	ARG	Sidechain
1	X	406	ARG	Sidechain
1	X	444	ARG	Sidechain
1	X	455	ARG	Sidechain
1	X	488	ARG	Sidechain
1	X	539	PHE	Sidechain
1	X	651	TYR	Sidechain
1	X	695	ARG	Sidechain
1	X	709	PHE	Sidechain
1	X	93	TYR	Sidechain
1	X	98	ARG	Sidechain
1	Y	170	ARG	Sidechain
1	Y	173	TYR	Sidechain
1	Y	231	ARG	Sidechain
1	Y	280	HIS	Sidechain
1	Y	312	ARG	Sidechain
1	Y	355	TYR	Sidechain
1	Y	366	THR	Peptide
1	Y	449	ARG	Sidechain
1	Y	483	TYR	Sidechain
1	Y	633	TYR	Sidechain
1	Y	651	TYR	Sidechain
1	Y	689	ARG	Sidechain
1	Z	145	ARG	Sidechain
1	Z	170	ARG	Sidechain
1	Z	231	ARG	Sidechain
1	Z	239	ARG	Sidechain
1	Z	252	TYR	Sidechain
1	Z	288	ARG	Sidechain
1	Z	301	ARG	Sidechain
1	Z	336	ARG	Sidechain
1	Z	355	TYR	Sidechain
1	Z	363	GLY	Peptide
1	Z	369	ARG	Sidechain
1	Z	397	HIS	Sidechain
1	Z	477	HIS	Sidechain
1	Z	488	ARG	Sidechain
1	Z	508	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	Z	573	ARG	Sidechain
1	Z	623	PHE	Sidechain
1	Z	633	TYR	Sidechain
1	Z	640	ARG	Sidechain
1	a	152	ARG	Sidechain
1	a	202	ARG	Sidechain
1	a	206	HIS	Sidechain
1	a	231	ARG	Sidechain
1	a	312	ARG	Sidechain
1	a	531	PHE	Sidechain
1	a	573	ARG	Sidechain
1	a	640	ARG	Sidechain
1	a	651	TYR	Sidechain
1	a	675	TYR	Sidechain
1	a	690	ARG	Sidechain
1	a	695	ARG	Sidechain
1	a	93	TYR	Sidechain
1	a	98	ARG	Sidechain
1	b	202	ARG	Sidechain
1	b	231	ARG	Sidechain
1	b	252	TYR	Sidechain
1	b	316	TYR	Sidechain
1	b	350	PHE	Sidechain
1	b	373	ARG	Sidechain
1	b	440	GLU	Peptide
1	b	455	ARG	Peptide
1	b	487	TYR	Sidechain
1	b	488	ARG	Sidechain
1	b	506	HIS	Sidechain
1	b	531	PHE	Sidechain
1	b	573	ARG	Sidechain
1	b	674	ARG	Sidechain
1	b	675	TYR	Sidechain
1	b	689	ARG	Sidechain
1	b	698	ARG	Sidechain
1	b	709	PHE	Sidechain
1	b	98	ARG	Sidechain
1	c	145	ARG	Sidechain
1	c	152	ARG	Sidechain
1	c	170	ARG	Sidechain
1	c	218	VAL	Peptide
1	c	231	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	c	252	TYR	Sidechain
1	c	328	ARG	Sidechain
1	c	353	HIS	Peptide
1	c	406	ARG	Sidechain
1	c	449	ARG	Sidechain
1	c	488	ARG	Sidechain
1	c	508	TYR	Sidechain
1	c	674	ARG	Sidechain
1	c	697	TYR	Sidechain
1	c	698	ARG	Sidechain
1	c	98	ARG	Sidechain
1	d	123	VAL	Mainchain
1	d	170	ARG	Sidechain
1	d	173	TYR	Sidechain
1	d	202	ARG	Sidechain
1	d	231	ARG	Sidechain
1	d	255	ARG	Sidechain
1	d	312	ARG	Sidechain
1	d	357	ARG	Sidechain
1	d	455	ARG	Sidechain
1	d	483	TYR	Sidechain
1	d	487	TYR	Sidechain
1	d	539	PHE	Sidechain
1	d	572	PHE	Sidechain
1	d	593	ARG	Sidechain
1	d	640	ARG	Sidechain
1	d	651	TYR	Sidechain
1	d	652	PHE	Sidechain
1	d	674	ARG	Sidechain
1	d	697	TYR	Sidechain
1	d	698	ARG	Sidechain
1	d	98	ARG	Sidechain
1	e	145	ARG	Sidechain
1	e	152	ARG	Sidechain
1	e	173	TYR	Sidechain
1	e	301	ARG	Sidechain
1	e	322	TYR	Sidechain
1	e	336	ARG	Sidechain
1	e	357	ARG	Sidechain
1	e	406	ARG	Sidechain
1	e	451	TYR	Sidechain
1	e	488	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	e	508	TYR	Sidechain
1	e	540	GLY	Mainchain
1	e	542	PHE	Sidechain
1	e	674	ARG	Sidechain
1	e	690	ARG	Sidechain
1	e	697	TYR	Sidechain
1	e	703	ARG	Sidechain
1	e	709	PHE	Sidechain
1	f	152	ARG	Sidechain
1	f	255	ARG	Sidechain
1	f	288	ARG	Sidechain
1	f	301	ARG	Sidechain
1	f	322	TYR	Sidechain
1	f	353	HIS	Peptide
1	f	405	ARG	Sidechain
1	f	449	ARG	Sidechain
1	f	487	TYR	Sidechain
1	f	506	HIS	Sidechain
1	f	508	TYR	Sidechain
1	f	531	PHE	Sidechain
1	f	579	PHE	Peptide
1	f	640	ARG	Sidechain
1	f	651	TYR	Sidechain
1	f	675	TYR	Sidechain
1	f	695	ARG	Sidechain
1	f	698	ARG	Sidechain
1	g	145	ARG	Sidechain
1	g	170	ARG	Sidechain
1	g	280	HIS	Sidechain
1	g	324	ILE	Mainchain
1	g	355	TYR	Sidechain
1	g	369	ARG	Sidechain
1	g	373	ARG	Sidechain
1	g	397	HIS	Sidechain
1	g	488	ARG	Sidechain
1	g	498	TYR	Sidechain
1	g	593	ARG	Sidechain
1	g	633	TYR	Sidechain
1	g	690	ARG	Sidechain
1	g	93	TYR	Sidechain
1	h	108	ARG	Sidechain
1	h	231	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	h	239	ARG	Sidechain
1	h	288	ARG	Sidechain
1	h	301	ARG	Sidechain
1	h	322	TYR	Sidechain
1	h	420	PHE	Sidechain
1	h	483	TYR	Sidechain
1	h	488	ARG	Sidechain
1	h	498	TYR	Sidechain
1	h	501	PHE	Sidechain
1	h	508	TYR	Sidechain
1	h	593	ARG	Sidechain
1	h	647	PHE	Sidechain
1	h	651	TYR	Sidechain
1	h	709	PHE	Sidechain
1	h	93	TYR	Sidechain
1	i	130	GLY	Peptide
1	i	208	LEU	Peptide
1	i	312	ARG	Sidechain
1	i	349	PHE	Sidechain
1	i	394	ARG	Sidechain
1	i	487	TYR	Sidechain
1	i	495	PHE	Sidechain
1	i	514	GLU	Mainchain
1	i	579	PHE	Sidechain
1	i	585	TYR	Sidechain
1	i	640	ARG	Sidechain
1	i	674	ARG	Sidechain
1	i	690	ARG	Sidechain
1	i	697	TYR	Sidechain
1	i	703	ARG	Sidechain
1	j	152	ARG	Sidechain
1	j	170	ARG	Sidechain
1	j	202	ARG	Sidechain
1	j	231	ARG	Sidechain
1	j	237	GLN	Peptide
1	j	239	ARG	Sidechain
1	j	248	LEU	Mainchain
1	j	252	TYR	Sidechain
1	j	288	ARG	Sidechain
1	j	316	TYR	Peptide,Sidechain
1	j	350	PHE	Sidechain
1	j	355	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	j	356	PHE	Sidechain
1	j	357	ARG	Sidechain
1	j	369	ARG	Sidechain
1	j	373	ARG	Sidechain
1	j	405	ARG	Sidechain
1	j	449	ARG	Sidechain
1	j	451	TYR	Sidechain
1	j	455	ARG	Sidechain
1	j	483	TYR	Sidechain
1	j	498	TYR	Sidechain
1	j	633	TYR	Sidechain
1	j	695	ARG	Sidechain
1	j	93	TYR	Sidechain
1	j	98	ARG	Sidechain
1	k	108	ARG	Sidechain
1	k	152	ARG	Sidechain
1	k	174	ARG	Sidechain
1	k	202	ARG	Sidechain
1	k	264	VAL	Peptide
1	k	301	ARG	Sidechain
1	k	336	ARG	Sidechain
1	k	356	PHE	Sidechain
1	k	394	ARG	Sidechain
1	k	405	ARG	Sidechain
1	k	444	ARG	Sidechain
1	k	495	PHE	Sidechain
1	k	572	PHE	Sidechain
1	k	651	TYR	Sidechain
1	k	674	ARG	Sidechain
1	k	675	TYR	Sidechain
1	l	173	TYR	Sidechain
1	l	202	ARG	Sidechain
1	l	231	ARG	Sidechain
1	l	237	GLN	Peptide
1	l	255	ARG	Sidechain
1	l	278	MET	Mainchain
1	l	322	TYR	Sidechain
1	l	355	TYR	Sidechain
1	l	410	ASP	Peptide
1	l	444	ARG	Sidechain
1	l	455	ARG	Sidechain
1	l	634	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	l	640	ARG	Sidechain
1	l	647	PHE	Sidechain
1	l	651	TYR	Sidechain
1	l	695	ARG	Sidechain
1	l	697	TYR	Sidechain
1	l	98	ARG	Sidechain
1	m	202	ARG	Sidechain
1	m	239	ARG	Peptide
1	m	336	ARG	Sidechain
1	m	353	HIS	Sidechain
1	m	355	TYR	Sidechain
1	m	373	ARG	Sidechain
1	m	406	ARG	Sidechain
1	m	455	ARG	Sidechain
1	m	486	GLN	Peptide
1	m	498	TYR	Sidechain
1	m	501	PHE	Sidechain
1	m	573	ARG	Sidechain
1	m	597	PHE	Sidechain
1	m	633	TYR	Sidechain
1	m	675	TYR	Sidechain
1	m	698	ARG	Sidechain
1	m	93	TYR	Sidechain
1	n	108	ARG	Sidechain
1	n	202	ARG	Sidechain
1	n	208	LEU	Peptide
1	n	231	ARG	Sidechain
1	n	255	ARG	Sidechain
1	n	322	TYR	Sidechain
1	n	336	ARG	Sidechain
1	n	394	ARG	Sidechain
1	n	455	ARG	Sidechain
1	n	488	ARG	Sidechain
1	n	506	HIS	Sidechain
1	n	597	PHE	Sidechain
1	n	634	PHE	Sidechain
1	n	674	ARG	Sidechain
1	n	93	TYR	Sidechain
1	n	98	ARG	Sidechain
1	o	108	ARG	Sidechain
1	o	202	ARG	Sidechain
1	o	239	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	o	301	ARG	Sidechain
1	o	322	TYR	Sidechain
1	o	336	ARG	Sidechain
1	o	355	TYR	Sidechain
1	o	365	ALA	Peptide
1	o	381	HIS	Sidechain
1	o	405	ARG	Sidechain
1	o	538	HIS	Sidechain
1	o	634	PHE	Sidechain
1	o	697	TYR	Sidechain
1	o	703	ARG	Sidechain
1	p	152	ARG	Sidechain
1	p	170	ARG	Sidechain
1	p	218	VAL	Peptide
1	p	231	ARG	Sidechain
1	p	239	ARG	Sidechain
1	p	252	TYR	Sidechain
1	p	322	TYR	Sidechain
1	p	369	ARG	Sidechain
1	p	449	ARG	Sidechain
1	p	483	TYR	Sidechain
1	p	498	TYR	Sidechain
1	p	585	TYR	Sidechain
1	p	629	HIS	Sidechain
1	p	675	TYR	Sidechain
1	p	704	HIS	Sidechain
1	p	93	TYR	Sidechain
1	p	98	ARG	Sidechain
1	q	170	ARG	Sidechain
1	q	218	VAL	Peptide
1	q	231	ARG	Sidechain
1	q	239	ARG	Sidechain
1	q	301	ARG	Sidechain
1	q	322	TYR	Sidechain
1	q	328	ARG	Sidechain
1	q	336	ARG	Sidechain
1	q	394	ARG	Sidechain
1	q	397	HIS	Sidechain
1	q	488	ARG	Sidechain
1	q	494	GLY	Peptide
1	q	498	TYR	Sidechain
1	q	508	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	q	629	HIS	Sidechain
1	q	674	ARG	Sidechain
1	q	690	ARG	Sidechain
1	q	695	ARG	Sidechain
1	q	697	TYR	Sidechain
1	q	698	ARG	Sidechain
1	r	231	ARG	Sidechain
1	r	288	ARG	Sidechain
1	r	349	PHE	Sidechain
1	r	353	HIS	Peptide,Sidechain
1	r	397	HIS	Sidechain
1	r	449	ARG	Sidechain
1	r	487	TYR	Sidechain
1	r	488	ARG	Sidechain
1	r	498	TYR	Sidechain
1	r	508	TYR	Sidechain
1	r	543	PHE	Sidechain
1	r	651	TYR	Sidechain
1	r	689	ARG	Sidechain
1	r	690	ARG	Sidechain
1	r	695	ARG	Sidechain
1	r	98	ARG	Sidechain
1	s	173	TYR	Sidechain
1	s	191	HIS	Sidechain
1	s	301	ARG	Sidechain
1	s	336	ARG	Sidechain
1	s	357	ARG	Sidechain
1	s	406	ARG	Sidechain
1	s	444	ARG	Sidechain
1	s	449	ARG	Sidechain
1	s	477	HIS	Sidechain
1	s	483	TYR	Sidechain
1	s	487	TYR	Sidechain
1	s	488	ARG	Sidechain
1	s	493	LEU	Peptide
1	s	498	TYR	Sidechain
1	s	508	TYR	Sidechain
1	s	585	TYR	Sidechain
1	s	651	TYR	Sidechain
1	s	695	ARG	Sidechain
1	s	697	TYR	Sidechain
1	s	98	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	t	231	ARG	Sidechain
1	t	252	TYR	Sidechain
1	t	255	ARG	Sidechain
1	t	312	ARG	Sidechain
1	t	316	TYR	Peptide,Sidechain
1	t	322	TYR	Sidechain
1	t	369	ARG	Sidechain
1	t	405	ARG	Sidechain
1	t	420	PHE	Sidechain
1	t	449	ARG	Sidechain
1	t	455	ARG	Sidechain
1	t	498	TYR	Sidechain
1	t	674	ARG	Sidechain
1	t	695	ARG	Sidechain
1	t	93	TYR	Sidechain
1	t	98	ARG	Sidechain
1	u	170	ARG	Sidechain
1	u	173	TYR	Sidechain
1	u	226	LEU	Peptide
1	u	239	ARG	Peptide
1	u	312	ARG	Sidechain
1	u	328	ARG	Sidechain
1	u	356	PHE	Sidechain
1	u	449	ARG	Sidechain
1	u	487	TYR	Sidechain
1	u	498	TYR	Sidechain
1	u	539	PHE	Sidechain
1	u	623	PHE	Sidechain
1	u	629	HIS	Sidechain
1	u	634	PHE	Sidechain
1	u	655	ARG	Sidechain
1	u	98	ARG	Sidechain
1	v	108	ARG	Sidechain
1	v	152	ARG	Sidechain
1	v	170	ARG	Sidechain
1	v	202	ARG	Sidechain
1	v	231	ARG	Sidechain
1	v	237	GLN	Peptide
1	v	239	ARG	Sidechain
1	v	252	TYR	Sidechain
1	v	280	HIS	Sidechain
1	v	373	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	v	449	ARG	Sidechain
1	v	451	TYR	Sidechain
1	v	483	TYR	Sidechain
1	v	572	PHE	Peptide
1	v	579	PHE	Peptide
1	v	585	TYR	Sidechain
1	v	633	TYR	Sidechain
1	v	640	ARG	Sidechain
1	v	675	TYR	Sidechain
1	v	703	ARG	Sidechain
1	v	98	ARG	Sidechain
1	w	108	ARG	Sidechain
1	w	109	ALA	Peptide
1	w	125	GLY	Peptide
1	w	255	ARG	Sidechain
1	w	312	ARG	Sidechain
1	w	357	ARG	Sidechain
1	w	405	ARG	Sidechain
1	w	449	ARG	Sidechain
1	w	506	HIS	Sidechain
1	w	508	TYR	Sidechain
1	w	640	ARG	Sidechain
1	w	674	ARG	Sidechain
1	x	145	ARG	Sidechain
1	x	170	ARG	Sidechain
1	x	231	ARG	Sidechain
1	x	252	TYR	Sidechain
1	x	288	ARG	Sidechain
1	x	336	ARG	Sidechain
1	x	373	ARG	Sidechain
1	x	394	ARG	Sidechain
1	x	405	ARG	Sidechain
1	x	421	PHE	Sidechain
1	x	444	ARG	Sidechain
1	x	455	ARG	Sidechain
1	x	483	TYR	Sidechain
1	x	487	TYR	Sidechain
1	x	488	ARG	Sidechain
1	x	494	GLY	Peptide
1	x	498	TYR	Sidechain
1	x	542	PHE	Sidechain
1	x	572	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	x	651	TYR	Sidechain
1	x	655	ARG	Sidechain
1	x	674	ARG	Sidechain
1	x	689	ARG	Sidechain
1	x	698	ARG	Sidechain
1	x	98	ARG	Sidechain
1	y	145	ARG	Sidechain
1	y	202	ARG	Sidechain
1	y	206	HIS	Sidechain
1	y	239	ARG	Sidechain
1	y	301	ARG	Sidechain
1	y	357	ARG	Sidechain
1	y	367	VAL	Peptide
1	y	498	TYR	Sidechain
1	y	539	PHE	Sidechain
1	y	579	PHE	Sidechain
1	y	597	PHE	Sidechain
1	y	634	PHE	Sidechain
1	y	640	ARG	Sidechain
1	y	651	TYR	Sidechain
1	y	674	ARG	Sidechain
1	y	698	ARG	Sidechain
1	y	704	HIS	Sidechain
1	y	93	TYR	Sidechain
1	z	170	ARG	Sidechain
1	z	174	ARG	Sidechain
1	z	231	ARG	Sidechain
1	z	237	GLN	Peptide
1	z	239	ARG	Sidechain
1	z	252	TYR	Sidechain
1	z	255	ARG	Sidechain
1	z	316	TYR	Sidechain
1	z	322	TYR	Sidechain
1	z	369	ARG	Sidechain
1	z	381	HIS	Sidechain
1	z	483	TYR	Sidechain
1	z	487	TYR	Sidechain
1	z	488	ARG	Sidechain
1	z	498	TYR	Sidechain
1	z	572	PHE	Sidechain
1	z	583	GLN	Mainchain
1	z	585	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	z	623	PHE	Sidechain
1	z	647	PHE	Sidechain
1	z	93	TYR	Sidechain
1	z	98	ARG	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	0	4807	0	4935	9	0
1	1	4807	0	4935	11	0
1	2	4807	0	4935	5	0
1	3	4807	0	4935	10	0
1	4	4807	0	4935	7	0
1	5	4807	0	4935	7	0
1	6	4807	0	4935	7	0
1	7	4807	0	4935	8	0
1	8	4807	0	4935	8	0
1	9	4807	0	4935	6	0
1	A	4807	0	4935	7	0
1	B	4807	0	4935	8	0
1	C	4807	0	4935	13	0
1	D	4807	0	4935	6	0
1	E	4807	0	4935	10	0
1	F	4807	0	4935	12	0
1	G	4807	0	4935	8	0
1	H	4807	0	4935	5	0
1	I	4807	0	4935	5	0
1	J	4807	0	4935	8	0
1	K	4807	0	4935	7	0
1	L	4807	0	4935	8	0
1	M	4807	0	4935	12	0
1	N	4807	0	4935	11	0
1	O	4807	0	4935	6	0
1	P	4807	0	4935	9	0
1	Q	4807	0	4935	7	0
1	R	4807	0	4935	6	0
1	S	4807	0	4935	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	T	4807	0	4935	7	0
1	U	4807	0	4935	7	0
1	V	4807	0	4935	9	0
1	W	4807	0	4935	9	0
1	X	4807	0	4935	7	0
1	Y	4807	0	4935	12	0
1	Z	4807	0	4935	6	0
1	a	4807	0	4935	10	0
1	b	4807	0	4935	7	0
1	c	4807	0	4935	6	0
1	d	4807	0	4935	7	0
1	e	4807	0	4935	4	0
1	f	4807	0	4935	9	0
1	g	4807	0	4935	10	0
1	h	4807	0	4935	7	0
1	i	4807	0	4935	7	0
1	j	4807	0	4935	8	0
1	k	4807	0	4935	9	0
1	l	4807	0	4935	9	0
1	m	4807	0	4935	5	0
1	n	4807	0	4935	11	0
1	o	4807	0	4935	11	0
1	p	4807	0	4935	13	0
1	q	4807	0	4935	10	0
1	r	4807	0	4935	12	0
1	s	4807	0	4935	9	0
1	t	4807	0	4935	7	0
1	u	4807	0	4935	9	0
1	v	4807	0	4935	6	0
1	w	4807	0	4935	6	0
1	x	4807	0	4935	13	0
1	y	4807	0	4935	12	0
1	z	4807	0	4935	13	0
All	All	298034	0	305970	497	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 1.

