



Full wwPDB EM Validation Report ⓘ

Mar 4, 2026 – 09:52 PM UTC

PDB ID : 7PER / pdb_00007per
EMDB ID : EMD-12814
Title : Model of the inner ring of the human nuclear pore complex
Authors : Schuller, A.P.; Wojtynek, M.; Mankus, D.; Tatli, M.; Kronenberg-Tenga, R.;
Regmi, S.G.; Dasso, M.; Weis, K.; Medalia, O.; Schwartz, T.U.
Deposited on : 2021-08-11
Resolution : 35.00 Å (reported)
Based on initial model : 5IJN

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

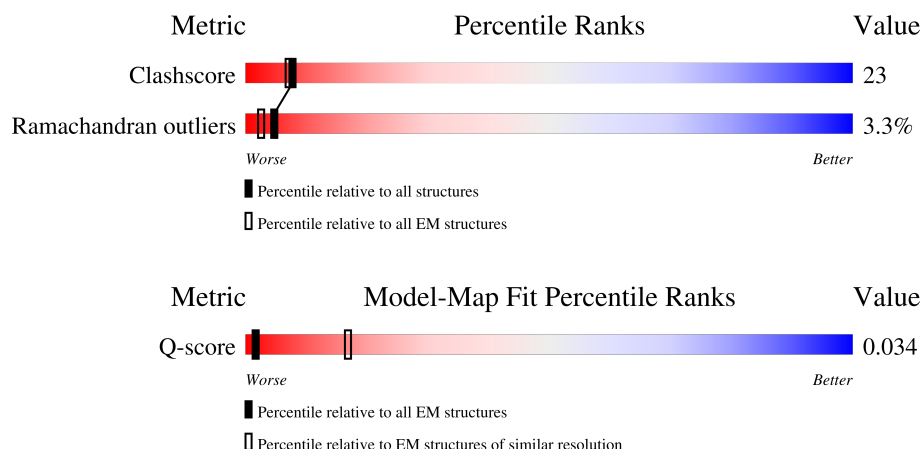
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 35.00 Å.

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



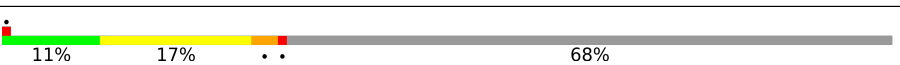
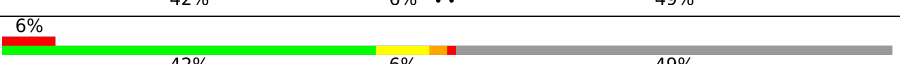
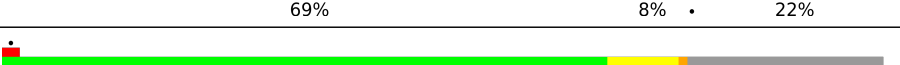
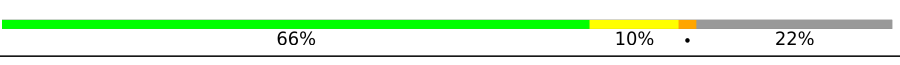
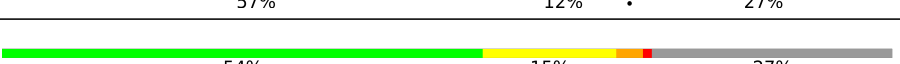
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Q-score	-	25397	12 (35.00 - 35.00)

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	F	507	 33% 21% 7% 5% 34%
1	L	507	 6% 34% 20% 7% 5% 34%
1	R	507	 32% 22% 7% 5% 34%
1	X	507	 35% 20% 7% 5% 34%
2	G	599	 10% 14% 71%

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Mol	Chain	Length	Quality of chain
2	M	599	 10% 14% . . 71%
2	S	599	 10% 14% . . 71%
2	Y	599	 10% 14% . . 71%
3	H	522	 11% 16% . . 68%
3	N	522	 11% 17% . . 68%
3	T	522	 11% 16% . . 68%
3	Z	522	 12% 16% . . 68%
4	D	2012	 42% 6% . . 49%
4	J	2012	 42% 6% . . 49%
4	P	2012	 40% 8% . . 49%
4	V	2012	 41% 8% . . 49%
5	E	1391	 69% 8% . 22%
5	K	1391	 68% 8% . 22%
5	Q	1391	 69% 8% . 22%
5	W	1391	 66% 10% . 22%
6	C	819	 56% 13% . 27%
6	I	819	 57% 12% . 27%
6	O	819	 54% 15% . . 27%
6	U	819	 57% 12% . 27%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 67036 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 Nucleoporin p54.

Mol	Chain	Residues	Atoms				AltConf	Trace
1	F	335	Total	C	N	O	0	0
			1658	988	335	335		
1	X	335	Total	C	N	O	0	0
			1658	988	335	335		
1	L	335	Total	C	N	O	0	0
			1658	988	335	335		
1	R	335	Total	C	N	O	0	0
			1658	988	335	335		

- Molecule 2 is a protein called Nucleoporin p58/p45.

Mol	Chain	Residues	Atoms				AltConf	Trace
2	G	171	Total	C	N	O	0	0
			853	511	171	171		
2	Y	171	Total	C	N	O	0	0
			853	511	171	171		
2	M	171	Total	C	N	O	0	0
			853	511	171	171		
2	S	171	Total	C	N	O	0	0
			853	511	171	171		

- Molecule 3 is a protein called Nuclear pore glycoprotein p62.

Mol	Chain	Residues	Atoms				AltConf	Trace
3	H	169	Total	C	N	O	0	0
			842	504	169	169		
3	Z	169	Total	C	N	O	0	0
			842	504	169	169		
3	N	169	Total	C	N	O	0	0
			842	504	169	169		
3	T	169	Total	C	N	O	0	0
			842	504	169	169		

- Molecule 4 is a protein called Nuclear pore complex protein Nup205.

Mol	Chain	Residues	Atoms				AltConf	Trace
4	P	1028	Total 5094	C 3038	N 1028	O 1028	0	0
4	V	1028	Total 5094	C 3038	N 1028	O 1028	0	0
4	D	1028	Total 5094	C 3038	N 1028	O 1028	0	0
4	J	1028	Total 5094	C 3038	N 1028	O 1028	0	0

- Molecule 5 is a protein called Nuclear pore complex protein Nup155.

Mol	Chain	Residues	Atoms				AltConf	Trace
5	W	1083	Total 5366	C 3200	N 1083	O 1083	0	0
5	K	1083	Total 5366	C 3200	N 1083	O 1083	0	0
5	E	1083	Total 5366	C 3200	N 1083	O 1083	0	0
5	Q	1083	Total 5366	C 3200	N 1083	O 1083	0	0

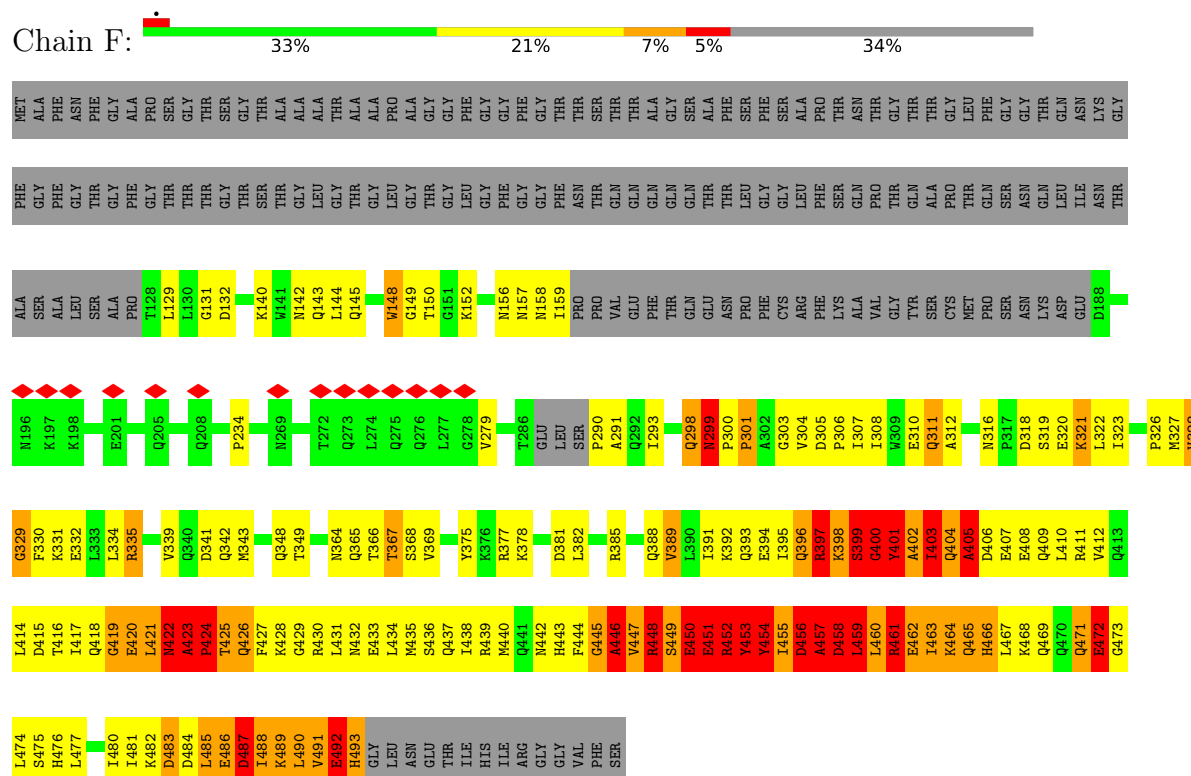
- Molecule 6 is a protein called Nuclear pore complex protein Nup93.

Mol	Chain	Residues	Atoms				AltConf	Trace
6	C	594	Total 2946	C 1758	N 594	O 594	0	0
6	I	594	Total 2946	C 1758	N 594	O 594	0	0
6	O	594	Total 2946	C 1758	N 594	O 594	0	0
6	U	594	Total 2946	C 1758	N 594	O 594	0	0

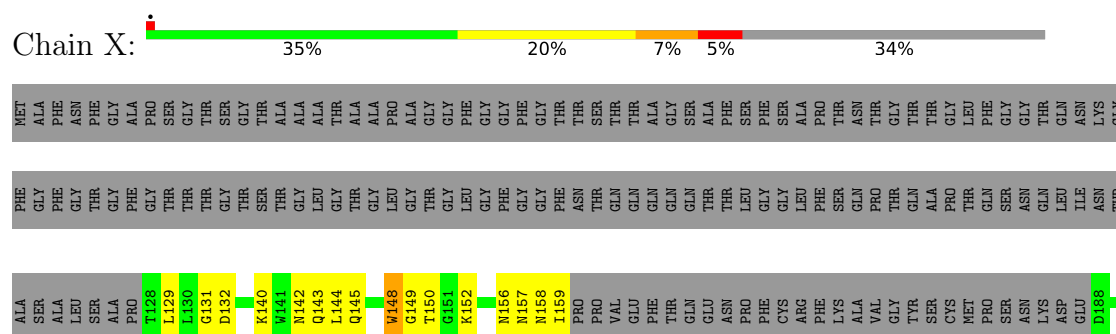
3 Residue-property plots

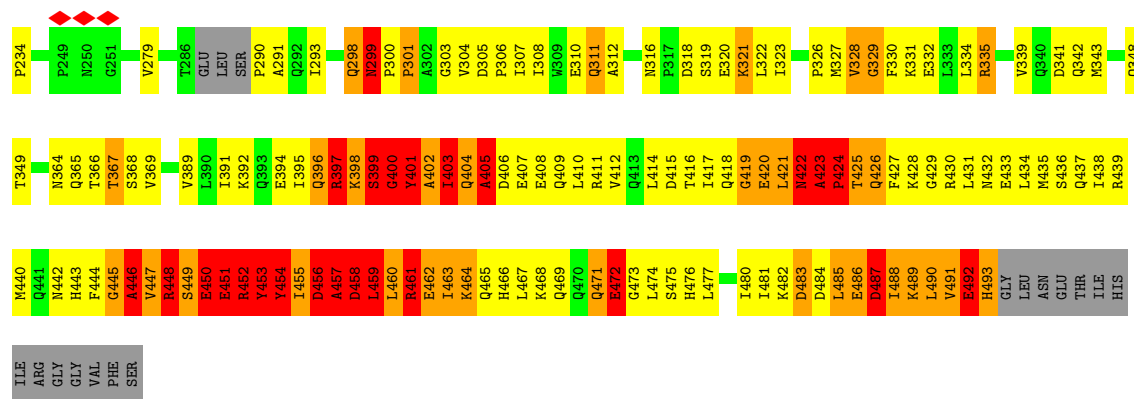
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Nucleoporin p54

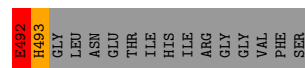
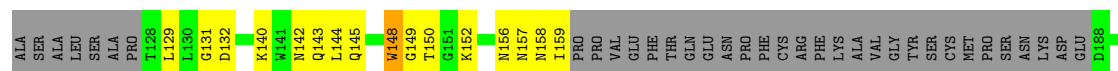
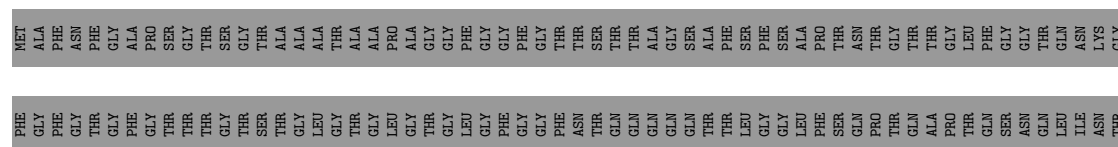


• Molecule 1: Nucleoporin p54

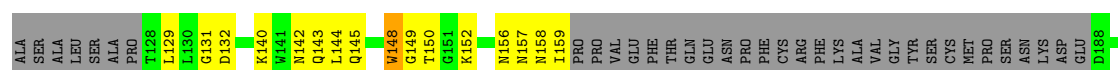
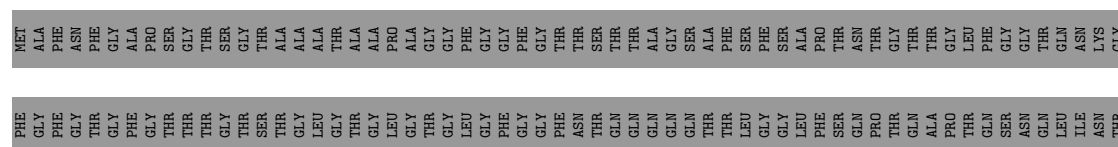
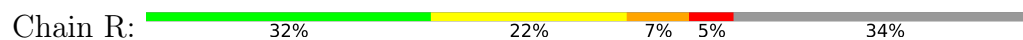


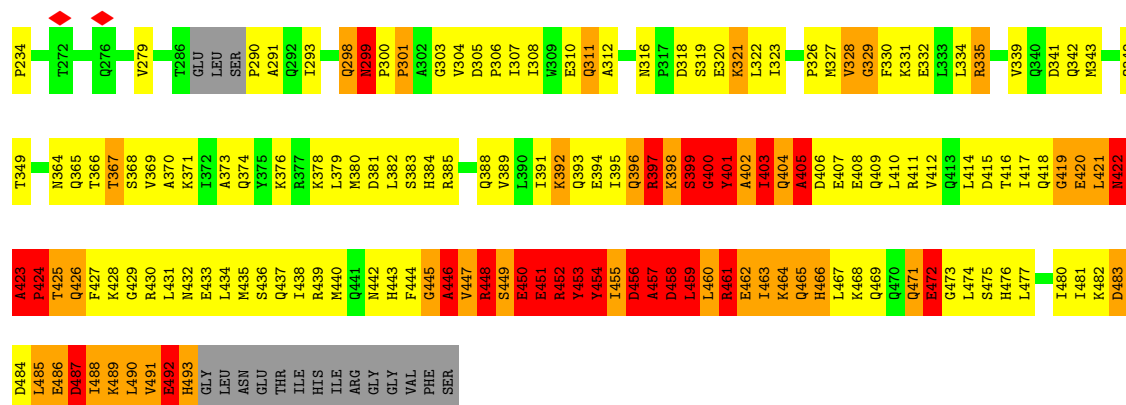


• Molecule 1: Nucleoporin p54



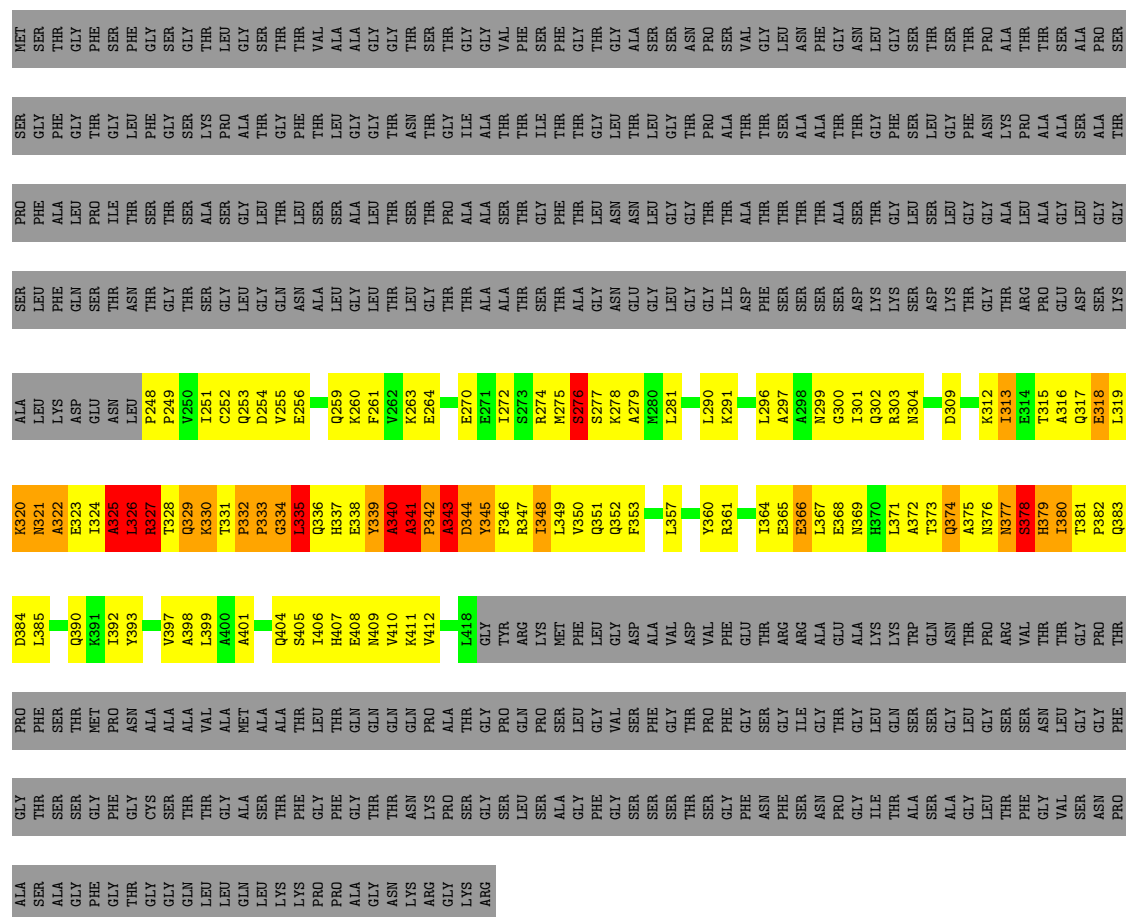
• Molecule 1: Nucleoporin p54





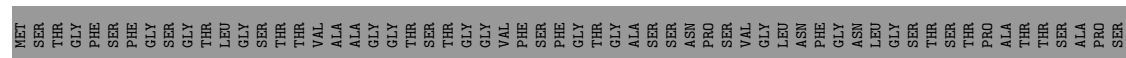
• Molecule 2: Nucleoporin p58/p45

Chain G: 10% 14% . . 71%



• Molecule 2: Nucleoporin p58/p45

Chain Y: 10% 14% . . 71%





SER	ALA	PHE	GLY	THR	GLY	CYS	THR	THR	GLY	ALA	SER	THR	PHE	GLY	PHE	GLY	THR	THR	ALA	SER	LEU	GLN	LYS	PRO	ARG	LYS	ARG
THR	SER	GLY	PHE	GLY	CYS	THR	THR	GLY	ALA	SER	THR	PHE	GLY	PHE	GLY	THR	THR	THR	ALA	SER	LEU	GLN	LYS	PRO	ARG	LYS	ARG

- Molecule 2: Nucleoporin p58/p45

Chain S: 10% 14% . . 71%

MET	SER	THR	THR	PHE	SER	PHE	GLY	SER	THR	THR	VAL	ALA	ALA	GLY	GLY	THR	THR	SER	SER	GLY	THR	GLY	ASN	SER	SER	PRO	PRO	VAL	GLY	GLY	LEU	ASN	PHE	GLY	ASN	LEU	GLY	SER	THR	THR	THR	PRO	ALA	THR	THR	SER	SER	ALA	ALA	PRO	SER
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SER	GLY	PHE	PHE	GLY	THR	LEU	PHE	GLY	LYS	PRO	ALA	THR	GLY	PHE	THR	THR	ASN	GLY	ILE	ALA	THR	THR	THR	THR	THR	THR	THR	GLY	LEU	THR	THR	SER	ALA	ALA	THR	THR	THR	THR	GLY	PHE	SER	SER	GLY	LEU	PHE	ASN	LYS	PRO	ALA	ALA	ALA	SER	SER	ALA	THR
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SER	PHE	LEU	GLN	SER	THR	ASN	THR	GLY	GLY	SER	SER	GLY	LEU	GLY	GLN	ASN	ALA	ALA	LEU	GLY	LEU	THR	THR	GLY	GLY	ALA	ALA	THR	SER	SER	THR	THR	GLY	GLY	GLY	GLY	ASP	PHE	SER	SER	SER	SER	ASP	ASP	LVS	LVS	LVS	SER	SER	ASP	LVS	LYS	LYS	THR	THR	GLY	THR	ARG	PRO	GLU	ASP	SER	SER	SER	LVS
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ALA	LEU	LYS	ASP	GLU	ASN	LEU	P248	P249	V250	L251	C252	Q253	D254	V255	E256	Q259	K260	P261	V262	K263	E264	E270	E271	L272	R273	R274	M275	S276	S277	K278	A279	W280	L281	L287	L290	A297	A298	N299	G300	I301	Q302	R303	N304	D309	K312	L313	E314	T315	A316	P317
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E318	L319	K320	N321	A322	E323	I324	A325	L326	R327	T328	Q329	K330	T331	P332	G333	G334	L335	G336	H337	E338	Y339	A340	A341	P342	A343	D344	Y345	F346	R347	L348	L349	V350	Q351	Q352	F353	L357	V360	R361	I364	E365	E366	L367	E368	N369	H370	L371	A372	T373	H374	H375	H376	H377	H378	H379	L380	T381
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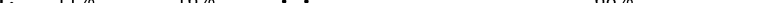
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PRO	THR	PRO	PHE	SER	THR	MET	PRO	ASN	ALA	ALA	VAL	ALA	ALA	MET	ALA	ALA	THR	LEU	THR	GLN	GLN	GLN	PRO	ALA	THR	GLY	GLN	PRO	PRO	SER	PRO	GLY	VAL	SER	PHE	GLY	THR	GLY	PHO	PHE	GLY	SER	GLY	ILE	GLY	THR	GLY	LEU	GLY	GLN	SER	SER	GLY	LEU	GLY	SER	SER	ASN	LEU	TYR
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GLY PHE GLY GLY THR SER SER GLY PHE GLY GLY GLY CYS SER SER THR THR GLY GLY ALA ALA SER SER PHE GLY PHE GLY THR THR ASN LYS PRO SER SER GLY GLY SER SER LEU SER ALA ALA PHE PHE GLY SER SER SER SER THR THR GLY PHE ASN PHE PHE SER SER ASN ASN PRO PRO GLY ILE THR THR ALA ALA ALA GLY LEU THR PHE GLY VAL SER

ASN	PRO	ALA	SER	ALA	GLY	PHE	GLY	THR	GLY	GLY	GLN	LEU	LEU	LEU	GLN	LEU	LYS	LYS	PRO	PRO	ALA	GLY	ASN	LYS	ARG	GLY	LYS	ARG
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- Molecule 3: Nuclear pore glycoprotein p62

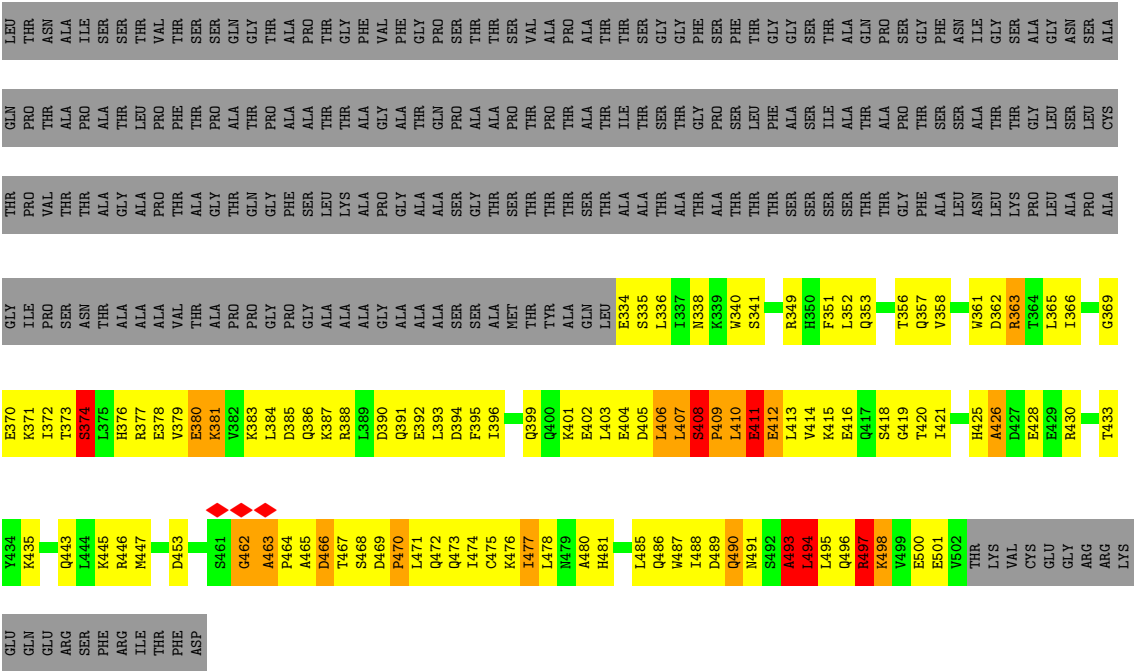
Chain H:  11% 16% . . 68%

MET	SER	GLY	PHE	ASN	PHE	GLY	GLY	THR	THR	GLY	ALA	PRO	THR	THR	GLY	GLY	PHE	PHE	GLY	GLY	ALA	LYS	ALA	LYS	THR	THR	ALA	PRO	ALA	THR	THR	GLY	PHE	PHE	SER	SER	THR	SER	SER	GLY	GLY	GLY	PHE	ASN	PHE	GLY	ALA	ALA	ALA	PRO	PHE	PHE	GLN	PRO	PRO	ALA	ALA	THR	THR	SER	SER	THR	THR	PRO	SER	THR	THR	GLY	GLY	PHE	LEU	PHE
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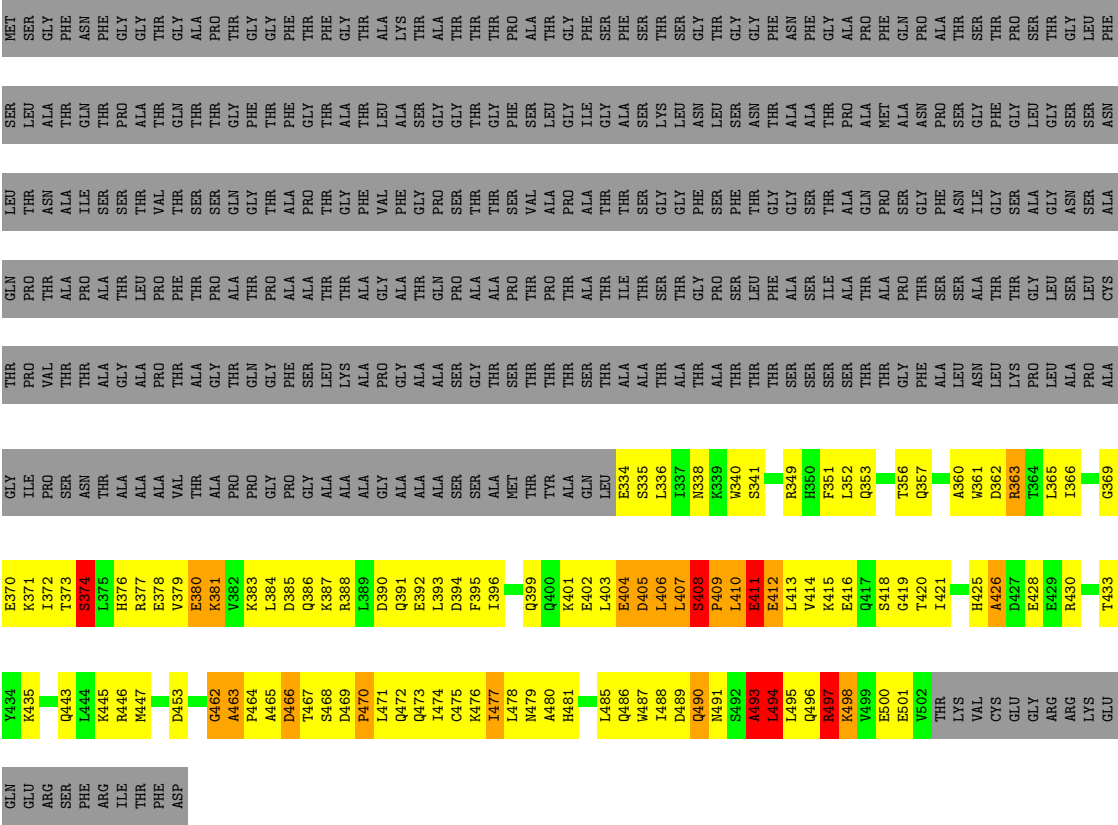
SER	LEU	ALA	THR	THR	GLN	PRO	THR	ALA	GLN	THR	THR	GLY	PHE	PHE	GLY	THR	THR	LEU	ALA	SER	SER	GLY	GLY	THR	GLY	PHE	SER	SER	LEU	GLY	ILE	GLY	ALA	ALA	SER	LYS	LEU	ASN	LEU	SER	SER	ASN	THR	THR	THR	PRO	PRO	PRO	ASN	GLY	PHE	GLY	GLY	SER	SER	SER	ASN
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LEU	THR	ASN	ILE	SER	THR	VAL	THR	SER	SER	GLN	GLY	THR	ALA	PRO	THR	GLY	PHE	VAL	PHE	GLY	PRO	SER	THR	THR	SER	SER	VAL	ALA	PRO	ALA	THR	THR	SER	SER	GLY	GLY	PHE	SER	SER	PHE	THR	THR	GLY	GLY	SER	THR	ALA	ALA	GLN	PRO	PRO	SER	GLY	PHE	ASN	ILE	GLY	SER	ALA	ALA	ASN	SER	ALA
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• Molecule 3: Nuclear pore glycoprotein p62