All (497) 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)
1:H:150:VAL:HG13	1:H:228:GLY:H	1.40	0.85
1:2:241:ILE:H	1:2:241:ILE:HD13	1.48	0.78
1:l:123:VAL:HG22	1:l:261:LEU:HD23	1.73	0.69
1:y:180:LEU:HD13	1:y:186:VAL:HG22	1.76	0.66
1:b:98:ARG:HH22	1:b:220:ASP:CG	2.07	0.62
1:F:309:ASN:HD22	1:F:359:LEU:HD11	1.65	0.62
1:t:409:ALA:HB1	1:t:410:ASP:HA	1.81	0.61
1:i:420:PHE:HA	1:i:423:ILE:HG22	1.82	0.61
1:B:186:VAL:HG11	1:B:211:LEU:HD21	1.83	0.61
1:G:98:ARG:HH21	1:G:220:ASP:CG	2.10	0.60
1:y:567:MET:HE1	1:z:567:MET:HE1	1.83	0.60
1:G:472:VAL:HG22	1:G:475:ILE:HD12	1.83	0.60
1:s:97:VAL:HG23	1:s:98:ARG:H	1.66	0.59
1:y:120:ALA:HB3	1:y:258:THR:HG22	1.83	0.59
1:C:239:ARG:HA	1:C:240:ASP:HB2	1.84	0.59
1:u:567:MET:HE1	1:v:567:MET:HE1	1.83	0.59
1:i:239:ARG:HA	1:i:240:ASP:HB2	1.84	0.59
1:D:457:ASP:CG	1:D:522:LYS:HZ2	2.11	0.58
1:k:204:ILE:HD13	1:k:245:ILE:HG12	1.86	0.58
1:b:239:ARG:H	1:b:241:ILE:HD13	1.69	0.58
1:n:681:GLU:CD	1:n:681:GLU:H	2.10	0.58
1:V:270:ILE:HD13	1:V:316:TYR:HB2	1.85	0.58
1:5:136:GLU:CD	1:5:145:ARG:HH22	2.12	0.57
1:W:449:ARG:HH12	1:Y:491:GLU:CD	2.12	0.57
1:7:409:ALA:HB1	1:7:410:ASP:HA	1.87	0.57
1:K:545:LEU:HD13	1:K:678:LEU:HD22	1.87	0.57
1:P:113:GLU:H	1:P:113:GLU:CD	2.12	0.57
1:2:190:ILE:HG21	1:2:211:LEU:HD22	1.88	0.56
1:C:487:TYR:HA	1:C:490:LYS:HB2	1.87	0.56
1:h:465:LEU:HD13	1:h:642:ALA:HB2	1.88	0.56
1:D:450:LEU:HD13	1:D:530:ALA:HB2	1.86	0.56
1:c:261:LEU:HD13	1:c:374:LEU:HD21	1.88	0.56
1:g:504:ILE:HG23	1:g:630:LEU:HD13	1.88	0.56
1:0:568:ILE:HD13	1:0:648:ILE:HD12	1.87	0.55
1:Q:530:ALA:O	1:Q:534:VAL:HG23	2.06	0.55
1:G:270:ILE:HD12	1:G:270:ILE:H	1.71	0.55
1:r:249:ILE:HD13	1:r:278:MET:HE1	1.89	0.55
1:u:103:LEU:HD22	1:u:709:PHE:CG	2.42	0.55
1:v:154:PRO:HB2	1:v:208:LEU:HD23	1.89	0.54
1:4:704:HIS:CG	1:7:672:LYS:HG2	2.42	0.54
1:q:241:ILE:HD12	1:q:241:ILE:H	1.71	0.54
1:V:174:ARG:HH12	1:V:207:GLU:CD	2.15	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:486:GLN:HA	1:3:486:GLN:OE1	2.07	0.54
1:r:173:TYR:C	1:r:175:ASN:H	2.14	0.54
1:6:190:ILE:HG21	1:6:211:LEU:HD22	1.90	0.54
1:v:484:GLU:CD	1:v:488:ARG:HH21	2.16	0.53
1:s:188:LYS:H	1:s:188:LYS:HD2	1.72	0.53
1:F:360:LEU:HD23	1:F:366:THR:HG22	1.88	0.53
1:S:296:PRO:HB3	1:S:324:ILE:HD11	1.90	0.53
1:j:495:PHE:CE1	1:k:496:VAL:HG11	2.43	0.53
1:r:191:HIS:CE1	1:r:195:ASN:HD21	2.26	0.53
1:L:136:GLU:CD	1:L:145:ARG:HH12	2.17	0.53
1:w:636:GLU:CD	1:w:640:ARG:HH12	2.15	0.53
1:B:313:ASN:HD21	1:B:359:LEU:HD22	1.74	0.53
1:M:461:TRP:CH2	1:M:516:ALA:HB2	2.44	0.53
1:l:124:ILE:HD11	1:l:253:ILE:HG21	1.91	0.53
1:u:636:GLU:CD	1:u:640:ARG:HH12	2.17	0.53
1:z:112:VAL:HG23	1:z:698:ARG:HB3	1.91	0.53
1:3:299:MET:HE1	1:3:308:MET:HG3	1.90	0.53
1:M:483:TYR:CD1	1:M:487:TYR:HB2	2.43	0.53
1:9:461:TRP:CZ2	1:9:645:ILE:HD12	2.44	0.52
1:m:150:VAL:HG22	1:m:151:THR:H	1.74	0.52
1:g:549:VAL:HG22	1:g:665:MET:HE1	1.91	0.52
1:z:514:GLU:HB3	1:z:515:PRO:HD3	1.91	0.52
1:4:204:ILE:HD11	1:4:248:LEU:HD22	1.92	0.52
1:p:150:VAL:HG22	1:p:151:THR:H	1.75	0.52
1:i:234:VAL:HG21	1:i:241:ILE:HG13	1.91	0.52
1:8:436:LEU:HD21	1:8:530:ALA:HB1	1.92	0.52
1:o:215:SER:HB3	1:o:218:VAL:HG22	1.92	0.52
1:E:113:GLU:CD	1:E:113:GLU:H	2.18	0.52
1:N:113:GLU:H	1:N:113:GLU:CD	2.18	0.52
1:C:502:GLU:HG3	1:C:506:HIS:CE1	2.44	0.52
1:1:174:ARG:HH12	1:1:207:GLU:CD	2.18	0.51
1:K:94:GLU:CD	1:K:98:ARG:HH12	2.18	0.51
1:2:152:ARG:HH22	1:2:191:HIS:CD2	2.28	0.51
1:G:404:LEU:HD22	1:G:696:ILE:HD12	1.92	0.51
1:8:174:ARG:HG2	1:8:197:MET:HE1	1.93	0.51
1:q:636:GLU:CD	1:q:640:ARG:HH12	2.18	0.51
1:0:322:TYR:CE2	1:0:363:GLY:HA3	2.45	0.51
1:j:126:ASP:CG	1:j:231:ARG:HH21	2.19	0.51
1:s:174:ARG:HH12	1:s:207:GLU:CD	2.19	0.51
1:r:150:VAL:HG22	1:r:151:THR:H	1.76	0.50
1:b:347:ILE:HD11	1:b:367:VAL:HG12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:325:VAL:HG11	1:i:370:LEU:HD22	1.93	0.50
1:k:521:GLN:HA	1:k:524:MET:HE3	1.94	0.50
1:m:449:ARG:HH12	1:o:491:GLU:CD	2.18	0.50
1:J:174:ARG:HH12	1:J:207:GLU:CD	2.19	0.50
1:l:490:LYS:C	1:3:449:ARG:HH11	2.18	0.50
1:Y:101:ILE:CG1	1:Y:379:ILE:HD11	2.42	0.50
1:x:415:GLU:CD	1:x:415:GLU:H	2.20	0.49
1:E:239:ARG:HA	1:E:240:ASP:HB2	1.94	0.49
1:H:295:LYS:HG2	1:H:330:GLN:HE22	1.77	0.49
1:Q:549:VAL:HG13	1:Q:665:MET:HE1	1.94	0.49
1:Q:231:ARG:HH22	1:Q:274:GLU:CD	2.21	0.49
1:R:419:MET:HE2	1:R:420:PHE:CE2	2.46	0.49
1:7:174:ARG:HG2	1:7:197:MET:HE1	1.94	0.49
1:r:123:VAL:HG21	1:r:135:LEU:HD11	1.93	0.49
1:S:138:LEU:HD22	1:S:371:ALA:HB2	1.93	0.49
1:8:449:ARG:H	1:a:490:LYS:HG2	1.78	0.49
1:n:183:PRO:HA	1:n:186:VAL:HG23	1.94	0.49
1:J:136:GLU:CD	1:J:145:ARG:HH22	2.21	0.49
1:Z:194:GLN:HE22	1:Z:209:ILE:HD13	1.77	0.49
1:5:410:ASP:N	1:5:411:ILE:HA	2.28	0.49
1:J:441:GLU:CD	1:J:444:ARG:HH22	2.21	0.49
1:j:520:LEU:HD13	1:j:649:ILE:HG12	1.95	0.49
1:q:174:ARG:HH22	1:q:207:GLU:CD	2.21	0.49
1:L:539:PHE:CE2	1:L:549:VAL:HG21	2.48	0.49
1:d:312:ARG:HG2	1:d:324:ILE:HD11	1.95	0.49
1:C:221:LEU:HD12	1:C:223:ILE:HG12	1.94	0.48
1:4:204:ILE:HD12	1:4:205:SER:H	1.78	0.48
1:M:113:GLU:CD	1:M:113:GLU:H	2.21	0.48
1:E:187:GLU:CD	1:E:336:ARG:HH21	2.20	0.48
1:T:104:ILE:HD13	1:T:119:PRO:HD2	1.94	0.48
1:5:124:ILE:HG22	1:5:275:ALA:HB1	1.95	0.48
1:6:468:ASN:HB2	1:6:512:LEU:HD21	1.96	0.48
1:x:141:VAL:HG22	1:x:142:ALA:N	2.28	0.48
1:1:409:ALA:HB1	1:1:410:ASP:HA	1.94	0.48
1:D:644:GLN:HE21	1:D:648:ILE:HD11	1.79	0.48
1:O:114:GLN:HE21	1:O:116:LEU:HD21	1.78	0.48
1:e:239:ARG:HA	1:e:240:ASP:HB2	1.96	0.48
1:g:665:MET:HA	1:g:665:MET:HE2	1.96	0.48
1:m:636:GLU:CD	1:m:640:ARG:HH12	2.20	0.48
1:a:450:LEU:HD21	1:a:527:ILE:HG23	1.96	0.48
1:p:432:ASP:OD2	1:p:538:HIS:HE1	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:301:ARG:HH21	1:Z:304:GLU:CD	2.22	0.47
1:O:113:GLU:CD	1:O:113:GLU:H	2.21	0.47
1:a:404:LEU:HA	1:a:407:CYS:SG	2.54	0.47
1:d:682:GLN:N	1:d:683:SER:HA	2.29	0.47
1:H:150:VAL:HG13	1:H:228:GLY:N	2.20	0.47
1:p:145:ARG:HH21	1:p:332:GLU:CD	2.22	0.47
1:E:174:ARG:HH12	1:E:207:GLU:CD	2.22	0.47
1:l:666:MET:HE2	1:l:666:MET:HA	1.95	0.47
1:y:250:LYS:HA	1:y:253:ILE:HG12	1.95	0.47
1:E:493:LEU:HD12	1:E:493:LEU:HA	1.81	0.47
1:K:174:ARG:HH12	1:K:207:GLU:CD	2.22	0.47
1:M:426:ILE:HD12	1:M:665:MET:HB3	1.95	0.47
1:P:409:ALA:HA	1:P:410:ASP:C	2.39	0.47
1:r:261:LEU:HD21	1:r:292:ILE:HG13	1.96	0.47
1:t:202:ARG:HH21	1:t:235:ASP:CG	2.22	0.47
1:1:367:VAL:HB	1:1:368:PRO:HD2	1.97	0.47
1:G:426:ILE:HG13	1:G:669:LEU:HD21	1.96	0.47
1:P:126:ASP:CG	1:P:231:ARG:HE	2.22	0.47
1:2:487:TYR:HA	1:2:490:LYS:HD3	1.97	0.47
1:8:476:ILE:HD13	1:8:504:ILE:HG21	1.97	0.47
1:k:429:PHE:CE2	1:k:665:MET:HE3	2.49	0.47
1:k:567:MET:HE1	1:l:567:MET:HE1	1.97	0.47
1:n:259:ILE:HD11	1:n:381:HIS:CD2	2.50	0.47
1:L:653:MET:HE3	1:L:653:MET:HA	1.97	0.47
1:M:157:LEU:HD13	1:M:211:LEU:HD23	1.97	0.47
1:7:197:MET:HG3	1:7:209:ILE:HD11	1.97	0.47
1:f:270:ILE:HG22	1:f:276:LEU:HD13	1.97	0.47
1:L:531:PHE:HB3	1:L:553:ILE:HD13	1.96	0.47
1:1:126:ASP:CG	1:1:231:ARG:HE	2.22	0.46
1:4:539:PHE:CD2	1:4:545:LEU:HD21	2.50	0.46
1:s:314:LEU:N	1:s:314:LEU:HD12	2.30	0.46
1:8:476:ILE:HD13	1:8:504:ILE:HG12	1.96	0.46
1:z:402:GLU:CD	1:z:405:ARG:HH12	2.24	0.46
1:A:123:VAL:HG13	1:A:261:LEU:HD23	1.96	0.46
1:T:539:PHE:CE2	1:T:549:VAL:HG21	2.50	0.46
1:V:253:ILE:HA	1:V:258:THR:HG21	1.96	0.46
1:x:250:LYS:HA	1:x:253:ILE:HG12	1.96	0.46
1:U:227:PRO:HB2	1:U:245:ILE:HG12	1.97	0.46
1:o:554:GLU:O	1:o:558:VAL:HG23	2.14	0.46
1:p:313:ASN:HD21	1:p:359:LEU:HD21	1.80	0.46
1:z:299:MET:HE3	1:z:304:GLU:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:145:ARG:HH21	1:B:332:GLU:CD	2.23	0.46
1:M:145:ARG:HD2	1:M:333:ILE:HD13	1.97	0.46
1:s:567:MET:HE1	1:t:567:MET:HE1	1.96	0.46
1:r:437:VAL:HG21	1:r:658:GLY:HA3	1.98	0.46
1:D:486:GLN:O	1:D:490:LYS:HG3	2.16	0.46
1:3:454:ILE:HG22	1:3:458:PHE:CZ	2.51	0.46
1:4:112:VAL:HG21	1:4:699:LEU:HG	1.97	0.46
1:b:409:ALA:HB1	1:b:410:ASP:HA	1.98	0.46
1:d:244:GLN:HA	1:d:244:GLN:HE21	1.80	0.46
1:B:493:LEU:HD13	1:B:493:LEU:HA	1.81	0.46
1:r:230:THR:HG21	1:r:234:VAL:HG22	1.98	0.45
1:w:120:ALA:HB1	1:w:224:ILE:HD12	1.97	0.45
1:A:98:ARG:HB2	1:A:99:PRO:HD3	1.98	0.45
1:C:557:LYS:C	1:C:557:LYS:HD2	2.41	0.45
1:a:229:ILE:HD13	1:a:245:ILE:HG22	1.97	0.45
1:M:487:TYR:HA	1:M:490:LYS:HB2	1.98	0.45
1:j:194:GLN:HE22	1:j:209:ILE:HG13	1.81	0.45
1:U:117:ALA:HB1	1:U:257:GLN:HG3	1.97	0.45
1:h:349:PHE:CE1	1:h:353:HIS:CE1	3.04	0.45
1:E:231:ARG:HH12	1:E:274:GLU:CD	2.23	0.45
1:T:202:ARG:HH21	1:T:235:ASP:CG	2.24	0.45
1:f:367:VAL:HG12	1:f:369:ARG:H	1.82	0.45
1:v:280:HIS:CD2	1:v:284:PRO:HA	2.52	0.45
1:C:113:GLU:CD	1:C:113:GLU:H	2.24	0.45
1:F:410:ASP:CG	1:F:690:ARG:HH22	2.25	0.45
1:X:494:GLY:CA	1:X:495:PHE:HB2	2.47	0.45
1:8:312:ARG:HH21	1:8:362:GLU:CD	2.23	0.45
1:9:136:GLU:CD	1:9:145:ARG:HH12	2.25	0.45
1:n:409:ALA:HB1	1:n:686:ALA:HB2	1.99	0.45
1:H:180:LEU:HG	1:H:186:VAL:HG22	1.99	0.45
1:N:429:PHE:CE1	1:N:535:ALA:HA	2.52	0.45
1:R:696:ILE:HD12	1:R:696:ILE:HA	1.82	0.45
1:5:124:ILE:HD11	1:5:253:ILE:HG21	1.99	0.45
1:o:494:GLY:HA2	1:o:495:PHE:HB2	1.97	0.45
1:6:239:ARG:HA	1:6:240:ASP:HB2	1.99	0.45
1:h:349:PHE:CE1	1:h:353:HIS:HE1	2.35	0.45
1:h:461:TRP:CE3	1:h:461:TRP:HA	2.51	0.45
1:B:116:LEU:HD12	1:B:116:LEU:HA	1.84	0.45
1:D:299:MET:HE1	1:D:308:MET:HE3	1.98	0.45
1:Y:101:ILE:HG13	1:Y:379:ILE:HD11	1.99	0.45
1:D:136:GLU:CD	1:D:145:ARG:HH22	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:157:LEU:HD13	1:Y:211:LEU:HD23	1.98	0.45
1:1:303:THR:O	1:1:307:VAL:HG23	2.17	0.44
1:q:350:PHE:CD1	1:q:360:LEU:HD21	2.52	0.44
1:A:568:ILE:HG13	1:A:648:ILE:HG21	1.99	0.44
1:J:324:ILE:HD12	1:J:360:LEU:HD21	1.98	0.44
1:Q:138:LEU:HD11	1:Q:370:LEU:HD23	1.99	0.44
1:X:581:GLN:CD	1:X:581:GLN:H	2.25	0.44
1:e:455:ARG:HG3	1:g:493:LEU:HD21	1.99	0.44
1:l:311:VAL:HG13	1:l:322:TYR:CD2	2.52	0.44
1:T:112:VAL:HG12	1:T:112:VAL:O	2.17	0.44
1:T:493:LEU:HD22	1:V:451:TYR:CD2	2.52	0.44
1:o:239:ARG:HA	1:o:240:ASP:HB2	1.99	0.44
1:L:208:LEU:HD12	1:L:208:LEU:H	1.83	0.44
1:P:174:ARG:HH12	1:P:207:GLU:CD	2.24	0.44
1:P:426:ILE:HG23	1:P:665:MET:HB3	2.00	0.44
1:F:450:LEU:HD21	1:F:527:ILE:HG23	1.98	0.44
1:S:426:ILE:HG12	1:S:669:LEU:HD11	2.00	0.44
1:9:261:LEU:HD12	1:9:290:ILE:HB	2.00	0.44
1:z:549:VAL:HG13	1:z:665:MET:HE1	2.00	0.44
1:Y:190:ILE:HD11	1:Y:211:LEU:CD2	2.47	0.44
1:Z:409:ALA:HB1	1:Z:410:ASP:HA	1.98	0.44
1:p:681:GLU:CD	1:y:250:LYS:HZ1	2.26	0.44
1:x:208:LEU:HD12	1:x:208:LEU:H	1.80	0.44
1:y:567:MET:CE	1:z:567:MET:HE1	2.47	0.44
1:p:198:ALA:HB1	1:p:203:GLY:O	2.18	0.44
1:v:103:LEU:HD22	1:v:709:PHE:CD1	2.53	0.44
1:A:254:GLN:HA	1:A:282:VAL:HG11	1.99	0.44
1:C:308:MET:HG2	1:C:359:LEU:HD13	2.00	0.44
1:E:425:LYS:HE3	1:E:538:HIS:CE1	2.53	0.44
1:I:264:VAL:HG11	1:I:270:ILE:HG12	1.99	0.44
1:Z:180:LEU:C	1:Z:182:ASP:H	2.25	0.44
1:f:112:VAL:HG23	1:f:698:ARG:HB3	2.00	0.44
1:m:150:VAL:HG22	1:m:151:THR:N	2.32	0.44
1:y:450:LEU:HD21	1:y:527:ILE:HD13	2.00	0.44
1:C:444:ARG:H	1:C:444:ARG:NE	2.16	0.44
1:C:506:HIS:CE1	1:C:576:GLN:O	2.71	0.44
1:V:493:LEU:HD21	1:X:451:TYR:CE1	2.53	0.44
1:9:309:ASN:HA	1:9:359:LEU:HD11	2.00	0.43
1:f:504:ILE:HG21	1:f:630:LEU:HD13	1.99	0.43
1:A:199:GLY:O	1:A:200:ASN:HB2	2.17	0.43
1:A:541:GLU:CD	1:A:541:GLU:H	2.24	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:113:GLU:H	1:I:113:GLU:CD	2.26	0.43
1:I:473:LYS:HA	1:I:476:ILE:HG22	1.99	0.43
1:S:239:ARG:HA	1:S:240:ASP:HB3	1.99	0.43
1:S:462:VAL:HA	1:S:465:LEU:HD12	2.00	0.43
1:W:643:ASN:CG	1:X:581:GLN:HE22	2.25	0.43
1:i:436:LEU:HD22	1:i:534:VAL:HG21	2.00	0.43
1:p:313:ASN:HD21	1:p:359:LEU:CD2	2.32	0.43
1:G:291:GLY:O	1:G:322:TYR:HA	2.18	0.43
1:S:145:ARG:CZ	1:S:333:ILE:HD11	2.48	0.43
1:2:276:LEU:HD21	1:2:317:PRO:HD2	2.00	0.43
1:n:441:GLU:H	1:n:449:ARG:HH12	1.66	0.43
1:w:697:TYR:CD2	1:z:419:MET:HE2	2.52	0.43
1:z:206:HIS:HE1	1:z:244:GLN:OE1	2.01	0.43
1:J:447:GLU:HG2	1:J:448:THR:H	1.83	0.43
1:U:136:GLU:HB2	1:U:142:ALA:HB3	2.01	0.43
1:U:455:ARG:HE	1:W:493:LEU:HD21	1.83	0.43
1:W:292:ILE:HG22	1:W:323:MET:HB2	2.00	0.43
1:c:312:ARG:HH21	1:c:362:GLU:CD	2.26	0.43
1:n:113:GLU:CD	1:n:113:GLU:H	2.27	0.43
1:B:465:LEU:HD23	1:B:512:LEU:HD21	1.99	0.43
1:N:261:LEU:HD21	1:N:292:ILE:HG13	2.00	0.43
1:P:409:ALA:HB1	1:P:410:ASP:HA	1.99	0.43
1:1:141:VAL:HG22	1:1:142:ALA:N	2.34	0.43
1:k:323:MET:HE2	1:k:323:MET:HA	2.00	0.43
1:r:494:GLY:HA2	1:r:495:PHE:HB2	2.00	0.43
1:J:243:LEU:C	1:J:243:LEU:HD13	2.44	0.43
1:N:136:GLU:CD	1:N:145:ARG:HH22	2.27	0.43
1:0:308:MET:HE2	1:0:359:LEU:HD22	2.00	0.43
1:1:301:ARG:HH21	1:1:304:GLU:CD	2.26	0.43
1:a:171:ILE:N	1:a:171:ILE:HD12	2.33	0.43
1:K:577:MET:HE3	1:L:655:ARG:HB2	1.99	0.43
1:V:353:HIS:HA	1:V:354:PRO:HD3	1.71	0.43
1:j:480:VAL:HG11	1:j:504:ILE:HD11	2.00	0.43
1:l:311:VAL:HG13	1:l:322:TYR:CE2	2.54	0.43
1:o:451:TYR:CD1	1:q:492:LEU:HD12	2.53	0.43
1:u:584:ILE:HD13	1:u:584:ILE:HG21	1.79	0.43
1:g:429:PHE:HB2	1:g:538:HIS:CE1	2.54	0.43
1:n:441:GLU:H	1:n:449:ARG:NH1	2.17	0.43
1:t:316:TYR:HA	1:t:317:PRO:HD3	1.89	0.43
1:M:263:VAL:HG22	1:M:292:ILE:HG13	2.01	0.43
1:0:322:TYR:HE2	1:0:363:GLY:HA3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:114:GLN:H	1:p:114:GLN:CD	2.26	0.43
1:x:112:VAL:HG23	1:x:698:ARG:HB3	1.99	0.43
1:x:390:GLU:CD	1:x:703:ARG:HH12	2.27	0.43
1:d:301:ARG:HH21	1:d:304:GLU:CD	2.27	0.43
1:q:262:VAL:HG13	1:q:275:ALA:HB1	2.01	0.43
1:F:419:MET:HE2	1:F:420:PHE:CE2	2.54	0.43
1:I:187:GLU:CD	1:I:336:ARG:HH21	2.27	0.43
1:J:504:ILE:N	1:J:504:ILE:HD12	2.34	0.43
1:N:180:LEU:HB2	1:N:186:VAL:HG22	2.01	0.43
1:S:520:LEU:HD21	1:S:565:GLU:HB2	2.01	0.43
1:f:344:LYS:HA	1:f:347:ILE:HG22	2.00	0.42
1:o:645:ILE:HB	1:o:646:PRO:HD3	2.01	0.42
1:u:180:LEU:HD22	1:u:189:GLU:HG3	2.01	0.42
1:F:365:ALA:HB1	1:F:367:VAL:HG22	2.00	0.42
1:S:520:LEU:CD2	1:S:565:GLU:HB2	2.49	0.42
1:7:157:LEU:HD23	1:7:157:LEU:HA	1.82	0.42
1:h:238:PRO:HA	1:h:239:ARG:HA	1.82	0.42
1:i:123:VAL:HG21	1:i:135:LEU:HD21	2.01	0.42
1:F:121:ILE:HD12	1:F:221:LEU:HD11	2.00	0.42
1:Y:197:MET:HG3	1:Y:209:ILE:HD11	2.01	0.42
1:8:253:ILE:HG13	1:8:282:VAL:HG11	2.01	0.42
1:h:397:HIS:CD2	1:h:696:ILE:HD11	2.54	0.42
1:k:476:ILE:HD13	1:k:630:LEU:CD2	2.50	0.42
1:p:339:LEU:HD12	1:p:339:LEU:H	1.83	0.42
1:w:266:CYS:HA	1:w:293:LEU:HD22	2.01	0.42
1:y:532:ILE:HD13	1:y:553:ILE:HD12	2.00	0.42
1:P:445:GLU:CD	1:P:445:GLU:H	2.26	0.42
1:U:126:ASP:CG	1:U:231:ARG:HH21	2.27	0.42
1:Y:549:VAL:HG22	1:Y:665:MET:HE1	2.01	0.42
1:a:141:VAL:HG22	1:a:336:ARG:HD2	2.02	0.42
1:b:437:VAL:HG21	1:b:658:GLY:HA3	2.02	0.42
1:e:108:ARG:HG2	1:e:118:LEU:HD12	2.00	0.42
1:g:332:GLU:HA	1:g:337:LEU:HD12	2.01	0.42
1:x:159:LEU:N	1:x:159:LEU:HD12	2.35	0.42
1:y:410:ASP:HA	1:y:421:PHE:CZ	2.54	0.42
1:R:498:TYR:O	1:R:501:PHE:HB3	2.19	0.42
1:4:156:VAL:HB	1:4:210:SER:HA	2.00	0.42
1:a:234:VAL:HG12	1:a:236:ASN:H	1.84	0.42
1:a:322:TYR:CZ	1:a:363:GLY:HA3	2.54	0.42
1:q:115:ASP:CG	1:q:251:LYS:HZ1	2.28	0.42
1:s:97:VAL:HG23	1:s:98:ARG:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:211:LEU:HA	1:s:211:LEU:HD12	1.85	0.42
1:z:239:ARG:N	1:z:240:ASP:HA	2.35	0.42
1:L:204:ILE:HD13	1:L:204:ILE:HA	1.93	0.42
1:M:476:ILE:HD11	1:M:626:ILE:HG22	2.01	0.42
1:O:261:LEU:HD12	1:O:261:LEU:HA	1.87	0.42
1:W:473:LYS:HA	1:W:476:ILE:HG22	2.00	0.42
1:6:480:VAL:HA	1:6:483:TYR:HB3	2.02	0.42
1:c:116:LEU:O	1:c:255:ARG:NH1	2.52	0.42
1:z:293:LEU:HD13	1:z:308:MET:HE1	2.02	0.42
1:E:159:LEU:HD22	1:E:218:VAL:HG11	2.02	0.42
1:K:94:GLU:CD	1:K:98:ARG:HH22	2.27	0.42
1:Q:270:ILE:HG22	1:Q:276:LEU:HD22	2.01	0.42
1:U:293:LEU:HD11	1:U:311:VAL:HG11	2.01	0.42
1:X:299:MET:HE1	1:X:308:MET:HG3	2.01	0.42
1:3:296:PRO:HA	1:3:299:MET:HE2	2.01	0.42
1:E:274:GLU:CD	1:E:274:GLU:H	2.27	0.42
1:0:461:TRP:CH2	1:0:512:LEU:HD22	2.55	0.42
1:3:318:LEU:HD12	1:3:322:TYR:CE1	2.55	0.42
1:9:350:PHE:HA	1:9:356:PHE:CD1	2.55	0.42
1:a:483:TYR:HA	1:a:487:TYR:HB2	2.02	0.42
1:u:280:HIS:CE1	1:u:317:PRO:HG3	2.55	0.42
1:M:156:VAL:HG23	1:M:208:LEU:HD11	2.01	0.42
1:M:681:GLU:CD	1:M:689:ARG:HH22	2.27	0.42
1:N:138:LEU:HD13	1:N:371:ALA:HB2	2.02	0.42
1:V:657:ASN:C	1:V:657:ASN:HD22	2.28	0.42
1:W:567:MET:SD	1:W:570:LEU:HD23	2.60	0.42
1:6:199:GLY:O	1:6:200:ASN:HB2	2.18	0.42
1:a:581:GLN:CD	1:a:581:GLN:H	2.28	0.42
1:t:437:VAL:HG21	1:t:658:GLY:HA3	2.02	0.42
1:F:307:VAL:HA	1:F:310:VAL:HG22	2.02	0.42
1:K:262:VAL:HG13	1:K:275:ALA:HB1	2.02	0.42
1:Y:104:ILE:HG13	1:Y:382:ILE:HG12	2.01	0.42
1:Y:104:ILE:HG22	1:Y:108:ARG:HE	1.84	0.42
1:O:180:LEU:HD22	1:O:189:GLU:HG3	2.02	0.41
1:5:587:VAL:HG13	1:5:635:LEU:HD23	2.02	0.41
1:R:264:VAL:HG23	1:R:293:LEU:HD23	2.02	0.41
1:Y:261:LEU:HD12	1:Y:261:LEU:HA	1.91	0.41
1:j:520:LEU:HD22	1:j:568:ILE:HD12	2.02	0.41
1:k:501:PHE:CZ	1:k:630:LEU:HA	2.56	0.41
1:o:267:ASN:HB3	1:o:304:GLU:HG2	2.02	0.41
1:q:473:LYS:HA	1:q:476:ILE:HG22	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:410:ASP:CG	1:v:690:ARG:HH22	2.28	0.41
1:w:250:LYS:HA	1:w:253:ILE:HG12	2.02	0.41
1:x:495:PHE:CE1	1:y:496:VAL:HB	2.56	0.41
1:5:192:LYS:O	1:5:196:VAL:HG23	2.20	0.41
1:f:100:CYS:HB3	1:f:382:ILE:HG21	2.02	0.41
1:j:654:LEU:HA	1:j:654:LEU:HD12	1.82	0.41
1:l:311:VAL:CG1	1:l:322:TYR:CD2	3.04	0.41
1:m:267:ASN:HB3	1:m:299:MET:HB3	2.03	0.41
1:B:391:GLY:HA2	1:B:394:ARG:CZ	2.51	0.41
1:O:248:LEU:C	1:O:248:LEU:HD13	2.45	0.41
1:V:369:ARG:HD2	1:V:372:GLU:OE1	2.20	0.41
1:4:651:TYR:CG	1:5:574:MET:HG2	2.56	0.41
1:b:170:ARG:NH1	1:b:193:ALA:HB2	2.36	0.41
1:b:226:LEU:HD13	1:b:249:ILE:HG12	2.02	0.41
1:l:545:LEU:O	1:l:549:VAL:HG23	2.20	0.41
1:n:311:VAL:HA	1:n:315:THR:HG22	2.02	0.41
1:z:182:ASP:O	1:z:185:GLN:HB2	2.20	0.41
1:C:116:LEU:HD23	1:C:116:LEU:HA	1.98	0.41
1:R:264:VAL:CG2	1:R:293:LEU:HD23	2.51	0.41
1:U:301:ARG:HH21	1:U:304:GLU:CD	2.28	0.41
1:3:180:LEU:C	1:3:182:ASP:H	2.28	0.41
1:6:320:LYS:HD3	1:6:320:LYS:HA	1.97	0.41
1:8:414:GLN:O	1:8:417:ASP:HB2	2.21	0.41
1:g:190:ILE:HG21	1:g:211:LEU:HD22	2.03	0.41
1:q:301:ARG:HH21	1:q:304:GLU:CD	2.27	0.41
1:r:276:LEU:HD12	1:r:276:LEU:HA	1.86	0.41
1:u:539:PHE:CE1	1:u:549:VAL:HG21	2.56	0.41
1:J:592:VAL:HG12	1:J:597:PHE:CZ	2.56	0.41
1:K:113:GLU:H	1:K:113:GLU:CD	2.28	0.41
1:R:581:GLN:HG2	1:R:582:ASP:H	1.84	0.41
1:Z:349:PHE:CE1	1:Z:353:HIS:HE1	2.38	0.41
1:1:468:ASN:HD22	1:1:512:LEU:HD23	1.85	0.41
1:7:123:VAL:HG22	1:7:261:LEU:HD23	2.03	0.41
1:9:672:LYS:HA	1:9:672:LYS:HD3	1.85	0.41
1:o:318:LEU:HD23	1:o:318:LEU:H	1.86	0.41
1:p:489:GLY:HA2	1:p:493:LEU:HD13	2.03	0.41
1:x:248:LEU:HD23	1:x:248:LEU:C	2.46	0.41
1:L:231:ARG:NH2	1:L:273:THR:HG23	2.36	0.41
1:N:624:THR:O	1:N:628:ILE:HG22	2.21	0.41
1:P:291:GLY:HA3	1:P:322:TYR:CD2	2.56	0.41
1:Q:519:MET:HE2	1:Q:519:MET:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:568:ILE:HD13	1:Q:568:ILE:HA	1.97	0.41
1:f:492:LEU:HB2	1:g:498:TYR:CD1	2.56	0.41
1:g:310:VAL:HG13	1:g:315:THR:HB	2.02	0.41
1:n:323:MET:HG3	1:n:370:LEU:HD13	2.03	0.41
1:x:191:HIS:CE1	1:x:195:ASN:HD21	2.38	0.41
1:y:113:GLU:CD	1:y:698:ARG:HH12	2.28	0.41
1:y:171:ILE:HG22	1:y:172:SER:O	2.21	0.41
1:H:411:ILE:H	1:H:412:PRO:HD2	1.86	0.41
1:N:591:LYS:HD3	1:N:628:ILE:HG13	2.02	0.41
1:V:476:ILE:HD12	1:V:504:ILE:HG13	2.02	0.41
1:O:436:LEU:HD21	1:O:530:ALA:HB1	2.02	0.41
1:O:672:LYS:HB3	1:3:704:HIS:CE1	2.56	0.41
1:c:259:ILE:CD1	1:c:378:LEU:HA	2.50	0.41
1:d:326:LYS:HE2	1:d:349:PHE:CE1	2.54	0.41
1:e:103:LEU:HD22	1:e:709:PHE:CD2	2.56	0.41
1:g:182:ASP:HA	1:g:183:PRO:HD3	1.93	0.41
1:n:114:GLN:OE1	1:n:114:GLN:HA	2.20	0.41
1:p:409:ALA:HA	1:p:410:ASP:C	2.45	0.41
1:q:143:LEU:HD12	1:q:144:PRO:HD2	2.02	0.41
1:s:104:ILE:HD13	1:s:107:LEU:HD12	2.02	0.41
1:s:492:LEU:HD12	1:s:492:LEU:HA	1.97	0.41
1:t:111:GLY:HA2	1:t:112:VAL:HB	2.02	0.41
1:x:111:GLY:CA	1:x:112:VAL:HB	2.51	0.41
1:x:238:PRO:HA	1:x:239:ARG:HA	1.92	0.41
1:E:108:ARG:HG2	1:E:118:LEU:HD22	2.03	0.41
1:F:179:GLU:H	1:F:179:GLU:CD	2.27	0.41
1:F:410:ASP:N	1:F:411:ILE:HA	2.36	0.41
1:T:299:MET:SD	1:T:305:LYS:HA	2.61	0.41
1:W:579:PHE:CE2	1:X:646:PRO:HB2	2.56	0.41
1:X:564:ALA:HA	1:X:652:PHE:CD2	2.56	0.41
1:Z:150:VAL:HG13	1:Z:151:THR:H	1.85	0.41
1:f:259:ILE:HG12	1:f:381:HIS:CE1	2.55	0.41
1:h:465:LEU:CD1	1:h:642:ALA:HB2	2.51	0.41
1:p:131:LYS:NZ	1:p:225:ASP:OD2	2.54	0.41
1:r:245:ILE:HG22	1:r:249:ILE:HD12	2.03	0.41
1:u:296:PRO:HB3	1:u:324:ILE:HD11	2.03	0.41
1:z:103:LEU:HD22	1:z:709:PHE:CG	2.56	0.41
1:A:545:LEU:HA	1:A:678:LEU:HD22	2.03	0.41
1:G:237:GLN:C	1:G:239:ARG:H	2.29	0.41
1:3:123:VAL:HG22	1:3:261:LEU:HD23	2.03	0.40
1:6:113:GLU:H	1:6:113:GLU:CD	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:437:VAL:HG21	1:7:658:GLY:HA3	2.03	0.40
1:c:262:VAL:HG12	1:c:264:VAL:HG23	2.02	0.40
1:C:704:HIS:CE1	1:C:708:GLN:HE21	2.40	0.40
1:F:450:LEU:HD11	1:F:527:ILE:HA	2.03	0.40
1:1:496:VAL:H	1:1:496:VAL:HG22	1.69	0.40
1:c:577:MET:HE3	1:c:577:MET:HB2	1.90	0.40
1:d:484:GLU:HA	1:d:484:GLU:OE1	2.21	0.40
1:f:441:GLU:H	1:f:449:ARG:NH1	2.19	0.40
1:l:308:MET:HE1	1:l:324:ILE:HD13	2.03	0.40
1:u:657:ASN:C	1:u:657:ASN:HD22	2.29	0.40
1:x:291:GLY:O	1:x:322:TYR:HA	2.20	0.40
1:I:264:VAL:HG11	1:I:270:ILE:CG1	2.52	0.40
1:N:347:ILE:HD12	1:N:366:THR:HB	2.03	0.40
1:S:273:THR:HG23	1:S:276:LEU:H	1.86	0.40
1:T:425:LYS:HA	1:T:425:LYS:HD3	1.92	0.40
1:W:431:GLN:O	1:W:435:LYS:HB2	2.21	0.40
1:Y:143:LEU:HA	1:Y:144:PRO:HD3	1.88	0.40
1:3:403:GLU:CD	1:3:406:ARG:HH12	2.27	0.40
1:i:280:HIS:CE1	1:i:284:PRO:HA	2.57	0.40
1:j:111:GLY:CA	1:j:112:VAL:HB	2.52	0.40
1:k:473:LYS:HA	1:k:476:ILE:HG22	2.03	0.40
1:n:183:PRO:HA	1:n:186:VAL:CG2	2.51	0.40
1:o:494:GLY:CA	1:o:495:PHE:HB2	2.52	0.40
1:o:514:GLU:HB2	1:o:515:PRO:HD3	2.03	0.40
1:p:682:GLN:N	1:p:683:SER:HA	2.35	0.40
1:t:347:ILE:O	1:t:351:GLN:HG2	2.21	0.40
1:F:581:GLN:CD	1:F:581:GLN:H	2.30	0.40
1:M:136:GLU:HG2	1:M:142:ALA:H	1.86	0.40
1:N:180:LEU:HD22	1:N:180:LEU:H	1.87	0.40
1:O:108:ARG:HH12	1:O:222:THR:HG21	1.86	0.40
1:O:453:LYS:HA	1:O:453:LYS:HD2	1.74	0.40
1:0:376:THR:O	1:0:379:ILE:HG22	2.21	0.40
1:1:328:ARG:HH22	1:1:332:GLU:CD	2.30	0.40
1:7:450:LEU:HD23	1:7:450:LEU:HA	1.92	0.40
1:d:145:ARG:HH21	1:d:332:GLU:CD	2.28	0.40
1:r:104:ILE:HG13	1:r:382:ILE:HG12	2.03	0.40
1:w:170:ARG:HG3	1:w:180:LEU:HD11	2.04	0.40
1:B:682:GLN:N	1:B:683:SER:HA	2.37	0.40
1:C:444:ARG:HH21	1:C:447:GLU:CD	2.30	0.40
1:C:581:GLN:O	1:C:584:ILE:HG22	2.22	0.40
1:G:241:ILE:HD12	1:G:241:ILE:HA	1.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:409:ALA:HB1	1:N:410:ASP:HA	2.03	0.40
1:P:136:GLU:HG3	1:P:141:VAL:HA	2.02	0.40
1:W:493:LEU:HB3	1:W:494:GLY:H	1.71	0.40
1:Y:346:GLU:CD	1:Y:369:ARG:HH12	2.29	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	0	592/619 (96%)	556 (94%)	30 (5%)	6 (1%)	12	47
1	1	592/619 (96%)	556 (94%)	27 (5%)	9 (2%)	8	38
1	2	592/619 (96%)	555 (94%)	33 (6%)	4 (1%)	18	55
1	3	592/619 (96%)	561 (95%)	27 (5%)	4 (1%)	18	55
1	4	592/619 (96%)	554 (94%)	27 (5%)	11 (2%)	6	32
1	5	592/619 (96%)	541 (91%)	38 (6%)	13 (2%)	5	29
1	6	592/619 (96%)	550 (93%)	34 (6%)	8 (1%)	9	39
1	7	592/619 (96%)	550 (93%)	34 (6%)	8 (1%)	9	39
1	8	592/619 (96%)	554 (94%)	31 (5%)	7 (1%)	10	42
1	9	592/619 (96%)	550 (93%)	36 (6%)	6 (1%)	12	47
1	A	592/619 (96%)	547 (92%)	33 (6%)	12 (2%)	6	31
1	B	592/619 (96%)	553 (93%)	31 (5%)	8 (1%)	9	39
1	C	592/619 (96%)	546 (92%)	36 (6%)	10 (2%)	7	35
1	D	592/619 (96%)	542 (92%)	40 (7%)	10 (2%)	7	35
1	E	592/619 (96%)	555 (94%)	29 (5%)	8 (1%)	9	39
1	F	592/619 (96%)	551 (93%)	29 (5%)	12 (2%)	6	31

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	G	592/619 (96%)	551 (93%)	31 (5%)	10 (2%)	7	35
1	H	592/619 (96%)	551 (93%)	32 (5%)	9 (2%)	8	38
1	I	592/619 (96%)	546 (92%)	37 (6%)	9 (2%)	8	38
1	J	592/619 (96%)	549 (93%)	33 (6%)	10 (2%)	7	35
1	K	592/619 (96%)	549 (93%)	30 (5%)	13 (2%)	5	29
1	L	592/619 (96%)	547 (92%)	33 (6%)	12 (2%)	6	31
1	M	592/619 (96%)	553 (93%)	34 (6%)	5 (1%)	16	53
1	N	592/619 (96%)	552 (93%)	33 (6%)	7 (1%)	10	42
1	O	592/619 (96%)	551 (93%)	35 (6%)	6 (1%)	12	47
1	P	592/619 (96%)	552 (93%)	31 (5%)	9 (2%)	8	38
1	Q	592/619 (96%)	547 (92%)	38 (6%)	7 (1%)	10	42
1	R	592/619 (96%)	552 (93%)	35 (6%)	5 (1%)	16	53
1	S	592/619 (96%)	545 (92%)	36 (6%)	11 (2%)	6	32
1	T	592/619 (96%)	549 (93%)	36 (6%)	7 (1%)	10	42
1	U	592/619 (96%)	547 (92%)	35 (6%)	10 (2%)	7	35
1	V	592/619 (96%)	550 (93%)	36 (6%)	6 (1%)	12	47
1	W	592/619 (96%)	556 (94%)	30 (5%)	6 (1%)	12	47
1	X	592/619 (96%)	550 (93%)	30 (5%)	12 (2%)	6	31
1	Y	592/619 (96%)	550 (93%)	37 (6%)	5 (1%)	16	53
1	Z	592/619 (96%)	550 (93%)	28 (5%)	14 (2%)	4	27
1	a	592/619 (96%)	551 (93%)	35 (6%)	6 (1%)	12	47
1	b	592/619 (96%)	555 (94%)	31 (5%)	6 (1%)	12	47
1	c	592/619 (96%)	554 (94%)	29 (5%)	9 (2%)	8	38
1	d	592/619 (96%)	552 (93%)	31 (5%)	9 (2%)	8	38
1	e	592/619 (96%)	555 (94%)	31 (5%)	6 (1%)	12	47
1	f	592/619 (96%)	548 (93%)	35 (6%)	9 (2%)	8	38
1	g	592/619 (96%)	554 (94%)	29 (5%)	9 (2%)	8	38
1	h	592/619 (96%)	559 (94%)	25 (4%)	8 (1%)	9	39
1	i	592/619 (96%)	558 (94%)	27 (5%)	7 (1%)	10	42
1	j	592/619 (96%)	552 (93%)	29 (5%)	11 (2%)	6	32
1	k	592/619 (96%)	560 (95%)	23 (4%)	9 (2%)	8	38