• Molecule 4: Nuclear pore complex protein Nup205

Category	Percentage
Very bad	40%
Bad	8%
Neutral	2%
Good	1%
Very good	49%





- Molecule 4: Nuclear pore complex protein Nup205

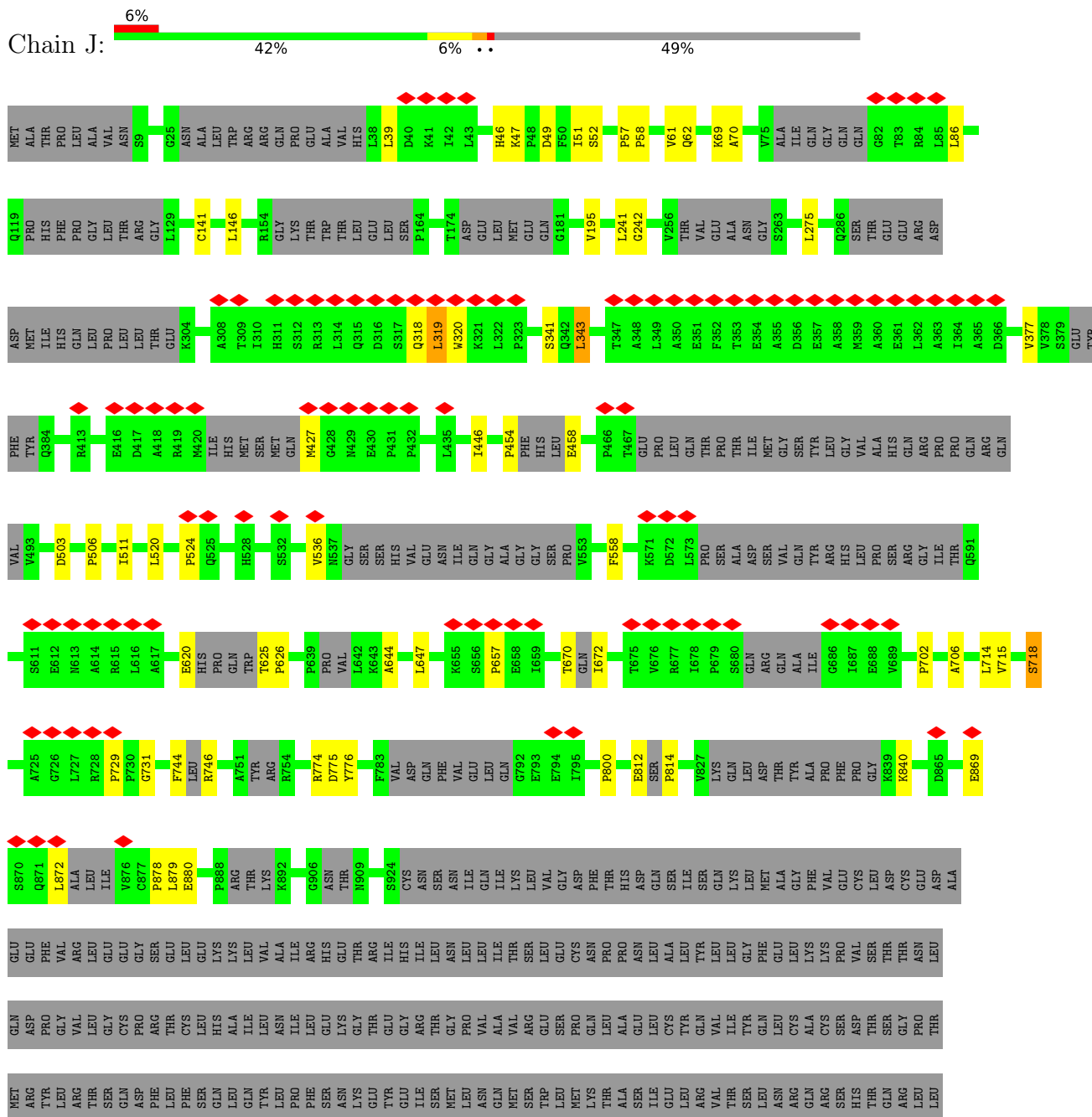
Chain D:



Met	ALA	THR	PRO	LEU	ALA	VAL	ASP	S9	G25	ASN	ALA	LEU	TRP	ARG	ARG	GLN	PRO	GLU	ALA	VAL	HIS	L38	L39	H46	K47	P48	D49	F50	I51	S52	P57	P58	K69	A70	V75	ALA	ILE	GLN	GLY	GLN	GLN	G62	L86	Q119	PRO	HIS	PHE	PRO	PRO	GLY	LEU	THR
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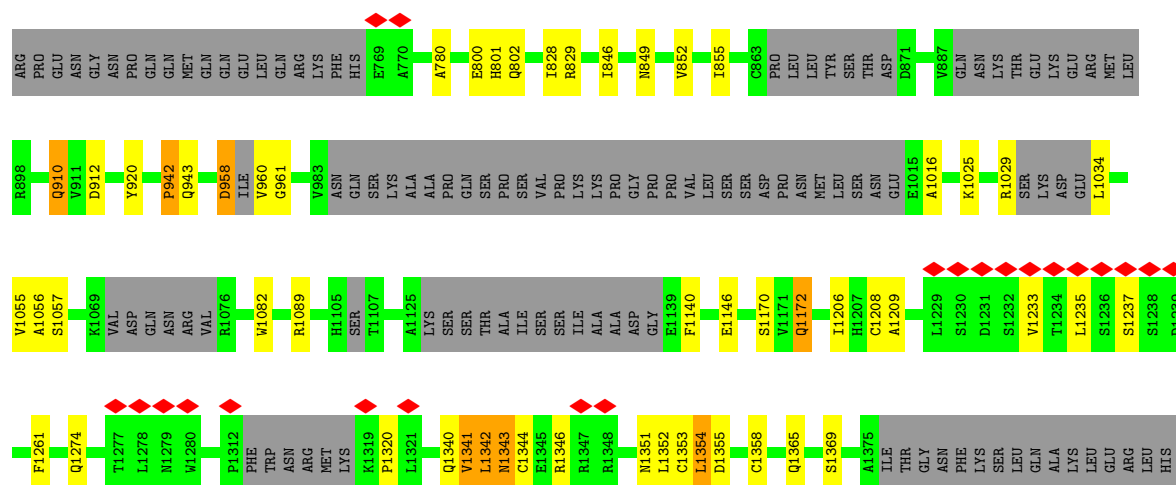
- Molecule 4: Nuclear pore complex protein Nup205





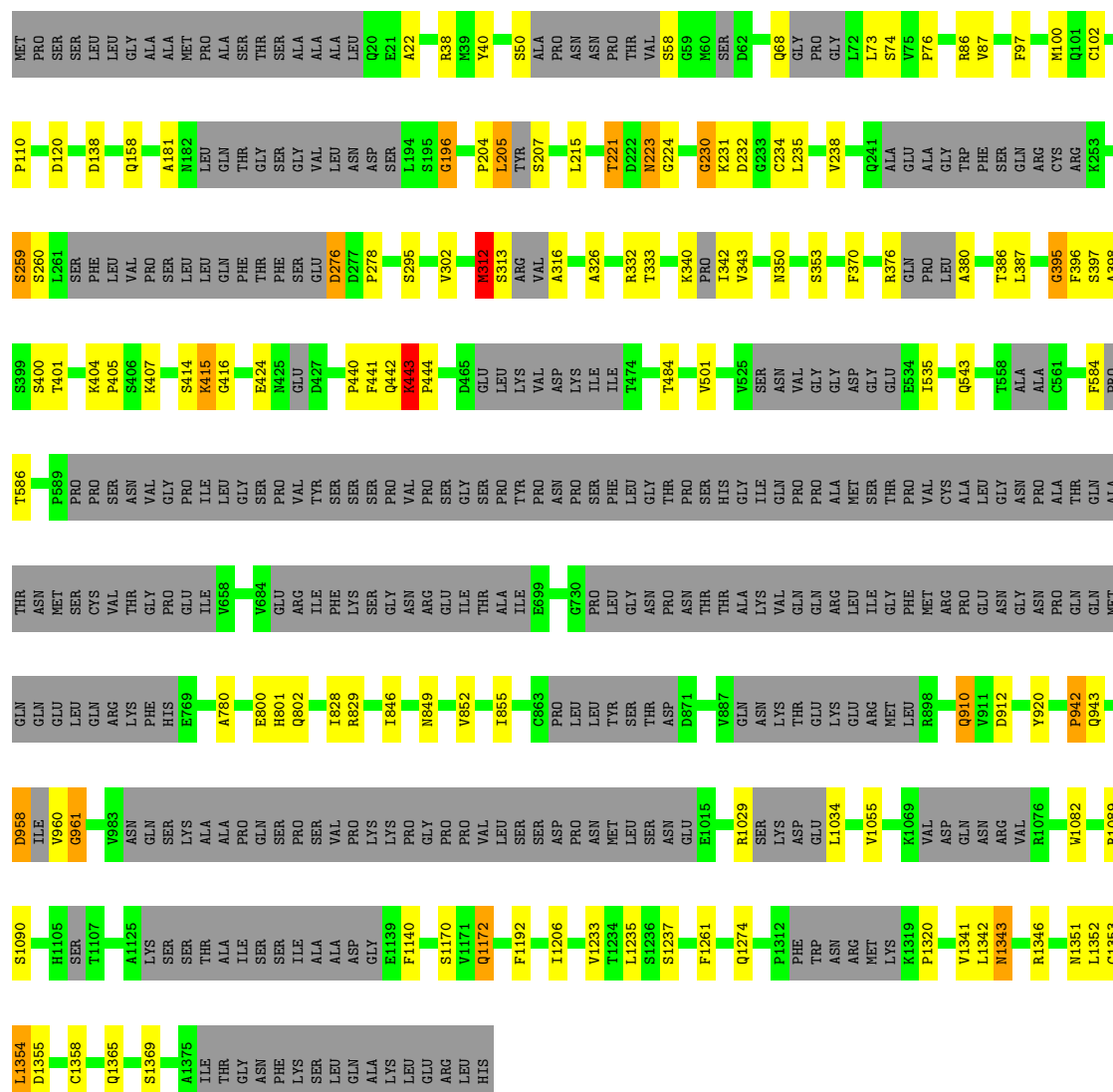
Frequency	Percentage
Daily	68%
Weekly	8%
Monthly	22%

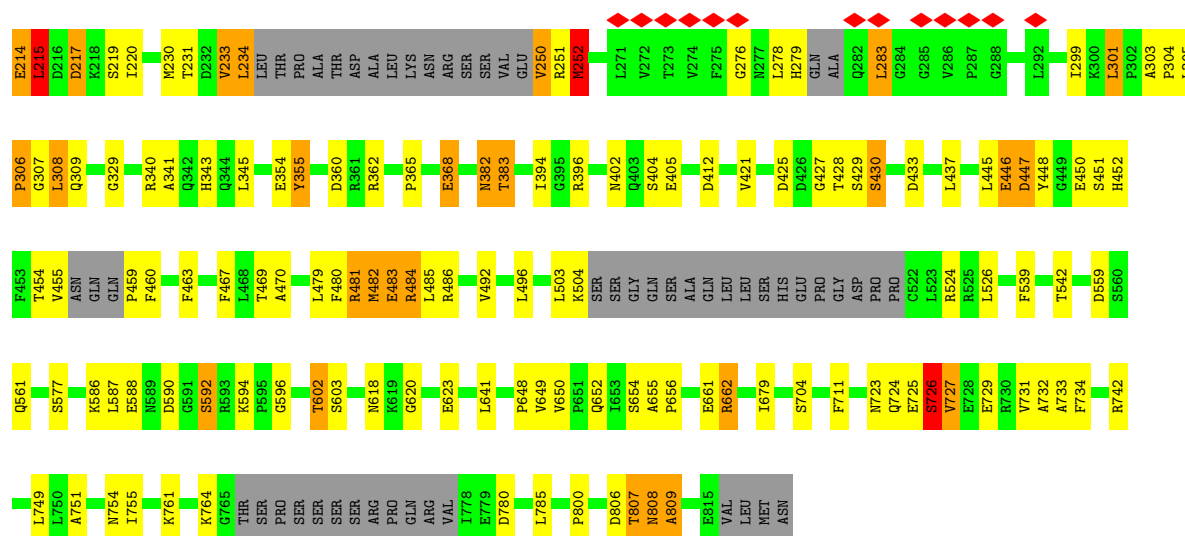




• Molecule 5: Nuclear pore complex protein Nup155

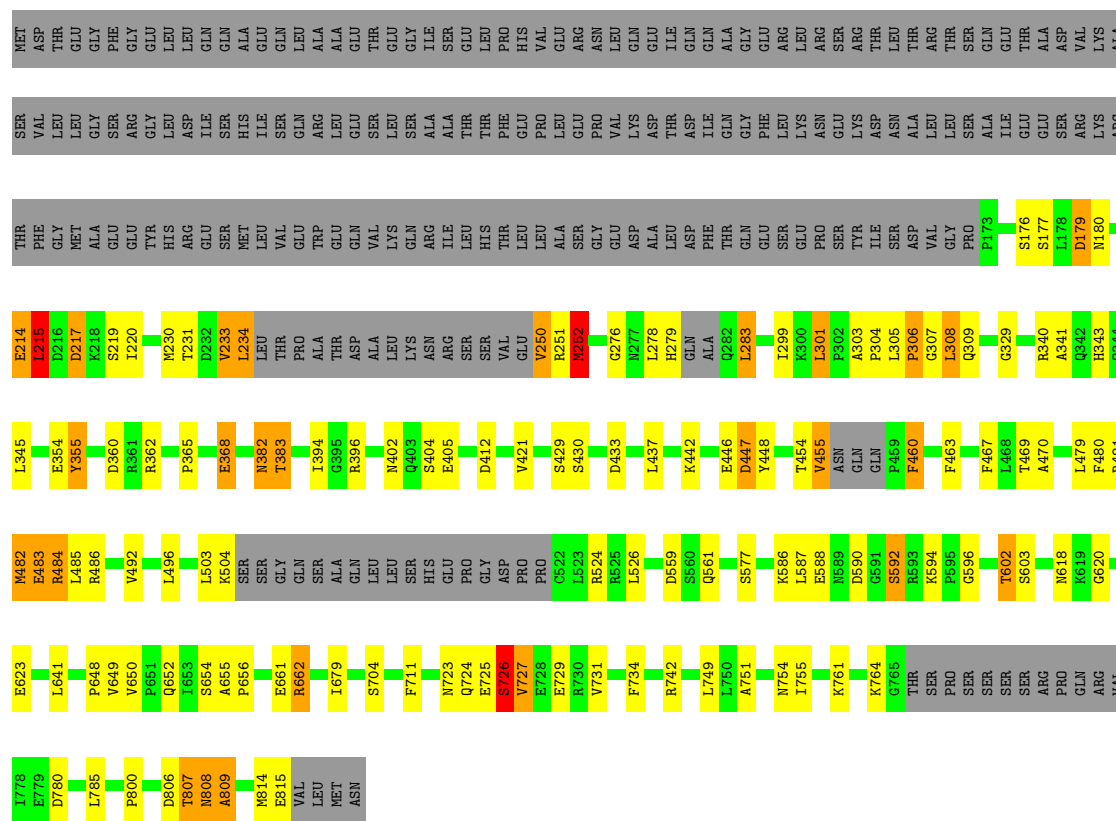
Chain E: 69% 8% 22%





• Molecule 6: Nuclear pore complex protein Nup93

Chain I: 57% 12% 27%



• Molecule 6: Nuclear pore complex protein Nup93

Chain O: 54% 15% 27%



4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C8	Depositor
Number of subtomograms used	1252	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	2.4	Depositor
Minimum defocus (nm)	2500	Depositor
Maximum defocus (nm)	5000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	1.000	Depositor
Minimum map value	0.000	Depositor
Average map value	0.351	Depositor
Map value standard deviation	0.050	Depositor
Recommended contour level	0.44	Depositor
Map size ($\text{\AA}$)	2188.8, 2188.8, 2188.8	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	6.84, 6.84, 6.84	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	F	6.00	262/1655 (15.8%)	5.15	365/2302 (15.9%)
1	L	6.00	263/1655 (15.9%)	5.15	364/2302 (15.8%)
1	R	6.01	265/1655 (16.0%)	5.14	363/2302 (15.8%)
1	X	6.00	264/1655 (16.0%)	5.15	364/2302 (15.8%)
2	G	6.74	152/852 (17.8%)	5.80	243/1190 (20.4%)
2	M	6.68	150/852 (17.6%)	5.78	241/1190 (20.3%)
2	S	6.69	153/852 (18.0%)	5.78	243/1190 (20.4%)
2	Y	6.69	151/852 (17.7%)	5.78	242/1190 (20.3%)
3	H	5.53	134/841 (15.9%)	5.00	246/1174 (21.0%)
3	N	5.52	134/841 (15.9%)	5.00	245/1174 (20.9%)
3	T	5.53	133/841 (15.8%)	5.00	249/1174 (21.2%)
3	Z	5.52	134/841 (15.9%)	5.00	245/1174 (20.9%)
4	D	2.04	102/5066 (2.0%)	2.95	284/7020 (4.0%)
4	J	2.04	101/5066 (2.0%)	2.95	285/7020 (4.1%)
4	P	2.04	103/5066 (2.0%)	2.95	288/7020 (4.1%)
4	V	2.04	100/5066 (2.0%)	2.95	287/7020 (4.1%)
5	E	1.56	1/5338 (0.0%)	1.81	94/7399 (1.3%)
5	K	1.56	1/5338 (0.0%)	1.82	94/7399 (1.3%)
5	Q	1.56	0/5338	1.82	91/7399 (1.2%)
5	W	1.56	0/5338	1.81	91/7399 (1.2%)
6	C	1.58	5/2938 (0.2%)	2.08	119/4086 (2.9%)
6	I	1.58	5/2938 (0.2%)	2.08	116/4086 (2.8%)
6	O	1.58	6/2938 (0.2%)	2.08	116/4086 (2.8%)
6	U	1.58	6/2938 (0.2%)	2.08	117/4086 (2.9%)
All	All	3.14	2625/66760 (3.9%)	3.17	5392/92684 (5.8%)

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	F	7	31

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	L	7	31
1	R	7	31
1	X	7	30
2	G	9	10
2	M	9	10
2	S	9	10
2	Y	9	10
3	H	5	5
3	N	5	5
3	T	5	5
3	Z	5	5
4	D	0	19
4	J	0	20
4	P	0	21
4	V	0	20
5	E	0	1
5	K	0	1
5	Q	0	1
5	W	0	1
All	All	84	267