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	l	592/619 (96%)	557 (94%)	27 (5%)	8 (1%)	9	39
1	m	592/619 (96%)	550 (93%)	35 (6%)	7 (1%)	10	42
1	n	592/619 (96%)	543 (92%)	38 (6%)	11 (2%)	6	32
1	o	592/619 (96%)	550 (93%)	35 (6%)	7 (1%)	10	42
1	p	592/619 (96%)	539 (91%)	39 (7%)	14 (2%)	4	27
1	q	592/619 (96%)	549 (93%)	31 (5%)	12 (2%)	6	31
1	r	592/619 (96%)	555 (94%)	29 (5%)	8 (1%)	9	39
1	s	592/619 (96%)	553 (93%)	36 (6%)	3 (0%)	24	63
1	t	592/619 (96%)	554 (94%)	27 (5%)	11 (2%)	6	32
1	u	592/619 (96%)	561 (95%)	22 (4%)	9 (2%)	8	38
1	v	592/619 (96%)	551 (93%)	33 (6%)	8 (1%)	9	39
1	w	592/619 (96%)	552 (93%)	30 (5%)	10 (2%)	7	35
1	x	592/619 (96%)	558 (94%)	27 (5%)	7 (1%)	10	42
1	y	592/619 (96%)	553 (93%)	32 (5%)	7 (1%)	10	42
1	z	592/619 (96%)	553 (93%)	33 (6%)	6 (1%)	12	47
All	All	36704/38378 (96%)	34194 (93%)	1984 (5%)	526 (1%)	11	39

All (526) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	1	495	PHE
1	4	175	ASN
1	4	414	GLN
1	6	200	ASN
1	8	413	SER
1	8	414	GLN
1	b	441	GLU
1	c	165	GLU
1	e	412	PRO
1	g	314	LEU
1	g	412	PRO
1	i	412	PRO
1	k	114	GLN
1	k	412	PRO
1	m	414	GLN
1	n	149	ILE
1	n	580	CYS

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Mol	Chain	Res	Type
1	o	578	VAL
1	q	328	ARG
1	q	412	PRO
1	r	580	CYS
1	s	412	PRO
1	v	150	VAL
1	w	412	PRO
1	z	120	ALA
1	z	150	VAL
1	A	219	PRO
1	A	239	ARG
1	A	365	ALA
1	A	412	PRO
1	C	444	ARG
1	D	150	VAL
1	E	365	ALA
1	E	412	PRO
1	F	364	SER
1	G	200	ASN
1	G	364	SER
1	I	412	PRO
1	L	493	LEU
1	N	490	LYS
1	P	582	ASP
1	Q	412	PRO
1	Q	682	GLN
1	T	149	ILE
1	T	150	VAL
1	T	175	ASN
1	U	443	VAL
1	U	492	LEU
1	W	412	PRO
1	X	200	ASN
1	Z	364	SER
1	0	146	GLY
1	1	150	VAL
1	1	365	ALA
1	1	494	GLY
1	2	328	ARG
1	4	494	GLY
1	5	150	VAL
1	6	314	LEU

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Mol	Chain	Res	Type
1	8	364	SER
1	9	365	ALA
1	9	444	ARG
1	a	181	GLN
1	a	221	LEU
1	a	412	PRO
1	a	585	TYR
1	b	165	GLU
1	c	200	ASN
1	c	412	PRO
1	c	441	GLU
1	d	141	VAL
1	e	146	GLY
1	f	149	ILE
1	f	150	VAL
1	f	364	SER
1	f	583	GLN
1	g	365	ALA
1	h	445	GLU
1	h	582	ASP
1	i	495	PHE
1	j	314	LEU
1	k	364	SER
1	l	231	ARG
1	l	300	ASP
1	m	328	ARG
1	n	165	GLU
1	n	175	ASN
1	n	235	ASP
1	o	300	ASP
1	p	150	VAL
1	p	494	GLY
1	q	114	GLN
1	q	495	PHE
1	q	578	VAL
1	r	321	GLY
1	s	175	ASN
1	t	112	VAL
1	t	317	PRO
1	u	338	SER
1	u	414	GLN
1	v	476	ILE

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Mol	Chain	Res	Type
1	v	581	GLN
1	w	204	ILE
1	x	183	PRO
1	y	240	ASP
1	z	314	LEU
1	A	240	ASP
1	A	495	PHE
1	B	150	VAL
1	B	364	SER
1	C	146	GLY
1	C	175	ASN
1	C	364	SER
1	D	675	TYR
1	E	165	GLU
1	E	495	PHE
1	G	300	ASP
1	H	300	ASP
1	H	494	GLY
1	H	580	CYS
1	H	581	GLN
1	I	219	PRO
1	I	495	PHE
1	J	314	LEU
1	J	494	GLY
1	K	364	SER
1	K	410	ASP
1	K	412	PRO
1	L	120	ALA
1	L	149	ILE
1	L	581	GLN
1	L	680	GLN
1	M	408	GLY
1	M	495	PHE
1	N	150	VAL
1	N	165	GLU
1	O	165	GLU
1	O	175	ASN
1	O	412	PRO
1	P	147	SER
1	P	314	LEU
1	P	486	GLN
1	Q	496	VAL

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Mol	Chain	Res	Type
1	R	112	VAL
1	R	150	VAL
1	S	181	GLN
1	S	328	ARG
1	S	364	SER
1	S	414	GLN
1	S	495	PHE
1	S	580	CYS
1	U	364	SER
1	U	580	CYS
1	X	231	ARG
1	X	493	LEU
1	Z	141	VAL
1	Z	150	VAL
1	Z	164	CYS
1	Z	314	LEU
1	Z	332	GLU
1	0	240	ASP
1	1	105	ASP
1	1	131	LYS
1	1	231	ARG
1	2	364	SER
1	3	150	VAL
1	4	412	PRO
1	5	112	VAL
1	5	495	PHE
1	6	148	GLY
1	6	175	ASN
1	7	231	ARG
1	7	364	SER
1	7	493	LEU
1	a	300	ASP
1	c	328	ARG
1	d	120	ALA
1	d	150	VAL
1	e	495	PHE
1	f	495	PHE
1	g	164	CYS
1	g	300	ASP
1	h	231	ARG
1	i	321	GLY
1	j	112	VAL

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Mol	Chain	Res	Type
1	j	127	GLN
1	j	441	GLU
1	l	181	GLN
1	m	165	GLU
1	m	580	CYS
1	m	581	GLN
1	n	200	ASN
1	n	314	LEU
1	o	414	GLN
1	p	235	ASP
1	p	314	LEU
1	q	235	ASP
1	s	446	ASN
1	t	166	ALA
1	t	314	LEU
1	u	364	SER
1	u	412	PRO
1	v	181	GLN
1	v	314	LEU
1	v	409	ALA
1	w	300	ASP
1	y	181	GLN
1	y	299	MET
1	z	411	ILE
1	z	417	ASP
1	A	200	ASN
1	A	368	PRO
1	B	300	ASP
1	C	200	ASN
1	C	321	GLY
1	C	495	PHE
1	E	493	LEU
1	F	111	GLY
1	F	486	GLN
1	G	493	LEU
1	G	495	PHE
1	H	165	GLU
1	H	236	ASN
1	I	235	ASP
1	I	240	ASP
1	I	273	THR
1	I	368	PRO

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Mol	Chain	Res	Type
1	J	150	VAL
1	J	181	GLN
1	J	441	GLU
1	K	221	LEU
1	K	328	ARG
1	K	581	GLN
1	L	150	VAL
1	L	409	ALA
1	L	495	PHE
1	L	679	LEU
1	M	329	GLY
1	N	115	ASP
1	N	314	LEU
1	Q	328	ARG
1	S	165	GLU
1	T	231	ARG
1	T	364	SER
1	T	446	ASN
1	U	175	ASN
1	U	221	LEU
1	U	300	ASP
1	V	165	GLU
1	V	314	LEU
1	V	365	ALA
1	V	495	PHE
1	W	235	ASP
1	W	651	TYR
1	X	337	LEU
1	X	409	ALA
1	Z	495	PHE
1	0	492	LEU
1	1	441	GLU
1	2	227	PRO
1	2	338	SER
1	4	364	SER
1	5	99	PRO
1	5	165	GLU
1	7	492	LEU
1	7	581	GLN
1	8	146	GLY
1	8	328	ARG
1	8	354	PRO

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Mol	Chain	Res	Type
1	b	150	VAL
1	b	231	ARG
1	c	144	PRO
1	d	165	GLU
1	e	235	ASP
1	e	338	SER
1	f	492	LEU
1	g	118	LEU
1	h	118	LEU
1	i	219	PRO
1	i	328	ARG
1	i	492	LEU
1	j	150	VAL
1	j	231	ARG
1	j	365	ALA
1	k	120	ALA
1	k	328	ARG
1	k	411	ILE
1	k	495	PHE
1	l	409	ALA
1	l	495	PHE
1	m	364	SER
1	p	118	LEU
1	p	284	PRO
1	p	300	ASP
1	q	181	GLN
1	q	411	ILE
1	q	491	GLU
1	r	112	VAL
1	r	150	VAL
1	r	581	GLN
1	t	126	ASP
1	t	581	GLN
1	u	139	SER
1	u	328	ARG
1	u	495	PHE
1	w	411	ILE
1	w	491	GLU
1	z	492	LEU
1	A	118	LEU
1	A	328	ARG
1	B	154	PRO

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Mol	Chain	Res	Type
1	B	231	ARG
1	C	577	MET
1	D	200	ASN
1	D	231	ARG
1	D	314	LEU
1	D	495	PHE
1	E	288	ARG
1	F	238	PRO
1	G	446	ASN
1	J	231	ARG
1	K	119	PRO
1	K	200	ASN
1	K	314	LEU
1	K	492	LEU
1	K	624	THR
1	L	231	ARG
1	N	118	LEU
1	O	200	ASN
1	P	495	PHE
1	Q	175	ASN
1	R	181	GLN
1	R	300	ASP
1	U	200	ASN
1	U	219	PRO
1	V	150	VAL
1	W	495	PHE
1	X	150	VAL
1	X	494	GLY
1	X	681	GLU
1	Z	181	GLN
1	Z	321	GLY
1	Z	365	ALA
1	0	139	SER
1	0	314	LEU
1	1	581	GLN
1	4	118	LEU
1	4	146	GLY
1	4	495	PHE
1	5	492	LEU
1	5	655	ARG
1	6	655	ARG
1	7	481	GLU

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Mol	Chain	Res	Type
1	9	219	PRO
1	9	493	LEU
1	9	580	CYS
1	c	300	ASP
1	d	178	LEU
1	d	300	ASP
1	d	495	PHE
1	e	446	ASN
1	g	200	ASN
1	g	328	ARG
1	g	411	ILE
1	h	112	VAL
1	h	150	VAL
1	h	300	ASP
1	j	144	PRO
1	n	119	PRO
1	n	127	GLN
1	n	150	VAL
1	o	118	LEU
1	o	181	GLN
1	p	149	ILE
1	p	317	PRO
1	p	368	PRO
1	p	409	ALA
1	q	175	ASN
1	q	318	LEU
1	q	364	SER
1	r	118	LEU
1	r	365	ALA
1	t	493	LEU
1	u	413	SER
1	v	231	ARG
1	w	120	ALA
1	w	144	PRO
1	w	328	ARG
1	w	495	PHE
1	x	112	VAL
1	x	576	GLN
1	y	493	LEU
1	A	140	GLY
1	B	166	ALA
1	B	495	PHE

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Mol	Chain	Res	Type
1	C	328	ARG
1	E	413	SER
1	F	181	GLN
1	F	183	PRO
1	F	365	ALA
1	G	492	LEU
1	G	583	GLN
1	H	112	VAL
1	H	150	VAL
1	I	295	LYS
1	J	578	VAL
1	K	175	ASN
1	K	495	PHE
1	N	284	PRO
1	P	149	ILE
1	P	150	VAL
1	P	441	GLU
1	S	492	LEU
1	V	181	GLN
1	W	493	LEU
1	X	181	GLN
1	X	495	PHE
1	Y	328	ARG
1	Y	495	PHE
1	Y	655	ARG
1	Z	118	LEU
1	3	486	GLN
1	4	411	ILE
1	5	283	ASP
1	5	364	SER
1	5	649	ILE
1	6	227	PRO
1	6	408	GLY
1	7	411	ILE
1	9	150	VAL
1	b	112	VAL
1	c	118	LEU
1	d	365	ALA
1	f	365	ALA
1	h	411	ILE
1	j	364	SER
1	j	495	PHE

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Mol	Chain	Res	Type
1	k	165	GLU
1	k	265	PRO
1	l	150	VAL
1	n	115	ASP
1	o	412	PRO
1	p	578	VAL
1	p	581	GLN
1	r	219	PRO
1	t	446	ASN
1	t	553	ILE
1	u	200	ASN
1	w	146	GLY
1	x	227	PRO
1	y	314	LEU
1	y	328	ARG
1	y	443	VAL
1	A	411	ILE
1	C	187	GLU
1	D	149	ILE
1	D	151	THR
1	F	112	VAL
1	F	300	ASP
1	F	409	ALA
1	G	284	PRO
1	G	328	ARG
1	H	118	LEU
1	J	580	CYS
1	M	596	ILE
1	R	227	PRO
1	S	154	PRO
1	T	447	GLU
1	W	175	ASN
1	X	115	ASP
1	X	269	ASP
1	Z	131	LYS
1	Z	200	ASN
1	Z	582	ASP
1	3	317	PRO
1	f	154	PRO
1	f	284	PRO
1	v	227	PRO
1	x	186	VAL