All (2625) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Y	379	HIS	CA-C	72.09	2.49	1.52
2	G	379	HIS	CA-C	72.06	2.49	1.52
2	M	379	HIS	CA-C	72.05	2.49	1.52
2	S	379	HIS	CA-C	71.92	2.49	1.52
1	X	453	TYR	CA-C	70.49	2.47	1.52
1	R	453	TYR	CA-C	70.44	2.47	1.52
1	L	453	TYR	CA-C	70.36	2.47	1.52
1	F	453	TYR	CA-C	70.32	2.47	1.52
2	G	380	ILE	N-CA	64.87	2.23	1.46
2	Y	380	ILE	N-CA	63.47	2.23	1.46
2	M	380	ILE	N-CA	63.37	2.23	1.46
2	S	380	ILE	N-CA	63.24	2.23	1.46
2	G	379	HIS	C-N	56.17	1.99	1.33
3	Z	411	GLU	CA-C	54.98	2.26	1.52
3	T	411	GLU	CA-C	54.73	2.26	1.52
3	H	411	GLU	CA-C	54.71	2.26	1.52
3	N	411	GLU	CA-C	54.56	2.25	1.52
2	S	379	HIS	C-N	52.78	1.99	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Y	379	HIS	C-N	52.51	1.99	1.33
2	M	379	HIS	C-N	52.50	1.99	1.33
1	L	450	GLU	CA-C	47.88	2.17	1.52
1	X	450	GLU	CA-C	47.84	2.16	1.52
1	F	450	GLU	CA-C	47.83	2.16	1.52
1	R	450	GLU	CA-C	47.82	2.16	1.52
1	X	487	ASP	CA-C	43.02	2.13	1.52
1	L	487	ASP	CA-C	42.88	2.13	1.52
1	F	487	ASP	CA-C	42.87	2.13	1.52
1	R	487	ASP	CA-C	42.86	2.13	1.52
1	R	493	HIS	CA-C	-38.90	0.71	1.52
1	X	493	HIS	CA-C	-38.89	0.71	1.52
1	F	493	HIS	CA-C	-38.87	0.71	1.52
1	L	493	HIS	CA-C	-38.81	0.71	1.52
1	R	451	GLU	CA-C	36.87	2.02	1.52
1	L	451	GLU	CA-C	36.83	2.02	1.52
2	Y	327	ARG	CA-C	36.82	2.02	1.52
2	G	327	ARG	CA-C	36.81	2.02	1.52
1	F	451	GLU	CA-C	36.81	2.02	1.52
2	S	327	ARG	CA-C	36.73	2.02	1.52
1	X	451	GLU	CA-C	36.73	2.02	1.52
2	M	327	ARG	CA-C	36.59	2.01	1.52
1	L	493	HIS	CA-CB	36.22	2.25	1.53
1	F	493	HIS	CA-CB	36.19	2.25	1.53
1	X	493	HIS	CA-CB	36.14	2.25	1.53
1	R	493	HIS	CA-CB	36.09	2.25	1.53
1	F	458	ASP	C-N	35.01	1.82	1.33
1	R	458	ASP	C-N	34.99	1.82	1.33
1	X	458	ASP	C-N	34.91	1.82	1.33
1	L	458	ASP	C-N	34.84	1.82	1.33
1	F	401	TYR	N-CA	34.16	1.90	1.46
2	S	341	ALA	N-CA	34.08	1.94	1.46
1	R	401	TYR	N-CA	34.05	1.90	1.46
1	L	401	TYR	N-CA	34.01	1.90	1.46
1	X	401	TYR	N-CA	34.00	1.90	1.46
2	Y	341	ALA	N-CA	33.93	1.94	1.46
2	G	341	ALA	N-CA	33.88	1.94	1.46
2	M	341	ALA	N-CA	33.82	1.93	1.46
1	R	450	GLU	C-O	31.84	1.64	1.24
1	X	450	GLU	C-O	31.76	1.64	1.24
1	F	450	GLU	C-O	31.75	1.64	1.24
1	L	450	GLU	C-O	31.64	1.63	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	R	458	ASP	CA-C	31.44	1.95	1.52
1	L	458	ASP	CA-C	31.39	1.94	1.52
1	F	458	ASP	CA-C	31.33	1.94	1.52
1	X	458	ASP	CA-C	31.25	1.94	1.52
3	T	462	GLY	CA-C	30.94	1.85	1.52
3	Z	462	GLY	CA-C	30.74	1.85	1.52
3	H	462	GLY	CA-C	30.72	1.85	1.52
3	N	462	GLY	CA-C	30.70	1.85	1.52
1	R	343	MET	N-CA	-29.78	1.09	1.46
1	F	343	MET	N-CA	-29.73	1.09	1.46
1	X	343	MET	N-CA	-29.66	1.09	1.46
1	L	343	MET	N-CA	-29.65	1.09	1.46
1	R	455	ILE	C-N	-29.15	0.99	1.33
1	F	455	ILE	C-N	-28.93	0.99	1.33
1	X	457	ALA	N-CA	-28.91	1.08	1.46
1	L	457	ALA	N-CA	-28.88	1.08	1.46
1	X	455	ILE	C-N	-28.88	0.99	1.33
1	L	455	ILE	C-N	-28.86	0.99	1.33
1	F	457	ALA	N-CA	-28.74	1.09	1.46
1	R	457	ALA	N-CA	-28.70	1.09	1.46
3	H	411	GLU	C-N	28.38	1.69	1.33
3	T	411	GLU	C-N	28.33	1.69	1.33
3	N	411	GLU	C-N	28.30	1.69	1.33
3	Z	411	GLU	C-N	27.98	1.69	1.33
1	R	402	ALA	CA-C	27.68	1.89	1.52
1	F	402	ALA	CA-C	27.55	1.89	1.52
1	L	402	ALA	CA-C	27.50	1.89	1.52
1	X	402	ALA	CA-C	27.45	1.89	1.52
2	M	339	TYR	C-N	27.29	1.72	1.33
2	Y	339	TYR	C-N	27.25	1.72	1.33
2	S	339	TYR	C-N	27.24	1.72	1.33
2	G	339	TYR	C-N	27.23	1.72	1.33
2	M	341	ALA	CA-CB	-27.19	1.10	1.53
2	Y	341	ALA	CA-CB	-27.13	1.10	1.53
2	G	341	ALA	CA-CB	-27.11	1.10	1.53
2	S	341	ALA	CA-CB	-27.11	1.10	1.53
2	G	378	SER	CA-C	27.10	1.89	1.52
2	M	378	SER	CA-C	26.90	1.88	1.52
2	Y	378	SER	CA-C	26.87	1.88	1.52
1	R	459	LEU	C-N	-26.85	0.98	1.34
2	S	378	SER	CA-C	26.85	1.88	1.52
1	X	459	LEU	C-N	-26.78	0.98	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	459	LEU	C-N	-26.78	0.98	1.34
1	F	459	LEU	C-N	-26.76	0.98	1.34
2	M	326	LEU	N-CA	26.71	1.80	1.46
2	Y	326	LEU	N-CA	26.70	1.80	1.46
2	G	326	LEU	N-CA	26.51	1.80	1.46
2	S	326	LEU	N-CA	26.48	1.80	1.46
1	R	451	GLU	C-O	26.43	1.57	1.24
1	X	451	GLU	C-O	26.43	1.57	1.24
1	F	451	GLU	C-O	26.35	1.57	1.24
1	L	451	GLU	C-O	26.27	1.57	1.24
1	F	453	TYR	CA-CB	26.23	1.97	1.53
2	Y	352	GLN	N-CA	-26.21	1.14	1.46
4	P	1508	LYS	CA-C	-26.15	1.17	1.52
2	S	352	GLN	N-CA	-26.15	1.14	1.46
4	J	1508	LYS	CA-C	-26.14	1.17	1.52
1	X	453	TYR	CA-CB	26.12	1.97	1.53
4	V	1508	LYS	CA-C	-26.11	1.17	1.52
1	R	453	TYR	CA-CB	26.09	1.97	1.53
1	L	453	TYR	CA-CB	26.06	1.97	1.53
1	L	492	GLU	C-N	26.06	1.69	1.33
4	D	1508	LYS	CA-C	-26.03	1.17	1.52
1	F	492	GLU	C-N	25.97	1.69	1.33
1	X	492	GLU	C-N	25.95	1.69	1.33
2	M	352	GLN	N-CA	-25.95	1.15	1.46
2	G	352	GLN	N-CA	-25.94	1.15	1.46
1	R	492	GLU	C-N	25.85	1.69	1.33
1	F	400	GLY	N-CA	25.66	1.82	1.45
1	X	400	GLY	N-CA	25.62	1.82	1.45
1	R	400	GLY	N-CA	25.60	1.82	1.45
1	X	459	LEU	CA-C	25.59	1.87	1.52
1	L	400	GLY	N-CA	25.57	1.82	1.45
1	R	459	LEU	CA-C	25.48	1.86	1.52
1	X	299	ASN	CA-C	25.48	1.84	1.52
3	H	409	PRO	CA-C	25.44	1.88	1.52
1	F	459	LEU	CA-C	25.43	1.86	1.52
1	L	299	ASN	CA-C	25.38	1.84	1.52
1	F	299	ASN	CA-C	25.34	1.84	1.52
1	L	459	LEU	CA-C	25.34	1.86	1.52
1	R	299	ASN	CA-C	25.32	1.84	1.52
3	T	409	PRO	CA-C	25.29	1.88	1.52
3	Z	409	PRO	CA-C	25.27	1.88	1.52
3	N	409	PRO	CA-C	25.23	1.88	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Z	374	SER	CA-CB	25.05	1.96	1.53
3	H	374	SER	CA-CB	25.01	1.96	1.53
3	N	374	SER	CA-CB	24.92	1.96	1.53
3	T	374	SER	CA-CB	24.84	1.96	1.53
2	S	343	ALA	CA-C	24.56	1.85	1.52
2	Y	343	ALA	CA-C	24.51	1.85	1.52
1	L	472	GLU	N-CA	24.48	1.76	1.46
2	M	343	ALA	CA-C	24.46	1.85	1.52
2	G	343	ALA	CA-C	24.41	1.85	1.52
1	X	472	GLU	N-CA	24.40	1.76	1.46
1	F	472	GLU	N-CA	24.40	1.76	1.46
1	R	472	GLU	N-CA	24.36	1.76	1.46
3	N	408	SER	CA-C	-24.33	1.22	1.52
3	H	408	SER	CA-C	-24.31	1.22	1.52
3	T	408	SER	CA-C	-24.31	1.22	1.52
3	Z	408	SER	CA-C	-24.29	1.22	1.52
2	M	327	ARG	N-CA	24.27	1.77	1.46
2	G	327	ARG	N-CA	24.14	1.77	1.46
2	Y	327	ARG	N-CA	24.11	1.77	1.46
2	S	327	ARG	N-CA	24.02	1.77	1.46
2	S	344	ASP	CA-C	-23.92	1.20	1.52
3	T	494	LEU	CA-C	-23.86	1.20	1.52
1	F	367	THR	CA-C	23.83	1.85	1.52
2	Y	344	ASP	CA-C	-23.81	1.20	1.52
3	H	494	LEU	CA-C	-23.79	1.20	1.52
1	L	367	THR	CA-C	23.78	1.85	1.52
2	M	344	ASP	CA-C	-23.70	1.21	1.52
1	R	367	THR	CA-C	23.69	1.85	1.52
3	Z	494	LEU	CA-C	-23.66	1.21	1.52
2	G	344	ASP	CA-C	-23.64	1.21	1.52
3	N	494	LEU	CA-C	-23.58	1.21	1.52
1	X	367	THR	CA-C	23.58	1.85	1.52
2	M	379	HIS	N-CA	23.46	1.76	1.46
2	S	340	ALA	N-CA	-23.45	1.17	1.46
2	Y	379	HIS	N-CA	23.40	1.76	1.46
2	G	379	HIS	N-CA	23.40	1.76	1.46
2	G	340	ALA	N-CA	-23.35	1.17	1.46
2	Y	340	ALA	N-CA	-23.35	1.17	1.46
2	S	379	HIS	N-CA	23.34	1.76	1.46
1	X	454	TYR	CA-C	23.33	1.84	1.52
2	M	340	ALA	N-CA	-23.32	1.17	1.46
1	L	454	TYR	CA-C	23.30	1.83	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	454	TYR	CA-C	23.25	1.83	1.52
1	R	454	TYR	CA-C	23.21	1.83	1.52
1	R	453	TYR	N-CA	22.86	1.75	1.46
1	L	453	TYR	N-CA	22.77	1.75	1.46
1	F	453	TYR	N-CA	22.77	1.75	1.46
1	X	453	TYR	N-CA	22.64	1.75	1.46
3	H	363	ARG	CA-C	-22.41	1.23	1.52
1	F	454	TYR	C-N	22.36	1.64	1.33
1	R	454	TYR	C-N	22.33	1.64	1.33
3	T	363	ARG	CA-C	-22.30	1.23	1.52
1	L	454	TYR	C-N	22.28	1.64	1.33
2	G	276	SER	CA-C	22.27	1.82	1.52
3	Z	363	ARG	CA-C	-22.25	1.23	1.52
1	X	454	TYR	C-N	22.20	1.63	1.33
2	S	276	SER	CA-C	22.17	1.82	1.52
3	N	363	ARG	CA-C	-22.16	1.23	1.52
2	M	276	SER	CA-C	22.05	1.82	1.52
2	Y	276	SER	CA-C	22.05	1.82	1.52
1	R	455	ILE	CA-CB	21.94	1.84	1.54
1	X	335	ARG	CA-C	-21.92	1.25	1.52
1	X	455	ILE	CA-CB	21.83	1.84	1.54
1	L	455	ILE	CA-CB	21.76	1.84	1.54
1	F	455	ILE	CA-CB	21.75	1.84	1.54
1	R	335	ARG	CA-C	-21.73	1.25	1.52
1	L	335	ARG	CA-C	-21.72	1.25	1.52
1	F	335	ARG	CA-C	-21.63	1.25	1.52
1	L	453	TYR	C-O	21.41	1.50	1.24
1	F	453	TYR	C-O	21.39	1.50	1.24
1	R	453	TYR	C-O	21.34	1.50	1.24
2	G	328	THR	CA-C	-21.33	1.22	1.52
1	X	453	TYR	C-O	21.30	1.50	1.24
2	S	328	THR	CA-C	-21.25	1.23	1.52
2	Y	328	THR	CA-C	-21.20	1.23	1.52
2	M	328	THR	CA-C	-21.13	1.23	1.52
4	J	1517	SER	CA-C	-21.10	1.24	1.52
4	D	1517	SER	CA-C	-21.03	1.24	1.52
2	Y	331	THR	CA-C	-21.00	1.26	1.52
4	V	1517	SER	CA-C	-20.98	1.24	1.52
2	M	331	THR	CA-C	-20.95	1.26	1.52
4	P	1517	SER	CA-C	-20.91	1.24	1.52
2	G	331	THR	CA-C	-20.85	1.26	1.52
2	S	331	THR	CA-C	-20.84	1.26	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	N	413	LEU	N-CA	-20.67	1.21	1.46
3	Z	413	LEU	N-CA	-20.66	1.21	1.46
3	H	413	LEU	N-CA	-20.65	1.21	1.46
3	T	413	LEU	N-CA	-20.59	1.21	1.46
2	S	327	ARG	CA-CB	20.23	1.87	1.53
3	N	377	ARG	CA-C	-20.22	1.25	1.52
1	L	328	VAL	CA-C	20.15	1.75	1.52
2	G	327	ARG	CA-CB	20.14	1.87	1.53
2	Y	327	ARG	CA-CB	20.11	1.87	1.53
1	R	464	LYS	CA-C	-20.10	1.25	1.52
1	F	328	VAL	CA-C	20.10	1.75	1.52
1	X	328	VAL	CA-C	20.09	1.75	1.52
2	M	327	ARG	CA-CB	20.07	1.87	1.53
3	T	377	ARG	CA-C	-20.07	1.25	1.52
3	T	381	LYS	N-CA	20.06	1.72	1.46
3	H	381	LYS	N-CA	20.04	1.72	1.46
1	X	447	VAL	CA-CB	20.04	1.78	1.54
2	S	313	ILE	CA-CB	-20.01	1.30	1.54
1	L	447	VAL	CA-CB	20.00	1.78	1.54
3	H	377	ARG	CA-C	-19.98	1.25	1.52
3	Z	377	ARG	CA-C	-19.97	1.26	1.52
2	Y	313	ILE	CA-CB	-19.97	1.31	1.54
1	R	328	VAL	CA-C	19.96	1.75	1.52
1	L	450	GLU	N-CA	19.95	1.72	1.46
1	R	447	VAL	CA-CB	19.95	1.78	1.54
2	M	313	ILE	CA-CB	-19.94	1.31	1.54
1	R	450	GLU	N-CA	19.94	1.72	1.46
1	R	458	ASP	CA-CB	19.92	1.87	1.53
1	X	458	ASP	CA-CB	19.91	1.87	1.53
2	G	313	ILE	CA-CB	-19.90	1.31	1.54
1	X	450	GLU	N-CA	19.86	1.71	1.46
1	F	450	GLU	N-CA	19.86	1.71	1.46
3	N	381	LYS	N-CA	19.86	1.71	1.46
1	X	464	LYS	CA-C	-19.86	1.26	1.52
1	F	458	ASP	CA-CB	19.85	1.87	1.53
3	H	387	LYS	CA-C	-19.85	1.26	1.52
1	L	464	LYS	CA-C	-19.85	1.26	1.52
3	T	387	LYS	CA-C	-19.83	1.26	1.52
1	L	458	ASP	CA-CB	19.83	1.86	1.53
1	F	464	LYS	CA-C	-19.82	1.26	1.52
3	N	387	LYS	CA-C	-19.82	1.27	1.52
3	Z	381	LYS	N-CA	19.82	1.71	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	447	VAL	CA-CB	19.80	1.78	1.54
2	Y	326	LEU	CA-C	19.66	1.79	1.52
3	Z	387	LYS	CA-C	-19.64	1.27	1.52
2	G	326	LEU	CA-C	19.62	1.79	1.52
2	S	326	LEU	CA-C	19.59	1.79	1.52
1	X	456	ASP	CA-C	19.54	1.76	1.53
2	M	326	LEU	CA-C	19.50	1.78	1.52
2	S	325	ALA	CA-C	19.46	1.78	1.53
2	S	378	SER	C-N	19.41	1.60	1.33
2	G	325	ALA	CA-C	19.40	1.77	1.53
2	Y	378	SER	C-N	19.34	1.60	1.33
2	M	378	SER	C-N	19.32	1.60	1.33
1	L	456	ASP	CA-C	19.31	1.76	1.53
3	Z	463	ALA	N-CA	19.27	1.74	1.46
2	G	378	SER	C-N	19.26	1.60	1.33
1	F	456	ASP	CA-C	19.26	1.76	1.53
1	R	456	ASP	CA-C	19.25	1.76	1.53
3	N	463	ALA	N-CA	19.24	1.74	1.46
3	H	463	ALA	N-CA	19.18	1.74	1.46
3	T	463	ALA	N-CA	19.17	1.74	1.46
2	S	340	ALA	CA-C	19.05	1.72	1.53
2	M	340	ALA	CA-C	19.01	1.72	1.53
2	G	340	ALA	CA-C	18.96	1.72	1.53
2	Y	340	ALA	CA-C	18.96	1.72	1.53
1	R	483	ASP	CA-CB	18.95	1.85	1.53
1	F	483	ASP	CA-CB	18.85	1.85	1.53
1	X	483	ASP	CA-CB	18.80	1.85	1.53
1	L	483	ASP	CA-CB	18.74	1.85	1.53
1	L	311	GLN	CA-C	18.62	1.77	1.52
1	F	311	GLN	CA-C	18.60	1.77	1.52
1	X	311	GLN	CA-C	18.58	1.77	1.52
1	R	311	GLN	CA-C	18.55	1.77	1.52
2	M	325	ALA	CA-C	18.40	1.78	1.52
1	F	328	VAL	C-N	18.39	1.57	1.33
1	X	328	VAL	C-N	18.39	1.57	1.33
1	R	328	VAL	C-N	18.34	1.57	1.33
2	Y	325	ALA	CA-C	18.32	1.77	1.52
3	N	497	ARG	N-CA	18.32	1.69	1.46
1	F	488	ILE	N-CA	18.29	1.68	1.46
1	L	328	VAL	C-N	18.27	1.57	1.33
3	Z	497	ARG	N-CA	18.26	1.69	1.46
3	H	497	ARG	N-CA	18.26	1.69	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	T	497	ARG	N-CA	18.25	1.69	1.46
1	R	488	ILE	N-CA	18.23	1.67	1.46
1	X	488	ILE	N-CA	18.22	1.67	1.46
1	L	472	GLU	CA-CB	-18.19	1.24	1.53
1	L	488	ILE	N-CA	18.16	1.67	1.46
1	X	472	GLU	CA-CB	-18.11	1.24	1.53
1	R	472	GLU	CA-CB	-18.02	1.24	1.53
1	F	472	GLU	CA-CB	-18.01	1.24	1.53
1	X	471	GLN	CA-C	-17.98	1.29	1.52
1	F	471	GLN	CA-C	-17.95	1.29	1.52
1	L	471	GLN	CA-C	-17.94	1.29	1.52
1	R	471	GLN	CA-C	-17.71	1.29	1.52
2	G	320	LYS	N-CA	-17.69	1.23	1.46
1	X	427	PHE	CA-C	-17.63	1.30	1.52
1	F	427	PHE	CA-C	-17.60	1.30	1.52
1	R	427	PHE	CA-C	-17.54	1.30	1.52
1	F	457	ALA	CA-CB	17.49	1.83	1.53
1	R	457	ALA	CA-CB	17.48	1.83	1.53
1	X	457	ALA	CA-CB	17.46	1.82	1.53
1	L	457	ALA	CA-CB	17.43	1.82	1.53
2	M	320	LYS	N-CA	-17.42	1.23	1.46
2	S	320	LYS	N-CA	-17.39	1.23	1.46
2	Y	320	LYS	N-CA	-17.36	1.23	1.46
1	L	427	PHE	CA-C	-17.34	1.30	1.52
1	R	468	LYS	CA-C	-17.30	1.29	1.52
3	Z	374	SER	N-CA	-17.29	1.23	1.46
3	T	374	SER	N-CA	-17.29	1.23	1.46
1	X	468	LYS	CA-C	-17.29	1.29	1.52
1	F	468	LYS	CA-C	-17.28	1.29	1.52
1	L	329	GLY	N-CA	17.28	1.72	1.45
1	R	329	GLY	N-CA	17.26	1.71	1.45
1	F	329	GLY	N-CA	17.21	1.71	1.45
1	X	329	GLY	N-CA	17.17	1.71	1.45
1	L	468	LYS	CA-C	-17.16	1.29	1.52
3	H	374	SER	N-CA	-17.12	1.23	1.46
2	S	329	GLN	CA-C	-17.11	1.30	1.53
3	N	374	SER	N-CA	-17.11	1.23	1.46
2	G	329	GLN	CA-C	-17.08	1.30	1.53
3	T	373	THR	CA-CB	-17.04	1.26	1.53
3	N	373	THR	CA-CB	-17.03	1.26	1.53
3	Z	373	THR	CA-CB	-17.01	1.26	1.53
3	N	487	TRP	N-CA	-17.01	1.25	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	M	329	GLN	CA-C	-17.01	1.30	1.53
2	Y	329	GLN	CA-C	-17.00	1.30	1.53
3	Z	487	TRP	N-CA	-16.96	1.25	1.46
1	X	463	ILE	CA-C	16.96	1.74	1.52
1	L	463	ILE	CA-C	16.95	1.74	1.52
3	H	373	THR	CA-CB	-16.94	1.26	1.53
3	T	487	TRP	N-CA	-16.89	1.25	1.46
1	R	463	ILE	CA-C	16.87	1.74	1.52
1	R	402	ALA	CA-CB	-16.82	1.25	1.53
1	L	402	ALA	CA-CB	-16.81	1.25	1.53
1	X	402	ALA	CA-CB	-16.81	1.25	1.53
1	F	463	ILE	CA-C	16.80	1.74	1.52
3	H	487	TRP	N-CA	-16.78	1.26	1.46
1	L	423	ALA	CA-C	-16.68	1.31	1.52
1	F	402	ALA	CA-CB	-16.67	1.25	1.53
1	R	492	GLU	CA-C	16.64	1.75	1.52
1	F	492	GLU	CA-C	16.62	1.75	1.52
1	L	492	GLU	CA-C	16.60	1.75	1.52
1	F	423	ALA	CA-C	-16.57	1.31	1.52
1	R	423	ALA	CA-C	-16.57	1.31	1.52
1	X	423	ALA	CA-C	-16.50	1.32	1.52
1	X	492	GLU	CA-C	16.45	1.74	1.52
1	R	456	ASP	N-CA	-16.33	1.23	1.46
1	X	484	ASP	CA-C	-16.33	1.32	1.52
1	R	484	ASP	CA-C	-16.25	1.32	1.52
1	L	484	ASP	CA-C	-16.25	1.32	1.52
1	X	456	ASP	N-CA	-16.23	1.23	1.46
1	F	456	ASP	N-CA	-16.20	1.23	1.46
1	F	484	ASP	CA-C	-16.20	1.32	1.52
3	N	462	GLY	C-N	16.20	1.58	1.34
3	T	420	THR	CA-C	-16.17	1.31	1.52
3	H	462	GLY	C-N	16.15	1.57	1.34
3	H	385	ASP	CA-C	-16.13	1.32	1.52
3	Z	420	THR	CA-C	-16.13	1.31	1.52
3	T	385	ASP	CA-C	-16.12	1.32	1.52
1	L	456	ASP	N-CA	-16.11	1.23	1.46
3	Z	462	GLY	C-N	16.11	1.57	1.34
1	X	493	HIS	N-CA	16.10	1.76	1.46
3	H	420	THR	CA-C	-16.10	1.32	1.52
3	N	420	THR	CA-C	-16.07	1.32	1.52
3	N	385	ASP	CA-C	-16.07	1.32	1.52
3	T	462	GLY	C-N	16.06	1.57	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Z	385	ASP	CA-C	-16.00	1.32	1.52
1	R	493	HIS	N-CA	15.96	1.76	1.46
1	F	493	HIS	N-CA	15.94	1.76	1.46
1	X	367	THR	C-N	15.93	1.55	1.33
4	D	1512	TRP	N-CA	-15.93	1.26	1.46
1	L	461	ARG	N-CA	15.92	1.66	1.46
2	Y	393	TYR	N-CA	15.92	1.67	1.46
4	J	1512	TRP	N-CA	-15.91	1.26	1.46
2	S	393	TYR	N-CA	15.91	1.67	1.46
1	L	493	HIS	N-CA	15.89	1.76	1.46
1	X	461	ARG	N-CA	15.88	1.66	1.46
1	F	461	ARG	N-CA	15.88	1.66	1.46
4	P	1512	TRP	N-CA	-15.86	1.26	1.46
2	M	393	TYR	N-CA	15.82	1.67	1.46
4	V	1512	TRP	N-CA	-15.82	1.26	1.46
2	G	393	TYR	N-CA	15.75	1.67	1.46
2	G	369	ASN	CA-C	-15.73	1.31	1.52
1	R	461	ARG	N-CA	15.73	1.66	1.46
1	R	367	THR	C-N	15.72	1.54	1.33
1	F	367	THR	C-N	15.71	1.54	1.33
1	L	367	THR	C-N	15.68	1.54	1.33
3	T	487	TRP	CA-C	-15.66	1.32	1.52
3	H	402	GLU	CA-C	-15.64	1.32	1.52
3	T	402	GLU	CA-C	-15.64	1.32	1.52
3	T	411	GLU	C-O	-15.60	1.04	1.24
3	H	487	TRP	CA-C	-15.58	1.32	1.52
3	N	402	GLU	CA-C	-15.54	1.33	1.52
2	M	341	ALA	CA-C	15.54	1.72	1.52
2	G	341	ALA	CA-C	15.54	1.72	1.52
2	S	341	ALA	CA-C	15.53	1.72	1.52
2	G	348	ILE	CA-CB	-15.53	1.34	1.54
2	Y	369	ASN	CA-C	-15.53	1.31	1.52
3	H	411	GLU	C-O	-15.51	1.04	1.24
2	S	346	PHE	CA-C	-15.50	1.33	1.52
3	Z	411	GLU	C-O	-15.48	1.04	1.24
2	M	369	ASN	CA-C	-15.47	1.31	1.52
2	S	369	ASN	CA-C	-15.47	1.31	1.52
2	G	346	PHE	CA-C	-15.46	1.33	1.52
3	Z	402	GLU	CA-C	-15.44	1.33	1.52
2	M	346	PHE	CA-C	-15.44	1.33	1.52
3	N	411	GLU	C-O	-15.44	1.04	1.24
1	R	452	ARG	CA-C	15.44	1.73	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	452	ARG	CA-C	15.43	1.73	1.52
2	Y	346	PHE	CA-C	-15.43	1.33	1.52
1	X	452	ARG	CA-C	15.42	1.73	1.52
2	Y	348	ILE	CA-CB	-15.42	1.34	1.54
3	N	487	TRP	CA-C	-15.42	1.32	1.52
3	Z	487	TRP	CA-C	-15.40	1.32	1.52
2	M	348	ILE	CA-CB	-15.40	1.34	1.54
2	Y	341	ALA	CA-C	15.37	1.72	1.52
1	L	420	GLU	CA-C	-15.35	1.33	1.52
1	L	452	ARG	CA-C	15.35	1.73	1.52
3	N	341	SER	CA-CB	-15.35	1.29	1.53
3	H	341	SER	CA-CB	-15.32	1.29	1.53
2	S	348	ILE	CA-CB	-15.32	1.34	1.54
1	R	445	GLY	N-CA	-15.31	1.26	1.45
1	F	445	GLY	N-CA	-15.30	1.26	1.45
3	T	341	SER	CA-CB	-15.29	1.29	1.53
1	R	368	SER	N-CA	15.27	1.66	1.46
1	R	420	GLU	CA-C	-15.23	1.33	1.52
3	Z	341	SER	CA-CB	-15.21	1.29	1.53
1	X	420	GLU	CA-C	-15.20	1.33	1.52
1	F	420	GLU	CA-C	-15.20	1.33	1.52
1	L	445	GLY	N-CA	-15.19	1.26	1.45
1	X	445	GLY	N-CA	-15.17	1.26	1.45
1	L	452	ARG	C-N	15.13	1.54	1.33
1	X	368	SER	N-CA	15.13	1.66	1.46
1	X	444	PHE	CA-C	15.12	1.72	1.52
2	S	327	ARG	C-N	15.12	1.56	1.33
2	G	327	ARG	C-N	15.10	1.56	1.33
1	L	368	SER	N-CA	15.10	1.66	1.46
3	H	388	ARG	N-CA	-15.10	1.28	1.46
2	Y	327	ARG	C-N	15.08	1.56	1.33
1	F	368	SER	N-CA	15.06	1.66	1.46
2	M	327	ARG	C-N	15.06	1.56	1.33
3	N	388	ARG	N-CA	-15.04	1.28	1.46
1	F	452	ARG	C-N	15.03	1.54	1.33
1	X	452	ARG	C-N	15.03	1.54	1.33
1	R	444	PHE	CA-C	15.00	1.72	1.52
1	R	452	ARG	C-N	14.99	1.54	1.33
3	N	412	GLU	CA-C	-14.98	1.35	1.53
1	F	444	PHE	CA-C	14.96	1.72	1.52
3	Z	335	SER	CA-C	-14.96	1.33	1.52
3	H	335	SER	CA-C	-14.95	1.33	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	T	388	ARG	N-CA	-14.93	1.28	1.46
3	Z	388	ARG	N-CA	-14.93	1.28	1.46
3	T	335	SER	CA-C	-14.90	1.33	1.52
4	P	1511	GLN	CA-C	-14.89	1.32	1.52
4	J	1511	GLN	CA-C	-14.86	1.32	1.52
3	N	335	SER	CA-C	-14.86	1.33	1.52
3	T	412	GLU	CA-C	-14.86	1.35	1.53
3	Z	412	GLU	CA-C	-14.85	1.35	1.53
1	L	444	PHE	CA-C	14.85	1.72	1.52
3	H	412	GLU	CA-C	-14.83	1.35	1.53
4	D	1511	GLN	CA-C	-14.83	1.32	1.52
1	R	331	LYS	CA-C	-14.83	1.31	1.52
1	R	349	THR	CA-C	-14.78	1.33	1.52
1	L	349	THR	CA-C	-14.77	1.33	1.52
1	F	349	THR	CA-C	-14.76	1.33	1.52
1	X	349	THR	CA-C	-14.75	1.33	1.52
3	T	414	VAL	CA-C	14.71	1.72	1.52
1	L	331	LYS	CA-C	-14.70	1.31	1.52
4	V	1511	GLN	CA-C	-14.69	1.32	1.52
1	R	435	MET	CA-C	14.67	1.71	1.52
3	N	414	VAL	CA-C	14.66	1.71	1.52
3	H	394	ASP	CA-C	-14.62	1.33	1.52
1	X	435	MET	CA-C	14.61	1.71	1.52
1	F	435	MET	CA-C	14.61	1.71	1.52
1	X	331	LYS	CA-C	-14.61	1.32	1.52
1	F	331	LYS	CA-C	-14.60	1.32	1.52
3	H	414	VAL	CA-C	14.59	1.71	1.52
1	L	435	MET	CA-C	14.59	1.71	1.52
3	T	497	ARG	CA-CB	-14.58	1.28	1.53
3	Z	414	VAL	CA-C	14.58	1.71	1.52
3	Z	497	ARG	CA-CB	-14.54	1.28	1.53
3	N	497	ARG	CA-CB	-14.53	1.28	1.53
3	H	490	GLN	CA-CB	14.52	1.75	1.53
3	N	490	GLN	CA-CB	14.51	1.75	1.53
3	H	497	ARG	CA-CB	-14.49	1.28	1.53
3	N	394	ASP	CA-C	-14.47	1.33	1.52
3	T	394	ASP	CA-C	-14.47	1.33	1.52
4	D	1542	PRO	N-CA	-14.46	1.28	1.47
3	Z	394	ASP	CA-C	-14.45	1.33	1.52
3	T	490	GLN	CA-CB	14.44	1.75	1.53
2	S	328	THR	CA-CB	14.43	1.74	1.54
4	J	1542	PRO	N-CA	-14.43	1.28	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	451	GLU	CA-CB	14.41	1.77	1.53
3	Z	490	GLN	CA-CB	14.40	1.75	1.53
2	G	328	THR	CA-CB	14.40	1.74	1.54
2	Y	328	THR	CA-CB	14.35	1.74	1.54
4	V	1542	PRO	N-CA	-14.34	1.28	1.47
1	R	451	GLU	CA-CB	14.33	1.77	1.53
1	F	451	GLU	CA-CB	14.31	1.77	1.53
4	P	1542	PRO	N-CA	-14.30	1.29	1.47
1	X	403	ILE	CA-CB	-14.28	1.35	1.54
1	R	454	TYR	CA-CB	14.27	1.77	1.53
4	V	1521	TYR	N-CA	-14.27	1.28	1.46
1	X	454	TYR	CA-CB	14.27	1.77	1.53
3	T	411	GLU	N-CA	14.26	1.64	1.46
3	N	411	GLU	N-CA	14.26	1.64	1.46
1	R	428	LYS	CA-C	-14.22	1.34	1.52
3	Z	411	GLU	N-CA	14.21	1.64	1.46
4	P	1521	TYR	N-CA	-14.21	1.28	1.46
1	F	454	TYR	CA-CB	14.20	1.77	1.53
4	D	1521	TYR	N-CA	-14.20	1.28	1.46
1	F	403	ILE	CA-CB	-14.19	1.35	1.54
1	R	403	ILE	CA-CB	-14.18	1.35	1.54
3	H	411	GLU	N-CA	14.17	1.64	1.46
1	L	451	GLU	CA-CB	14.17	1.77	1.53
2	M	328	THR	CA-CB	14.16	1.73	1.54
1	L	403	ILE	CA-CB	-14.15	1.35	1.54
1	L	454	TYR	CA-CB	14.15	1.77	1.53
3	T	416	GLU	CA-C	-14.14	1.35	1.52
4	J	1521	TYR	N-CA	-14.12	1.28	1.46
2	G	366	GLU	CA-CB	14.11	1.76	1.53
3	T	490	GLN	CA-C	14.09	1.71	1.52
3	N	490	GLN	CA-C	14.08	1.71	1.52
3	T	445	LYS	N-CA	-14.07	1.29	1.46
3	H	490	GLN	CA-C	14.04	1.71	1.52
3	H	356	THR	N-CA	-14.04	1.28	1.46
2	M	366	GLU	CA-CB	14.03	1.76	1.53
3	N	445	LYS	N-CA	-14.03	1.29	1.46
3	N	356	THR	N-CA	-14.02	1.28	1.46
4	J	1544	PRO	CA-C	14.02	1.65	1.52
1	F	428	LYS	CA-C	-14.01	1.34	1.52
2	Y	329	GLN	N-CA	-14.01	1.32	1.46
3	Z	356	THR	N-CA	-14.01	1.28	1.46
4	P	1544	PRO	CA-C	14.01	1.65	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	N	416	GLU	CA-C	-14.00	1.35	1.52
3	Z	416	GLU	CA-C	-13.99	1.35	1.52
3	T	356	THR	N-CA	-13.99	1.28	1.46
4	D	1544	PRO	CA-C	13.99	1.65	1.52
3	Z	490	GLN	CA-C	13.98	1.71	1.52
2	S	366	GLU	CA-CB	13.98	1.76	1.53
2	Y	366	GLU	CA-CB	13.97	1.76	1.53
2	G	329	GLN	N-CA	-13.93	1.32	1.46
4	V	1544	PRO	CA-C	13.92	1.65	1.52
2	M	329	GLN	N-CA	-13.92	1.32	1.46
3	H	416	GLU	CA-C	-13.90	1.35	1.52
1	X	428	LYS	CA-C	-13.90	1.34	1.52
4	V	1485	ALA	CA-C	-13.89	1.34	1.52
3	Z	445	LYS	N-CA	-13.88	1.29	1.46
3	H	445	LYS	N-CA	-13.87	1.29	1.46
4	J	1485	ALA	CA-C	-13.86	1.34	1.52
1	L	428	LYS	CA-C	-13.82	1.34	1.52
2	S	329	GLN	N-CA	-13.78	1.32	1.46
1	X	457	ALA	CA-C	13.72	1.71	1.52
1	F	457	ALA	CA-C	13.70	1.71	1.52
4	D	1485	ALA	CA-C	-13.68	1.34	1.52
4	P	1485	ALA	CA-C	-13.63	1.34	1.52
1	R	463	ILE	N-CA	-13.61	1.29	1.46
3	T	412	GLU	C-N	-13.59	1.15	1.33
3	N	490	GLN	N-CA	-13.59	1.27	1.45
1	R	457	ALA	CA-C	13.59	1.71	1.52
3	Z	490	GLN	N-CA	-13.59	1.27	1.45
1	L	457	ALA	CA-C	13.57	1.71	1.52
1	F	487	ASP	N-CA	-13.56	1.28	1.46
1	F	463	ILE	N-CA	-13.55	1.29	1.46
1	L	143	GLN	N-CA	13.54	1.63	1.46
1	F	299	ASN	C-N	13.53	1.49	1.33
2	S	338	GLU	C-N	13.53	1.53	1.33
1	F	486	GLU	CA-CB	-13.51	1.31	1.53
1	R	458	ASP	N-CA	13.51	1.63	1.46
1	L	299	ASN	C-N	13.50	1.49	1.33
1	L	463	ILE	N-CA	-13.49	1.29	1.46
2	M	338	GLU	C-N	13.48	1.52	1.33
1	X	458	ASP	N-CA	13.48	1.63	1.46
3	Z	412	GLU	C-N	-13.47	1.16	1.33
1	R	424	PRO	CA-C	-13.47	1.33	1.52
1	X	487	ASP	N-CA	-13.47	1.28	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	T	490	GLN	N-CA	-13.46	1.27	1.45
1	L	424	PRO	CA-C	-13.44	1.33	1.52
1	R	299	ASN	C-N	13.44	1.49	1.33
1	R	487	ASP	N-CA	-13.43	1.28	1.46
1	X	463	ILE	N-CA	-13.43	1.29	1.46
3	H	490	GLN	N-CA	-13.42	1.27	1.45
1	F	424	PRO	CA-C	-13.38	1.33	1.52
1	X	486	GLU	CA-CB	-13.38	1.31	1.53
1	R	143	GLN	N-CA	13.38	1.63	1.46
3	Z	495	LEU	N-CA	-13.37	1.29	1.46
1	X	299	ASN	C-N	13.37	1.49	1.33
1	L	487	ASP	N-CA	-13.37	1.28	1.46
4	V	1488	GLY	CA-C	-13.36	1.35	1.51
1	F	143	GLN	N-CA	13.35	1.63	1.46
3	N	495	LEU	N-CA	-13.34	1.29	1.46
1	R	486	GLU	CA-CB	-13.34	1.31	1.53
1	X	424	PRO	CA-C	-13.34	1.33	1.52
1	L	449	SER	C-N	13.34	1.52	1.33
1	L	458	ASP	N-CA	13.32	1.63	1.46
3	H	412	GLU	C-N	-13.32	1.16	1.33
1	F	458	ASP	N-CA	13.30	1.63	1.46
3	N	412	GLU	C-N	-13.30	1.16	1.33
2	G	338	GLU	C-N	13.29	1.52	1.33
1	L	486	GLU	CA-CB	-13.29	1.31	1.53
1	F	449	SER	C-N	13.26	1.52	1.33
1	X	449	SER	C-N	13.26	1.52	1.33
3	N	414	VAL	CA-CB	13.24	1.71	1.54
3	H	495	LEU	N-CA	-13.24	1.29	1.46
1	X	143	GLN	N-CA	13.23	1.63	1.46
2	S	339	TYR	CA-CB	-13.23	1.34	1.52
3	T	495	LEU	N-CA	-13.21	1.29	1.46
2	Y	338	GLU	C-N	13.21	1.52	1.33
2	G	313	ILE	N-CA	13.21	1.62	1.46
4	D	1488	GLY	CA-C	-13.19	1.35	1.51
1	R	449	SER	C-N	13.19	1.52	1.33
4	J	1488	GLY	CA-C	-13.18	1.35	1.51
2	G	339	TYR	CA-CB	-13.17	1.34	1.52
1	X	343	MET	CA-C	13.17	1.69	1.52
2	Y	313	ILE	N-CA	13.17	1.61	1.46
1	R	343	MET	CA-C	13.16	1.69	1.52
1	L	343	MET	CA-C	13.15	1.69	1.52
3	T	370	GLU	CA-C	13.15	1.69	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	M	339	TYR	CA-CB	-13.14	1.35	1.52
3	N	370	GLU	CA-C	13.14	1.69	1.52
4	P	1488	GLY	CA-C	-13.14	1.35	1.51
3	Z	370	GLU	CA-C	13.14	1.69	1.52
2	S	313	ILE	N-CA	13.12	1.61	1.46
3	H	370	GLU	CA-C	13.12	1.69	1.52
2	Y	339	TYR	CA-CB	-13.11	1.35	1.52
3	Z	414	VAL	CA-CB	13.10	1.71	1.54
1	X	461	ARG	CA-CB	-13.09	1.31	1.53
1	R	461	ARG	CA-CB	-13.06	1.31	1.53
3	H	414	VAL	CA-CB	13.06	1.71	1.54
1	F	461	ARG	CA-CB	-13.05	1.31	1.53
1	F	343	MET	CA-C	13.03	1.69	1.52
1	L	461	ARG	CA-CB	-13.03	1.31	1.53
3	Z	410	LEU	C-N	13.01	1.51	1.33
1	L	432	ASN	N-CA	-13.01	1.29	1.46
1	X	452	ARG	C-O	12.98	1.40	1.24
3	N	410	LEU	C-N	12.98	1.51	1.33
1	R	452	ARG	C-O	12.98	1.40	1.24
3	T	414	VAL	CA-CB	12.98	1.71	1.54
4	D	1546	LEU	CA-C	-12.97	1.35	1.52
1	F	432	ASN	N-CA	-12.95	1.29	1.46
1	L	452	ARG	C-O	12.95	1.40	1.24
1	X	426	GLN	CA-C	-12.94	1.36	1.52
3	H	410	LEU	C-N	12.92	1.51	1.33
4	V	1520	GLY	CA-C	-12.91	1.33	1.51
1	F	452	ARG	C-O	12.90	1.40	1.24
4	J	1546	LEU	CA-C	-12.89	1.35	1.52
1	X	432	ASN	N-CA	-12.88	1.29	1.46
2	M	313	ILE	N-CA	12.86	1.61	1.46
4	J	1520	GLY	CA-C	-12.85	1.33	1.51
1	R	426	GLN	CA-C	-12.84	1.36	1.52
3	H	409	PRO	CA-CB	-12.84	1.35	1.53
4	V	1546	LEU	CA-C	-12.83	1.35	1.52
1	R	432	ASN	N-CA	-12.83	1.29	1.46
1	L	426	GLN	CA-C	-12.82	1.36	1.52
4	P	1520	GLY	CA-C	-12.81	1.33	1.51
4	D	1520	GLY	CA-C	-12.80	1.33	1.51
1	X	311	GLN	CA-CB	-12.80	1.32	1.53
3	T	409	PRO	CA-CB	-12.79	1.35	1.53
4	P	1546	LEU	CA-C	-12.79	1.35	1.52
1	F	426	GLN	CA-C	-12.79	1.36	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	T	410	LEU	C-N	12.78	1.51	1.33
4	V	1516	LEU	CA-C	-12.78	1.36	1.52
1	L	311	GLN	CA-CB	-12.77	1.32	1.53
1	F	311	GLN	CA-CB	-12.76	1.32	1.53
3	N	409	PRO	CA-CB	-12.74	1.35	1.53
1	R	311	GLN	CA-CB	-12.71	1.32	1.53
4	J	1507	ASP	N-CA	-12.70	1.30	1.46
4	P	1507	ASP	N-CA	-12.70	1.30	1.46
2	M	366	GLU	CA-C	-12.67	1.35	1.52
4	D	1507	ASP	N-CA	-12.66	1.30	1.46
3	Z	409	PRO	CA-CB	-12.60	1.35	1.53
4	J	1474	GLY	CA-C	-12.60	1.37	1.51
4	V	1512	TRP	CA-C	-12.59	1.36	1.52
2	Y	366	GLU	CA-C	-12.54	1.35	1.52
4	V	1507	ASP	N-CA	-12.54	1.30	1.46
3	T	493	ALA	CA-C	12.53	1.70	1.52
4	D	1512	TRP	CA-C	-12.51	1.36	1.52
2	S	366	GLU	CA-C	-12.50	1.35	1.52
4	J	1516	LEU	CA-C	-12.50	1.36	1.52
4	P	1516	LEU	CA-C	-12.49	1.36	1.52
4	P	1512	TRP	CA-C	-12.48	1.36	1.52
3	T	408	SER	N-CA	-12.48	1.28	1.46
4	P	1474	GLY	CA-C	-12.48	1.37	1.51
4	D	1474	GLY	CA-C	-12.47	1.37	1.51
3	Z	493	ALA	CA-C	12.46	1.70	1.52
2	G	366	GLU	CA-C	-12.46	1.35	1.52
3	H	408	SER	N-CA	-12.43	1.28	1.46
3	N	408	SER	N-CA	-12.41	1.28	1.46
3	H	493	ALA	CA-C	12.41	1.70	1.52
4	D	1516	LEU	CA-C	-12.39	1.36	1.52
3	N	493	ALA	CA-C	12.36	1.70	1.52
3	Z	408	SER	N-CA	-12.34	1.28	1.46
4	J	1512	TRP	CA-C	-12.33	1.36	1.52
2	Y	405	SER	CA-CB	-12.32	1.34	1.53
4	V	1474	GLY	CA-C	-12.31	1.37	1.51
1	X	422	ASN	CA-C	-12.29	1.36	1.52
2	S	405	SER	CA-CB	-12.28	1.34	1.53
2	G	405	SER	CA-CB	-12.25	1.34	1.53
1	L	422	ASN	CA-C	-12.19	1.36	1.52
2	M	405	SER	CA-CB	-12.18	1.34	1.53
1	L	485	LEU	N-CA	12.17	1.63	1.46
2	S	343	ALA	N-CA	-12.17	1.30	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	305	ASP	CA-CB	-12.16	1.28	1.53
1	R	422	ASN	CA-C	-12.15	1.36	1.52
1	R	305	ASP	CA-CB	-12.15	1.29	1.53
2	G	343	ALA	N-CA	-12.14	1.30	1.46
3	T	388	ARG	CA-C	-12.14	1.37	1.52
1	F	422	ASN	CA-C	-12.14	1.36	1.52
1	X	485	LEU	N-CA	12.13	1.63	1.46
2	Y	380	ILE	CA-C	12.13	1.66	1.52
2	Y	277	SER	N-CA	12.11	1.60	1.46
1	F	485	LEU	N-CA	12.11	1.63	1.46
2	S	380	ILE	CA-C	12.11	1.66	1.52
3	T	392	GLU	N-CA	12.10	1.61	1.46
2	M	277	SER	N-CA	12.10	1.60	1.46
2	M	343	ALA	N-CA	-12.09	1.30	1.46
3	N	392	GLU	N-CA	12.09	1.60	1.46
1	F	144	LEU	CA-CB	12.08	1.73	1.53
3	Z	392	GLU	N-CA	12.07	1.60	1.46
2	M	380	ILE	CA-C	12.06	1.66	1.52
1	X	305	ASP	CA-CB	-12.06	1.29	1.53
2	G	277	SER	N-CA	12.05	1.60	1.46
1	X	144	LEU	CA-CB	12.05	1.73	1.53
3	N	388	ARG	CA-C	-12.05	1.37	1.52
1	R	448	ARG	N-CA	12.05	1.61	1.46
1	L	144	LEU	CA-CB	12.04	1.73	1.53
3	H	388	ARG	CA-C	-12.01	1.37	1.52
1	F	305	ASP	CA-CB	-12.00	1.29	1.53
3	Z	388	ARG	CA-C	-12.00	1.37	1.52
2	S	277	SER	N-CA	12.00	1.60	1.46
1	R	485	LEU	N-CA	11.99	1.63	1.46
2	Y	343	ALA	N-CA	-11.98	1.30	1.46
3	H	392	GLU	N-CA	11.97	1.60	1.46
4	P	1521	TYR	CA-C	-11.95	1.37	1.52
1	R	144	LEU	CA-CB	11.93	1.73	1.53
4	J	1521	TYR	CA-C	-11.92	1.37	1.52
3	H	497	ARG	CA-C	-11.91	1.36	1.52
3	T	497	ARG	CA-C	-11.90	1.36	1.52
1	F	440	MET	CA-CB	-11.90	1.34	1.53
1	R	440	MET	CA-CB	-11.89	1.34	1.53
2	Y	340	ALA	C-O	-11.88	1.09	1.23
2	G	340	ALA	C-O	-11.87	1.09	1.23
2	S	340	ALA	C-O	-11.87	1.09	1.23
1	X	440	MET	CA-CB	-11.85	1.34	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	393	TYR	CA-C	11.85	1.69	1.52
3	T	391	GLN	C-N	11.84	1.49	1.33
4	V	1521	TYR	CA-C	-11.83	1.37	1.52
1	L	440	MET	CA-CB	-11.82	1.35	1.53
3	N	497	ARG	CA-C	-11.81	1.36	1.52
3	N	391	GLN	C-N	11.81	1.49	1.33
3	Z	497	ARG	CA-C	-11.80	1.36	1.52
3	H	391	GLN	C-N	11.78	1.49	1.33
2	Y	393	TYR	CA-C	11.78	1.69	1.52
3	H	391	GLN	CA-C	11.77	1.68	1.52
2	S	332	PRO	CA-C	-11.77	1.41	1.52
2	S	393	TYR	CA-C	11.76	1.69	1.52
2	G	332	PRO	CA-C	-11.75	1.41	1.52
2	M	393	TYR	CA-C	11.75	1.69	1.52
2	M	340	ALA	C-O	-11.75	1.09	1.23
2	S	352	GLN	CA-CB	11.73	1.71	1.53
3	Z	391	GLN	C-N	11.72	1.49	1.33
4	V	1451	ARG	CA-C	-11.70	1.37	1.52
2	G	352	GLN	CA-CB	11.69	1.71	1.53
4	D	1521	TYR	CA-C	-11.68	1.37	1.52
3	Z	391	GLN	CA-C	11.66	1.68	1.52
3	T	391	GLN	CA-C	11.64	1.68	1.52
4	P	1451	ARG	CA-C	-11.60	1.37	1.52
4	J	1451	ARG	CA-C	-11.59	1.37	1.52
1	R	144	LEU	N-CA	-11.58	1.30	1.46
2	Y	332	PRO	CA-C	-11.56	1.41	1.52
3	H	380	GLU	CA-CB	11.56	1.72	1.53
1	L	144	LEU	N-CA	-11.55	1.30	1.46
2	S	377	ASN	N-CA	-11.55	1.31	1.46
4	D	1451	ARG	CA-C	-11.55	1.37	1.52
1	F	144	LEU	N-CA	-11.54	1.30	1.46
1	X	144	LEU	N-CA	-11.54	1.30	1.46
3	Z	491	ASN	N-CA	-11.54	1.32	1.46
3	N	391	GLN	CA-C	11.54	1.68	1.52
3	T	380	GLU	CA-CB	11.51	1.72	1.53
1	L	448	ARG	N-CA	11.49	1.61	1.46
2	M	352	GLN	CA-CB	11.49	1.71	1.53
2	M	361	ARG	N-CA	11.49	1.60	1.46
2	Y	352	GLN	CA-CB	11.48	1.71	1.53
2	G	377	ASN	N-CA	-11.48	1.31	1.46
3	Z	380	GLU	CA-CB	11.47	1.72	1.53
2	Y	377	ASN	N-CA	-11.45	1.31	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	M	377	ASN	N-CA	-11.42	1.31	1.46
2	M	332	PRO	CA-C	-11.39	1.41	1.52
2	G	361	ARG	N-CA	11.38	1.60	1.46
2	S	361	ARG	N-CA	11.39	1.60	1.46
1	X	450	GLU	C-N	11.38	1.49	1.33
1	L	450	GLU	C-N	11.38	1.49	1.33
2	S	264	GLU	N-CA	11.38	1.60	1.46
2	Y	361	ARG	N-CA	11.35	1.60	1.46
3	T	366	ILE	CA-CB	-11.34	1.41	1.54
1	F	450	GLU	C-N	11.34	1.49	1.33
1	F	400	GLY	CA-C	-11.33	1.35	1.51
1	F	448	ARG	N-CA	11.32	1.61	1.46
3	N	491	ASN	N-CA	-11.32	1.32	1.46
3	T	491	ASN	N-CA	-11.31	1.32	1.46
1	X	448	ARG	N-CA	11.31	1.61	1.46
1	L	321	LYS	N-CA	-11.31	1.31	1.46
1	L	400	GLY	CA-C	-11.31	1.35	1.51
3	H	366	ILE	CA-CB	-11.30	1.41	1.54
3	N	366	ILE	CA-CB	-11.30	1.41	1.54
1	R	450	GLU	C-N	11.30	1.49	1.33
2	Y	264	GLU	N-CA	11.29	1.60	1.46
1	X	321	LYS	N-CA	-11.29	1.31	1.46
1	F	439	ARG	N-CA	-11.27	1.31	1.46
1	F	321	LYS	N-CA	-11.26	1.31	1.46
1	R	400	GLY	CA-C	-11.25	1.36	1.51
1	L	439	ARG	N-CA	-11.24	1.31	1.46
1	R	321	LYS	N-CA	-11.24	1.31	1.46
1	X	400	GLY	CA-C	-11.24	1.36	1.51
1	R	439	ARG	N-CA	-11.23	1.31	1.46
3	Z	366	ILE	CA-CB	-11.23	1.41	1.54
3	H	491	ASN	N-CA	-11.21	1.32	1.46
2	S	404	GLN	CA-C	-11.21	1.37	1.52
1	X	487	ASP	CA-CB	11.21	1.73	1.53
1	L	429	GLY	CA-C	-11.20	1.40	1.52
1	X	439	ARG	N-CA	-11.20	1.31	1.46
2	M	404	GLN	CA-C	-11.19	1.37	1.52
2	Y	404	GLN	CA-C	-11.19	1.37	1.52
2	G	264	GLU	N-CA	11.18	1.59	1.46
1	L	487	ASP	CA-CB	11.18	1.73	1.53
1	F	429	GLY	CA-C	-11.17	1.40	1.52
2	M	264	GLU	N-CA	11.16	1.59	1.46
1	R	487	ASP	CA-CB	11.16	1.73	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	429	GLY	CA-C	-11.15	1.40	1.52
1	F	487	ASP	CA-CB	11.15	1.73	1.53
4	D	1520	GLY	N-CA	-11.15	1.29	1.45
4	J	1511	GLN	N-CA	-11.12	1.31	1.46
1	R	429	GLY	CA-C	-11.08	1.40	1.52
4	V	1520	GLY	N-CA	-11.07	1.29	1.45
4	D	1489	HIS	N-CA	-11.07	1.31	1.46
4	P	1520	GLY	N-CA	-11.05	1.29	1.45
4	P	1542	PRO	CA-C	11.02	1.68	1.52
2	G	404	GLN	CA-C	-11.01	1.37	1.52
2	M	338	GLU	CA-C	-11.01	1.36	1.52
2	S	338	GLU	CA-C	-11.00	1.36	1.52
4	D	1542	PRO	CA-C	10.97	1.68	1.52
3	T	409	PRO	C-N	10.96	1.49	1.33
3	N	409	PRO	C-N	10.94	1.49	1.33
4	V	1489	HIS	N-CA	-10.94	1.31	1.46
3	T	381	LYS	CA-CB	10.92	1.71	1.53
3	Z	381	LYS	CA-CB	10.91	1.71	1.53
4	V	1511	GLN	N-CA	-10.91	1.32	1.46
2	Y	338	GLU	CA-C	-10.89	1.37	1.52
1	L	456	ASP	C-N	10.89	1.49	1.33
1	F	306	PRO	CA-C	10.88	1.68	1.52
2	G	338	GLU	CA-C	-10.88	1.37	1.52
1	R	306	PRO	CA-C	10.88	1.68	1.52
4	J	1520	GLY	N-CA	-10.87	1.29	1.45
3	Z	409	PRO	C-N	10.86	1.49	1.33
4	V	1542	PRO	CA-C	10.86	1.67	1.52
1	X	456	ASP	C-N	10.86	1.48	1.33
4	D	1511	GLN	N-CA	-10.86	1.32	1.46
2	G	341	ALA	C-O	-10.85	1.10	1.24
1	L	306	PRO	CA-C	10.85	1.68	1.52
2	S	254	ASP	N-CA	-10.85	1.33	1.46
3	N	380	GLU	CA-CB	10.84	1.72	1.53
4	P	1489	HIS	N-CA	-10.82	1.31	1.46
1	X	306	PRO	CA-C	10.81	1.68	1.52
2	Y	343	ALA	CA-CB	-10.80	1.35	1.53
3	H	409	PRO	C-N	10.79	1.48	1.33
4	P	1450	GLU	N-CA	-10.79	1.32	1.46
2	Y	401	ALA	CA-CB	-10.78	1.36	1.53
4	P	1511	GLN	N-CA	-10.77	1.32	1.46
4	J	1450	GLU	N-CA	-10.77	1.32	1.46
4	J	1542	PRO	CA-C	10.77	1.67	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	1489	HIS	N-CA	-10.75	1.31	1.46
2	S	401	ALA	CA-CB	-10.73	1.36	1.53
4	V	1509	GLN	N-CA	-10.73	1.33	1.46
2	Y	254	ASP	N-CA	-10.72	1.33	1.46
2	S	333	PRO	N-CA	-10.72	1.33	1.47
3	N	381	LYS	CA-CB	10.70	1.71	1.53
4	D	1509	GLN	N-CA	-10.69	1.33	1.46
2	G	254	ASP	N-CA	-10.68	1.33	1.46
2	G	333	PRO	N-CA	-10.68	1.33	1.47
2	Y	333	PRO	N-CA	-10.68	1.33	1.47
2	M	341	ALA	C-O	-10.68	1.10	1.24
2	M	333	PRO	N-CA	-10.67	1.33	1.47
2	M	343	ALA	CA-CB	-10.67	1.35	1.53
2	Y	341	ALA	C-O	-10.67	1.10	1.24
2	M	401	ALA	CA-CB	-10.66	1.36	1.53
3	H	381	LYS	CA-CB	10.66	1.71	1.53
4	D	1450	GLU	N-CA	-10.64	1.32	1.46
1	R	456	ASP	C-N	10.64	1.48	1.33
3	T	410	LEU	CA-C	10.64	1.67	1.52
2	S	343	ALA	CA-CB	-10.63	1.35	1.53
1	F	456	ASP	C-N	10.62	1.48	1.33
2	M	254	ASP	N-CA	-10.62	1.33	1.46
4	J	1509	GLN	N-CA	-10.62	1.33	1.46
3	N	410	LEU	CA-C	10.62	1.67	1.52
2	G	401	ALA	CA-CB	-10.61	1.36	1.53
2	S	341	ALA	C-O	-10.61	1.10	1.24
1	L	435	MET	C-N	10.60	1.46	1.33
4	V	1450	GLU	N-CA	-10.59	1.32	1.46
1	F	435	MET	C-N	10.58	1.46	1.33
2	G	343	ALA	CA-CB	-10.58	1.35	1.53
4	P	1509	GLN	N-CA	-10.58	1.33	1.46
1	L	466	HIS	CA-C	-10.57	1.38	1.52
1	X	466	HIS	CA-C	-10.56	1.38	1.52
1	F	320	GLU	N-CA	10.55	1.60	1.46
1	X	435	MET	C-N	10.54	1.46	1.33
1	F	466	HIS	CA-C	-10.53	1.38	1.52
2	G	249	PRO	N-CA	10.53	1.60	1.47
1	X	394	GLU	CA-C	10.52	1.67	1.52
2	M	249	PRO	N-CA	10.50	1.60	1.47
1	R	408	GLU	CA-C	-10.48	1.38	1.52
1	R	435	MET	C-N	10.47	1.46	1.33
2	S	249	PRO	N-CA	10.46	1.60	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	419	GLY	C-N	10.46	1.46	1.33
2	Y	274	ARG	CA-C	-10.46	1.39	1.52
1	X	408	GLU	CA-C	-10.46	1.38	1.52
1	R	466	HIS	CA-C	-10.46	1.38	1.52
1	X	419	GLY	C-N	10.45	1.46	1.33
2	Y	249	PRO	N-CA	10.45	1.60	1.47
3	T	366	ILE	N-CA	-10.46	1.34	1.46
2	G	274	ARG	CA-C	-10.45	1.39	1.52
1	F	307	ILE	N-CA	10.45	1.59	1.46
1	L	320	GLU	N-CA	10.44	1.59	1.46
2	S	334	GLY	CA-C	10.43	1.63	1.52
3	H	410	LEU	CA-C	10.43	1.67	1.52
1	R	307	ILE	N-CA	10.43	1.59	1.46
1	F	408	GLU	CA-C	-10.42	1.38	1.52
2	M	274	ARG	CA-C	-10.41	1.39	1.52
1	X	320	GLU	N-CA	10.40	1.59	1.46
3	N	366	ILE	N-CA	-10.40	1.34	1.46
3	Z	410	LEU	CA-C	10.40	1.67	1.52
3	H	357	GLN	CA-C	-10.40	1.39	1.52
1	L	443	HIS	CA-C	10.39	1.66	1.52
2	S	274	ARG	CA-C	-10.39	1.39	1.52
1	L	485	LEU	CA-CB	-10.39	1.35	1.53
1	R	419	GLY	C-N	10.38	1.46	1.33
3	T	357	GLN	CA-C	-10.38	1.39	1.52
1	L	408	GLU	CA-C	-10.38	1.38	1.52
1	F	394	GLU	CA-C	10.37	1.67	1.52
4	V	1519	SER	N-CA	-10.37	1.32	1.46
1	X	443	HIS	CA-C	10.35	1.66	1.52
4	V	1510	GLN	N-CA	-10.35	1.32	1.46
3	N	357	GLN	CA-C	-10.34	1.39	1.52
3	Z	357	GLN	CA-C	-10.34	1.39	1.52
1	X	307	ILE	N-CA	10.34	1.58	1.46
4	P	1519	SER	N-CA	-10.33	1.32	1.46
1	R	443	HIS	CA-C	10.33	1.66	1.52
4	D	1519	SER	N-CA	-10.32	1.32	1.46
2	M	252	CYS	CA-CB	10.32	1.68	1.53
1	L	307	ILE	N-CA	10.32	1.58	1.46
1	R	394	GLU	CA-C	10.31	1.67	1.52
1	L	394	GLU	CA-C	10.30	1.67	1.52
1	L	419	GLY	C-N	10.31	1.46	1.33
2	Y	252	CYS	CA-CB	10.30	1.68	1.53
3	T	446	ARG	CA-CB	-10.29	1.37	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	252	CYS	CA-CB	10.29	1.68	1.53
3	N	488	ILE	N-CA	-10.29	1.33	1.46
3	H	366	ILE	N-CA	-10.28	1.34	1.46
1	R	320	GLU	N-CA	10.26	1.59	1.46
2	S	252	CYS	CA-CB	10.26	1.68	1.53
4	J	1519	SER	N-CA	-10.25	1.32	1.46
2	G	380	ILE	CA-C	10.25	1.66	1.52
3	Z	446	ARG	CA-CB	-10.25	1.37	1.53
1	R	394	GLU	C-N	10.25	1.47	1.33
3	T	488	ILE	N-CA	-10.25	1.33	1.46
1	R	485	LEU	CA-CB	-10.24	1.36	1.53
1	X	485	LEU	CA-CB	-10.23	1.36	1.53
1	X	394	GLU	C-N	10.23	1.47	1.33
1	F	443	HIS	CA-C	10.23	1.66	1.52
1	F	485	LEU	CA-CB	-10.22	1.36	1.53
3	H	370	GLU	CA-CB	-10.21	1.37	1.53
3	Z	370	GLU	CA-CB	-10.20	1.37	1.53
1	L	394	GLU	C-N	10.20	1.46	1.33
3	N	403	LEU	CA-C	-10.20	1.38	1.52
3	T	370	GLU	CA-CB	-10.19	1.37	1.53
2	Y	334	GLY	CA-C	10.19	1.63	1.52
3	Z	366	ILE	N-CA	-10.18	1.34	1.46
3	Z	488	ILE	N-CA	-10.18	1.33	1.46
4	P	1510	GLN	N-CA	-10.17	1.33	1.46
4	D	1510	GLN	N-CA	-10.16	1.33	1.46
3	H	488	ILE	N-CA	-10.16	1.33	1.46
1	F	404	GLN	CA-CB	10.15	1.67	1.53
1	F	394	GLU	C-N	10.15	1.46	1.33
2	G	334	GLY	CA-C	10.15	1.63	1.52
2	M	334	GLY	CA-C	10.14	1.63	1.52
3	H	446	ARG	CA-CB	-10.14	1.37	1.53
3	N	370	GLU	CA-CB	-10.12	1.37	1.53
3	N	446	ARG	CA-CB	-10.11	1.37	1.53
1	L	404	GLN	CA-CB	10.09	1.67	1.53
4	D	1475	ALA	N-CA	-10.09	1.33	1.46
3	Z	467	THR	CA-C	-10.09	1.39	1.52
3	N	467	THR	CA-C	-10.09	1.39	1.52
1	R	404	GLN	CA-CB	10.09	1.67	1.53
4	V	1547	LEU	N-CA	-10.08	1.33	1.46
1	X	404	GLN	CA-CB	10.06	1.67	1.53
4	J	1510	GLN	N-CA	-10.06	1.33	1.46
3	N	487	TRP	CA-CB	10.05	1.69	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	T	467	THR	CA-C	-10.05	1.39	1.52
4	V	1518	ASN	N-CA	-10.04	1.34	1.46
3	T	487	TRP	CA-CB	10.02	1.69	1.53