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Mol	Chain	Res	Type
1	I	163	PRO
1	J	154	PRO
1	L	317	PRO
1	Q	408	GLY
1	Q	411	ILE
1	S	118	LEU
1	Y	494	GLY
1	4	408	GLY
1	5	219	PRO
1	a	229	ILE
1	b	99	PRO
1	d	408	GLY
1	l	149	ILE
1	B	227	PRO
1	D	496	VAL
1	F	284	PRO
1	L	203	GLY
1	P	227	PRO
1	U	144	PRO
1	0	442	VAL
1	4	229	ILE
1	5	149	ILE
1	8	412	PRO
1	j	317	PRO
1	o	411	ILE
1	p	112	VAL
1	t	150	VAL
1	x	119	PRO
1	x	411	ILE
1	F	358	VAL
1	O	408	GLY
1	S	149	ILE
1	3	119	PRO
1	5	592	VAL
1	6	118	LEU
1	c	154	PRO
1	l	494	GLY
1	m	144	PRO
1	t	411	ILE
1	D	321	GLY
1	E	411	ILE
1	J	368	PRO

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Mol	Chain	Res	Type
1	M	163	PRO
1	O	411	ILE
1	Y	354	PRO
1	7	112	VAL
1	i	144	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0	533/555 (96%)	513 (96%)	20 (4%)	29	51
1	1	533/555 (96%)	515 (97%)	18 (3%)	32	54
1	2	533/555 (96%)	516 (97%)	17 (3%)	34	55
1	3	533/555 (96%)	519 (97%)	14 (3%)	40	60
1	4	533/555 (96%)	510 (96%)	23 (4%)	26	47
1	5	533/555 (96%)	516 (97%)	17 (3%)	34	55
1	6	533/555 (96%)	518 (97%)	15 (3%)	38	59
1	7	533/555 (96%)	513 (96%)	20 (4%)	29	51
1	8	533/555 (96%)	515 (97%)	18 (3%)	32	54
1	9	533/555 (96%)	512 (96%)	21 (4%)	28	49
1	A	533/555 (96%)	517 (97%)	16 (3%)	36	57
1	B	533/555 (96%)	510 (96%)	23 (4%)	26	47
1	C	533/555 (96%)	519 (97%)	14 (3%)	40	60
1	D	533/555 (96%)	516 (97%)	17 (3%)	34	55
1	E	533/555 (96%)	513 (96%)	20 (4%)	29	51
1	F	533/555 (96%)	510 (96%)	23 (4%)	26	47
1	G	533/555 (96%)	520 (98%)	13 (2%)	43	63
1	H	533/555 (96%)	521 (98%)	12 (2%)	44	63
1	I	533/555 (96%)	523 (98%)	10 (2%)	50	66
1	J	533/555 (96%)	520 (98%)	13 (2%)	43	63

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	K	533/555 (96%)	517 (97%)	16 (3%)	36	57
1	L	533/555 (96%)	520 (98%)	13 (2%)	43	63
1	M	533/555 (96%)	516 (97%)	17 (3%)	34	55
1	N	533/555 (96%)	522 (98%)	11 (2%)	47	65
1	O	533/555 (96%)	519 (97%)	14 (3%)	40	60
1	P	533/555 (96%)	518 (97%)	15 (3%)	38	59
1	Q	533/555 (96%)	517 (97%)	16 (3%)	36	57
1	R	533/555 (96%)	518 (97%)	15 (3%)	38	59
1	S	533/555 (96%)	518 (97%)	15 (3%)	38	59
1	T	533/555 (96%)	515 (97%)	18 (3%)	32	54
1	U	533/555 (96%)	516 (97%)	17 (3%)	34	55
1	V	533/555 (96%)	515 (97%)	18 (3%)	32	54
1	W	533/555 (96%)	516 (97%)	17 (3%)	34	55
1	X	533/555 (96%)	518 (97%)	15 (3%)	38	59
1	Y	533/555 (96%)	516 (97%)	17 (3%)	34	55
1	Z	533/555 (96%)	516 (97%)	17 (3%)	34	55
1	a	533/555 (96%)	520 (98%)	13 (2%)	43	63
1	b	533/555 (96%)	513 (96%)	20 (4%)	29	51
1	c	533/555 (96%)	522 (98%)	11 (2%)	47	65
1	d	533/555 (96%)	510 (96%)	23 (4%)	26	47
1	e	533/555 (96%)	513 (96%)	20 (4%)	29	51
1	f	533/555 (96%)	516 (97%)	17 (3%)	34	55
1	g	533/555 (96%)	513 (96%)	20 (4%)	29	51
1	h	533/555 (96%)	513 (96%)	20 (4%)	29	51
1	i	533/555 (96%)	514 (96%)	19 (4%)	31	52
1	j	533/555 (96%)	519 (97%)	14 (3%)	40	60
1	k	533/555 (96%)	512 (96%)	21 (4%)	28	49
1	l	533/555 (96%)	513 (96%)	20 (4%)	29	51
1	m	533/555 (96%)	523 (98%)	10 (2%)	50	66
1	n	533/555 (96%)	507 (95%)	26 (5%)	22	44
1	o	533/555 (96%)	521 (98%)	12 (2%)	44	63

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	p	533/555 (96%)	521 (98%)	12 (2%)	44	63
1	q	533/555 (96%)	515 (97%)	18 (3%)	32	54
1	r	533/555 (96%)	515 (97%)	18 (3%)	32	54
1	s	533/555 (96%)	521 (98%)	12 (2%)	44	63
1	t	533/555 (96%)	514 (96%)	19 (4%)	31	52
1	u	533/555 (96%)	510 (96%)	23 (4%)	26	47
1	v	533/555 (96%)	514 (96%)	19 (4%)	31	52
1	w	533/555 (96%)	521 (98%)	12 (2%)	44	63
1	x	533/555 (96%)	510 (96%)	23 (4%)	26	47
1	y	533/555 (96%)	521 (98%)	12 (2%)	44	63
1	z	533/555 (96%)	513 (96%)	20 (4%)	29	51
All	All	33046/34410 (96%)	31997 (97%)	1049 (3%)	35	55

All (1049) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	0	113	GLU
1	0	151	THR
1	0	182	ASP
1	0	183	PRO
1	0	227	PRO
1	0	312	ARG
1	0	314	LEU
1	0	366	THR
1	0	378	LEU
1	0	386	LEU
1	0	395	GLU
1	0	401	THR
1	0	404	LEU
1	0	441	GLU
1	0	462	VAL
1	0	470	GLN
1	0	511	GLN
1	0	515	PRO
1	0	581	GLN
1	0	700	THR
1	1	112	VAL
1	1	113	GLU

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Mol	Chain	Res	Type
1	1	171	ILE
1	1	196	VAL
1	1	268	VAL
1	1	272	THR
1	1	315	THR
1	1	333	ILE
1	1	366	THR
1	1	443	VAL
1	1	454	ILE
1	1	486	GLN
1	1	488	ARG
1	1	528	GLN
1	1	529	GLN
1	1	581	GLN
1	1	624	THR
1	1	649	ILE
1	2	113	GLU
1	2	114	GLN
1	2	131	LYS
1	2	163	PRO
1	2	177	GLU
1	2	241	ILE
1	2	265	PRO
1	2	303	THR
1	2	351	GLN
1	2	354	PRO
1	2	360	LEU
1	2	401	THR
1	2	455	ARG
1	2	492	LEU
1	2	581	GLN
1	2	624	THR
1	2	700	THR
1	3	113	GLU
1	3	149	ILE
1	3	151	THR
1	3	190	ILE
1	3	270	ILE
1	3	301	ARG
1	3	347	ILE
1	3	366	THR
1	3	375	THR

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Mol	Chain	Res	Type
1	3	486	GLN
1	3	576	GLN
1	3	581	GLN
1	3	646	PRO
1	3	657	ASN
1	4	95	GLN
1	4	101	ILE
1	4	104	ILE
1	4	113	GLU
1	4	151	THR
1	4	221	LEU
1	4	240	ASP
1	4	258	THR
1	4	270	ILE
1	4	273	THR
1	4	324	ILE
1	4	392	GLN
1	4	401	THR
1	4	424	GLU
1	4	441	GLU
1	4	472	VAL
1	4	483	TYR
1	4	527	ILE
1	4	581	GLN
1	4	584	ILE
1	4	591	LYS
1	4	592	VAL
1	4	645	ILE
1	5	93	TYR
1	5	112	VAL
1	5	113	GLU
1	5	133	SER
1	5	151	THR
1	5	208	LEU
1	5	227	PRO
1	5	249	ILE
1	5	301	ARG
1	5	303	THR
1	5	309	ASN
1	5	339	LEU
1	5	401	THR
1	5	419	MET

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Mol	Chain	Res	Type
1	5	455	ARG
1	5	581	GLN
1	5	588	VAL
1	6	99	PRO
1	6	113	GLU
1	6	126	ASP
1	6	167	TRP
1	6	230	THR
1	6	232	VAL
1	6	269	ASP
1	6	270	ILE
1	6	333	ILE
1	6	351	GLN
1	6	515	PRO
1	6	581	GLN
1	6	624	THR
1	6	626	ILE
1	6	631	ASN
1	7	108	ARG
1	7	112	VAL
1	7	113	GLU
1	7	119	PRO
1	7	131	LYS
1	7	164	CYS
1	7	176	THR
1	7	180	LEU
1	7	221	LEU
1	7	227	PRO
1	7	230	THR
1	7	294	THR
1	7	301	ARG
1	7	324	ILE
1	7	366	THR
1	7	448	THR
1	7	476	ILE
1	7	581	GLN
1	7	591	LYS
1	7	684	GLU
1	8	113	GLU
1	8	150	VAL
1	8	221	LEU
1	8	227	PRO

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Mol	Chain	Res	Type
1	8	244	GLN
1	8	257	GLN
1	8	272	THR
1	8	323	MET
1	8	351	GLN
1	8	388	LEU
1	8	423	ILE
1	8	454	ILE
1	8	462	VAL
1	8	578	VAL
1	8	581	GLN
1	8	587	VAL
1	8	646	PRO
1	8	700	THR
1	9	95	GLN
1	9	112	VAL
1	9	113	GLU
1	9	123	VAL
1	9	170	ARG
1	9	214	THR
1	9	245	ILE
1	9	269	ASP
1	9	290	ILE
1	9	300	ASP
1	9	301	ARG
1	9	308	MET
1	9	377	GLU
1	9	415	GLU
1	9	419	MET
1	9	441	GLU
1	9	510	GLN
1	9	528	GLN
1	9	581	GLN
1	9	646	PRO
1	9	670	GLN
1	a	119	PRO
1	a	153	CYS
1	a	165	GLU
1	a	176	THR
1	a	221	LEU
1	a	308	MET
1	a	373	ARG

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Mol	Chain	Res	Type
1	a	412	PRO
1	a	415	GLU
1	a	444	ARG
1	a	581	GLN
1	a	625	GLU
1	a	700	THR
1	b	95	GLN
1	b	127	GLN
1	b	237	GLN
1	b	273	THR
1	b	296	PRO
1	b	301	ARG
1	b	310	VAL
1	b	379	ILE
1	b	419	MET
1	b	440	GLU
1	b	500	THR
1	b	545	LEU
1	b	547	GLN
1	b	565	GLU
1	b	581	GLN
1	b	588	VAL
1	b	591	LYS
1	b	681	GLU
1	b	704	HIS
1	b	708	GLN
1	c	101	ILE
1	c	113	GLU
1	c	151	THR
1	c	171	ILE
1	c	301	ARG
1	c	334	THR
1	c	521	GLN
1	c	561	THR
1	c	588	VAL
1	c	694	GLU
1	c	700	THR
1	d	95	GLN
1	d	113	GLU
1	d	124	ILE
1	d	127	GLN
1	d	145	ARG

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Mol	Chain	Res	Type
1	d	151	THR
1	d	244	GLN
1	d	264	VAL
1	d	285	GLU
1	d	303	THR
1	d	324	ILE
1	d	334	THR
1	d	370	LEU
1	d	419	MET
1	d	448	THR
1	d	480	VAL
1	d	486	GLN
1	d	629	HIS
1	d	631	ASN
1	d	646	PRO
1	d	667	GLN
1	d	681	GLU
1	d	684	GLU
1	e	93	TYR
1	e	151	THR
1	e	204	ILE
1	e	219	PRO
1	e	272	THR
1	e	273	THR
1	e	303	THR
1	e	323	MET
1	e	325	VAL
1	e	333	ILE
1	e	384	LYS
1	e	444	ARG
1	e	455	ARG
1	e	464	ILE
1	e	578	VAL
1	e	581	GLN
1	e	584	ILE
1	e	596	ILE
1	e	631	ASN
1	e	700	THR
1	f	95	GLN
1	f	112	VAL
1	f	113	GLU
1	f	150	VAL

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Mol	Chain	Res	Type
1	f	151	THR
1	f	262	VAL
1	f	301	ARG
1	f	315	THR
1	f	375	THR
1	f	393	ILE
1	f	441	GLU
1	f	444	ARG
1	f	448	THR
1	f	454	ILE
1	f	472	VAL
1	f	578	VAL
1	f	696	ILE
1	g	104	ILE
1	g	119	PRO
1	g	176	THR
1	g	229	ILE
1	g	240	ASP
1	g	272	THR
1	g	294	THR
1	g	308	MET
1	g	312	ARG
1	g	313	ASN
1	g	359	LEU
1	g	368	PRO
1	g	401	THR
1	g	467	THR
1	g	472	VAL
1	g	511	GLN
1	g	581	GLN
1	g	583	GLN
1	g	685	THR
1	g	700	THR
1	h	113	GLU
1	h	123	VAL
1	h	124	ILE
1	h	127	GLN
1	h	151	THR
1	h	235	ASP
1	h	257	GLN
1	h	288	ARG
1	h	301	ARG

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Mol	Chain	Res	Type
1	h	331	GLN
1	h	375	THR
1	h	455	ARG
1	h	507	GLN
1	h	527	ILE
1	h	579	PHE
1	h	581	GLN
1	h	584	ILE
1	h	585	TYR
1	h	646	PRO
1	h	657	ASN
1	i	110	LEU
1	i	113	GLU
1	i	143	LEU
1	i	150	VAL
1	i	156	VAL
1	i	161	LYS
1	i	211	LEU
1	i	276	LEU
1	i	303	THR
1	i	308	MET
1	i	323	MET
1	i	367	VAL
1	i	412	PRO
1	i	444	ARG
1	i	581	GLN
1	i	646	PRO
1	i	656	GLU
1	i	683	SER
1	i	685	THR
1	j	95	GLN
1	j	113	GLU
1	j	135	LEU
1	j	151	THR
1	j	288	ARG
1	j	378	LEU
1	j	419	MET
1	j	488	ARG
1	j	526	ILE
1	j	568	ILE
1	j	578	VAL
1	j	584	ILE

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Mol	Chain	Res	Type
1	j	626	ILE
1	j	709	PHE
1	k	141	VAL
1	k	221	LEU
1	k	230	THR
1	k	274	GLU
1	k	290	ILE
1	k	323	MET
1	k	333	ILE
1	k	351	GLN
1	k	368	PRO
1	k	401	THR
1	k	410	ASP
1	k	411	ILE
1	k	412	PRO
1	k	470	GLN
1	k	503	ILE
1	k	504	ILE
1	k	527	ILE
1	k	581	GLN
1	k	624	THR
1	k	647	PHE
1	k	700	THR
1	l	95	GLN
1	l	113	GLU
1	l	144	PRO
1	l	151	THR
1	l	158	LYS
1	l	196	VAL
1	l	230	THR
1	l	270	ILE
1	l	299	MET
1	l	419	MET
1	l	441	GLU
1	l	448	THR
1	l	486	GLN
1	l	492	LEU
1	l	503	ILE
1	l	510	GLN
1	l	581	GLN
1	l	584	ILE
1	l	593	ARG

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Mol	Chain	Res	Type
1	l	624	THR
1	m	258	THR
1	m	303	THR
1	m	325	VAL
1	m	393	ILE
1	m	450	LEU
1	m	455	ARG
1	m	496	VAL
1	m	536	LYS
1	m	581	GLN
1	m	682	GLN
1	n	95	GLN
1	n	113	GLU
1	n	124	ILE
1	n	127	GLN
1	n	144	PRO
1	n	145	ARG
1	n	151	THR
1	n	180	LEU
1	n	224	ILE
1	n	227	PRO
1	n	270	ILE
1	n	296	PRO
1	n	301	ARG
1	n	325	VAL
1	n	331	GLN
1	n	334	THR
1	n	355	TYR
1	n	395	GLU
1	n	397	HIS
1	n	419	MET
1	n	426	ILE
1	n	440	GLU
1	n	448	THR
1	n	460	ASN
1	n	550	GLN
1	n	581	GLN
1	o	112	VAL
1	o	126	ASP
1	o	143	LEU
1	o	214	THR
1	o	368	PRO

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Mol	Chain	Res	Type
1	o	401	THR
1	o	410	ASP
1	o	515	PRO
1	o	557	LYS
1	o	581	GLN
1	o	667	GLN
1	o	708	GLN
1	p	95	GLN
1	p	145	ARG
1	p	151	THR
1	p	170	ARG
1	p	290	ILE
1	p	301	ARG
1	p	303	THR
1	p	411	ILE
1	p	447	GLU
1	p	451	TYR
1	p	462	VAL
1	p	488	ARG
1	q	188	LYS
1	q	241	ILE
1	q	276	LEU
1	q	311	VAL
1	q	323	MET
1	q	333	ILE
1	q	351	GLN
1	q	426	ILE
1	q	442	VAL
1	q	467	THR
1	q	485	LYS
1	q	500	THR
1	q	548	THR
1	q	561	THR
1	q	581	GLN
1	q	624	THR
1	q	685	THR
1	q	695	ARG
1	r	113	GLU
1	r	127	GLN
1	r	176	THR
1	r	178	LEU
1	r	224	ILE

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Mol	Chain	Res	Type
1	r	268	VAL
1	r	298	LEU
1	r	309	ASN
1	r	316	TYR
1	r	333	ILE
1	r	366	THR
1	r	367	VAL
1	r	375	THR
1	r	442	VAL
1	r	480	VAL
1	r	500	THR
1	r	581	GLN
1	r	708	GLN
1	s	239	ARG
1	s	272	THR
1	s	324	ILE
1	s	325	VAL
1	s	339	LEU
1	s	352	THR
1	s	358	VAL
1	s	392	GLN
1	s	455	ARG
1	s	500	THR
1	s	581	GLN
1	s	685	THR
1	t	95	GLN
1	t	112	VAL
1	t	113	GLU
1	t	151	THR
1	t	177	GLU
1	t	227	PRO
1	t	243	LEU
1	t	270	ILE
1	t	272	THR
1	t	301	ARG
1	t	309	ASN
1	t	315	THR
1	t	334	THR
1	t	441	GLU
1	t	448	THR
1	t	526	ILE
1	t	581	GLN

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Mol	Chain	Res	Type
1	t	589	LEU
1	t	646	PRO
1	u	103	LEU
1	u	108	ARG
1	u	150	VAL
1	u	158	LYS
1	u	171	ILE
1	u	190	ILE
1	u	264	VAL
1	u	273	THR
1	u	280	HIS
1	u	304	GLU
1	u	317	PRO
1	u	351	GLN
1	u	428	MET
1	u	444	ARG
1	u	492	LEU
1	u	515	PRO
1	u	528	GLN
1	u	569	GLN
1	u	592	VAL
1	u	624	THR
1	u	640	ARG
1	u	657	ASN
1	u	708	GLN
1	v	95	GLN
1	v	97	VAL
1	v	112	VAL
1	v	113	GLU
1	v	151	THR
1	v	161	LYS
1	v	185	GLN
1	v	188	LYS
1	v	230	THR
1	v	272	THR
1	v	301	ARG
1	v	310	VAL
1	v	406	ARG
1	v	414	GLN
1	v	422	LEU
1	v	551	SER
1	v	552	THR

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Mol	Chain	Res	Type
1	v	581	GLN
1	v	591	LYS
1	w	170	ARG
1	w	219	PRO
1	w	288	ARG
1	w	290	ILE
1	w	334	THR
1	w	355	TYR
1	w	379	ILE
1	w	506	HIS
1	w	548	THR
1	w	557	LYS
1	w	561	THR
1	w	581	GLN
1	x	95	GLN
1	x	113	GLU
1	x	151	THR
1	x	157	LEU
1	x	159	LEU
1	x	161	LYS
1	x	183	PRO
1	x	219	PRO
1	x	288	ARG
1	x	301	ARG
1	x	315	THR
1	x	379	ILE
1	x	383	GLN
1	x	410	ASP
1	x	412	PRO
1	x	425	LYS
1	x	504	ILE
1	x	528	GLN
1	x	532	ILE
1	x	581	GLN
1	x	637	THR
1	x	657	ASN
1	x	689	ARG
1	y	112	VAL
1	y	113	GLU
1	y	141	VAL
1	y	154	PRO
1	y	204	ILE