3	Z	403	LEU	CA-C	-10.01	1.38	1.52
4	J	1547	LEU	N-CA	-10.01	1.33	1.46
1	R	428	LYS	N-CA	-10.00	1.34	1.46
4	V	1475	ALA	N-CA	-10.00	1.34	1.46
3	T	403	LEU	CA-C	-10.00	1.38	1.52
3	H	403	LEU	CA-C	-10.00	1.38	1.52
4	P	1547	LEU	N-CA	-10.00	1.33	1.46
4	D	1518	ASN	N-CA	-9.98	1.34	1.46
4	P	1475	ALA	N-CA	-9.97	1.34	1.46
4	J	1475	ALA	N-CA	-9.97	1.34	1.46
3	H	467	THR	CA-C	-9.97	1.39	1.52
1	R	454	TYR	C-O	9.97	1.36	1.24
3	H	487	TRP	CA-CB	9.95	1.68	1.53
1	L	482	LYS	N-CA	-9.94	1.34	1.46
4	J	1518	ASN	N-CA	-9.93	1.34	1.46
4	D	1547	LEU	N-CA	-9.92	1.33	1.46
4	D	1493	ARG	CA-C	-9.91	1.39	1.52
3	H	371	LYS	N-CA	-9.90	1.34	1.46
4	P	1518	ASN	N-CA	-9.90	1.34	1.46
1	F	454	TYR	C-O	9.89	1.36	1.24
3	Z	371	LYS	N-CA	-9.89	1.34	1.46
3	Z	487	TRP	CA-CB	9.89	1.68	1.53
2	Y	312	LYS	CA-C	-9.88	1.40	1.52
4	P	1493	ARG	CA-C	-9.85	1.39	1.52
4	J	1493	ARG	CA-C	-9.84	1.39	1.52
1	R	482	LYS	N-CA	-9.82	1.34	1.46
1	X	454	TYR	C-O	9.81	1.36	1.24
2	Y	332	PRO	CA-CB	9.80	1.67	1.54
3	N	371	LYS	N-CA	-9.80	1.34	1.46
1	F	482	LYS	N-CA	-9.80	1.34	1.46
1	X	449	SER	N-CA	9.80	1.58	1.46
2	G	276	SER	C-N	9.79	1.46	1.33
1	R	335	ARG	CA-CB	9.78	1.68	1.53
4	V	1493	ARG	CA-C	-9.78	1.39	1.52
2	S	276	SER	C-N	9.77	1.46	1.33
2	M	312	LYS	CA-C	-9.77	1.40	1.52
1	F	335	ARG	CA-CB	9.76	1.68	1.53
2	S	332	PRO	CA-CB	9.76	1.67	1.54
1	L	454	TYR	C-O	9.75	1.36	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	312	LYS	CA-C	-9.74	1.40	1.52
1	X	335	ARG	CA-CB	9.73	1.68	1.53
1	L	132	ASP	CA-C	-9.73	1.39	1.52
1	L	483	ASP	N-CA	-9.72	1.33	1.46
3	Z	353	GLN	CA-C	-9.72	1.40	1.52
1	R	449	SER	N-CA	9.71	1.58	1.46
1	R	132	ASP	CA-C	-9.70	1.39	1.52
1	F	428	LYS	N-CA	-9.69	1.34	1.46
1	X	483	ASP	N-CA	-9.69	1.33	1.46
3	T	371	LYS	N-CA	-9.69	1.34	1.46
1	F	449	SER	N-CA	9.68	1.58	1.46
1	F	132	ASP	CA-C	-9.68	1.39	1.52
2	G	332	PRO	CA-CB	9.67	1.67	1.54
1	L	428	LYS	N-CA	-9.67	1.34	1.46
1	X	482	LYS	N-CA	-9.66	1.34	1.46
1	L	449	SER	N-CA	9.66	1.58	1.46
2	M	276	SER	C-N	9.66	1.46	1.33
1	F	483	ASP	N-CA	-9.65	1.34	1.46
2	S	312	LYS	CA-C	-9.65	1.40	1.52
1	F	425	THR	N-CA	-9.64	1.33	1.46
2	Y	276	SER	C-N	9.64	1.46	1.33
1	X	428	LYS	N-CA	-9.63	1.34	1.46
1	L	335	ARG	CA-CB	9.62	1.68	1.53
1	R	483	ASP	N-CA	-9.62	1.34	1.46
1	L	420	GLU	N-CA	9.62	1.57	1.46
3	T	453	ASP	CA-CB	9.62	1.68	1.53
2	G	321	ASN	C-N	9.62	1.46	1.33
3	H	353	GLN	CA-C	-9.61	1.40	1.52
2	M	332	PRO	CA-CB	9.61	1.67	1.54
4	D	1484	ASP	N-CA	-9.60	1.34	1.46
1	X	132	ASP	CA-C	-9.60	1.39	1.52
3	T	353	GLN	CA-C	-9.60	1.40	1.52
2	G	252	CYS	CA-C	-9.59	1.38	1.52
3	N	353	GLN	CA-C	-9.59	1.40	1.52
3	Z	453	ASP	CA-CB	9.56	1.68	1.53
3	H	453	ASP	CA-CB	9.55	1.68	1.53
4	V	1484	ASP	N-CA	-9.55	1.34	1.46
2	Y	252	CYS	CA-C	-9.55	1.38	1.52
6	U	233	VAL	CA-C	-9.55	1.40	1.52
1	F	144	LEU	CA-C	9.54	1.66	1.52
1	F	420	GLU	N-CA	9.54	1.57	1.46
2	M	321	ASN	C-N	9.54	1.46	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	N	453	ASP	CA-CB	9.54	1.68	1.53
1	R	420	GLU	N-CA	9.53	1.57	1.46
6	I	233	VAL	CA-C	-9.53	1.40	1.52
2	S	252	CYS	CA-C	-9.53	1.38	1.52
1	R	144	LEU	CA-C	9.53	1.66	1.52
6	C	233	VAL	CA-C	-9.53	1.40	1.52
2	S	276	SER	N-CA	9.52	1.58	1.46
4	P	1484	ASP	N-CA	-9.52	1.34	1.46
2	G	276	SER	N-CA	9.52	1.58	1.46
2	Y	276	SER	N-CA	9.51	1.58	1.46
4	J	1488	GLY	N-CA	-9.51	1.33	1.45
4	J	1484	ASP	N-CA	-9.50	1.34	1.46
1	L	144	LEU	CA-C	9.50	1.65	1.52
1	L	450	GLU	CA-CB	-9.49	1.37	1.53
2	S	321	ASN	C-N	9.49	1.46	1.33
2	M	252	CYS	CA-C	-9.48	1.38	1.52
3	T	415	LYS	N-CA	9.48	1.59	1.46
3	N	415	LYS	N-CA	9.47	1.59	1.46
3	T	402	GLU	N-CA	9.47	1.57	1.46
4	P	1484	ASP	CA-C	-9.47	1.40	1.52
1	X	425	THR	N-CA	-9.46	1.33	1.46
1	L	334	LEU	CA-C	-9.46	1.40	1.52
2	M	276	SER	N-CA	9.46	1.58	1.46
3	H	402	GLU	N-CA	9.45	1.57	1.46
3	Z	415	LYS	N-CA	9.44	1.59	1.46
6	O	233	VAL	CA-C	-9.44	1.40	1.52
3	H	415	LYS	N-CA	9.44	1.59	1.46
4	P	1488	GLY	N-CA	-9.44	1.33	1.45
1	R	450	GLU	CA-CB	-9.43	1.37	1.53
4	V	1484	ASP	CA-C	-9.43	1.40	1.52
1	X	450	GLU	CA-CB	-9.42	1.37	1.53
2	Y	321	ASN	C-N	9.42	1.46	1.33
1	X	420	GLU	N-CA	9.40	1.57	1.46
1	L	459	LEU	CA-CB	9.40	1.69	1.53
3	N	384	LEU	CA-C	9.40	1.65	1.52
1	R	446	ALA	CA-CB	9.40	1.68	1.53
1	X	459	LEU	CA-CB	9.40	1.69	1.53
1	L	339	VAL	CA-C	-9.39	1.40	1.52
1	F	452	ARG	CA-CB	9.38	1.69	1.53
1	X	144	LEU	CA-C	9.38	1.65	1.52
4	J	1484	ASP	CA-C	-9.38	1.40	1.52
1	F	450	GLU	CA-CB	-9.38	1.37	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Z	402	GLU	N-CA	9.38	1.57	1.46
1	R	425	THR	N-CA	-9.37	1.34	1.46
4	D	1484	ASP	CA-C	-9.37	1.40	1.52
3	Z	384	LEU	CA-C	9.37	1.65	1.52
1	R	459	LEU	CA-CB	9.36	1.69	1.53
1	F	459	LEU	CA-CB	9.36	1.69	1.53
4	J	1507	ASP	C-N	9.35	1.46	1.33
1	X	452	ARG	CA-CB	9.35	1.69	1.53
1	L	425	THR	N-CA	-9.35	1.34	1.46
1	R	339	VAL	CA-C	-9.35	1.40	1.52
4	V	1488	GLY	N-CA	-9.34	1.33	1.45
1	R	452	ARG	CA-CB	9.33	1.69	1.53
1	F	320	GLU	CA-CB	-9.33	1.38	1.53
1	F	334	LEU	CA-C	-9.32	1.40	1.52
3	N	402	GLU	N-CA	9.31	1.57	1.46
1	L	405	ALA	N-CA	-9.30	1.34	1.46
1	X	446	ALA	CA-CB	9.30	1.67	1.53
3	H	384	LEU	CA-C	9.28	1.64	1.52
4	D	1488	GLY	N-CA	-9.27	1.33	1.45
1	L	452	ARG	CA-CB	9.26	1.69	1.53
1	X	449	SER	C-O	9.26	1.35	1.24
1	L	446	ALA	CA-CB	9.25	1.67	1.53
1	X	339	VAL	CA-C	-9.25	1.40	1.52
1	R	320	GLU	CA-CB	-9.25	1.38	1.53
4	D	1513	LEU	CA-C	-9.25	1.40	1.52
4	D	1507	ASP	C-N	9.24	1.46	1.33
4	P	1507	ASP	C-N	9.24	1.46	1.33
4	J	1516	LEU	N-CA	-9.24	1.35	1.46
4	P	1513	LEU	CA-C	-9.23	1.40	1.52
2	G	342	PRO	CA-CB	9.23	1.66	1.53
1	R	405	ALA	N-CA	-9.23	1.34	1.46
1	F	339	VAL	CA-C	-9.22	1.40	1.52
1	F	449	SER	C-O	9.22	1.35	1.24
1	L	320	GLU	CA-CB	-9.22	1.38	1.53
1	R	449	SER	C-O	9.21	1.35	1.24
1	X	320	GLU	CA-CB	-9.21	1.38	1.53
1	X	334	LEU	CA-C	-9.21	1.40	1.52
1	F	446	ALA	CA-CB	9.21	1.67	1.53
4	P	1516	LEU	N-CA	-9.21	1.35	1.46
1	R	334	LEU	CA-C	-9.20	1.40	1.52
2	M	342	PRO	CA-CB	9.20	1.66	1.53
3	T	384	LEU	CA-C	9.19	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	V	1513	LEU	CA-C	-9.19	1.40	1.52
3	N	373	THR	CA-C	9.18	1.64	1.52
3	T	402	GLU	CA-CB	-9.18	1.39	1.53
4	D	1516	LEU	N-CA	-9.17	1.35	1.46
1	F	405	ALA	N-CA	-9.17	1.34	1.46
4	J	1513	LEU	CA-C	-9.16	1.40	1.52
4	V	1516	LEU	N-CA	-9.16	1.35	1.46
3	H	402	GLU	CA-CB	-9.15	1.39	1.53
4	D	1539	LEU	CA-C	-9.15	1.40	1.52
2	Y	342	PRO	CA-CB	9.15	1.66	1.53
1	X	405	ALA	N-CA	-9.14	1.34	1.46
2	G	324	ILE	C-O	9.13	1.36	1.24
4	P	1539	LEU	CA-C	-9.12	1.40	1.52
1	F	436	SER	C-O	9.12	1.35	1.24
1	X	460	LEU	N-CA	-9.11	1.34	1.46
1	L	460	LEU	N-CA	-9.11	1.34	1.46
2	S	342	PRO	CA-CB	9.11	1.66	1.53
2	Y	324	ILE	C-O	9.10	1.36	1.24
1	R	416	THR	CA-C	-9.10	1.41	1.52
4	V	1507	ASP	C-N	9.10	1.46	1.33
1	R	436	SER	C-O	9.09	1.35	1.24
1	F	491	VAL	CA-CB	9.09	1.66	1.54
1	F	460	LEU	N-CA	-9.09	1.34	1.46
3	Z	402	GLU	CA-CB	-9.08	1.39	1.53
1	R	402	ALA	N-CA	9.08	1.57	1.46
3	H	373	THR	CA-C	9.07	1.64	1.52
2	G	330	LYS	CA-CB	-9.07	1.38	1.54
1	F	416	THR	CA-C	-9.07	1.41	1.52
3	N	402	GLU	CA-CB	-9.06	1.39	1.53
4	J	1539	LEU	CA-C	-9.04	1.40	1.52
1	X	416	THR	CA-C	-9.04	1.41	1.52
4	V	1539	LEU	CA-C	-9.04	1.40	1.52
1	R	491	VAL	CA-CB	9.04	1.66	1.54
1	L	416	THR	CA-C	-9.03	1.41	1.52
1	L	423	ALA	N-CA	-9.02	1.33	1.46
3	T	373	THR	CA-C	9.02	1.64	1.52
1	X	465	GLN	CA-CB	9.01	1.67	1.53
3	T	412	GLU	CA-CB	9.01	1.66	1.53
1	L	491	VAL	CA-CB	9.00	1.66	1.54
3	Z	373	THR	CA-C	9.00	1.64	1.52
2	Y	330	LYS	CA-CB	-9.00	1.38	1.54
1	L	436	SER	C-O	8.99	1.34	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	V	1543	GLN	C-N	-8.99	1.22	1.33
1	R	460	LEU	N-CA	-8.99	1.34	1.46
2	S	324	ILE	C-O	8.98	1.36	1.24
1	X	402	ALA	N-CA	8.97	1.57	1.46
1	X	436	SER	C-O	8.96	1.34	1.24
3	H	412	GLU	CA-CB	8.95	1.66	1.53
2	M	324	ILE	C-O	8.94	1.36	1.24
3	N	412	GLU	CA-CB	8.94	1.66	1.53
1	L	465	GLN	CA-CB	8.94	1.67	1.53
1	L	402	ALA	N-CA	8.94	1.57	1.46
2	M	322	ALA	CA-CB	8.93	1.67	1.53
1	X	491	VAL	CA-CB	8.92	1.66	1.54
4	J	1515	TYR	CA-C	-8.91	1.41	1.52
2	M	330	LYS	CA-CB	-8.91	1.38	1.54
3	Z	353	GLN	CA-CB	8.91	1.67	1.53
2	S	330	LYS	CA-CB	-8.91	1.38	1.54
4	P	1543	GLN	C-N	-8.90	1.22	1.33
4	D	1506	VAL	CA-C	-8.90	1.41	1.52
4	J	1506	VAL	CA-C	-8.90	1.41	1.52
3	T	353	GLN	CA-CB	8.90	1.67	1.53
1	R	423	ALA	N-CA	-8.89	1.33	1.46
2	Y	322	ALA	CA-CB	8.89	1.67	1.53
4	V	1515	TYR	CA-C	-8.89	1.41	1.52
1	X	423	ALA	N-CA	-8.88	1.33	1.46
2	Y	372	ALA	CA-C	-8.88	1.41	1.52
1	L	449	SER	C-O	8.88	1.35	1.24
3	Z	412	GLU	CA-CB	8.88	1.66	1.53
1	F	423	ALA	N-CA	-8.87	1.33	1.46
3	H	494	LEU	C-N	-8.86	1.21	1.33
4	P	1506	VAL	CA-C	-8.86	1.41	1.52
1	F	465	GLN	CA-CB	8.86	1.67	1.53
1	R	400	GLY	C-N	-8.86	1.21	1.33
4	V	1506	VAL	CA-C	-8.85	1.41	1.52
2	S	372	ALA	CA-C	-8.85	1.41	1.52
1	R	465	GLN	CA-CB	8.84	1.67	1.53
2	M	372	ALA	CA-C	-8.83	1.41	1.52
3	T	494	LEU	C-N	-8.82	1.21	1.33
4	P	1515	TYR	CA-C	-8.82	1.41	1.52
3	Z	494	LEU	C-N	-8.81	1.21	1.33
3	N	353	GLN	CA-CB	8.80	1.67	1.53
1	F	402	ALA	N-CA	8.80	1.57	1.46
1	X	400	GLY	C-N	-8.79	1.21	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	N	408	SER	C-N	-8.79	1.13	1.33
4	D	1515	TYR	CA-C	-8.79	1.41	1.52
1	R	436	SER	CA-CB	8.78	1.67	1.53
3	H	349	ARG	CA-C	-8.77	1.40	1.52
4	J	1543	GLN	C-N	-8.77	1.23	1.33
3	N	349	ARG	CA-C	-8.76	1.40	1.52
2	G	322	ALA	CA-CB	8.75	1.67	1.53
2	G	372	ALA	CA-C	-8.75	1.41	1.52
3	Z	408	SER	C-N	-8.73	1.13	1.33
3	N	494	LEU	C-N	-8.73	1.21	1.33
3	T	408	SER	C-N	-8.72	1.13	1.33
1	F	436	SER	CA-CB	8.72	1.67	1.53
4	D	1543	GLN	C-N	-8.71	1.23	1.33
1	F	400	GLY	C-N	-8.70	1.21	1.33
1	L	421	LEU	N-CA	-8.69	1.36	1.46
1	L	400	GLY	C-N	-8.68	1.21	1.33
3	H	353	GLN	CA-CB	8.68	1.66	1.53
3	Z	349	ARG	CA-C	-8.67	1.41	1.52
1	L	436	SER	CA-CB	8.66	1.67	1.53
1	X	436	SER	CA-CB	8.63	1.67	1.53
2	S	322	ALA	CA-CB	8.62	1.66	1.53
3	T	349	ARG	CA-C	-8.62	1.41	1.52
1	F	401	TYR	CA-C	8.61	1.64	1.52
3	H	408	SER	C-N	-8.60	1.13	1.33
4	V	1484	ASP	C-N	8.59	1.45	1.33
2	G	343	ALA	C-N	8.58	1.45	1.33
1	R	401	TYR	CA-C	8.58	1.64	1.52
1	F	421	LEU	N-CA	-8.58	1.36	1.46
1	L	449	SER	CA-C	8.58	1.64	1.52
1	R	421	LEU	N-CA	-8.57	1.36	1.46
2	M	343	ALA	C-N	8.56	1.45	1.33
4	J	1484	ASP	C-N	8.55	1.45	1.33
4	J	1448	MET	C-N	8.55	1.45	1.33
3	H	467	THR	C-N	8.54	1.46	1.33
1	L	405	ALA	CA-CB	8.54	1.67	1.53
1	R	405	ALA	CA-CB	8.53	1.67	1.53
2	G	372	ALA	N-CA	-8.53	1.36	1.46
1	X	401	TYR	CA-C	8.52	1.64	1.52
2	Y	343	ALA	C-N	8.52	1.45	1.33
3	Z	467	THR	C-N	8.52	1.46	1.33
3	T	467	THR	C-N	8.51	1.46	1.33
1	X	421	LEU	N-CA	-8.51	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	M	325	ALA	C-N	8.51	1.45	1.33
3	T	494	LEU	CA-CB	8.49	1.67	1.53
4	V	1448	MET	C-N	8.49	1.45	1.33
1	F	405	ALA	CA-CB	8.49	1.67	1.53
4	P	1484	ASP	C-N	8.48	1.45	1.33
3	N	467	THR	C-N	8.48	1.46	1.33
2	S	343	ALA	C-N	8.48	1.45	1.33
1	X	293	ILE	CA-C	-8.47	1.42	1.52
3	Z	494	LEU	CA-CB	8.47	1.67	1.53
1	R	426	GLN	N-CA	-8.47	1.35	1.46
1	F	408	GLU	CA-CB	8.47	1.67	1.53
2	S	325	ALA	N-CA	8.47	1.56	1.46
2	Y	325	ALA	C-N	8.46	1.45	1.33
1	R	449	SER	CA-C	8.46	1.64	1.52
4	D	1448	MET	C-N	8.46	1.45	1.33
1	F	426	GLN	N-CA	-8.46	1.35	1.46
2	S	381	THR	N-CA	8.45	1.58	1.46
4	P	1448	MET	C-N	8.45	1.45	1.33
2	M	325	ALA	N-CA	8.45	1.57	1.46
2	S	372	ALA	N-CA	-8.45	1.36	1.46
3	T	386	GLN	N-CA	-8.45	1.35	1.46
3	H	381	LYS	C-N	8.45	1.44	1.34
3	H	386	GLN	N-CA	-8.44	1.35	1.46
1	L	403	ILE	C-N	8.43	1.43	1.33
3	T	381	LYS	C-N	8.43	1.44	1.34
1	X	405	ALA	CA-CB	8.43	1.67	1.53
3	Z	386	GLN	N-CA	-8.43	1.35	1.46
1	F	403	ILE	C-N	8.42	1.43	1.33
2	G	325	ALA	C-N	8.42	1.45	1.33
2	M	372	ALA	N-CA	-8.42	1.36	1.46
3	N	381	LYS	C-N	8.42	1.44	1.34
1	L	401	TYR	CA-C	8.41	1.64	1.52
2	M	361	ARG	CA-C	8.41	1.63	1.52
4	D	1550	LEU	CA-C	-8.41	1.41	1.52
1	R	408	GLU	CA-CB	8.41	1.67	1.53
2	M	401	ALA	CA-C	-8.40	1.41	1.52
3	N	494	LEU	CA-CB	8.40	1.67	1.53
3	N	386	GLN	N-CA	-8.40	1.35	1.46
1	X	403	ILE	C-N	8.40	1.43	1.33
1	X	408	GLU	CA-CB	8.40	1.67	1.53
2	S	325	ALA	C-N	8.39	1.45	1.33
1	F	449	SER	CA-C	8.39	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	426	GLN	N-CA	-8.38	1.36	1.46
1	F	293	ILE	CA-C	-8.38	1.42	1.52
2	G	371	LEU	CA-C	-8.37	1.41	1.52
2	S	361	ARG	CA-C	8.37	1.63	1.52
2	Y	381	THR	N-CA	8.36	1.57	1.46
3	Z	381	LYS	C-N	8.36	1.44	1.34
4	V	1550	LEU	CA-C	-8.36	1.42	1.52
4	D	1484	ASP	C-N	8.36	1.45	1.33
2	Y	372	ALA	N-CA	-8.35	1.36	1.46
1	R	490	LEU	CA-C	8.35	1.64	1.52
4	D	1510	GLN	CA-C	-8.35	1.42	1.53
2	G	361	ARG	CA-C	8.35	1.63	1.52
1	R	403	ILE	C-N	8.35	1.43	1.33
2	G	401	ALA	CA-C	-8.35	1.41	1.52
2	M	371	LEU	CA-C	-8.35	1.42	1.52
2	G	325	ALA	N-CA	8.35	1.56	1.46
1	L	426	GLN	N-CA	-8.35	1.36	1.46
1	L	408	GLU	CA-CB	8.34	1.67	1.53
1	F	482	LYS	CA-C	8.34	1.63	1.52
2	M	381	THR	N-CA	8.34	1.57	1.46
1	R	293	ILE	CA-C	-8.34	1.42	1.52
1	F	463	ILE	CA-CB	8.34	1.65	1.54
2	Y	361	ARG	CA-C	8.34	1.63	1.52
1	X	449	SER	CA-C	8.33	1.64	1.52
1	X	482	LYS	CA-C	8.33	1.63	1.52
1	L	429	GLY	N-CA	-8.32	1.35	1.45
4	J	1550	LEU	CA-C	-8.32	1.42	1.52
1	X	490	LEU	CA-C	8.31	1.64	1.52
2	Y	401	ALA	CA-C	-8.31	1.41	1.52
1	L	490	LEU	CA-C	8.30	1.64	1.52
4	D	1518	ASN	CA-C	-8.30	1.42	1.52
3	H	494	LEU	CA-CB	8.29	1.67	1.53
2	Y	325	ALA	N-CA	8.29	1.56	1.46
2	G	398	ALA	N-CA	8.28	1.56	1.46
3	H	403	LEU	N-CA	8.27	1.57	1.46
2	Y	371	LEU	CA-C	-8.27	1.42	1.52
3	H	466	ASP	C-N	8.26	1.45	1.34
2	S	371	LEU	CA-C	-8.26	1.42	1.52
4	P	1548	LYS	CA-C	-8.26	1.42	1.52
2	G	381	THR	N-CA	8.25	1.57	1.46
4	P	1550	LEU	CA-C	-8.24	1.42	1.52
1	X	463	ILE	CA-CB	8.24	1.65	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	D	1548	LYS	CA-C	-8.24	1.42	1.52
4	J	1548	LYS	CA-C	-8.23	1.42	1.52
1	L	482	LYS	CA-C	8.23	1.63	1.52
1	L	463	ILE	CA-CB	8.22	1.65	1.54
1	L	305	ASP	C-N	-8.22	1.22	1.33
1	F	475	SER	CA-C	-8.22	1.42	1.52
1	R	482	LYS	CA-C	8.21	1.63	1.52
1	R	463	ILE	CA-CB	8.20	1.65	1.54
2	S	401	ALA	CA-C	-8.19	1.42	1.52
3	H	500	GLU	CA-C	8.19	1.63	1.52
2	Y	398	ALA	N-CA	8.19	1.56	1.46
1	F	429	GLY	N-CA	-8.19	1.35	1.45
1	R	305	ASP	C-N	-8.18	1.22	1.33
1	R	483	ASP	C-N	8.18	1.44	1.33
3	T	403	LEU	N-CA	8.17	1.57	1.46
4	D	1662	CYS	C-N	8.17	1.43	1.33
1	X	328	VAL	CA-CB	-8.17	1.43	1.53
1	R	429	GLY	N-CA	-8.17	1.35	1.45
3	T	407	LEU	CA-C	-8.17	1.41	1.52
4	P	1518	ASN	CA-C	-8.16	1.42	1.52
1	R	328	VAL	CA-CB	-8.16	1.43	1.53
1	F	132	ASP	CA-CB	8.15	1.66	1.53
3	N	403	LEU	N-CA	8.15	1.56	1.46
1	F	328	VAL	CA-CB	-8.15	1.43	1.53
3	H	467	THR	N-CA	8.14	1.56	1.46
3	Z	467	THR	N-CA	8.14	1.56	1.46
2	M	398	ALA	N-CA	8.14	1.56	1.46
4	V	1518	ASN	CA-C	-8.14	1.42	1.52
3	N	467	THR	N-CA	8.14	1.56	1.46
1	X	477	LEU	CA-C	-8.14	1.42	1.52
1	R	475	SER	CA-C	-8.13	1.42	1.52
1	X	132	ASP	CA-CB	8.12	1.66	1.53
1	L	132	ASP	CA-CB	8.12	1.66	1.53
1	R	132	ASP	CA-CB	8.13	1.66	1.53
3	T	467	THR	N-CA	8.12	1.56	1.46
1	X	465	GLN	N-CA	8.12	1.55	1.46
3	Z	466	ASP	C-N	8.12	1.44	1.34
1	R	440	MET	N-CA	8.12	1.56	1.46
1	L	293	ILE	CA-C	-8.12	1.43	1.52
3	N	407	LEU	CA-C	-8.10	1.41	1.52
3	Z	407	LEU	CA-C	-8.10	1.41	1.52
3	Z	468	SER	CA-CB	-8.10	1.39	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	320	GLU	CA-C	-8.10	1.41	1.52
1	L	465	GLN	N-CA	8.10	1.55	1.46
4	J	1518	ASN	CA-C	-8.10	1.42	1.52
1	X	320	GLU	CA-C	-8.09	1.41	1.52
1	X	483	ASP	C-N	8.09	1.44	1.33
3	N	500	GLU	CA-C	8.09	1.63	1.52
1	L	328	VAL	CA-CB	-8.08	1.43	1.53
3	N	466	ASP	C-N	8.08	1.44	1.34
4	D	1522	LEU	CA-C	-8.08	1.42	1.52
1	R	320	GLU	CA-C	-8.08	1.41	1.52
3	T	468	SER	CA-CB	-8.08	1.39	1.53
1	F	440	MET	N-CA	8.08	1.55	1.46
1	L	477	LEU	CA-C	-8.08	1.42	1.52
1	R	401	TYR	CA-CB	8.07	1.67	1.53
1	X	429	GLY	N-CA	-8.07	1.35	1.45
1	X	440	MET	N-CA	8.07	1.55	1.46
4	V	1548	LYS	CA-C	-8.07	1.42	1.52
3	T	493	ALA	C-N	8.06	1.45	1.33
1	X	473	GLY	CA-C	-8.06	1.43	1.52
2	S	398	ALA	N-CA	8.06	1.56	1.46
1	R	477	LEU	CA-C	-8.05	1.42	1.52
3	H	407	LEU	CA-C	-8.05	1.41	1.52
3	Z	403	LEU	N-CA	8.05	1.56	1.46
3	T	371	LYS	CA-C	-8.05	1.41	1.52
1	F	490	LEU	CA-C	8.05	1.63	1.52
1	F	305	ASP	C-N	-8.04	1.22	1.33
1	L	483	ASP	C-N	8.04	1.44	1.33
4	J	1522	LEU	CA-C	-8.04	1.42	1.52
3	T	466	ASP	C-N	8.04	1.44	1.34
1	F	483	ASP	C-N	8.03	1.44	1.33
3	H	493	ALA	C-N	8.03	1.45	1.33
3	N	493	ALA	C-N	8.03	1.45	1.33
1	X	305	ASP	C-N	-8.02	1.22	1.33
4	P	1522	LEU	CA-C	-8.02	1.42	1.52
1	X	401	TYR	CA-CB	8.02	1.67	1.53
1	R	465	GLN	N-CA	8.02	1.55	1.46
1	F	449	SER	CA-CB	-8.01	1.40	1.53
4	P	1662	CYS	C-N	8.01	1.43	1.33
1	F	477	LEU	CA-C	-8.00	1.42	1.52
1	F	401	TYR	CA-CB	8.00	1.67	1.53
1	F	320	GLU	CA-C	-8.00	1.41	1.52
3	H	371	LYS	CA-C	-8.00	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	M	317	GLN	CA-CB	8.00	1.66	1.53
3	N	472	GLN	N-CA	-8.00	1.35	1.46
1	R	473	GLY	CA-C	-7.99	1.43	1.52
1	L	440	MET	N-CA	7.99	1.55	1.46
2	G	317	GLN	CA-CB	7.98	1.66	1.53
3	N	468	SER	CA-CB	-7.98	1.40	1.53
3	Z	493	ALA	C-N	7.98	1.44	1.33
4	D	1449	TRP	N-CA	7.98	1.56	1.46
3	Z	472	GLN	N-CA	-7.97	1.35	1.46
3	Z	500	GLU	CA-C	7.97	1.63	1.52
1	L	401	TYR	CA-CB	7.97	1.67	1.53
1	L	443	HIS	CA-CB	-7.97	1.40	1.53
4	J	1662	CYS	C-N	7.97	1.43	1.33
2	S	317	GLN	CA-CB	7.96	1.66	1.53
4	V	1662	CYS	C-N	7.96	1.43	1.33
1	R	487	ASP	C-N	7.96	1.43	1.33
2	G	325	ALA	C-O	7.95	1.33	1.23
3	H	468	SER	CA-CB	-7.95	1.40	1.53
1	R	323	ILE	N-CA	-7.95	1.39	1.46
4	P	1473	TYR	N-CA	-7.95	1.36	1.46
4	P	1449	TRP	N-CA	7.95	1.56	1.46
3	T	472	GLN	N-CA	-7.94	1.35	1.46
3	N	371	LYS	CA-C	-7.94	1.42	1.52
4	J	1449	TRP	N-CA	7.93	1.56	1.46
3	T	408	SER	CA-CB	7.93	1.66	1.53
3	Z	371	LYS	CA-C	-7.92	1.42	1.52
1	L	487	ASP	C-N	7.92	1.43	1.33
1	R	443	HIS	CA-CB	-7.92	1.40	1.53
4	V	1449	TRP	N-CA	7.91	1.56	1.46
1	F	465	GLN	N-CA	7.91	1.55	1.46
3	H	408	SER	CA-CB	7.91	1.66	1.53
1	L	323	ILE	N-CA	-7.91	1.39	1.46
2	S	302	GLN	N-CA	-7.91	1.36	1.46
1	L	473	GLY	CA-C	-7.90	1.43	1.52
2	S	325	ALA	C-O	7.90	1.33	1.23
3	T	500	GLU	CA-C	7.90	1.63	1.52
2	G	377	ASN	CA-C	-7.90	1.42	1.52
3	H	472	GLN	N-CA	-7.90	1.35	1.46
2	Y	317	GLN	CA-CB	7.90	1.65	1.53
1	X	323	ILE	N-CA	-7.90	1.39	1.46
4	V	1522	LEU	CA-C	-7.90	1.42	1.52
1	F	443	HIS	CA-CB	-7.89	1.40	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	Y	377	ASN	CA-C	-7.89	1.42	1.52
1	F	473	GLY	CA-C	-7.88	1.43	1.52
2	G	322	ALA	CA-C	7.88	1.63	1.52
4	J	1510	GLN	CA-C	-7.88	1.42	1.52
1	X	449	SER	CA-CB	-7.88	1.40	1.53
1	L	475	SER	CA-C	-7.87	1.42	1.52
1	R	449	SER	CA-CB	-7.87	1.40	1.53
1	X	475	SER	CA-C	-7.86	1.42	1.52
2	G	348	ILE	N-CA	7.85	1.55	1.46
1	L	449	SER	CA-CB	-7.85	1.40	1.53
4	J	1473	TYR	N-CA	-7.85	1.36	1.46
1	X	487	ASP	C-N	7.84	1.43	1.33
4	D	1473	TYR	N-CA	-7.84	1.36	1.46
2	G	302	GLN	N-CA	-7.84	1.37	1.46
1	X	460	LEU	CA-CB	7.84	1.66	1.53
1	F	487	ASP	C-N	7.83	1.43	1.33
3	N	408	SER	CA-CB	7.83	1.65	1.53
2	M	348	ILE	N-CA	7.83	1.55	1.46
1	F	323	ILE	N-CA	-7.82	1.39	1.46
1	X	443	HIS	CA-CB	-7.82	1.40	1.53
3	Z	408	SER	CA-CB	7.80	1.65	1.53
2	M	322	ALA	CA-C	7.79	1.62	1.52
2	M	377	ASN	CA-C	-7.79	1.42	1.52
2	Y	342	PRO	C-N	7.78	1.44	1.33
4	V	1473	TYR	N-CA	-7.78	1.36	1.46
2	S	377	ASN	CA-C	-7.77	1.42	1.52
4	P	1510	GLN	CA-C	-7.76	1.42	1.52
2	Y	322	ALA	CA-C	7.75	1.62	1.52
2	Y	302	GLN	N-CA	-7.75	1.37	1.46
2	S	322	ALA	CA-C	7.74	1.62	1.52