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Mol	Chain	Res	Type
1	y	323	MET
1	y	333	ILE
1	y	470	GLN
1	y	520	LEU
1	y	527	ILE
1	y	581	GLN
1	y	666	MET
1	z	95	GLN
1	z	113	GLU
1	z	151	THR
1	z	154	PRO
1	z	259	ILE
1	z	303	THR
1	z	339	LEU
1	z	355	TYR
1	z	366	THR
1	z	375	THR
1	z	392	GLN
1	z	414	GLN
1	z	435	LYS
1	z	451	TYR
1	z	488	ARG
1	z	547	GLN
1	z	591	LYS
1	z	628	ILE
1	z	669	LEU
1	z	672	LYS
1	A	93	TYR
1	A	131	LYS
1	A	151	THR
1	A	221	LEU
1	A	262	VAL
1	A	288	ARG
1	A	308	MET
1	A	380	MET
1	A	388	LEU
1	A	410	ASP
1	A	414	GLN
1	A	441	GLU
1	A	450	LEU
1	A	507	GLN
1	A	581	GLN

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Mol	Chain	Res	Type
1	A	588	VAL
1	B	113	GLU
1	B	144	PRO
1	B	149	ILE
1	B	150	VAL
1	B	170	ARG
1	B	187	GLU
1	B	237	GLN
1	B	258	THR
1	B	270	ILE
1	B	301	ARG
1	B	315	THR
1	B	366	THR
1	B	383	GLN
1	B	422	LEU
1	B	431	GLN
1	B	441	GLU
1	B	442	VAL
1	B	476	ILE
1	B	581	GLN
1	B	585	TYR
1	B	625	GLU
1	B	628	ILE
1	B	646	PRO
1	C	113	GLU
1	C	144	PRO
1	C	150	VAL
1	C	183	PRO
1	C	221	LEU
1	C	259	ILE
1	C	323	MET
1	C	324	ILE
1	C	412	PRO
1	C	441	GLU
1	C	581	GLN
1	C	643	ASN
1	C	645	ILE
1	C	687	THR
1	D	95	GLN
1	D	133	SER
1	D	290	ILE
1	D	294	THR

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Mol	Chain	Res	Type
1	D	301	ARG
1	D	306	SER
1	D	324	ILE
1	D	375	THR
1	D	376	THR
1	D	388	LEU
1	D	410	ASP
1	D	419	MET
1	D	488	ARG
1	D	492	LEU
1	D	515	PRO
1	D	581	GLN
1	D	588	VAL
1	E	108	ARG
1	E	113	GLU
1	E	126	ASP
1	E	143	LEU
1	E	188	LYS
1	E	204	ILE
1	E	221	LEU
1	E	276	LEU
1	E	292	ILE
1	E	303	THR
1	E	344	LYS
1	E	351	GLN
1	E	390	GLU
1	E	435	LYS
1	E	485	LYS
1	E	581	GLN
1	E	591	LYS
1	E	647	PHE
1	E	654	LEU
1	E	687	THR
1	F	95	GLN
1	F	112	VAL
1	F	113	GLU
1	F	156	VAL
1	F	163	PRO
1	F	223	ILE
1	F	245	ILE
1	F	270	ILE
1	F	296	PRO

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Mol	Chain	Res	Type
1	F	301	ARG
1	F	303	THR
1	F	334	THR
1	F	347	ILE
1	F	366	THR
1	F	419	MET
1	F	441	GLU
1	F	503	ILE
1	F	510	GLN
1	F	581	GLN
1	F	583	GLN
1	F	588	VAL
1	F	589	LEU
1	F	685	THR
1	G	97	VAL
1	G	113	GLU
1	G	176	THR
1	G	204	ILE
1	G	290	ILE
1	G	318	LEU
1	G	358	VAL
1	G	448	THR
1	G	492	LEU
1	G	515	PRO
1	G	551	SER
1	G	558	VAL
1	G	700	THR
1	H	95	GLN
1	H	123	VAL
1	H	151	THR
1	H	167	TRP
1	H	208	LEU
1	H	236	ASN
1	H	268	VAL
1	H	273	THR
1	H	301	ARG
1	H	370	LEU
1	H	388	LEU
1	H	679	LEU
1	I	113	GLU
1	I	124	ILE
1	I	126	ASP

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Mol	Chain	Res	Type
1	I	131	LYS
1	I	187	GLU
1	I	229	ILE
1	I	412	PRO
1	I	529	GLN
1	I	581	GLN
1	I	700	THR
1	J	113	GLU
1	J	124	ILE
1	J	154	PRO
1	J	214	THR
1	J	270	ILE
1	J	303	THR
1	J	366	THR
1	J	367	VAL
1	J	581	GLN
1	J	624	THR
1	J	625	GLU
1	J	646	PRO
1	J	680	GLN
1	K	113	GLU
1	K	151	THR
1	K	176	THR
1	K	221	LEU
1	K	315	THR
1	K	322	TYR
1	K	333	ILE
1	K	352	THR
1	K	368	PRO
1	K	448	THR
1	K	518	SER
1	K	537	LYS
1	K	592	VAL
1	K	624	THR
1	K	628	ILE
1	K	654	LEU
1	L	154	PRO
1	L	176	THR
1	L	224	ILE
1	L	264	VAL
1	L	307	VAL
1	L	355	TYR

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Mol	Chain	Res	Type
1	L	366	THR
1	L	379	ILE
1	L	410	ASP
1	L	581	GLN
1	L	589	LEU
1	L	624	THR
1	L	700	THR
1	M	113	GLU
1	M	143	LEU
1	M	172	SER
1	M	323	MET
1	M	351	GLN
1	M	368	PRO
1	M	370	LEU
1	M	415	GLU
1	M	435	LYS
1	M	464	ILE
1	M	472	VAL
1	M	532	ILE
1	M	581	GLN
1	M	588	VAL
1	M	591	LYS
1	M	637	THR
1	M	691	ILE
1	N	95	GLN
1	N	113	GLU
1	N	145	ARG
1	N	176	THR
1	N	248	LEU
1	N	403	GLU
1	N	419	MET
1	N	474	ASN
1	N	476	ILE
1	N	581	GLN
1	N	657	ASN
1	O	143	LEU
1	O	195	ASN
1	O	244	GLN
1	O	288	ARG
1	O	368	PRO
1	O	455	ARG
1	O	457	ASP

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Mol	Chain	Res	Type
1	O	480	VAL
1	O	492	LEU
1	O	526	ILE
1	O	581	GLN
1	O	672	LYS
1	O	685	THR
1	O	700	THR
1	P	113	GLU
1	P	127	GLN
1	P	167	TRP
1	P	180	LEU
1	P	209	ILE
1	P	224	ILE
1	P	258	THR
1	P	272	THR
1	P	301	ARG
1	P	419	MET
1	P	577	MET
1	P	581	GLN
1	P	598	ASN
1	P	624	THR
1	P	629	HIS
1	Q	126	ASP
1	Q	131	LYS
1	Q	303	THR
1	Q	410	ASP
1	Q	412	PRO
1	Q	441	GLU
1	Q	472	VAL
1	Q	480	VAL
1	Q	496	VAL
1	Q	513	VAL
1	Q	557	LYS
1	Q	576	GLN
1	Q	581	GLN
1	Q	639	LYS
1	Q	657	ASN
1	Q	672	LYS
1	R	95	GLN
1	R	144	PRO
1	R	145	ARG
1	R	170	ARG

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Mol	Chain	Res	Type
1	R	227	PRO
1	R	259	ILE
1	R	270	ILE
1	R	379	ILE
1	R	412	PRO
1	R	419	MET
1	R	451	TYR
1	R	454	ILE
1	R	581	GLN
1	R	587	VAL
1	R	646	PRO
1	S	112	VAL
1	S	118	LEU
1	S	200	ASN
1	S	254	GLN
1	S	264	VAL
1	S	292	ILE
1	S	361	GLU
1	S	374	LEU
1	S	498	TYR
1	S	521	GLN
1	S	577	MET
1	S	581	GLN
1	S	626	ILE
1	S	682	GLN
1	S	684	GLU
1	T	95	GLN
1	T	101	ILE
1	T	144	PRO
1	T	151	THR
1	T	288	ARG
1	T	290	ILE
1	T	294	THR
1	T	336	ARG
1	T	347	ILE
1	T	355	TYR
1	T	423	ILE
1	T	438	GLU
1	T	442	VAL
1	T	495	PHE
1	T	528	GLN
1	T	581	GLN

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Mol	Chain	Res	Type
1	T	685	THR
1	T	694	GLU
1	U	101	ILE
1	U	113	GLU
1	U	123	VAL
1	U	176	THR
1	U	204	ILE
1	U	249	ILE
1	U	351	GLN
1	U	492	LEU
1	U	509	ILE
1	U	541	GLU
1	U	554	GLU
1	U	570	LEU
1	U	581	GLN
1	U	587	VAL
1	U	646	PRO
1	U	685	THR
1	U	700	THR
1	V	95	GLN
1	V	112	VAL
1	V	151	THR
1	V	170	ARG
1	V	192	LYS
1	V	227	PRO
1	V	230	THR
1	V	238	PRO
1	V	270	ILE
1	V	301	ARG
1	V	324	ILE
1	V	398	GLN
1	V	441	GLU
1	V	496	VAL
1	V	510	GLN
1	V	529	GLN
1	V	581	GLN
1	V	624	THR
1	W	103	LEU
1	W	119	PRO
1	W	124	ILE
1	W	167	TRP
1	W	243	LEU

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Mol	Chain	Res	Type
1	W	301	ARG
1	W	303	THR
1	W	304	GLU
1	W	308	MET
1	W	366	THR
1	W	394	ARG
1	W	477	HIS
1	W	527	ILE
1	W	568	ILE
1	W	581	GLN
1	W	639	LYS
1	W	708	GLN
1	X	95	GLN
1	X	112	VAL
1	X	127	GLN
1	X	151	THR
1	X	177	GLU
1	X	213	ILE
1	X	219	PRO
1	X	288	ARG
1	X	324	ILE
1	X	330	GLN
1	X	441	GLU
1	X	504	ILE
1	X	521	GLN
1	X	581	GLN
1	X	677	TRP
1	Y	112	VAL
1	Y	113	GLU
1	Y	182	ASP
1	Y	236	ASN
1	Y	244	GLN
1	Y	297	ASP
1	Y	303	THR
1	Y	312	ARG
1	Y	352	THR
1	Y	366	THR
1	Y	376	THR
1	Y	398	GLN
1	Y	435	LYS
1	Y	581	GLN
1	Y	624	THR

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Mol	Chain	Res	Type
1	Y	646	PRO
1	Y	700	THR
1	Z	95	GLN
1	Z	113	GLU
1	Z	127	GLN
1	Z	149	ILE
1	Z	151	THR
1	Z	209	ILE
1	Z	224	ILE
1	Z	268	VAL
1	Z	301	ARG
1	Z	303	THR
1	Z	307	VAL
1	Z	387	PRO
1	Z	395	GLU
1	Z	419	MET
1	Z	591	LYS
1	Z	628	ILE
1	Z	690	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (651) such sidechains are listed below:

Mol	Chain	Res	Type
1	0	257	GLN
1	0	309	ASN
1	0	313	ASN
1	0	392	GLN
1	0	546	ASN
1	0	571	GLN
1	0	644	GLN
1	1	254	GLN
1	1	256	GLN
1	1	430	ASN
1	1	497	ASN
1	1	510	GLN
1	1	511	GLN
1	1	528	GLN
1	1	538	HIS
1	1	581	GLN
1	2	95	GLN
1	2	194	GLN
1	2	206	HIS

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Mol	Chain	Res	Type
1	2	236	ASN
1	2	237	GLN
1	2	244	GLN
1	2	257	GLN
1	2	280	HIS
1	2	470	GLN
1	2	629	HIS
1	2	657	ASN
1	2	704	HIS
1	3	254	GLN
1	3	309	ASN
1	3	353	HIS
1	3	383	GLN
1	3	431	GLN
1	3	507	GLN
1	3	521	GLN
1	3	529	GLN
1	3	569	GLN
1	3	657	ASN
1	3	680	GLN
1	3	704	HIS
1	4	95	GLN
1	4	127	GLN
1	4	185	GLN
1	4	260	ASN
1	4	331	GLN
1	4	571	GLN
1	4	576	GLN
1	4	643	ASN
1	4	644	GLN
1	4	662	GLN
1	4	667	GLN
1	5	181	GLN
1	5	206	HIS
1	5	254	GLN
1	5	257	GLN
1	5	309	ASN
1	5	381	HIS
1	5	546	ASN
1	5	571	GLN
1	5	581	GLN
1	5	583	GLN

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Mol	Chain	Res	Type
1	5	657	ASN
1	6	95	GLN
1	6	185	GLN
1	6	191	HIS
1	6	244	GLN
1	6	254	GLN
1	6	257	GLN
1	6	398	GLN
1	6	538	HIS
1	6	581	GLN
1	6	643	ASN
1	7	185	GLN
1	7	191	HIS
1	7	195	ASN
1	7	256	GLN
1	7	257	GLN
1	7	353	HIS
1	7	383	GLN
1	7	398	GLN
1	7	431	GLN
1	7	452	ASN
1	7	486	GLN
1	7	550	GLN
1	7	643	ASN
1	7	657	ASN
1	7	680	GLN
1	8	185	GLN
1	8	254	GLN
1	8	267	ASN
1	8	280	HIS
1	8	335	ASN
1	8	398	GLN
1	8	452	ASN
1	8	460	ASN
1	8	644	GLN
1	8	657	ASN
1	8	667	GLN
1	8	682	GLN
1	8	701	GLN
1	8	708	GLN
1	9	254	GLN
1	9	510	GLN

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Mol	Chain	Res	Type
1	9	533	ASN
1	9	544	ASN
1	9	550	GLN
1	9	571	GLN
1	9	670	GLN
1	a	195	ASN
1	a	260	ASN
1	a	446	ASN
1	a	470	GLN
1	a	477	HIS
1	a	538	HIS
1	a	546	ASN
1	a	560	HIS
1	a	571	GLN
1	a	631	ASN
1	a	644	GLN
1	a	657	ASN
1	a	680	GLN
1	a	701	GLN
1	a	708	GLN
1	b	206	HIS
1	b	254	GLN
1	b	260	ASN
1	b	267	ASN
1	b	280	HIS
1	b	468	ASN
1	b	533	ASN
1	b	571	GLN
1	b	644	GLN
1	c	236	ASN
1	c	430	ASN
1	c	431	GLN
1	c	486	GLN
1	c	497	ASN
1	c	506	HIS
1	c	507	GLN
1	c	538	HIS
1	c	629	HIS
1	c	631	ASN
1	d	206	HIS
1	d	257	GLN
1	d	507	GLN

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Mol	Chain	Res	Type
1	d	521	GLN
1	d	533	ASN
1	d	576	GLN
1	d	680	GLN
1	e	175	ASN
1	e	181	GLN
1	e	185	GLN
1	e	257	GLN
1	e	397	HIS
1	e	468	ASN
1	e	486	GLN
1	e	560	HIS
1	e	581	GLN
1	e	629	HIS
1	e	650	GLN
1	e	680	GLN
1	e	701	GLN
1	f	206	HIS
1	f	254	GLN
1	f	257	GLN
1	f	381	HIS
1	f	544	ASN
1	f	680	GLN
1	g	236	ASN
1	g	430	ASN
1	g	510	GLN
1	g	529	GLN
1	g	546	ASN
1	g	682	GLN
1	g	701	GLN
1	h	254	GLN
1	h	256	GLN
1	h	353	HIS
1	h	397	HIS
1	h	430	ASN
1	h	598	ASN
1	h	662	GLN
1	i	195	ASN
1	i	254	GLN
1	i	260	ASN
1	i	267	ASN
1	i	280	HIS

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Mol	Chain	Res	Type
1	i	392	GLN
1	i	398	GLN
1	i	533	ASN
1	i	544	ASN
1	i	560	HIS
1	i	581	GLN
1	i	670	GLN
1	i	680	GLN
1	j	194	GLN
1	j	381	HIS
1	j	398	GLN
1	j	414	GLN
1	j	452	ASN
1	j	486	GLN
1	j	497	ASN
1	j	507	GLN
1	k	244	GLN
1	k	309	ASN
1	k	330	GLN
1	k	335	ASN
1	k	351	GLN
1	k	477	HIS
1	k	546	ASN
1	k	560	HIS
1	k	569	GLN
1	k	571	GLN
1	k	644	GLN
1	k	667	GLN
1	l	260	ASN
1	l	430	ASN
1	l	431	GLN
1	l	468	ASN
1	l	538	HIS
1	l	547	GLN
1	l	571	GLN
1	l	598	ASN
1	l	644	GLN
1	l	704	HIS
1	m	127	GLN
1	m	200	ASN
1	m	330	GLN
1	m	335	ASN

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Mol	Chain	Res	Type
1	m	430	ASN
1	m	546	ASN
1	n	191	HIS
1	n	200	ASN
1	n	256	GLN
1	n	267	ASN
1	n	381	HIS
1	n	468	ASN
1	n	521	GLN
1	n	533	ASN
1	n	538	HIS
1	n	571	GLN
1	n	629	HIS
1	o	175	ASN
1	o	181	GLN
1	o	236	ASN
1	o	280	HIS
1	o	309	ASN
1	o	330	GLN
1	o	331	GLN
1	o	460	ASN
1	o	470	GLN
1	o	546	ASN
1	o	547	GLN
1	o	569	GLN
1	o	571	GLN
1	o	581	GLN
1	o	644	GLN
1	o	662	GLN
1	p	191	HIS
1	p	313	ASN
1	p	330	GLN
1	p	331	GLN
1	p	397	HIS
1	p	398	GLN
1	p	446	ASN
1	p	460	ASN
1	p	470	GLN
1	p	474	ASN
1	p	538	HIS
1	p	571	GLN
1	p	583	GLN

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Mol	Chain	Res	Type
1	p	644	GLN
1	p	667	GLN
1	q	114	GLN
1	q	353	HIS
1	q	430	ASN
1	q	460	ASN
1	q	468	ASN
1	q	506	HIS
1	q	521	GLN
1	q	657	ASN
1	q	701	GLN
1	r	162	GLN
1	r	181	GLN
1	r	185	GLN
1	r	191	HIS
1	r	195	ASN
1	r	200	ASN
1	r	309	ASN
1	r	351	GLN
1	r	353	HIS
1	r	571	GLN
1	r	704	HIS
1	s	244	GLN
1	s	254	GLN
1	s	257	GLN
1	s	392	GLN
1	s	430	ASN
1	s	497	ASN
1	s	566	ASN
1	s	657	ASN
1	t	127	GLN
1	t	191	HIS
1	t	256	GLN
1	t	260	ASN
1	t	313	ASN
1	t	477	HIS
1	t	547	GLN
1	t	701	GLN
1	u	185	GLN
1	u	195	ASN
1	u	200	ASN
1	u	254	GLN

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Mol	Chain	Res	Type
1	u	414	GLN
1	u	510	GLN
1	u	550	GLN
1	u	576	GLN
1	u	657	ASN
1	v	181	GLN
1	v	185	GLN
1	v	260	ASN
1	v	267	ASN
1	v	280	HIS
1	v	383	GLN
1	v	392	GLN
1	v	546	ASN
1	v	547	GLN
1	v	581	GLN
1	v	657	ASN
1	v	673	ASN
1	w	95	GLN
1	w	181	GLN
1	w	280	HIS
1	w	331	GLN
1	w	470	GLN
1	w	569	GLN
1	w	576	GLN
1	w	598	ASN
1	w	662	GLN
1	w	670	GLN
1	x	95	GLN
1	x	114	GLN
1	x	191	HIS
1	x	195	ASN
1	x	206	HIS
1	x	256	GLN
1	x	313	ASN
1	x	430	ASN
1	x	550	GLN
1	x	657	ASN
1	x	662	GLN
1	y	195	ASN
1	y	237	GLN
1	y	257	GLN
1	y	280	HIS