4	V	1510	GLN	CA-C	-7.74	1.42	1.52
4	D	1491	ILE	C-O	7.74	1.32	1.24
3	Z	468	SER	N-CA	7.72	1.56	1.46
2	Y	348	ILE	N-CA	7.71	1.55	1.46
1	F	460	LEU	CA-CB	7.70	1.66	1.53
2	M	302	GLN	N-CA	-7.69	1.37	1.46
2	M	342	PRO	C-N	7.69	1.44	1.33
3	T	466	ASP	CA-C	7.69	1.63	1.52
1	L	460	LEU	CA-CB	7.69	1.66	1.53
2	G	261	PHE	CA-C	7.68	1.62	1.52
2	S	348	ILE	N-CA	7.68	1.55	1.46
2	S	342	PRO	C-N	7.67	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	398	LYS	C-O	-7.67	1.13	1.24
3	N	468	SER	N-CA	7.67	1.56	1.46
1	R	460	LEU	CA-CB	7.67	1.66	1.53
1	X	434	LEU	N-CA	-7.66	1.37	1.46
2	G	342	PRO	C-N	7.66	1.44	1.33
1	X	303	GLY	CA-C	7.64	1.62	1.51
1	L	434	LEU	N-CA	-7.64	1.37	1.46
1	R	398	LYS	C-O	-7.63	1.13	1.24
3	T	468	SER	N-CA	7.62	1.56	1.46
1	R	348	GLN	CA-C	-7.62	1.42	1.52
1	X	365	GLN	CA-C	-7.61	1.43	1.52
2	Y	366	GLU	N-CA	-7.59	1.36	1.46
2	G	366	GLU	N-CA	-7.59	1.36	1.46
1	X	348	GLN	CA-C	-7.58	1.43	1.52
2	M	331	THR	N-CA	7.58	1.54	1.46
2	S	326	LEU	CA-CB	7.58	1.66	1.53
2	M	261	PHE	CA-C	7.58	1.62	1.52
2	Y	253	GLN	CA-C	-7.57	1.42	1.52
1	R	486	GLU	CA-C	7.56	1.62	1.52
1	X	486	GLU	CA-C	7.56	1.62	1.52
2	S	331	THR	N-CA	7.55	1.54	1.46
1	F	434	LEU	N-CA	-7.55	1.37	1.46
2	G	331	THR	N-CA	7.55	1.54	1.46
3	H	468	SER	N-CA	7.55	1.56	1.46
4	V	1491	ILE	C-O	7.55	1.32	1.24
1	F	486	GLU	CA-C	7.54	1.62	1.52
2	Y	325	ALA	C-O	7.54	1.33	1.24
3	Z	466	ASP	CA-C	7.54	1.62	1.52
2	S	261	PHE	CA-C	7.54	1.62	1.52
1	L	348	GLN	CA-C	-7.53	1.43	1.52
1	L	486	GLU	CA-C	7.53	1.62	1.52
4	D	1543	GLN	CA-C	-7.53	1.43	1.52
2	M	366	GLU	N-CA	-7.53	1.36	1.46
4	J	1543	GLN	CA-C	-7.52	1.43	1.52
1	F	303	GLY	CA-C	7.51	1.62	1.51
2	Y	297	ALA	CA-C	-7.51	1.43	1.52
1	L	425	THR	CA-C	-7.51	1.42	1.52
2	G	376	ASN	CA-C	-7.50	1.43	1.52
1	R	303	GLY	CA-C	7.50	1.62	1.51
1	F	348	GLN	CA-C	-7.50	1.43	1.52
2	M	253	GLN	CA-C	-7.50	1.43	1.52
2	G	253	GLN	CA-C	-7.50	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	M	376	ASN	CA-C	-7.50	1.43	1.52
2	S	253	GLN	CA-C	-7.49	1.43	1.52
2	M	297	ALA	CA-C	-7.49	1.43	1.52
1	X	398	LYS	C-O	-7.49	1.14	1.24
1	F	398	LYS	C-O	-7.49	1.14	1.24
4	P	1491	ILE	C-O	7.48	1.32	1.24
4	J	1491	ILE	C-O	7.48	1.32	1.24
2	Y	376	ASN	CA-C	-7.48	1.43	1.52
1	F	365	GLN	CA-C	-7.47	1.43	1.52
3	Z	412	GLU	N-CA	7.47	1.55	1.46
2	M	326	LEU	CA-CB	7.47	1.66	1.53
1	R	492	GLU	CA-CB	7.47	1.66	1.53
4	D	1469	ILE	CA-C	-7.47	1.43	1.52
4	P	1543	GLN	CA-C	-7.46	1.43	1.52
4	D	1504	VAL	CA-C	-7.46	1.42	1.52
2	G	297	ALA	CA-C	-7.45	1.43	1.52
4	P	1503	ILE	N-CA	-7.45	1.37	1.46
1	L	303	GLY	CA-C	7.45	1.62	1.51
2	M	325	ALA	C-O	7.45	1.33	1.24
1	X	492	GLU	CA-CB	7.44	1.66	1.53
4	V	1469	ILE	CA-C	-7.44	1.43	1.52
4	P	1504	VAL	CA-C	-7.44	1.42	1.52
2	S	376	ASN	CA-C	-7.44	1.43	1.52
2	Y	331	THR	N-CA	7.44	1.54	1.46
4	V	1503	ILE	N-CA	-7.43	1.37	1.46
1	L	442	ASN	C-N	7.43	1.44	1.33
1	X	472	GLU	CA-C	7.43	1.62	1.52
1	L	492	GLU	CA-CB	7.43	1.66	1.53
1	R	425	THR	CA-C	-7.43	1.42	1.52
2	M	327	ARG	C-O	7.42	1.33	1.24
2	S	302	GLN	CA-CB	-7.42	1.41	1.53
2	Y	326	LEU	CA-CB	7.42	1.66	1.53
1	R	365	GLN	CA-C	-7.42	1.43	1.52
1	X	425	THR	CA-C	-7.42	1.42	1.52
3	T	390	ASP	CA-C	-7.41	1.43	1.52
3	H	390	ASP	CA-C	-7.41	1.43	1.52
1	L	365	GLN	CA-C	-7.41	1.43	1.52
1	R	434	LEU	N-CA	-7.41	1.37	1.46
2	S	366	GLU	N-CA	-7.40	1.36	1.46
1	F	492	GLU	CA-CB	7.40	1.66	1.53
1	F	442	ASN	C-N	7.40	1.44	1.33
2	G	326	LEU	CA-CB	7.40	1.66	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Z	390	ASP	CA-C	-7.40	1.43	1.52
3	Z	418	SER	N-CA	-7.40	1.37	1.46
2	G	302	GLN	CA-CB	-7.39	1.41	1.53
3	H	466	ASP	CA-C	7.39	1.62	1.52
3	N	390	ASP	CA-C	-7.39	1.43	1.52
1	R	464	LYS	C-N	7.39	1.42	1.33
2	G	327	ARG	C-O	7.39	1.33	1.24
4	J	1504	VAL	CA-C	-7.38	1.42	1.52
4	V	1504	VAL	CA-C	-7.38	1.42	1.52
3	N	466	ASP	CA-C	7.37	1.62	1.52
2	S	297	ALA	CA-C	-7.37	1.43	1.52
1	F	464	LYS	C-N	7.37	1.42	1.33
2	Y	327	ARG	C-O	7.36	1.33	1.24
1	X	464	LYS	C-N	7.36	1.42	1.33
4	J	1469	ILE	CA-C	-7.35	1.43	1.52
1	L	415	ASP	CA-C	-7.34	1.43	1.52
1	L	472	GLU	CA-C	7.34	1.62	1.52
1	L	464	LYS	C-N	7.34	1.42	1.33
3	Z	468	SER	CA-C	7.34	1.62	1.52
1	F	415	ASP	CA-C	-7.34	1.43	1.52
3	H	468	SER	CA-C	7.34	1.62	1.52
1	R	442	ASN	C-N	7.33	1.44	1.33
2	S	248	PRO	CA-CB	7.33	1.68	1.53
4	P	1469	ILE	CA-C	-7.33	1.44	1.52
1	L	298	GLN	CA-C	-7.33	1.42	1.53
1	R	415	ASP	CA-C	-7.33	1.43	1.52
1	F	425	THR	CA-C	-7.32	1.42	1.52
3	H	412	GLU	N-CA	7.32	1.55	1.46
3	N	378	GLU	C-N	7.32	1.42	1.33
4	V	1543	GLN	CA-C	-7.32	1.43	1.52
2	M	248	PRO	CA-CB	7.31	1.68	1.53
3	N	468	SER	CA-C	7.30	1.62	1.52
4	D	1503	ILE	N-CA	-7.30	1.37	1.46
1	X	298	GLN	CA-C	-7.30	1.42	1.53
1	F	472	GLU	CA-C	7.29	1.62	1.52
2	S	347	ARG	CA-C	-7.29	1.42	1.52
1	X	415	ASP	CA-C	-7.29	1.43	1.52
2	M	302	GLN	CA-C	-7.28	1.43	1.52
3	T	468	SER	CA-C	7.28	1.62	1.52
2	G	347	ARG	CA-C	-7.28	1.42	1.52
3	T	412	GLU	N-CA	7.27	1.55	1.46
2	M	302	GLN	CA-CB	-7.27	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	N	412	GLU	N-CA	7.27	1.55	1.46
4	J	1503	ILE	N-CA	-7.26	1.37	1.46
3	H	418	SER	N-CA	-7.26	1.37	1.46
2	S	327	ARG	C-O	7.26	1.33	1.24
3	N	418	SER	N-CA	-7.25	1.37	1.46
2	Y	302	GLN	CA-CB	-7.25	1.41	1.53
1	R	472	GLU	CA-C	7.25	1.62	1.52
2	Y	340	ALA	C-N	7.24	1.48	1.33
3	T	489	ASP	CA-C	7.24	1.62	1.52
4	V	1483	ARG	CA-C	-7.24	1.43	1.52
2	Y	248	PRO	CA-CB	7.24	1.68	1.53
3	Z	471	LEU	CA-CB	7.23	1.64	1.53
1	F	491	VAL	C-N	-7.22	1.23	1.33
3	Z	378	GLU	C-N	7.22	1.42	1.33
1	L	421	LEU	C-N	7.22	1.42	1.33
1	R	408	GLU	N-CA	-7.22	1.37	1.46
2	M	347	ARG	CA-C	-7.22	1.42	1.52
2	M	340	ALA	C-N	7.22	1.48	1.33
2	G	248	PRO	CA-CB	7.21	1.67	1.53
3	N	471	LEU	CA-CB	7.21	1.64	1.53
1	R	410	LEU	CA-C	-7.21	1.43	1.52
2	Y	261	PHE	CA-C	7.21	1.62	1.52
1	X	339	VAL	CA-CB	-7.21	1.45	1.54
1	X	442	ASN	C-N	7.21	1.43	1.33
2	Y	302	GLN	CA-C	-7.21	1.43	1.52
1	R	298	GLN	CA-C	-7.21	1.42	1.53
3	H	489	ASP	CA-C	7.20	1.62	1.52
2	M	321	ASN	N-CA	-7.20	1.36	1.46
2	S	340	ALA	C-N	7.20	1.48	1.33
3	T	471	LEU	CA-CB	7.20	1.64	1.53
1	X	310	GLU	CA-C	-7.20	1.43	1.52
2	G	340	ALA	C-N	7.20	1.48	1.33
1	F	410	LEU	CA-C	-7.19	1.43	1.52
3	H	378	GLU	C-N	7.19	1.42	1.33
3	T	378	GLU	C-N	7.18	1.42	1.33
1	L	491	VAL	C-N	-7.18	1.23	1.33
1	L	410	LEU	CA-C	-7.18	1.43	1.52
4	P	1549	ALA	N-CA	-7.18	1.37	1.46
1	F	298	GLN	CA-C	-7.18	1.42	1.53
4	P	1483	ARG	CA-C	-7.18	1.43	1.52
4	D	1549	ALA	N-CA	-7.18	1.37	1.46
4	D	1483	ARG	CA-C	-7.17	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	306	PRO	CA-CB	-7.17	1.42	1.53
3	T	386	GLN	CA-C	-7.17	1.43	1.52
3	H	471	LEU	CA-CB	7.16	1.64	1.53
1	X	410	LEU	CA-C	-7.16	1.43	1.52
1	R	491	VAL	C-N	-7.16	1.23	1.33
1	F	460	LEU	C-O	7.16	1.32	1.24
1	F	339	VAL	CA-CB	-7.15	1.45	1.54
2	S	302	GLN	CA-C	-7.15	1.43	1.52
4	J	1549	ALA	N-CA	-7.15	1.37	1.46
4	V	1549	ALA	N-CA	-7.15	1.37	1.46
2	Y	321	ASN	N-CA	-7.13	1.36	1.46
1	R	339	VAL	CA-CB	-7.12	1.45	1.54
2	S	380	ILE	C-N	7.12	1.48	1.33
1	L	460	LEU	C-O	7.12	1.32	1.24
1	R	460	LEU	C-N	7.12	1.43	1.33
2	Y	347	ARG	CA-C	-7.12	1.42	1.52
1	R	397	ARG	N-CA	-7.11	1.37	1.46
1	X	306	PRO	CA-CB	-7.11	1.42	1.53
4	J	1483	ARG	CA-C	-7.11	1.43	1.52
3	N	489	ASP	CA-C	7.10	1.62	1.52
1	X	491	VAL	C-N	-7.10	1.23	1.33
2	M	380	ILE	C-N	7.10	1.48	1.33
2	S	323	GLU	N-CA	7.10	1.55	1.46
3	T	418	SER	N-CA	-7.10	1.38	1.46
1	L	339	VAL	CA-CB	-7.10	1.45	1.54
2	G	406	ILE	CA-C	-7.09	1.44	1.52
1	F	421	LEU	C-N	7.09	1.42	1.33
3	Z	489	ASP	CA-C	7.08	1.62	1.52
1	F	460	LEU	C-N	7.08	1.43	1.33
3	N	386	GLN	CA-C	-7.08	1.43	1.52
1	F	408	GLU	N-CA	-7.07	1.37	1.46
1	R	306	PRO	CA-CB	-7.07	1.42	1.53
2	G	380	ILE	C-N	7.06	1.48	1.33
2	Y	380	ILE	C-N	7.06	1.48	1.33
2	S	406	ILE	CA-C	-7.05	1.44	1.52
1	X	421	LEU	C-N	7.05	1.42	1.33
3	H	363	ARG	CA-CB	7.05	1.64	1.53
1	R	460	LEU	C-O	7.04	1.32	1.24
2	G	321	ASN	N-CA	-7.04	1.36	1.46
1	X	460	LEU	C-N	7.04	1.43	1.33
4	V	1494	MET	N-CA	-7.04	1.37	1.46
1	L	460	LEU	C-N	7.04	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	310	GLU	CA-C	-7.03	1.43	1.52
1	R	310	GLU	CA-C	-7.03	1.43	1.52
2	Y	373	THR	CA-CB	-7.03	1.42	1.53
1	L	306	PRO	CA-CB	-7.03	1.42	1.53
2	G	343	ALA	C-O	7.02	1.32	1.24
1	X	460	LEU	C-O	7.02	1.32	1.24
2	G	302	GLN	CA-C	-7.01	1.44	1.52
2	S	321	ASN	N-CA	-7.00	1.36	1.46
3	T	414	VAL	N-CA	7.00	1.54	1.46
2	G	323	GLU	N-CA	7.00	1.55	1.46
3	N	414	VAL	N-CA	7.00	1.54	1.46
4	J	1494	MET	N-CA	-7.00	1.37	1.46
3	Z	386	GLN	CA-C	-7.00	1.43	1.52
2	G	373	THR	CA-CB	-6.99	1.42	1.53
2	M	343	ALA	C-O	6.99	1.32	1.24
4	P	1494	MET	N-CA	-6.99	1.37	1.46
2	Y	323	GLU	N-CA	6.98	1.55	1.46
4	D	1494	MET	N-CA	-6.98	1.37	1.46
1	L	397	ARG	N-CA	-6.97	1.37	1.46
2	M	373	THR	CA-CB	-6.97	1.42	1.53
1	F	310	GLU	CA-C	-6.97	1.43	1.52
1	L	408	GLU	N-CA	-6.97	1.37	1.46
2	G	345	TYR	C-O	-6.97	1.15	1.24
1	X	398	LYS	N-CA	-6.96	1.36	1.46
2	Y	345	TYR	C-O	-6.96	1.15	1.24
1	X	408	GLU	N-CA	-6.95	1.37	1.46
3	Z	414	VAL	N-CA	6.94	1.54	1.46
2	M	323	GLU	N-CA	6.94	1.55	1.46
1	R	421	LEU	C-N	6.94	1.42	1.33
1	X	397	ARG	N-CA	-6.93	1.37	1.46
3	H	414	VAL	N-CA	6.93	1.54	1.46
2	M	345	TYR	C-O	-6.92	1.15	1.24
2	Y	406	ILE	CA-C	-6.92	1.44	1.52
3	N	363	ARG	CA-CB	6.92	1.64	1.53
3	N	352	LEU	N-CA	-6.91	1.38	1.46
3	Z	363	ARG	CA-CB	6.89	1.64	1.53
2	S	255	VAL	C-N	6.89	1.42	1.33
2	S	343	ALA	C-O	6.89	1.32	1.24
3	H	362	ASP	CA-C	-6.89	1.43	1.52
3	T	363	ARG	CA-CB	6.88	1.64	1.53
2	S	373	THR	CA-CB	-6.88	1.42	1.53
2	Y	343	ALA	C-O	6.88	1.32	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	1538	SER	C-N	6.88	1.43	1.34
2	M	406	ILE	CA-C	-6.87	1.44	1.52
3	H	386	GLN	CA-C	-6.86	1.43	1.52
4	D	1538	SER	C-N	6.86	1.43	1.34
1	L	443	HIS	C-O	6.86	1.32	1.24
1	R	399	SER	CA-C	-6.86	1.43	1.52
1	R	443	HIS	C-O	6.85	1.32	1.24
4	V	1538	SER	C-N	6.85	1.43	1.34
1	F	443	HIS	C-O	6.84	1.32	1.24
1	X	440	MET	C-N	6.84	1.42	1.33
2	M	344	ASP	C-N	-6.84	1.24	1.34
1	X	443	HIS	C-O	6.83	1.32	1.24
2	M	264	GLU	CA-C	-6.82	1.44	1.52
2	Y	264	GLU	CA-C	-6.82	1.44	1.52
3	H	352	LEU	N-CA	-6.81	1.38	1.46
3	T	352	LEU	N-CA	-6.80	1.38	1.46
3	N	362	ASP	CA-C	-6.79	1.43	1.52
1	R	440	MET	C-N	6.79	1.42	1.33
2	G	264	GLU	CA-C	-6.79	1.44	1.52
1	L	306	PRO	C-N	6.79	1.42	1.33
4	P	1538	SER	C-N	6.79	1.43	1.34
1	F	397	ARG	N-CA	-6.78	1.38	1.46
2	M	410	VAL	CA-C	-6.78	1.44	1.52
1	X	399	SER	CA-C	-6.77	1.43	1.52
2	Y	255	VAL	C-N	6.77	1.42	1.33
3	N	501	GLU	N-CA	-6.77	1.37	1.46
3	T	362	ASP	CA-C	-6.76	1.43	1.52
2	S	264	GLU	CA-C	-6.75	1.44	1.52
1	F	398	LYS	N-CA	-6.75	1.37	1.46
3	Z	501	GLU	N-CA	-6.75	1.37	1.46
1	X	469	GLN	CA-CB	-6.75	1.42	1.53
2	Y	346	PHE	CA-CB	6.75	1.64	1.53
2	S	344	ASP	C-N	-6.74	1.24	1.34
1	F	469	GLN	CA-CB	-6.74	1.42	1.53
1	L	469	GLN	CA-CB	-6.74	1.42	1.53
1	R	469	GLN	CA-CB	-6.74	1.42	1.53
3	Z	362	ASP	CA-C	-6.74	1.43	1.52
1	R	327	MET	CA-C	-6.74	1.44	1.52
3	Z	352	LEU	N-CA	-6.73	1.38	1.46
2	M	263	LYS	CA-C	-6.72	1.43	1.52
1	L	440	MET	C-N	6.72	1.42	1.33
1	L	365	GLN	N-CA	6.71	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	403	ILE	CA-C	-6.71	1.44	1.52
1	X	365	GLN	N-CA	6.70	1.54	1.46
1	F	365	GLN	N-CA	6.70	1.54	1.46
1	L	327	MET	CA-C	-6.70	1.44	1.52
1	L	399	SER	CA-C	-6.69	1.43	1.52
1	L	398	LYS	N-CA	-6.69	1.37	1.46
3	H	501	GLU	N-CA	-6.68	1.37	1.46
1	R	398	LYS	N-CA	-6.68	1.37	1.46
2	S	345	TYR	C-O	-6.68	1.15	1.24
4	J	1487	ASP	N-CA	-6.68	1.37	1.46
1	X	403	ILE	CA-C	-6.67	1.44	1.52
4	J	1470	ILE	N-CA	-6.67	1.38	1.46
1	R	365	GLN	N-CA	6.67	1.54	1.46
4	D	1470	ILE	N-CA	-6.67	1.38	1.46
2	Y	344	ASP	C-N	-6.66	1.24	1.34
1	F	327	MET	CA-C	-6.66	1.44	1.52
2	G	346	PHE	CA-CB	6.66	1.63	1.53
1	L	412	VAL	CA-C	-6.65	1.44	1.52
1	X	142	ASN	CA-C	6.65	1.60	1.52
4	P	1478	MET	CA-C	-6.65	1.44	1.52
1	F	404	GLN	N-CA	-6.65	1.35	1.46
1	X	306	PRO	C-N	6.65	1.42	1.33
2	M	255	VAL	C-N	6.64	1.42	1.33
1	R	404	GLN	N-CA	-6.64	1.35	1.46
2	S	390	GLN	N-CA	6.64	1.54	1.46
4	J	1662	CYS	CA-C	6.64	1.61	1.52
1	F	399	SER	CA-C	-6.64	1.43	1.52
2	G	344	ASP	C-N	-6.64	1.24	1.34
1	X	327	MET	CA-C	-6.64	1.44	1.52
1	R	306	PRO	C-N	6.64	1.42	1.33
3	T	501	GLU	N-CA	-6.63	1.37	1.46
2	S	346	PHE	CA-CB	6.63	1.63	1.53
1	F	412	VAL	CA-C	-6.63	1.44	1.52
2	G	349	LEU	CA-C	-6.62	1.43	1.52
4	P	1684	ALA	CA-C	-6.62	1.44	1.53
4	J	1478	MET	CA-C	-6.62	1.44	1.52
1	F	306	PRO	C-N	6.61	1.42	1.33
2	S	410	VAL	CA-C	-6.61	1.44	1.52
1	F	440	MET	C-N	6.61	1.42	1.33
1	F	490	LEU	CA-CB	6.60	1.64	1.53
2	Y	349	LEU	CA-C	-6.60	1.43	1.52
2	G	255	VAL	C-N	6.59	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	490	LEU	CA-CB	6.59	1.64	1.53
2	M	275	MET	N-CA	6.59	1.54	1.46
4	V	1470	ILE	N-CA	-6.59	1.38	1.46
1	X	304	VAL	CA-C	-6.58	1.45	1.52
2	M	346	PHE	CA-CB	6.58	1.63	1.53
2	G	275	MET	N-CA	6.57	1.54	1.46
2	S	275	MET	N-CA	6.57	1.54	1.46
2	Y	275	MET	N-CA	6.57	1.54	1.46
1	L	405	ALA	CA-C	-6.57	1.44	1.52
4	P	1470	ILE	N-CA	-6.57	1.38	1.46
4	D	1487	ASP	N-CA	-6.57	1.37	1.46
2	G	335	LEU	CA-CB	-6.56	1.42	1.53
4	V	1684	ALA	CA-C	-6.56	1.44	1.53
4	D	1478	MET	CA-C	-6.56	1.44	1.52
2	Y	410	VAL	CA-C	-6.55	1.44	1.52
2	S	263	LYS	CA-C	-6.55	1.43	1.52
1	R	412	VAL	CA-C	-6.55	1.44	1.52
1	R	490	LEU	CA-CB	6.55	1.64	1.53
1	L	404	GLN	N-CA	-6.54	1.36	1.46
1	X	412	VAL	CA-C	-6.54	1.44	1.52
2	M	349	LEU	CA-C	-6.54	1.44	1.52
2	G	263	LYS	CA-C	-6.54	1.44	1.52
2	Y	263	LYS	CA-C	-6.54	1.44	1.52
1	R	405	ALA	CA-C	-6.53	1.44	1.52
4	D	1684	ALA	CA-C	-6.53	1.44	1.53
1	L	142	ASN	CA-C	6.53	1.60	1.52
2	Y	335	LEU	CA-CB	-6.53	1.42	1.53
1	L	490	LEU	CA-CB	6.53	1.64	1.53
1	X	430	ARG	N-CA	-6.52	1.38	1.46
1	R	142	ASN	CA-C	6.52	1.60	1.52
4	J	1684	ALA	CA-C	-6.52	1.44	1.53
4	V	1662	CYS	CA-C	6.51	1.61	1.52
1	R	403	ILE	CA-C	-6.51	1.44	1.52
4	P	1662	CYS	CA-C	6.51	1.61	1.52
1	F	403	ILE	CA-C	-6.51	1.44	1.52
1	F	142	ASN	CA-C	6.50	1.60	1.52
4	V	1478	MET	CA-C	-6.50	1.44	1.52
1	L	304	VAL	CA-C	-6.49	1.45	1.52
1	X	405	ALA	CA-C	-6.49	1.44	1.52
1	F	304	VAL	CA-C	-6.49	1.45	1.52
2	M	249	PRO	CA-CB	-6.49	1.44	1.53
2	S	349	LEU	CA-C	-6.49	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	396	GLN	N-CA	6.48	1.54	1.46
1	L	483	ASP	CA-C	6.47	1.61	1.52
1	F	405	ALA	CA-C	-6.47	1.44	1.52
2	M	335	LEU	CA-CB	-6.47	1.42	1.53
4	P	1487	ASP	N-CA	-6.47	1.37	1.46
1	X	404	GLN	N-CA	-6.46	1.36	1.46
4	V	1685	LEU	CA-C	-6.44	1.46	1.53
1	R	304	VAL	CA-C	-6.44	1.45	1.52
2	M	275	MET	CA-CB	6.42	1.64	1.53
1	R	448	ARG	CA-C	6.42	1.61	1.52
3	H	366	ILE	CA-C	6.42	1.60	1.52
4	V	1487	ASP	N-CA	-6.42	1.38	1.46
2	G	410	VAL	CA-C	-6.41	1.44	1.52
4	P	1503	ILE	C-N	6.41	1.41	1.34
4	D	1503	ILE	C-N	6.41	1.41	1.34
4	J	1503	ILE	C-N	6.40	1.41	1.34
2	S	335	LEU	CA-CB	-6.40	1.42	1.53
2	M	390	GLN	N-CA	6.40	1.54	1.46
2	G	249	PRO	CA-CB	-6.39	1.44	1.53
2	S	249	PRO	CA-CB	-6.38	1.44	1.53
2	Y	249	PRO	CA-C	-6.38	1.43	1.52
2	S	340	ALA	CA-CB	-6.38	1.44	1.52
2	Y	390	GLN	N-CA	6.37	1.54	1.46
2	G	390	GLN	N-CA	6.37	1.54	1.46
2	S	275	MET	CA-CB	6.37	1.63	1.53
4	D	1685	LEU	CA-C	-6.36	1.46	1.53
2	Y	275	MET	CA-CB	6.36	1.63	1.53
1	L	430	ARG	N-CA	-6.36	1.38	1.46
4	P	1685	LEU	CA-C	-6.35	1.46	1.53
4	J	1685	LEU	CA-C	-6.35	1.46	1.53
2	G	275	MET	CA-CB	6.35	1.63	1.53
3	N	366	ILE	CA-C	6.35	1.60	1.52
3	N	409	PRO	C-O	6.35	1.32	1.24
3	Z	409	PRO	C-O	6.34	1.32	1.24
4	D	1499	LEU	CA-C	-6.34	1.44	1.52
3	Z	366	ILE	CA-C	6.34	1.60	1.52
4	P	1499	LEU	CA-C	-6.34	1.44	1.52
4	V	1503	ILE	C-N	6.34	1.41	1.34
1	R	433	GLU	CA-C	6.33	1.61	1.52
2	M	340	ALA	CA-CB	-6.33	1.44	1.52
4	D	1544	PRO	C-O	6.33	1.31	1.24
3	T	447	MET	N-CA	6.33	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	D	1662	CYS	CA-C	6.32	1.61	1.52
1	F	430	ARG	N-CA	-6.32	1.38	1.46
1	L	421	LEU	CA-C	-6.32	1.44	1.52
4	D	1532	ASP	CA-C	-6.32	1.44	1.52
4	D	1531	GLU	C-N	6.32	1.42	1.33
2	G	369	ASN	N-CA	6.32	1.54	1.46
2	G	411	LYS	CA-C	-6.30	1.44	1.52
1	L	396	GLN	N-CA	6.30	1.53	1.46
4	V	1532	ASP	CA-C	-6.30	1.44	1.52
1	F	421	LEU	CA-C	-6.29	1.44	1.52
1	R	396	GLN	N-CA	6.29	1.53	1.46
2	S	319	LEU	CA-C	-6.29	1.44	1.52
4	P	1544	PRO	C-O	6.29	1.31	1.24
1	F	433	GLU	CA-C	6.29	1.61	1.52
2	G	340	ALA	CA-CB	-6.29	1.44	1.52
1	F	483	ASP	CA-C	6.28	1.61	1.52
2	Y	319	LEU	CA-C	-6.28	1.44	1.52
4	J	1532	ASP	CA-C	-6.28	1.44	1.52
1	L	339	VAL	N-CA	6.28	1.54	1.46
4	V	1492	GLY	C-N	6.28	1.42	1.33
1	X	411	ARG	N-CA	-6.28	1.38	1.46
2	S	249	PRO	CA-C	-6.28	1.43	1.52
3	H	409	PRO	C-O	6.27	1.32	1.24
1	F	339	VAL	N-CA	6.26	1.53	1.46
1	F	411	ARG	N-CA	-6.26	1.38	1.46
1	R	331	LYS	CA-CB	6.26	1.64	1.53
4	D	1492	GLY	C-N	6.26	1.42	1.33
2	Y	340	ALA	CA-CB	-6.26	1.44	1.52
2	M	411	LYS	CA-C	-6.26	1.44	1.52
1	R	430	ARG	N-CA	-6.26	1.38	1.46
1	L	442	ASN	CA-C	6.26	1.60	1.52
1	R	411	ARG	N-CA	-6.26	1.38	1.46
4	P	1532	ASP	CA-C	-6.26	1.44	1.52
1	R	328	VAL	N-CA	6.25	1.55	1.46
4	V	1536	LEU	CA-C	6.25	1.60	1.52
1	F	335	ARG	N-CA	6.25	1.53	1.46
4	V	1499	LEU	CA-C	-6.25	1.44	1.52
2	G	249	PRO	CA-C	-6.25	1.43	1.52
1	X	483	ASP	CA-C	6.25	1.61	1.52
4	V	1516	LEU	C-N	6.24	1.41	1.33
2	S	401	ALA	N-CA	-6.24	1.38	1.46
4	J	1531	GLU	C-N	6.24	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	430	ARG	CA-C	-6.24	1.45	1.52
1	X	421	LEU	CA-C	-6.24	1.45	1.52
3	Z	413	LEU	CA-C	-6.24	1.45	1.52
2	Y	249	PRO	CA-CB	-6.23	1.45	1.53
4	J	1499	LEU	CA-C	-6.23	1.44	1.52
2	G	264	GLU	CA-CB	-6.23	1.43	1.53
1	L	433	GLU	CA-C	6.23	1.61	1.52
1	X	433	GLU	CA-C	6.22	1.61	1.52
1	L	328	VAL	N-CA	6.22	1.55	1.46
4	V	1531	GLU	C-N	6.22	1.42	1.33
1	F	328	VAL	N-CA	6.22	1.55	1.46
2	Y	411	LYS	CA-C	-6.22	1.44	1.52
1	X	339	VAL	N-CA	6.21	1.53	1.46
3	T	366	ILE	CA-C	6.21	1.60	1.52
2	G	319	LEU	CA-C	-6.20	1.44	1.52
1	X	396	GLN	N-CA	6.20	1.53	1.46
1	L	291	ALA	CA-C	-6.20	1.44	1.52
3	Z	447	MET	N-CA	6.20	1.53	1.46
4	J	1492	GLY	C-N	6.20	1.42	1.33
2	M	249	PRO	CA-C	-6.19	1.43	1.52
1	X	328	VAL	N-CA	6.18	1.55	1.46
1	L	411	ARG	N-CA	-6.18	1.38	1.46
1	R	442	ASN	C-O	6.18	1.31	1.24
1	R	339	VAL	N-CA	6.18	1.53	1.46
3	T	384	LEU	CA-CB	-6.18	1.43	1.53
3	T	409	PRO	C-O	6.18	1.31	1.24
2	M	319	LEU	CA-C	-6.17	1.44	1.52
3	T	413	LEU	CA-C	-6.17	1.45	1.52
4	P	1531	GLU	C-N	6.17	1.42	1.33
2	Y	360	TYR	CA-C	-6.17	1.45	1.52
3	N	413	LEU	CA-C	-6.17	1.45	1.52
4	P	1536	LEU	CA-C	6.17	1.60	1.52
4	D	1536	LEU	CA-C	6.17	1.60	1.52
1	X	331	LYS	CA-CB	6.17	1.64	1.53
2	S	369	ASN	N-CA	6.17	1.54	1.46
4	V	1544	PRO	C-O	6.17	1.31	1.24
1	R	430	ARG	CA-C	-6.16	1.45	1.52
1	L	335	ARG	N-CA	6.16	1.53	1.46
4	J	1536	LEU	CA-C	6.16	1.60	1.52
1	X	430	ARG	CA-C	-6.16	1.45	1.52
1	F	331	LYS	CA-CB	6.16	1.64	1.53
1	X	335	ARG	N-CA	6.15	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	360	TYR	CA-C	-6.15	1.45	1.52
1	R	421	LEU	CA-C	-6.15	1.45	1.52
1	L	430	ARG	CA-C	-6.15	1.45	1.52
3	H	413	LEU	CA-C	-6.15	1.45	1.52
2	Y	264	GLU	CA-CB	-6.14	1.43	1.53
1	L	331	LYS	CA-CB	6.14	1.64	1.53
2	Y	303	ARG	N-CA	-6.14	1.38	1.46
2	Y	369	ASN	N-CA	6.14	1.54	1.46
2	M	360	TYR	CA-C	-6.14	1.45	1.52
1	R	483	ASP	CA-C	6.14	1.61	1.52
1	L	442	ASN	C-O	6.14	1.31	1.24
4	P	1492	GLY	C-N	6.14	1.42	1.33
2	Y	401	ALA	N-CA	-6.14	1.39	1.46
2	M	264	GLU	CA-CB	-6.14	1.43	1.53
1	R	291	ALA	CA-C	-6.13	1.44	1.52
1	F	444	PHE	N-CA	6.13	1.53	1.46
4	J	1516	LEU	C-N	6.13	1.41	1.33