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Mol	Chain	Res	Type
1	y	335	ASN
1	y	397	HIS
1	y	477	HIS
1	y	546	ASN
1	y	550	GLN
1	y	576	GLN
1	y	650	GLN
1	y	657	ASN
1	y	670	GLN
1	y	704	HIS
1	y	708	GLN
1	z	191	HIS
1	z	206	HIS
1	z	331	GLN
1	z	430	ASN
1	z	474	ASN
1	z	486	GLN
1	z	631	ASN
1	z	643	ASN
1	z	644	GLN
1	z	657	ASN
1	A	95	GLN
1	A	181	GLN
1	A	257	GLN
1	A	392	GLN
1	A	657	ASN
1	A	701	GLN
1	B	127	GLN
1	B	309	ASN
1	B	313	ASN
1	B	330	GLN
1	B	351	GLN
1	B	430	ASN
1	B	446	ASN
1	B	470	GLN
1	B	474	ASN
1	B	533	ASN
1	B	643	ASN
1	B	650	GLN
1	C	254	GLN
1	C	353	HIS
1	C	397	HIS

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Mol	Chain	Res	Type
1	C	398	GLN
1	C	477	HIS
1	C	506	HIS
1	C	547	GLN
1	C	550	GLN
1	C	644	GLN
1	C	670	GLN
1	C	704	HIS
1	C	708	GLN
1	D	95	GLN
1	D	353	HIS
1	D	381	HIS
1	D	470	GLN
1	D	510	GLN
1	D	571	GLN
1	D	576	GLN
1	D	644	GLN
1	E	191	HIS
1	E	236	ASN
1	E	254	GLN
1	E	351	GLN
1	E	392	GLN
1	E	521	GLN
1	E	538	HIS
1	E	544	ASN
1	E	550	GLN
1	E	571	GLN
1	E	701	GLN
1	F	260	ASN
1	F	309	ASN
1	F	313	ASN
1	F	497	ASN
1	F	546	ASN
1	F	550	GLN
1	F	644	GLN
1	G	254	GLN
1	G	256	GLN
1	G	280	HIS
1	G	398	GLN
1	G	506	HIS
1	G	533	ASN
1	G	546	ASN

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Mol	Chain	Res	Type
1	G	566	ASN
1	G	571	GLN
1	H	162	GLN
1	H	191	HIS
1	H	195	ASN
1	H	200	ASN
1	H	330	GLN
1	H	335	ASN
1	H	430	ASN
1	H	510	GLN
1	H	546	ASN
1	H	629	HIS
1	H	644	GLN
1	H	667	GLN
1	H	682	GLN
1	H	708	GLN
1	I	95	GLN
1	I	175	ASN
1	I	206	HIS
1	I	237	GLN
1	I	256	GLN
1	I	257	GLN
1	I	280	HIS
1	I	330	GLN
1	I	331	GLN
1	I	351	GLN
1	I	431	GLN
1	I	446	ASN
1	I	521	GLN
1	I	529	GLN
1	I	546	ASN
1	J	95	GLN
1	J	127	GLN
1	J	191	HIS
1	J	244	GLN
1	J	309	ASN
1	J	383	GLN
1	J	430	ASN
1	J	497	ASN
1	J	507	GLN
1	J	538	HIS
1	J	569	GLN

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Mol	Chain	Res	Type
1	K	162	GLN
1	K	181	GLN
1	K	260	ASN
1	K	351	GLN
1	K	383	GLN
1	K	506	HIS
1	K	547	GLN
1	K	569	GLN
1	K	571	GLN
1	K	576	GLN
1	K	657	ASN
1	L	162	GLN
1	L	206	HIS
1	L	351	GLN
1	L	392	GLN
1	L	521	GLN
1	L	546	ASN
1	L	631	ASN
1	L	644	GLN
1	L	662	GLN
1	M	175	ASN
1	M	256	GLN
1	M	267	ASN
1	M	280	HIS
1	M	330	GLN
1	M	392	GLN
1	M	521	GLN
1	M	550	GLN
1	M	560	HIS
1	M	644	GLN
1	M	662	GLN
1	M	680	GLN
1	N	237	GLN
1	N	260	ASN
1	N	309	ASN
1	N	330	GLN
1	N	351	GLN
1	N	460	ASN
1	N	474	ASN
1	N	538	HIS
1	N	547	GLN
1	N	560	HIS

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Mol	Chain	Res	Type
1	N	571	GLN
1	N	598	ASN
1	O	114	GLN
1	O	185	GLN
1	O	195	ASN
1	O	460	ASN
1	O	546	ASN
1	O	550	GLN
1	O	629	HIS
1	O	670	GLN
1	P	114	GLN
1	P	127	GLN
1	P	181	GLN
1	P	206	HIS
1	P	521	GLN
1	P	629	HIS
1	P	667	GLN
1	P	682	GLN
1	P	704	HIS
1	P	708	GLN
1	Q	257	GLN
1	Q	260	ASN
1	Q	280	HIS
1	Q	383	GLN
1	Q	397	HIS
1	Q	398	GLN
1	Q	566	ASN
1	Q	576	GLN
1	Q	657	ASN
1	R	181	GLN
1	R	206	HIS
1	R	260	ASN
1	R	477	HIS
1	R	506	HIS
1	R	533	ASN
1	R	544	ASN
1	R	631	ASN
1	R	657	ASN
1	R	704	HIS
1	S	162	GLN
1	S	195	ASN
1	S	254	GLN

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Mol	Chain	Res	Type
1	S	446	ASN
1	S	486	GLN
1	S	521	GLN
1	S	533	ASN
1	S	538	HIS
1	S	546	ASN
1	S	631	ASN
1	S	643	ASN
1	S	644	GLN
1	T	114	GLN
1	T	127	GLN
1	T	257	GLN
1	T	546	ASN
1	T	571	GLN
1	T	631	ASN
1	T	682	GLN
1	T	708	GLN
1	U	181	GLN
1	U	200	ASN
1	U	331	GLN
1	U	430	ASN
1	U	470	GLN
1	U	506	HIS
1	U	571	GLN
1	U	631	ASN
1	U	644	GLN
1	U	708	GLN
1	V	95	GLN
1	V	244	GLN
1	V	254	GLN
1	V	260	ASN
1	V	330	GLN
1	V	474	ASN
1	V	528	GLN
1	V	569	GLN
1	V	571	GLN
1	V	583	GLN
1	V	644	GLN
1	V	657	ASN
1	V	667	GLN
1	V	673	ASN
1	W	95	GLN

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Mol	Chain	Res	Type
1	W	206	HIS
1	W	237	GLN
1	W	309	ASN
1	W	351	GLN
1	W	477	HIS
1	W	571	GLN
1	W	643	ASN
1	W	644	GLN
1	X	95	GLN
1	X	206	HIS
1	X	257	GLN
1	X	280	HIS
1	X	335	ASN
1	X	398	GLN
1	X	430	ASN
1	X	477	HIS
1	X	486	GLN
1	X	497	ASN
1	X	569	GLN
1	X	581	GLN
1	X	644	GLN
1	X	662	GLN
1	X	667	GLN
1	X	670	GLN
1	Y	200	ASN
1	Y	254	GLN
1	Y	257	GLN
1	Y	260	ASN
1	Y	280	HIS
1	Y	330	GLN
1	Y	398	GLN
1	Y	486	GLN
1	Z	95	GLN
1	Z	114	GLN
1	Z	181	GLN
1	Z	206	HIS
1	Z	267	ASN
1	Z	313	ASN
1	Z	452	ASN
1	Z	507	GLN
1	Z	546	ASN
1	Z	547	GLN

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Mol	Chain	Res	Type
1	Z	550	GLN
1	Z	662	GLN

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 [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

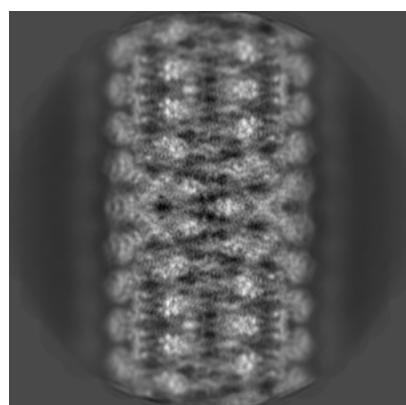
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-8577. These allow visual inspection of the internal detail of the map and identification of artifacts.

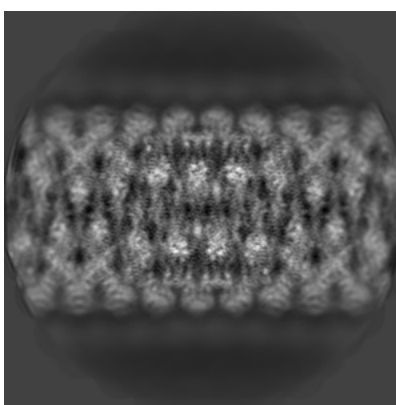
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

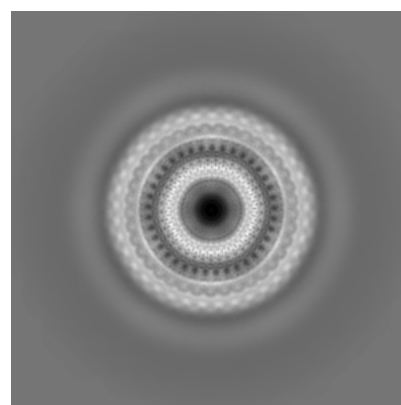
6.1.1 Primary map



X



Y

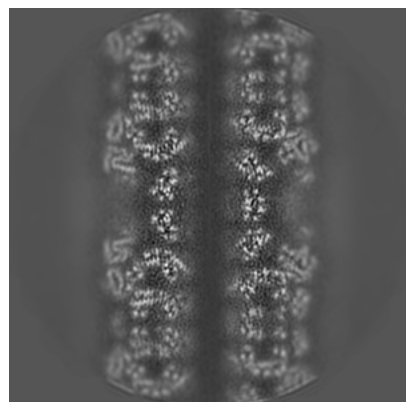


Z

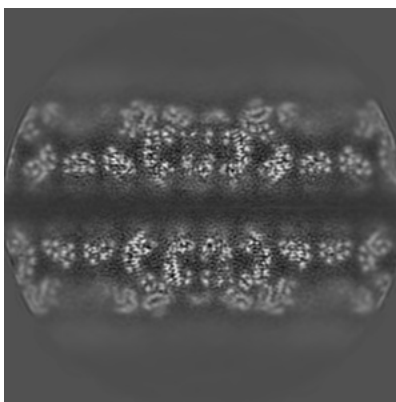
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

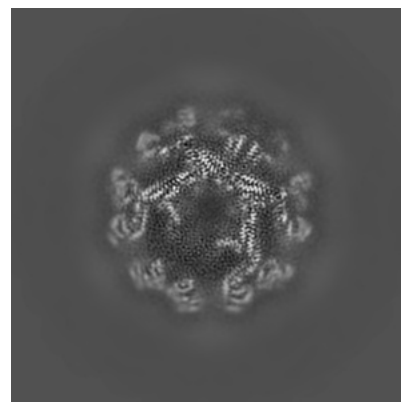
6.2.1 Primary map



X Index: 225



Y Index: 225

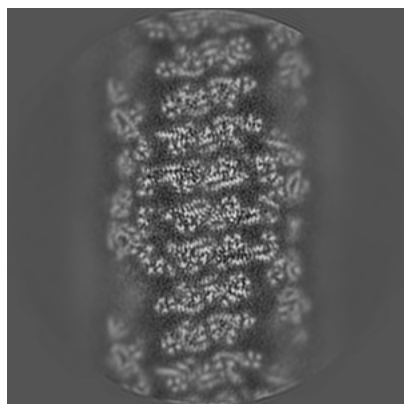


Z Index: 225

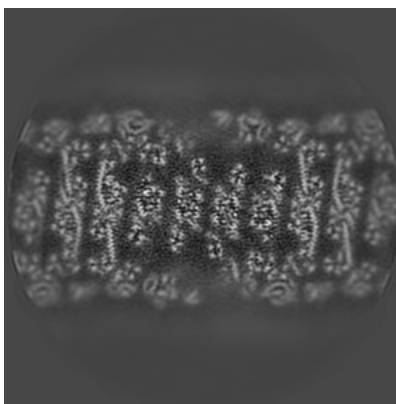
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

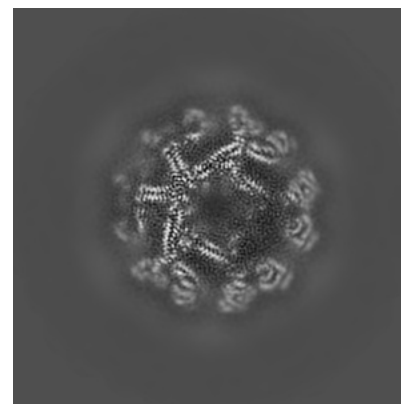
6.3.1 Primary map



X Index: 264



Y Index: 178

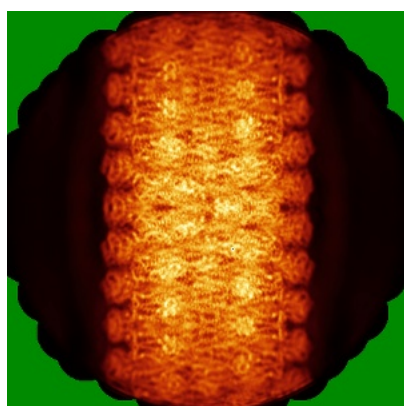


Z Index: 236

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

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

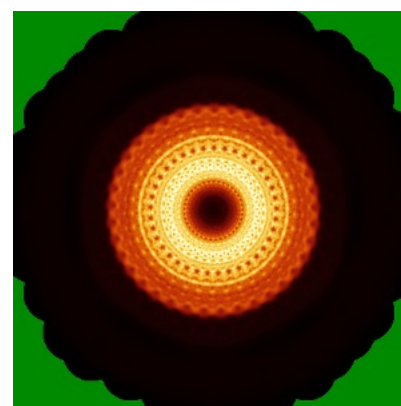
6.4.1 Primary map



X



Y



Z

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

6.5.1 Primary map

X

Y

Z

The images above show the 3D surface view of the map at the recommended contour level 4.5. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

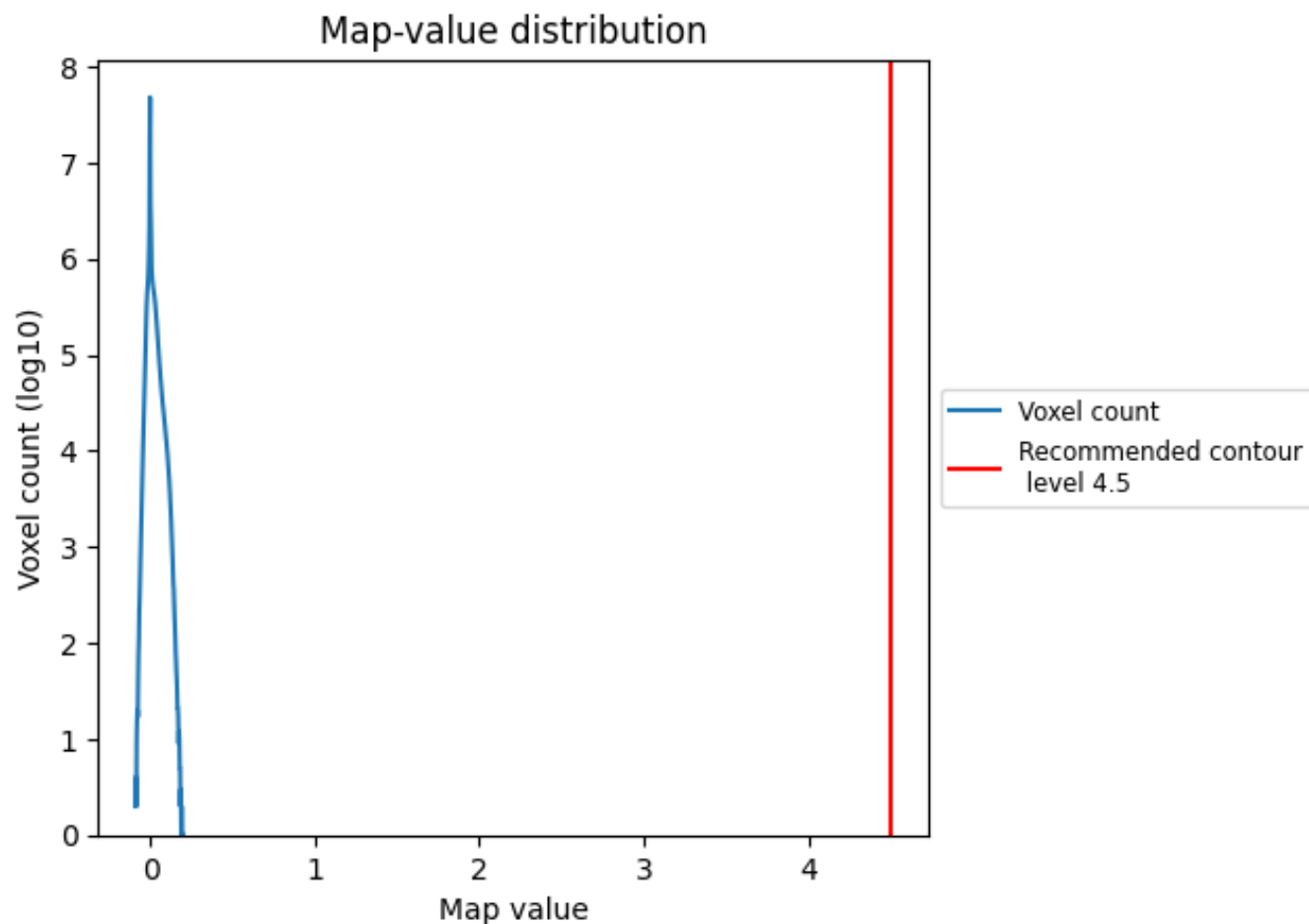
6.6 Mask visualisation

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

7 Map analysis [i](#)

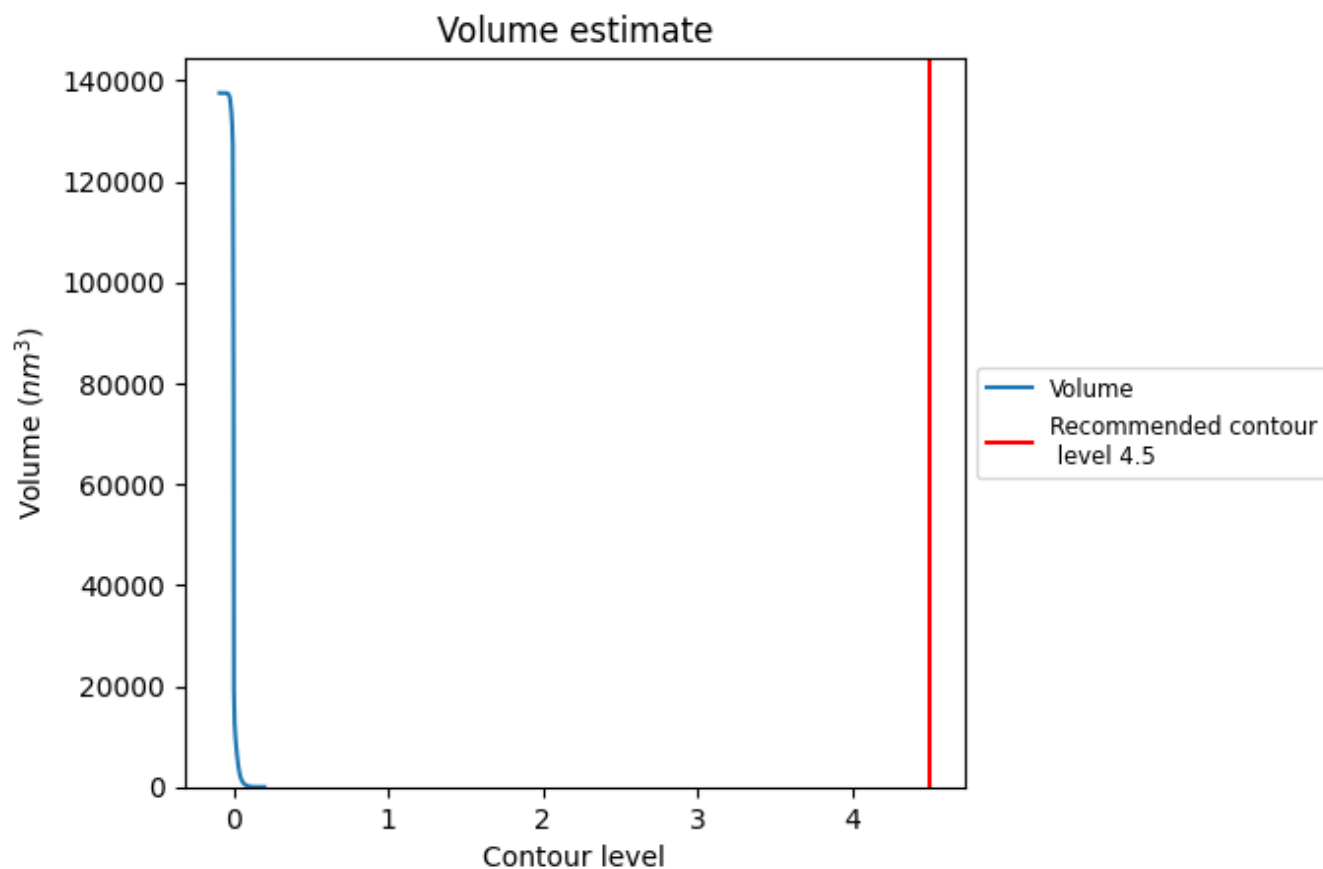
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



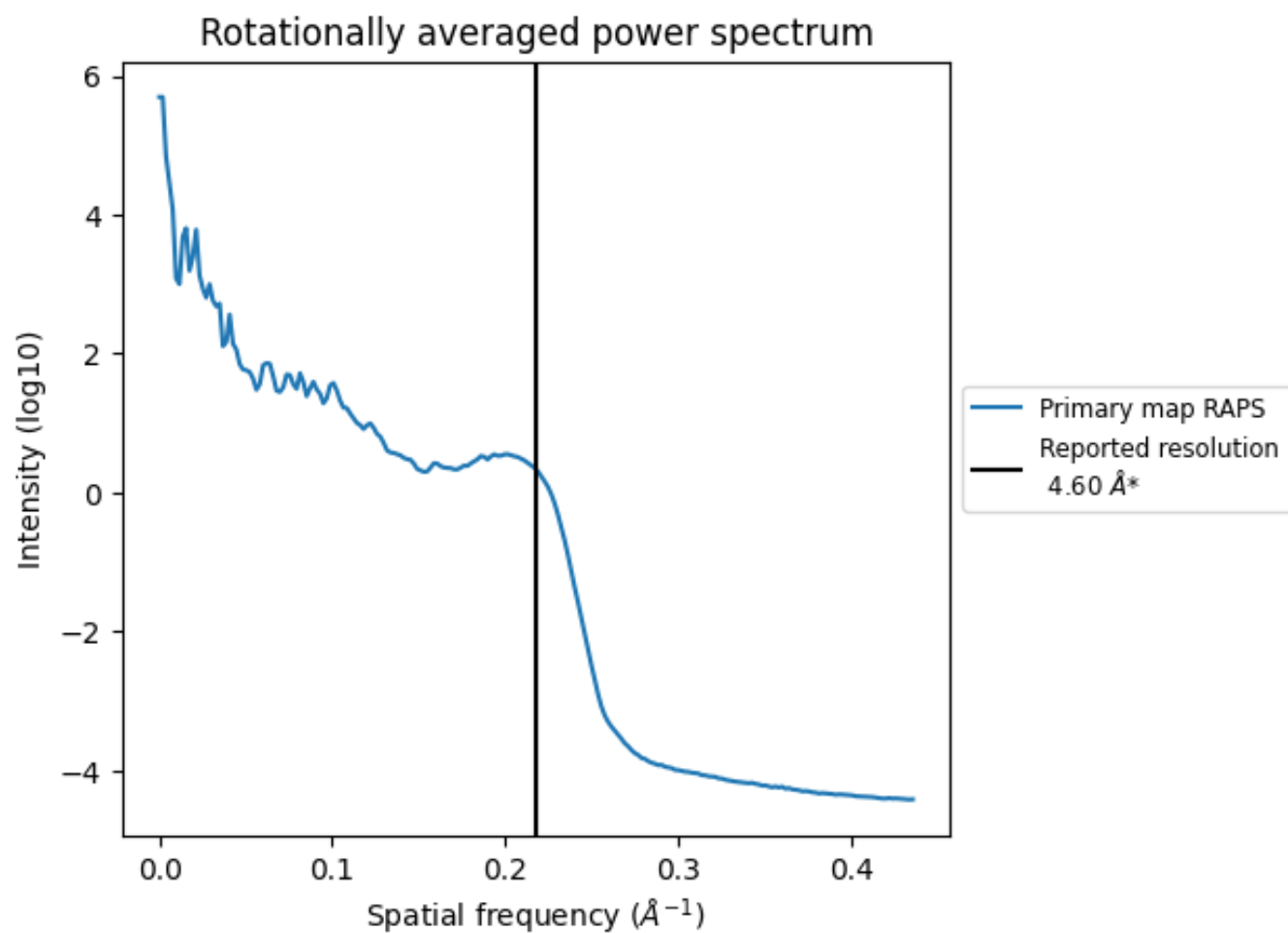
The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

7.2 Volume estimate [i](#)



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 ⓘ

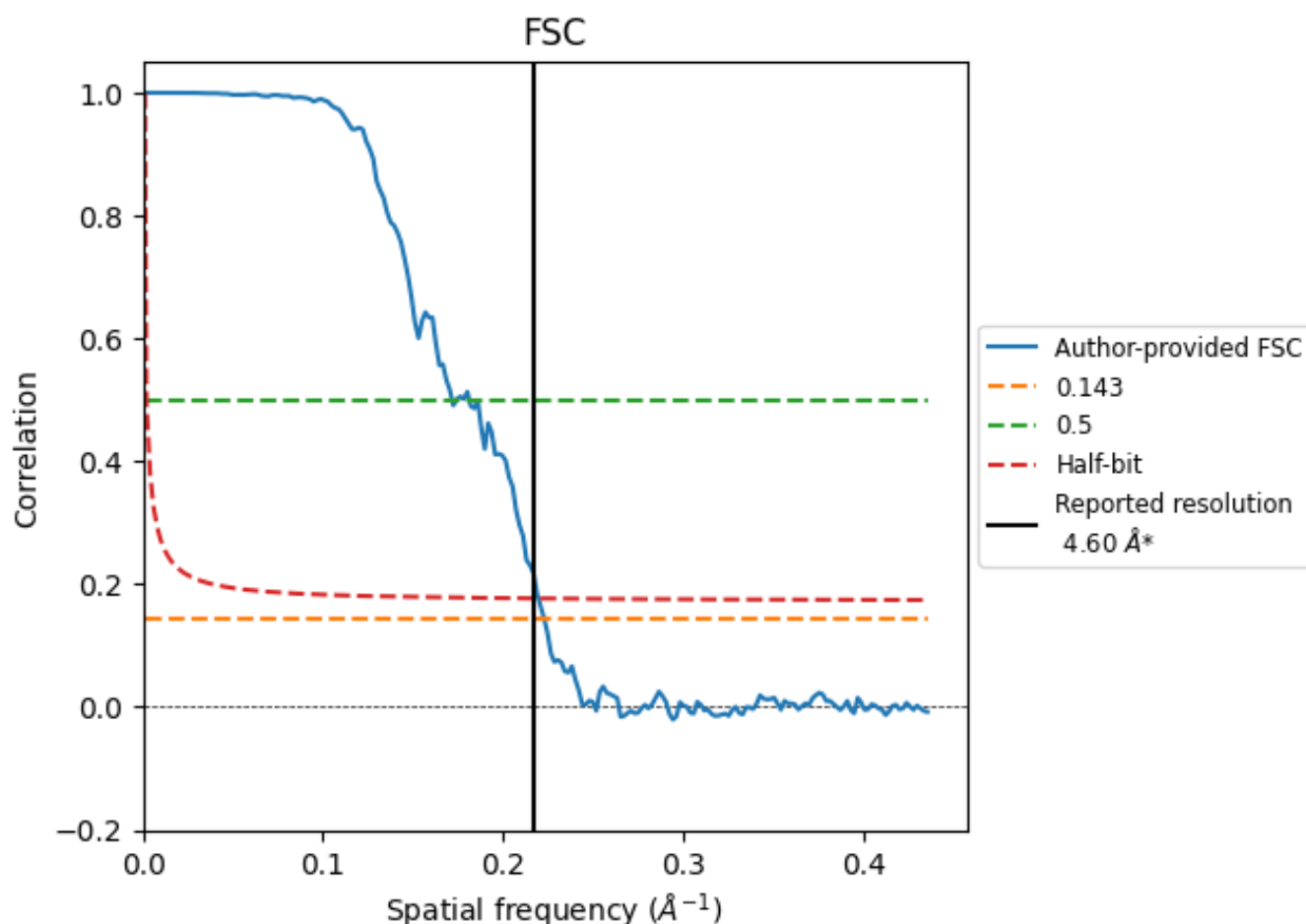


*Reported resolution corresponds to spatial frequency of 0.217 Å⁻¹

8 Fourier-Shell correlation [i](#)

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 [i](#)



*Reported resolution corresponds to spatial frequency of 0.217 Å⁻¹

8.2 Resolution estimates [i](#)

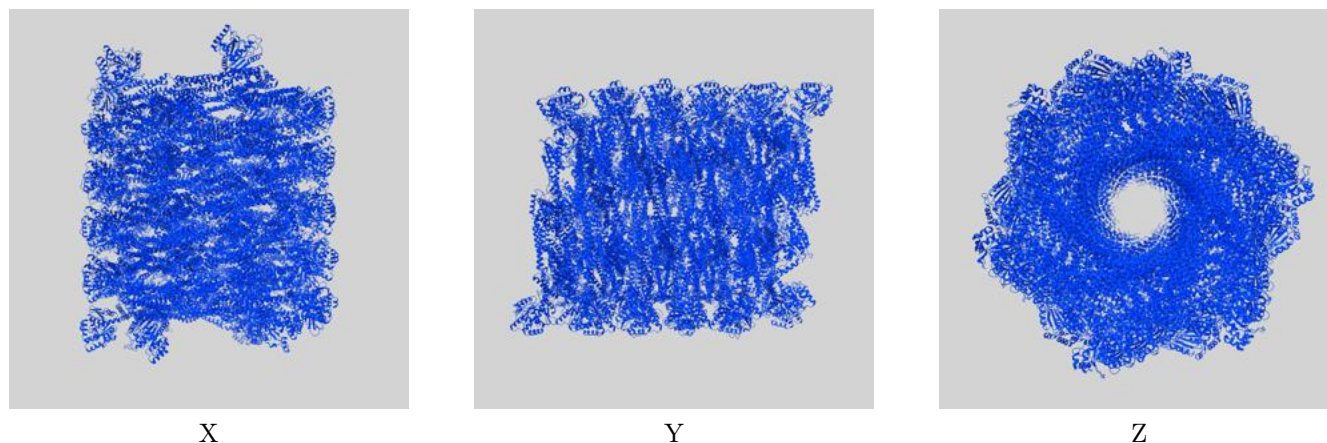
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.60	-	-
Author-provided FSC curve	4.49	5.82	4.55
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit [i](#)

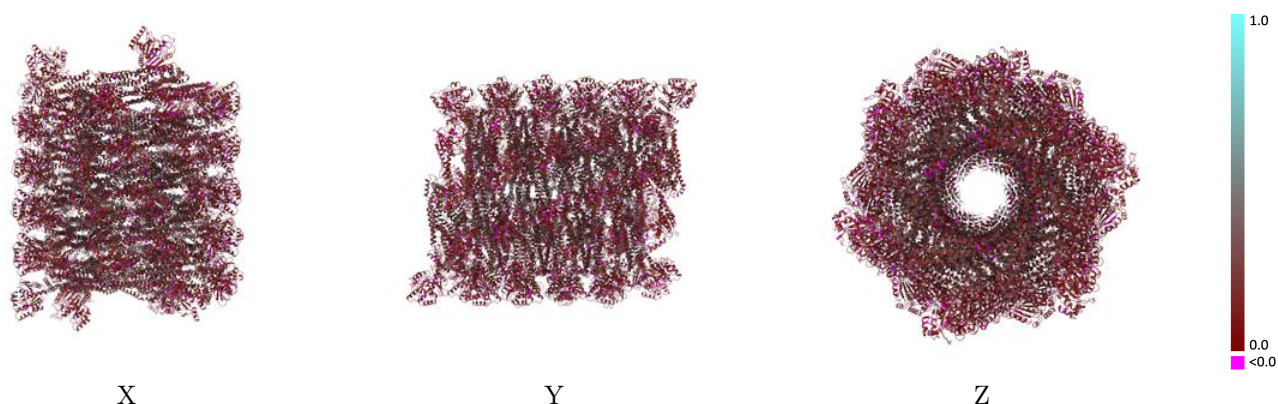
This section contains information regarding the fit between EMDB map EMD-8577 and PDB model 5UOT. Per-residue inclusion information can be found in [section 3](#) on [page 10](#).

9.1 Map-model overlay [i](#)



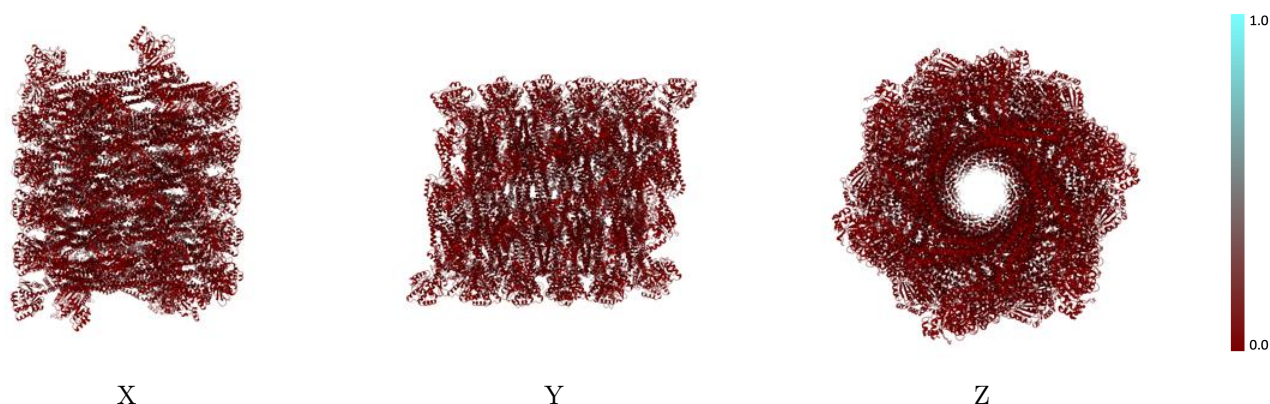
The images above show the 3D surface view of the map at the recommended contour level 4.5 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



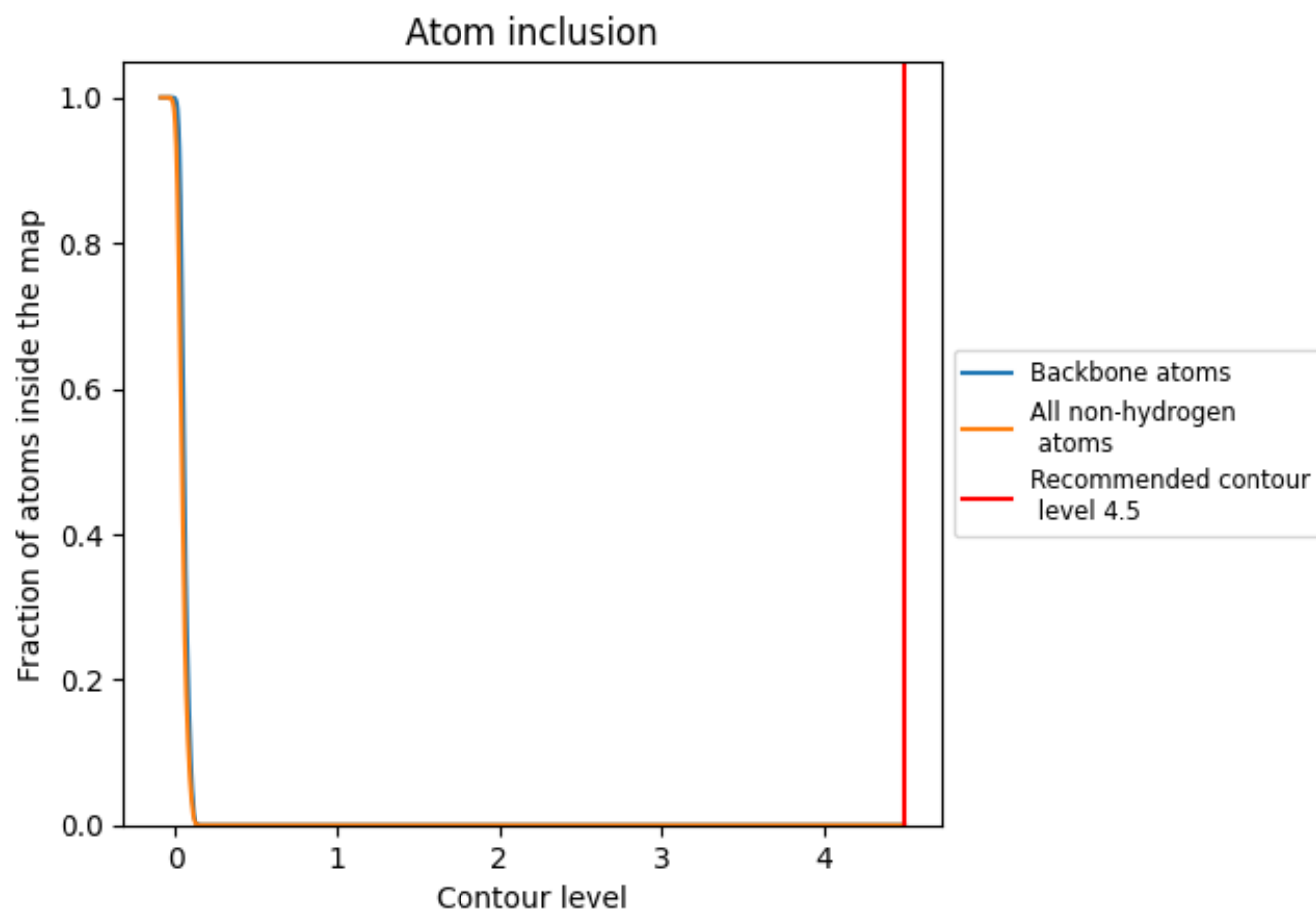
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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](#)



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 (4.5).

9.4 Atom inclusion [i](#)



At the recommended contour level, 0% of all backbone atoms, 0% 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 (4.5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.0000	0.1970
0	0.0000	0.1820
1	0.0000	0.1840
2	0.0000	0.1960
3	0.0000	0.1880
4	0.0000	0.2080
5	0.0000	0.1910
6	0.0000	0.2090
7	0.0000	0.2050
8	0.0000	0.1880
9	0.0000	0.2100
A	0.0000	0.2020
B	0.0000	0.2020
C	0.0000	0.2030
D	0.0000	0.1980
E	0.0000	0.2040
F	0.0000	0.2010
G	0.0000	0.2040
H	0.0000	0.2050
I	0.0000	0.1940
J	0.0000	0.2030
K	0.0000	0.1910
L	0.0000	0.2020
M	0.0000	0.1930
N	0.0000	0.1900
O	0.0000	0.1900
P	0.0000	0.1880
Q	0.0000	0.1900
R	0.0000	0.1910
S	0.0000	0.1940
T	0.0000	0.1810
U	0.0000	0.1800
V	0.0000	0.1870
W	0.0000	0.1740
X	0.0000	0.1820



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Chain	Atom inclusion	Q-score
Y	 0.0000	 0.1800
Z	 0.0000	 0.1680
a	 0.0000	 0.1910
b	 0.0000	 0.2130
c	 0.0000	 0.1960
d	 0.0000	 0.1880
e	 0.0000	 0.1930
f	 0.0000	 0.1960
g	 0.0000	 0.2170
h	 0.0000	 0.2080
i	 0.0000	 0.2120
j	 0.0000	 0.2010
k	 0.0000	 0.1890
l	 0.0000	 0.2100
m	 0.0000	 0.1940
n	 0.0000	 0.2120
o	 0.0000	 0.1970
p	 0.0000	 0.1910
q	 0.0000	 0.2110
r	 0.0000	 0.1920
s	 0.0000	 0.2120
t	 0.0000	 0.2090
u	 0.0000	 0.2170
v	 0.0000	 0.2030
w	 0.0000	 0.1910
x	 0.0000	 0.2170
y	 0.0000	 0.1890
z	 0.0000	 0.2150