1	F	291	ALA	CA-C	-6.12	1.44	1.52
4	J	1531	GLU	N-CA	-6.12	1.38	1.46
4	P	1489	HIS	C-O	-6.12	1.16	1.23
1	F	442	ASN	CA-C	6.12	1.60	1.52
2	Y	339	TYR	CA-C	-6.11	1.46	1.53
2	S	411	LYS	CA-C	-6.11	1.44	1.52
4	D	1509	GLN	CA-C	-6.11	1.45	1.52
4	D	1516	LEU	C-N	6.11	1.41	1.33
3	N	447	MET	N-CA	6.11	1.53	1.46
2	S	264	GLU	CA-CB	-6.11	1.43	1.53
4	P	1540	LEU	CA-C	6.11	1.60	1.52
3	Z	384	LEU	CA-CB	-6.11	1.43	1.53
3	N	498	LYS	N-CA	6.10	1.53	1.46
4	J	1544	PRO	C-O	6.10	1.31	1.24
1	R	442	ASN	CA-C	6.09	1.60	1.52
3	H	407	LEU	N-CA	-6.09	1.38	1.46
1	X	291	ALA	CA-C	-6.09	1.44	1.52
3	Z	498	LYS	N-CA	6.09	1.53	1.46
3	H	447	MET	N-CA	6.09	1.53	1.46
2	S	360	TYR	CA-C	-6.09	1.45	1.52
2	M	401	ALA	N-CA	-6.08	1.39	1.46
1	X	442	ASN	C-O	6.08	1.31	1.24
1	F	432	ASN	CA-C	6.08	1.61	1.52
4	D	1489	HIS	C-O	-6.07	1.16	1.23
1	X	492	GLU	N-CA	6.07	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	448	ARG	CA-C	6.07	1.61	1.52
4	P	1663	GLN	N-CA	6.07	1.53	1.46
3	T	498	LYS	N-CA	6.07	1.53	1.46
1	F	442	ASN	C-O	6.06	1.31	1.24
1	L	432	ASN	CA-C	6.06	1.61	1.52
1	R	492	GLU	N-CA	6.06	1.54	1.46
4	J	1489	HIS	C-O	-6.06	1.16	1.23
2	M	369	ASN	N-CA	6.05	1.54	1.46
1	F	492	GLU	N-CA	6.04	1.53	1.46
3	T	393	LEU	N-CA	-6.04	1.38	1.46
4	D	1540	LEU	CA-C	6.04	1.60	1.52
1	F	448	ARG	CA-C	6.03	1.61	1.52
3	H	498	LYS	N-CA	6.02	1.53	1.46
1	R	335	ARG	N-CA	6.02	1.53	1.46
4	P	1531	GLU	N-CA	-6.02	1.38	1.46
3	H	384	LEU	CA-CB	-6.00	1.44	1.53
1	X	442	ASN	CA-C	6.00	1.60	1.52
4	V	1489	HIS	C-O	-6.00	1.16	1.23
4	V	1663	GLN	N-CA	6.00	1.53	1.46
4	V	1509	GLN	CA-C	-6.00	1.45	1.52
1	X	444	PHE	N-CA	5.99	1.53	1.46
2	G	364	ILE	CA-C	-5.99	1.45	1.52
3	Z	407	LEU	N-CA	-5.99	1.38	1.46
3	T	407	LEU	N-CA	-5.99	1.38	1.46
1	R	489	LYS	N-CA	-5.99	1.38	1.46
3	N	384	LEU	CA-CB	-5.99	1.44	1.53
4	P	1516	LEU	C-N	5.99	1.41	1.33
3	T	446	ARG	N-CA	5.98	1.53	1.46
4	P	1518	ASN	C-O	5.98	1.30	1.24
4	P	1509	GLN	CA-C	-5.98	1.45	1.52
1	R	419	GLY	N-CA	5.97	1.55	1.45
2	G	303	ARG	N-CA	-5.96	1.38	1.46
2	M	324	ILE	CA-CB	-5.96	1.45	1.54
3	H	378	GLU	N-CA	-5.96	1.38	1.46
4	D	1518	ASN	C-O	5.96	1.30	1.24
3	N	393	LEU	N-CA	-5.95	1.38	1.46
4	V	1540	LEU	CA-C	5.95	1.60	1.52
4	D	511	ILE	CA-CB	-5.95	1.51	1.54
2	M	272	ILE	CA-C	-5.95	1.45	1.52
2	S	303	ARG	N-CA	-5.95	1.38	1.46
2	S	274	ARG	C-N	5.95	1.42	1.34
1	L	448	ARG	CA-C	5.94	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	492	GLU	N-CA	5.94	1.53	1.46
4	D	1531	GLU	N-CA	-5.94	1.38	1.46
4	J	1509	GLN	CA-C	-5.94	1.45	1.52
2	M	368	GLU	N-CA	-5.93	1.38	1.46
4	J	1663	GLN	N-CA	5.93	1.52	1.46
3	H	416	GLU	N-CA	-5.93	1.38	1.46
3	N	407	LEU	N-CA	-5.93	1.38	1.46
1	R	432	ASN	CA-C	5.93	1.61	1.52
1	R	444	PHE	N-CA	5.93	1.53	1.46
3	H	495	LEU	C-N	5.92	1.41	1.33
3	T	495	LEU	C-N	5.92	1.41	1.33
1	F	319	SER	C-N	5.92	1.43	1.33
1	X	419	GLY	N-CA	5.92	1.55	1.45
1	X	432	ASN	CA-C	5.91	1.61	1.52
3	Z	378	GLU	N-CA	-5.91	1.38	1.46
3	N	378	GLU	N-CA	-5.91	1.38	1.46
1	X	319	SER	C-N	5.91	1.42	1.33
2	Y	274	ARG	C-N	5.91	1.42	1.34
1	L	444	PHE	N-CA	5.91	1.53	1.46
3	T	378	GLU	N-CA	-5.91	1.38	1.46
4	P	1493	ARG	C-N	-5.91	1.25	1.33
3	Z	495	LEU	C-N	5.90	1.41	1.33
2	G	274	ARG	C-N	5.90	1.42	1.34
2	G	401	ALA	N-CA	-5.90	1.39	1.46
2	M	303	ARG	N-CA	-5.90	1.38	1.46
3	H	446	ARG	N-CA	5.90	1.53	1.46
4	J	1540	LEU	CA-C	5.89	1.60	1.52
3	H	393	LEU	N-CA	-5.89	1.38	1.46
4	D	1663	GLN	N-CA	5.89	1.52	1.46
2	G	339	TYR	CA-C	-5.89	1.47	1.53
1	L	419	GLY	N-CA	5.89	1.55	1.45
2	M	274	ARG	C-N	5.89	1.42	1.34
1	L	319	SER	C-N	5.88	1.42	1.33
2	S	324	ILE	CA-CB	-5.88	1.46	1.54
2	M	339	TYR	CA-C	-5.88	1.47	1.53
1	F	419	GLY	N-CA	5.88	1.55	1.45
1	X	454	TYR	N-CA	5.87	1.53	1.46
2	M	364	ILE	CA-C	-5.87	1.45	1.52
1	R	319	SER	C-N	5.87	1.42	1.33
3	Z	393	LEU	N-CA	-5.87	1.38	1.46
3	Z	446	ARG	N-CA	5.87	1.53	1.46
2	S	364	ILE	CA-C	-5.87	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	G	368	GLU	N-CA	-5.87	1.38	1.46
4	J	1518	ASN	C-O	5.87	1.30	1.24
2	Y	364	ILE	CA-C	-5.85	1.45	1.52
1	R	466	HIS	N-CA	-5.84	1.38	1.46
2	Y	409	ASN	N-CA	-5.84	1.39	1.46
2	Y	368	GLU	N-CA	-5.84	1.38	1.46
3	N	495	LEU	C-N	5.84	1.41	1.33
1	L	489	LYS	N-CA	-5.83	1.38	1.46
4	V	1493	ARG	C-N	-5.83	1.26	1.33
3	N	416	GLU	N-CA	-5.83	1.38	1.46
2	M	409	ASN	N-CA	-5.82	1.39	1.46
4	D	1493	ARG	C-N	-5.82	1.26	1.33
1	F	489	LYS	N-CA	-5.82	1.38	1.46
3	Z	416	GLU	C-N	-5.82	1.26	1.33
3	T	416	GLU	N-CA	-5.82	1.38	1.46
2	S	272	ILE	CA-C	-5.82	1.45	1.52
4	V	1518	ASN	C-O	5.82	1.30	1.24
3	Z	395	PHE	C-N	5.81	1.41	1.34
4	J	1493	ARG	C-N	-5.80	1.26	1.33
2	Y	324	ILE	CA-CB	-5.80	1.46	1.54
1	L	412	VAL	C-N	5.80	1.41	1.33
3	Z	416	GLU	N-CA	-5.80	1.38	1.46
2	S	409	ASN	N-CA	-5.80	1.39	1.46
2	S	339	TYR	CA-C	-5.79	1.47	1.53
4	V	1531	GLU	N-CA	-5.79	1.38	1.46
2	G	409	ASN	N-CA	-5.79	1.39	1.46
1	F	156	ASN	N-CA	-5.79	1.39	1.46
1	L	424	PRO	N-CA	-5.79	1.40	1.47
1	F	466	HIS	N-CA	-5.78	1.38	1.46
1	X	489	LYS	N-CA	-5.78	1.39	1.46
3	N	446	ARG	N-CA	5.78	1.53	1.46
1	R	412	VAL	C-N	5.78	1.41	1.33
2	Y	272	ILE	CA-C	-5.78	1.45	1.52
3	N	496	GLN	C-O	5.77	1.30	1.24
1	X	468	LYS	N-CA	-5.77	1.39	1.46
3	N	395	PHE	C-N	5.77	1.41	1.34
4	V	1466	ASN	CA-C	-5.77	1.45	1.52
4	V	1487	ASP	C-O	5.77	1.31	1.24
2	G	272	ILE	CA-C	-5.77	1.45	1.52
2	S	338	GLU	C-O	-5.76	1.15	1.23
3	T	395	PHE	C-N	5.76	1.41	1.34
3	H	395	PHE	C-N	5.75	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	P	511	ILE	CA-CB	-5.75	1.51	1.54
1	F	412	VAL	C-N	5.74	1.41	1.33
1	F	484	ASP	N-CA	5.73	1.53	1.46
1	L	468	LYS	N-CA	-5.72	1.39	1.46
1	X	424	PRO	N-CA	-5.71	1.40	1.47
1	L	466	HIS	N-CA	-5.71	1.38	1.46
1	X	412	VAL	C-N	5.71	1.41	1.33
1	L	484	ASP	N-CA	5.71	1.53	1.46
1	R	484	ASP	N-CA	5.70	1.53	1.46
1	F	453	TYR	C-N	5.70	1.41	1.33
1	L	156	ASN	N-CA	-5.70	1.39	1.46
4	V	1503	ILE	CA-C	-5.70	1.45	1.52
4	J	1466	ASN	CA-C	-5.70	1.45	1.52
1	L	444	PHE	C-O	5.69	1.30	1.24
2	S	368	GLU	N-CA	-5.69	1.38	1.46
3	N	416	GLU	C-N	-5.69	1.26	1.33
3	T	391	GLN	CA-CB	-5.69	1.44	1.53
1	R	424	PRO	N-CA	-5.69	1.40	1.47
3	H	391	GLN	CA-CB	-5.68	1.44	1.53
3	Z	496	GLN	C-O	5.68	1.30	1.24
4	P	1466	ASN	CA-C	-5.68	1.45	1.52
2	G	324	ILE	CA-CB	-5.67	1.46	1.54
4	J	1487	ASP	C-O	5.66	1.31	1.24
1	L	453	TYR	C-N	5.66	1.41	1.33
3	H	416	GLU	C-N	-5.66	1.26	1.33
1	L	143	GLN	CA-CB	5.66	1.63	1.53
1	R	444	PHE	C-O	5.66	1.30	1.24
1	X	143	GLN	CA-CB	5.65	1.63	1.53
1	X	466	HIS	N-CA	-5.65	1.38	1.46
1	R	454	TYR	N-CA	5.65	1.53	1.46
3	T	496	GLN	C-O	5.65	1.30	1.24
4	P	1533	ASP	N-CA	-5.64	1.39	1.46
3	T	416	GLU	C-N	-5.64	1.26	1.33
4	D	1466	ASN	CA-C	-5.64	1.45	1.52
6	O	485	LEU	N-CA	-5.64	1.39	1.46
2	G	338	GLU	C-O	-5.63	1.15	1.23
1	L	474	LEU	CA-C	-5.63	1.45	1.52
1	X	484	ASP	CA-CB	5.62	1.62	1.53
3	H	496	GLN	C-O	5.61	1.30	1.24
1	F	454	TYR	N-CA	5.61	1.53	1.46
1	F	424	PRO	N-CA	-5.61	1.40	1.47
1	L	484	ASP	CA-CB	5.61	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Z	380	GLU	N-CA	-5.61	1.39	1.46
6	I	485	LEU	N-CA	-5.61	1.39	1.46
1	X	474	LEU	CA-C	-5.60	1.45	1.52
2	M	338	GLU	C-O	-5.60	1.15	1.23
3	N	395	PHE	CA-CB	-5.60	1.44	1.53
1	R	156	ASN	N-CA	-5.60	1.39	1.46
1	X	484	ASP	N-CA	5.59	1.53	1.46
1	X	156	ASN	N-CA	-5.59	1.39	1.46
1	L	454	TYR	N-CA	5.59	1.53	1.46
1	L	480	ILE	CA-C	-5.58	1.45	1.52
2	S	412	VAL	N-CA	-5.58	1.39	1.46
1	F	468	LYS	N-CA	-5.58	1.39	1.46
3	T	395	PHE	CA-CB	-5.58	1.44	1.53
3	N	381	LYS	CA-C	-5.58	1.45	1.52
1	F	467	LEU	N-CA	-5.57	1.39	1.46
2	S	320	LYS	CA-CB	5.57	1.62	1.53
4	P	1503	ILE	CA-C	-5.57	1.45	1.52
3	Z	395	PHE	CA-CB	-5.56	1.44	1.53
1	R	474	LEU	CA-C	-5.56	1.45	1.52
2	M	320	LYS	CA-CB	5.56	1.62	1.53
1	X	308	ILE	CA-C	-5.55	1.45	1.52
1	X	411	ARG	C-N	5.55	1.41	1.33
1	F	474	LEU	CA-C	-5.55	1.45	1.52
3	N	391	GLN	CA-CB	-5.55	1.44	1.53
3	Z	381	LYS	CA-C	-5.54	1.45	1.52
1	R	453	TYR	C-N	5.54	1.41	1.33
1	X	453	TYR	C-N	5.54	1.41	1.33
1	R	308	ILE	CA-C	-5.54	1.45	1.52
2	Y	338	GLU	C-O	-5.53	1.15	1.23
1	F	484	ASP	CA-CB	5.53	1.61	1.53
3	Z	391	GLN	CA-CB	-5.53	1.44	1.53
1	L	131	GLY	C-N	5.53	1.41	1.34
1	R	316	ASN	CA-C	-5.53	1.46	1.53
1	R	411	ARG	C-N	5.53	1.40	1.33
4	V	1450	GLU	CA-C	-5.53	1.45	1.52
4	V	1519	SER	C-O	5.52	1.30	1.24
1	F	316	ASN	CA-C	-5.52	1.46	1.53
1	L	348	GLN	N-CA	-5.52	1.39	1.46
1	F	348	GLN	N-CA	-5.51	1.39	1.46
2	Y	412	VAL	N-CA	-5.51	1.39	1.46
1	L	308	ILE	CA-C	-5.51	1.45	1.52
2	M	253	GLN	CA-CB	-5.51	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	D	1503	ILE	CA-C	-5.51	1.45	1.52
1	R	468	LYS	N-CA	-5.51	1.39	1.46
1	F	444	PHE	C-O	5.51	1.30	1.24
4	P	1519	SER	C-O	5.51	1.30	1.24
4	D	1487	ASP	C-O	5.51	1.30	1.24
1	X	459	LEU	N-CA	-5.50	1.39	1.46
4	P	1487	ASP	C-O	5.50	1.30	1.24
6	U	485	LEU	N-CA	-5.50	1.39	1.46
1	F	131	GLY	C-N	5.50	1.41	1.34
4	D	1519	SER	C-O	5.50	1.30	1.24
1	L	307	ILE	CA-C	5.50	1.59	1.52
1	X	444	PHE	C-O	5.49	1.30	1.24
3	T	381	LYS	CA-C	-5.49	1.45	1.52
1	R	143	GLN	CA-CB	5.48	1.63	1.53
3	H	395	PHE	CA-CB	-5.47	1.44	1.53
1	R	480	ILE	CA-C	-5.47	1.45	1.52
1	F	308	ILE	CA-C	-5.47	1.45	1.52
3	H	380	GLU	N-CA	-5.47	1.39	1.46
1	R	131	GLY	C-N	5.47	1.41	1.34
4	J	1533	ASP	N-CA	-5.47	1.39	1.46
1	F	307	ILE	CA-C	5.46	1.59	1.52
4	V	511	ILE	CA-CB	-5.46	1.51	1.54
1	L	366	THR	N-CA	-5.46	1.39	1.46
2	G	320	LYS	CA-CB	5.46	1.62	1.53
1	X	348	GLN	N-CA	-5.46	1.39	1.46
6	O	234	LEU	N-CA	-5.46	1.35	1.46
3	N	419	GLY	CA-C	-5.45	1.45	1.51
1	X	316	ASN	CA-C	-5.45	1.46	1.53
1	R	459	LEU	N-CA	-5.44	1.39	1.46
1	F	459	LEU	N-CA	-5.44	1.39	1.46
2	Y	320	LYS	CA-CB	5.44	1.62	1.53
4	J	1519	SER	C-O	5.43	1.30	1.24
1	L	409	GLN	CA-C	-5.43	1.45	1.52
1	X	300	PRO	N-CA	5.43	1.57	1.46
3	H	381	LYS	CA-C	-5.43	1.45	1.52
4	P	1542	PRO	C-O	-5.42	1.17	1.24
1	F	143	GLN	CA-CB	5.42	1.63	1.53
1	F	411	ARG	C-N	5.42	1.40	1.33
1	R	467	LEU	N-CA	-5.42	1.39	1.46
4	V	1542	PRO	C-O	-5.42	1.17	1.24
1	X	467	LEU	N-CA	-5.41	1.39	1.46
1	L	467	LEU	N-CA	-5.41	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	1503	ILE	CA-C	-5.41	1.46	1.52
1	R	484	ASP	CA-CB	5.41	1.61	1.53
2	M	256	GLU	C-N	5.41	1.41	1.33
1	F	300	PRO	N-CA	5.41	1.57	1.46
6	U	233	VAL	N-CA	-5.41	1.39	1.46
6	U	234	LEU	N-CA	-5.41	1.35	1.46
4	J	1486	CYS	N-CA	-5.40	1.39	1.46
1	L	316	ASN	CA-C	-5.40	1.46	1.53
2	G	412	VAL	N-CA	-5.40	1.39	1.46
4	V	1486	CYS	N-CA	-5.40	1.39	1.46
4	J	1506	VAL	C-N	-5.40	1.26	1.33
3	T	380	GLU	N-CA	-5.40	1.39	1.46
1	F	480	ILE	CA-C	-5.39	1.45	1.52
1	X	364	ASN	CA-C	-5.39	1.45	1.52
1	X	366	THR	N-CA	-5.39	1.40	1.46
4	D	1542	PRO	C-O	-5.39	1.17	1.24
1	F	329	GLY	C-N	5.39	1.41	1.33
4	P	1506	VAL	C-N	-5.39	1.26	1.33
1	X	409	GLN	CA-C	-5.39	1.45	1.52
1	L	329	GLY	C-N	5.39	1.41	1.33
2	Y	253	GLN	CA-CB	-5.38	1.44	1.53
4	D	1450	GLU	CA-C	-5.38	1.45	1.52
2	G	253	GLN	CA-CB	-5.38	1.44	1.53
2	Y	256	GLU	C-N	5.38	1.41	1.33
1	L	300	PRO	N-CA	5.38	1.57	1.46
1	R	348	GLN	N-CA	-5.38	1.39	1.46
1	R	409	GLN	CA-C	-5.38	1.45	1.52
2	G	312	LYS	C-N	-5.38	1.27	1.33
1	R	300	PRO	N-CA	5.37	1.57	1.46
4	J	511	ILE	CA-CB	-5.37	1.51	1.54
2	M	312	LYS	C-N	-5.36	1.27	1.33
2	S	253	GLN	CA-CB	-5.36	1.44	1.53
4	J	1450	GLU	CA-C	-5.36	1.45	1.52
1	F	411	ARG	CA-CB	5.35	1.61	1.53
3	Z	419	GLY	CA-C	-5.35	1.45	1.51
1	L	459	LEU	N-CA	-5.35	1.39	1.46
2	M	412	VAL	N-CA	-5.35	1.40	1.46
1	X	131	GLY	C-N	5.35	1.41	1.34
1	R	366	THR	N-CA	-5.35	1.40	1.46
6	O	252	MET	CA-C	-5.35	1.45	1.52
6	I	234	LEU	N-CA	-5.35	1.36	1.46
4	D	1505	SER	N-CA	-5.34	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	364	ASN	CA-C	-5.34	1.45	1.52
1	L	411	ARG	C-N	5.34	1.40	1.33
1	X	307	ILE	CA-C	5.34	1.59	1.52
6	C	485	LEU	N-CA	-5.34	1.39	1.46
2	S	397	VAL	C-N	5.34	1.41	1.33
4	D	1524	VAL	N-CA	-5.34	1.40	1.46
1	X	414	LEU	N-CA	-5.33	1.40	1.46
2	S	256	GLU	C-N	5.33	1.41	1.33
4	J	1472	SER	C-O	5.33	1.30	1.24
1	F	366	THR	N-CA	-5.33	1.40	1.46
6	C	233	VAL	N-CA	-5.33	1.39	1.46
3	H	376	HIS	CA-C	-5.33	1.45	1.52
1	F	364	ASN	CA-C	-5.32	1.45	1.52
1	F	440	MET	CA-C	5.32	1.59	1.52
3	T	419	GLY	CA-C	-5.32	1.45	1.51
1	X	480	ILE	CA-C	-5.32	1.46	1.52
4	P	1450	GLU	CA-C	-5.32	1.45	1.52
4	P	1486	CYS	N-CA	-5.32	1.40	1.46
4	V	1506	VAL	C-N	-5.32	1.26	1.33
2	M	330	LYS	N-CA	-5.32	1.40	1.46
4	D	1533	ASP	N-CA	-5.32	1.39	1.46
6	C	234	LEU	N-CA	-5.32	1.36	1.46
3	Z	387	LYS	C-N	-5.32	1.26	1.33
4	D	1486	CYS	N-CA	-5.32	1.40	1.46
1	R	438	ILE	N-CA	-5.31	1.40	1.46
3	T	387	LYS	C-N	-5.31	1.26	1.33
3	H	419	GLY	CA-C	-5.31	1.45	1.51
3	H	387	LYS	C-N	-5.30	1.26	1.33
4	J	1542	PRO	C-O	-5.30	1.17	1.24
3	N	380	GLU	N-CA	-5.30	1.39	1.46
2	G	256	GLU	C-N	5.29	1.41	1.33
1	X	349	THR	CA-CB	5.29	1.61	1.53
1	X	411	ARG	CA-CB	5.29	1.61	1.53
3	N	379	VAL	CA-C	5.29	1.59	1.52
3	T	470	PRO	N-CA	-5.29	1.40	1.47
4	J	1477	LEU	N-CA	-5.29	1.39	1.46
4	J	1661	ARG	C-N	5.29	1.41	1.33
1	X	417	ILE	CA-CB	-5.28	1.47	1.54
3	N	387	LYS	C-N	-5.28	1.26	1.33
1	R	307	ILE	CA-C	5.28	1.59	1.52
1	R	349	THR	CA-CB	5.28	1.61	1.53
4	J	1452	LEU	CA-C	-5.28	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	V	1533	ASP	N-CA	-5.28	1.39	1.46
6	O	233	VAL	N-CA	-5.28	1.39	1.46
3	Z	376	HIS	CA-C	-5.28	1.46	1.52
6	I	252	MET	CA-C	-5.28	1.45	1.52
1	L	438	ILE	N-CA	-5.27	1.40	1.46
1	F	417	ILE	CA-CB	-5.27	1.47	1.54
1	X	329	GLY	C-N	5.27	1.41	1.33
1	R	329	GLY	C-N	5.27	1.41	1.33
2	S	312	LYS	C-N	-5.26	1.27	1.33
3	Z	349	ARG	CA-CB	5.26	1.61	1.53
1	F	349	THR	CA-CB	5.25	1.61	1.53
1	L	407	GLU	CA-C	-5.25	1.46	1.52
1	R	364	ASN	CA-C	-5.25	1.46	1.52
4	V	1452	LEU	CA-C	-5.25	1.46	1.52
1	L	447	VAL	N-CA	-5.25	1.40	1.46
3	N	376	HIS	CA-C	-5.25	1.46	1.52
4	P	1661	ARG	C-N	5.25	1.41	1.33
2	Y	397	VAL	C-N	5.24	1.41	1.33
1	X	467	LEU	C-N	5.24	1.40	1.33
1	R	407	GLU	CA-C	-5.24	1.46	1.52
4	D	1506	VAL	C-N	-5.24	1.26	1.33
1	F	447	VAL	N-CA	-5.24	1.40	1.46
4	V	1502	ARG	CA-C	-5.24	1.46	1.52
1	R	440	MET	CA-C	5.23	1.59	1.52
2	S	334	GLY	N-CA	-5.23	1.39	1.45
1	F	399	SER	C-O	-5.23	1.17	1.24
1	F	409	GLN	CA-C	-5.23	1.46	1.52
4	D	1477	LEU	N-CA	-5.22	1.39	1.46
4	J	1540	LEU	N-CA	-5.22	1.40	1.46
1	X	440	MET	CA-C	5.22	1.59	1.52
4	V	1661	ARG	C-N	5.22	1.41	1.33
4	V	1540	LEU	N-CA	-5.22	1.40	1.46
4	J	1506	VAL	C-O	5.22	1.30	1.24
1	F	438	ILE	N-CA	-5.22	1.40	1.46
2	G	397	VAL	C-N	5.22	1.41	1.33
1	L	414	LEU	N-CA	-5.22	1.40	1.46
4	J	1524	VAL	N-CA	-5.22	1.40	1.46
2	G	300	GLY	CA-C	-5.21	1.46	1.52
1	R	414	LEU	N-CA	-5.21	1.40	1.46
3	Z	470	PRO	N-CA	-5.21	1.40	1.47
6	I	233	VAL	N-CA	-5.21	1.39	1.46
1	X	447	VAL	N-CA	-5.20	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	M	329	GLN	C-N	5.20	1.40	1.33
3	T	376	HIS	CA-C	-5.20	1.46	1.52
2	Y	330	LYS	N-CA	-5.20	1.40	1.46
3	N	341	SER	CA-C	5.20	1.59	1.52
6	U	252	MET	CA-C	-5.19	1.45	1.52
1	X	341	ASP	CA-CB	-5.19	1.44	1.53
2	G	353	PHE	N-CA	-5.19	1.39	1.46
5	K	87	VAL	CA-CB	-5.19	1.50	1.54
4	D	1472	SER	C-O	5.18	1.30	1.24
6	C	252	MET	CA-C	-5.18	1.45	1.52
2	M	411	LYS	N-CA	-5.18	1.39	1.46
1	L	440	MET	CA-C	5.18	1.59	1.52
1	R	411	ARG	CA-CB	5.18	1.61	1.53
1	X	399	SER	C-O	-5.17	1.17	1.24
2	M	397	VAL	C-N	5.17	1.41	1.33
1	F	407	GLU	CA-C	-5.17	1.46	1.52
3	H	470	PRO	N-CA	-5.17	1.40	1.47
4	V	1477	LEU	N-CA	-5.16	1.39	1.46
1	F	398	LYS	CA-C	-5.16	1.45	1.52
4	P	1452	LEU	CA-C	-5.16	1.46	1.52
4	D	1452	LEU	CA-C	-5.16	1.46	1.52
1	R	448	ARG	CA-CB	-5.16	1.44	1.53
1	R	417	ILE	CA-CB	-5.16	1.48	1.54
2	Y	312	LYS	C-N	-5.15	1.27	1.33
1	L	411	ARG	CA-CB	5.15	1.61	1.53
4	J	1505	SER	N-CA	-5.15	1.40	1.46
1	F	414	LEU	N-CA	-5.15	1.40	1.46
1	X	369	VAL	N-CA	-5.15	1.40	1.46
2	Y	353	PHE	N-CA	-5.15	1.39	1.46
1	L	341	ASP	CA-CB	-5.15	1.44	1.53
2	G	334	GLY	N-CA	-5.15	1.39	1.45
3	T	349	ARG	CA-CB	5.15	1.61	1.53
4	P	1477	LEU	N-CA	-5.15	1.39	1.46
4	V	1541	THR	C-N	-5.15	1.21	1.33
1	R	467	LEU	C-N	5.14	1.40	1.33
2	Y	272	ILE	CA-CB	-5.14	1.47	1.54
4	J	1452	LEU	N-CA	-5.14	1.40	1.46
3	H	349	ARG	CA-CB	5.14	1.61	1.53
1	R	462	GLU	N-CA	-5.14	1.40	1.46
3	Z	453	ASP	C-N	5.14	1.40	1.33
2	S	300	GLY	CA-C	-5.14	1.46	1.52
4	P	1524	VAL	N-CA	-5.14	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	V	1524	VAL	N-CA	-5.14	1.40	1.46
1	F	341	ASP	CA-CB	-5.14	1.44	1.53
2	Y	411	LYS	N-CA	-5.14	1.39	1.46
2	M	353	PHE	N-CA	-5.14	1.39	1.46
2	S	260	LYS	CA-C	5.14	1.59	1.52
4	V	1505	SER	N-CA	-5.13	1.40	1.46
1	L	349	THR	CA-CB	5.13	1.61	1.53
3	N	453	ASP	C-N	5.13	1.40	1.33
3	N	470	PRO	N-CA	-5.13	1.40	1.47
2	S	353	PHE	N-CA	-5.13	1.39	1.46
4	P	1540	LEU	N-CA	-5.13	1.40	1.46
1	L	417	ILE	CA-CB	-5.12	1.48	1.54
1	X	407	GLU	CA-C	-5.12	1.46	1.52
2	Y	260	LYS	CA-C	5.12	1.59	1.52
1	X	438	ILE	N-CA	-5.12	1.40	1.46
2	G	272	ILE	CA-CB	-5.12	1.47	1.54
1	X	462	GLU	N-CA	-5.12	1.40	1.46
4	V	1541	THR	C-O	5.12	1.29	1.24
4	D	1491	ILE	CA-C	5.12	1.59	1.52
1	R	341	ASP	CA-CB	-5.11	1.44	1.53
1	L	399	SER	C-O	-5.11	1.17	1.24
2	Y	334	GLY	N-CA	-5.11	1.39	1.45
3	Z	379	VAL	CA-C	5.11	1.58	1.52
1	L	462	GLU	N-CA	-5.11	1.40	1.46
4	P	1508	LYS	C-N	-5.11	1.26	1.33
1	R	399	SER	C-O	-5.11	1.17	1.24
2	M	260	LYS	CA-C	5.10	1.59	1.52
4	J	1491	ILE	CA-C	5.10	1.59	1.52
1	F	467	LEU	C-N	5.09	1.40	1.33
4	P	1491	ILE	CA-C	5.09	1.59	1.52
1	L	490	LEU	C-N	-5.09	1.28	1.34
2	S	330	LYS	N-CA	-5.09	1.40	1.46
6	O	250	VAL	C-N	5.09	1.40	1.33
2	M	300	GLY	CA-C	-5.09	1.46	1.52
3	T	341	SER	CA-C	5.09	1.59	1.52
2	G	341	ALA	C-N	5.08	1.40	1.34
4	J	1541	THR	C-O	5.08	1.29	1.24
4	J	1541	THR	C-N	-5.08	1.22	1.33
3	Z	341	SER	CA-C	5.08	1.59	1.52
3	N	349	ARG	CA-CB	5.08	1.61	1.53
1	R	369	VAL	N-CA	-5.08	1.40	1.46
1	R	447	VAL	N-CA	-5.08	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	Z	380	GLU	C-N	5.08	1.41	1.34
4	D	1541	THR	C-O	5.08	1.29	1.24
4	V	1452	LEU	N-CA	-5.08	1.40	1.46
4	P	1505	SER	N-CA	-5.08	1.40	1.46
4	P	1506	VAL	C-O	5.07	1.30	1.24
4	D	1661	ARG	C-N	5.07	1.40	1.33
3	H	453	ASP	C-N	5.07	1.40	1.33
3	T	453	ASP	C-N	5.07	1.40	1.33
4	P	1541	THR	C-N	-5.07	1.22	1.33
5	E	87	VAL	CA-CB	-5.07	1.50	1.54
2	G	411	LYS	N-CA	-5.07	1.40	1.46
2	S	373	THR	N-CA	-5.07	1.40	1.46
4	D	1506	VAL	C-O	5.06	1.30	1.24
1	X	398	LYS	CA-C	-5.05	1.45	1.52
4	V	1506	VAL	C-O	5.05	1.30	1.24
4	D	1502	ARG	CA-C	-5.05	1.46	1.52
2	G	336	GLN	C-N	5.05	1.40	1.33
4	P	1472	SER	C-O	5.05	1.29	1.24
4	P	1538	SER	N-CA	-5.05	1.39	1.46
1	X	490	LEU	C-N	-5.04	1.28	1.34
1	L	467	LEU	C-N	5.04	1.40	1.33
2	M	336	GLN	C-N	5.04	1.40	1.33
2	S	411	LYS	N-CA	-5.04	1.40	1.46
3	H	358	VAL	N-CA	-5.04	1.39	1.46
1	L	369	VAL	N-CA	-5.04	1.40	1.46
4	D	1540	LEU	N-CA	-5.04	1.40	1.46
3	H	379	VAL	CA-C	5.04	1.58	1.52
3	N	358	VAL	N-CA	-5.04	1.39	1.46
6	U	250	VAL	C-N	5.04	1.40	1.33
4	P	1541	THR	C-O	5.03	1.29	1.24
4	D	1541	THR	C-N	-5.03	1.22	1.33
4	P	1452	LEU	N-CA	-5.03	1.40	1.46
4	D	1452	LEU	N-CA	-5.03	1.40	1.46
2	S	341	ALA	C-N	5.02	1.40	1.34
2	Y	316	ALA	C-N	5.02	1.40	1.33
2	G	373	THR	N-CA	-5.02	1.40	1.46
2	G	329	GLN	C-N	5.01	1.40	1.33
2	Y	329	GLN	C-N	5.01	1.40	1.33
2	S	329	GLN	C-N	5.01	1.40	1.33
2	S	253	GLN	N-CA	5.01	1.52	1.46
1	F	462	GLU	N-CA	-5.01	1.40	1.46
1	R	490	LEU	C-N	-5.00	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	H	341	SER	CA-C	5.00	1.59	1.52
1	R	398	LYS	CA-C	-5.00	1.45	1.52
3	T	379	VAL	CA-C	5.00	1.58	1.52

All (5392) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	341	ALA	CA-C-N	-52.60	63.43	119.19
2	G	341	ALA	C-N-CA	-52.60	63.43	119.19
2	S	341	ALA	CA-C-N	-52.55	63.49	119.19
2	S	341	ALA	C-N-CA	-52.55	63.49	119.19
2	M	341	ALA	CA-C-N	-52.51	63.53	119.19
2	M	341	ALA	C-N-CA	-52.51	63.53	119.19
2	Y	341	ALA	CA-C-N	-52.50	63.54	119.19
2	Y	341	ALA	C-N-CA	-52.50	63.54	119.19
4	J	1488	GLY	CA-C-N	-46.38	47.27	123.33
4	J	1488	GLY	C-N-CA	-46.38	47.27	123.33
4	P	1488	GLY	CA-C-N	-46.35	47.31	123.33
4	P	1488	GLY	C-N-CA	-46.35	47.31	123.33
4	V	1488	GLY	CA-C-N	-46.31	47.38	123.33
4	V	1488	GLY	C-N-CA	-46.31	47.38	123.33
4	D	1488	GLY	CA-C-N	-46.28	47.44	123.33
4	D	1488	GLY	C-N-CA	-46.28	47.44	123.33
2	M	340	ALA	N-CA-C	-45.79	30.76	107.23
2	Y	340	ALA	N-CA-C	-45.75	30.82	107.23
2	S	340	ALA	N-CA-C	-45.75	30.83	107.23
2	G	340	ALA	N-CA-C	-45.74	30.84	107.23
3	Z	408	SER	CA-C-N	-41.71	67.71	119.84
3	Z	408	SER	C-N-CA	-41.71	67.71	119.84
3	T	408	SER	CA-C-N	-41.69	67.73	119.84
3	T	408	SER	C-N-CA	-41.69	67.73	119.84
3	H	408	SER	CA-C-N	-41.67	67.75	119.84
3	H	408	SER	C-N-CA	-41.67	67.75	119.84
4	P	1541	THR	CA-C-N	-41.65	67.78	119.84
4	P	1541	THR	C-N-CA	-41.65	67.78	119.84
3	N	408	SER	CA-C-N	-41.63	67.80	119.84
3	N	408	SER	C-N-CA	-41.63	67.80	119.84
4	J	1541	THR	CA-C-N	-41.61	67.83	119.84
4	J	1541	THR	C-N-CA	-41.61	67.83	119.84
4	D	1541	THR	CA-C-N	-41.60	67.84	119.84
4	D	1541	THR	C-N-CA	-41.60	67.84	119.84
4	V	1541	THR	CA-C-N	-41.59	67.85	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	1541	THR	C-N-CA	-41.59	67.85	119.84
1	X	454	TYR	CA-C-N	-38.12	53.36	121.97
1	X	454	TYR	C-N-CA	-38.12	53.36	121.97
1	F	454	TYR	CA-C-N	-38.12	53.36	121.97
1	F	454	TYR	C-N-CA	-38.12	53.36	121.97
1	R	454	TYR	CA-C-N	-38.08	53.42	121.97
1	R	454	TYR	C-N-CA	-38.08	53.42	121.97
1	L	454	TYR	CA-C-N	-38.06	53.46	121.97
1	L	454	TYR	C-N-CA	-38.06	53.46	121.97
2	G	340	ALA	CB-CA-C	34.94	157.19	111.42
2	S	340	ALA	CB-CA-C	34.92	157.17	111.42
2	Y	340	ALA	CB-CA-C	34.88	157.11	111.42
2	M	340	ALA	CB-CA-C	34.80	157.01	111.42
1	F	423	ALA	CA-C-N	-34.73	76.43	119.84
1	F	423	ALA	C-N-CA	-34.73	76.43	119.84
1	X	423	ALA	CA-C-N	-34.69	76.47	119.84
1	X	423	ALA	C-N-CA	-34.69	76.47	119.84
1	R	423	ALA	CA-C-N	-34.68	76.49	119.84
1	R	423	ALA	C-N-CA	-34.68	76.49	119.84
1	L	423	ALA	CA-C-N	-34.67	76.50	119.84
1	L	423	ALA	C-N-CA	-34.67	76.50	119.84
1	L	462	GLU	CA-C-N	-34.52	59.83	121.97
1	L	462	GLU	C-N-CA	-34.52	59.83	121.97
1	F	462	GLU	CA-C-N	-34.50	59.87	121.97
1	F	462	GLU	C-N-CA	-34.50	59.87	121.97
1	X	462	GLU	CA-C-N	-34.48	59.90	121.97
1	X	462	GLU	C-N-CA	-34.48	59.90	121.97
1	R	462	GLU	CA-C-N	-34.47	59.92	121.97
1	R	462	GLU	C-N-CA	-34.47	59.92	121.97
1	X	450	GLU	CA-C-O	33.05	167.77	120.51
1	R	450	GLU	CA-C-O	33.03	167.74	120.51
1	F	450	GLU	CA-C-O	33.02	167.73	120.51
1	L	450	GLU	CA-C-O	32.99	167.69	120.51
1	X	455	ILE	CA-C-N	-32.79	73.28	123.12
1	X	455	ILE	C-N-CA	-32.79	73.28	123.12
1	L	455	ILE	CA-C-N	-32.77	73.31	123.12
1	L	455	ILE	C-N-CA	-32.77	73.31	123.12
1	F	455	ILE	CA-C-N	-32.75	73.34	123.12
1	F	455	ILE	C-N-CA	-32.75	73.34	123.12
1	R	455	ILE	CA-C-N	-32.70	73.42	123.12
1	R	455	ILE	C-N-CA	-32.70	73.42	123.12
2	G	379	HIS	CA-C-N	31.56	162.79	120.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	379	HIS	C-N-CA	31.56	162.79	120.50
4	V	1491	ILE	N-CA-C	31.53	140.69	110.42
2	Y	338	GLU	CA-C-O	-31.51	68.98	120.65
2	G	338	GLU	CA-C-O	-31.48	69.02	120.65
2	S	338	GLU	CA-C-O	-31.46	69.06	120.65
4	J	1491	ILE	N-CA-C	31.44	140.60	110.42
4	P	1491	ILE	N-CA-C	31.42	140.59	110.42
2	M	338	GLU	CA-C-O	-31.39	69.16	120.65
4	D	1491	ILE	N-CA-C	31.34	140.50	110.42
2	Y	379	HIS	CA-C-N	30.14	162.81	120.91
2	Y	379	HIS	C-N-CA	30.14	162.81	120.91
2	S	379	HIS	CA-C-N	30.14	162.81	120.91
2	S	379	HIS	C-N-CA	30.14	162.81	120.91
2	M	379	HIS	CA-C-N	30.12	162.78	120.91
2	M	379	HIS	C-N-CA	30.12	162.78	120.91
4	V	1508	LYS	CA-C-N	-29.88	77.87	120.29
4	V	1508	LYS	C-N-CA	-29.88	77.87	120.29
4	J	1508	LYS	CA-C-N	-29.85	77.90	120.29
4	J	1508	LYS	C-N-CA	-29.85	77.90	120.29
4	D	1508	LYS	CA-C-N	-29.81	77.96	120.29
4	D	1508	LYS	C-N-CA	-29.81	77.96	120.29
4	P	1508	LYS	CA-C-N	-29.76	78.03	120.29
4	P	1508	LYS	C-N-CA	-29.76	78.03	120.29
1	F	453	TYR	O-C-N	-28.07	85.25	122.59
1	L	453	TYR	O-C-N	-28.02	85.32	122.59
1	R	453	TYR	O-C-N	-27.96	85.40	122.59
1	X	453	TYR	O-C-N	-27.93	85.44	122.59
2	S	341	ALA	CA-C-O	-27.72	82.18	120.16
2	Y	341	ALA	CA-C-O	-27.61	82.33	120.16
2	M	341	ALA	CA-C-O	-27.57	82.38	120.16
2	G	341	ALA	CA-C-O	-27.57	82.39	120.16
2	Y	343	ALA	CB-CA-C	-27.49	55.71	110.42
2	S	343	ALA	CB-CA-C	-27.48	55.72	110.42
2	G	343	ALA	CB-CA-C	-27.43	55.84	110.42
2	M	343	ALA	CB-CA-C	-27.42	55.85	110.42
4	V	1543	GLN	CA-C-N	-27.00	92.57	120.38
4	V	1543	GLN	C-N-CA	-27.00	92.57	120.38
4	J	1543	GLN	CA-C-N	-26.93	92.64	120.38
4	J	1543	GLN	C-N-CA	-26.93	92.64	120.38
4	D	1543	GLN	CA-C-N	-26.88	92.69	120.38
4	D	1543	GLN	C-N-CA	-26.88	92.69	120.38
4	P	1543	GLN	CA-C-N	-26.81	92.76	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	P	1543	GLN	C-N-CA	-26.81	92.76	120.38
2	S	326	LEU	CA-C-O	-26.21	83.02	120.51
2	Y	326	LEU	CA-C-O	-26.17	83.09	120.51
2	M	326	LEU	CA-C-O	-26.17	83.09	120.51
2	G	326	LEU	CA-C-O	-26.11	83.17	120.51
1	F	449	SER	O-C-N	26.09	157.29	122.59
1	L	449	SER	O-C-N	26.09	157.28	122.59
1	F	450	GLU	N-CA-CB	26.01	154.44	110.49
1	X	450	GLU	N-CA-CB	25.99	154.41	110.49
1	R	449	SER	O-C-N	25.97	157.13	122.59
1	L	450	GLU	N-CA-CB	25.97	154.37	110.49
1	X	449	SER	O-C-N	25.95	157.11	122.59
1	R	450	GLU	N-CA-CB	25.94	154.33	110.49
1	L	400	GLY	O-C-N	25.93	156.41	122.70
1	X	450	GLU	CA-C-N	-25.93	72.02	121.54
1	X	450	GLU	C-N-CA	-25.93	72.02	121.54
1	X	400	GLY	O-C-N	25.90	156.38	122.70
1	F	450	GLU	CA-C-N	-25.89	72.09	121.54
1	F	450	GLU	C-N-CA	-25.89	72.09	121.54
1	L	450	GLU	CA-C-N	-25.89	72.10	121.54
1	L	450	GLU	C-N-CA	-25.89	72.10	121.54
1	R	450	GLU	CA-C-N	-25.86	72.16	121.54
1	R	450	GLU	C-N-CA	-25.86	72.16	121.54
4	P	1544	PRO	N-CA-C	25.84	142.22	110.70
1	F	400	GLY	O-C-N	25.83	156.28	122.70
4	J	1544	PRO	N-CA-C	25.81	142.19	110.70
4	D	1544	PRO	N-CA-C	25.80	142.18	110.70
1	R	400	GLY	O-C-N	25.78	156.21	122.70
1	L	402	ALA	N-CA-C	-25.77	55.90	110.80
4	V	1544	PRO	N-CA-C	25.77	142.14	110.70
1	R	402	ALA	N-CA-C	-25.76	55.94	110.80
1	X	402	ALA	N-CA-C	-25.75	55.95	110.80
1	F	402	ALA	N-CA-C	-25.74	55.98	110.80
1	L	455	ILE	CA-C-O	25.60	152.78	120.78
1	R	455	ILE	CA-C-O	25.47	152.62	120.78
1	F	455	ILE	CA-C-O	25.46	152.60	120.78
1	X	455	ILE	CA-C-O	25.46	152.60	120.78
1	F	453	TYR	CA-C-O	24.87	156.08	120.51
1	X	453	TYR	CA-C-O	24.82	156.00	120.51
1	L	453	TYR	CA-C-O	24.81	155.99	120.51
1	R	453	TYR	CA-C-O	24.81	155.98	120.51
4	V	1506	VAL	CA-C-N	-24.21	82.45	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	1506	VAL	C-N-CA	-24.21	82.45	122.65
4	P	1506	VAL	CA-C-N	-24.18	82.51	122.65
4	P	1506	VAL	C-N-CA	-24.18	82.51	122.65
4	D	1506	VAL	CA-C-N	-24.15	82.56	122.65
4	D	1506	VAL	C-N-CA	-24.15	82.56	122.65
4	J	1506	VAL	CA-C-N	-24.13	82.59	122.65
4	J	1506	VAL	C-N-CA	-24.13	82.59	122.65
4	D	1541	THR	CA-C-O	24.02	141.64	118.34
4	V	1541	THR	CA-C-O	23.97	141.59	118.34
4	J	1541	THR	CA-C-O	23.94	141.56	118.34
4	P	1541	THR	CA-C-O	23.87	141.50	118.34
4	D	1539	LEU	CA-C-N	-23.65	86.70	120.29
4	D	1539	LEU	C-N-CA	-23.65	86.70	120.29
4	V	1539	LEU	CA-C-N	-23.65	86.71	120.29
4	V	1539	LEU	C-N-CA	-23.65	86.71	120.29
4	J	1539	LEU	CA-C-N	-23.54	86.87	120.29
4	J	1539	LEU	C-N-CA	-23.54	86.87	120.29
4	P	1539	LEU	CA-C-N	-23.53	86.88	120.29
4	P	1539	LEU	C-N-CA	-23.53	86.88	120.29
3	H	405	ASP	N-CA-C	-23.40	85.46	110.97
3	Z	405	ASP	N-CA-C	-23.32	85.55	110.97
3	T	405	ASP	N-CA-C	-23.32	85.55	110.97
3	N	405	ASP	N-CA-C	-23.28	85.59	110.97
4	P	1546	LEU	CA-C-N	-22.68	85.84	120.31
4	P	1546	LEU	C-N-CA	-22.68	85.84	120.31
4	D	1546	LEU	CA-C-N	-22.64	85.90	120.31
4	D	1546	LEU	C-N-CA	-22.64	85.90	120.31
4	J	1546	LEU	CA-C-N	-22.63	85.91	120.31
4	J	1546	LEU	C-N-CA	-22.63	85.91	120.31
4	V	1546	LEU	CA-C-N	-22.60	85.95	120.31
4	V	1546	LEU	C-N-CA	-22.60	85.95	120.31
1	L	487	ASP	N-CA-C	-22.40	85.05	112.38
1	R	399	SER	CA-C-N	-22.38	77.55	121.41
1	R	399	SER	C-N-CA	-22.38	77.55	121.41
1	F	399	SER	CA-C-N	-22.37	77.56	121.41
1	F	399	SER	C-N-CA	-22.37	77.56	121.41
1	X	399	SER	CA-C-N	-22.37	77.56	121.41
1	X	399	SER	C-N-CA	-22.37	77.56	121.41
1	F	487	ASP	N-CA-C	-22.35	85.12	112.38
1	L	399	SER	CA-C-N	-22.33	77.64	121.41
1	L	399	SER	C-N-CA	-22.33	77.64	121.41
1	X	487	ASP	N-CA-C	-22.33	85.14	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	487	ASP	N-CA-C	-22.33	85.14	112.38
2	M	340	ALA	O-C-N	-22.20	98.31	123.40
2	Y	340	ALA	O-C-N	-22.16	98.36	123.40
2	G	340	ALA	O-C-N	-22.14	98.38	123.40
2	S	340	ALA	O-C-N	-22.00	98.53	123.40
2	S	338	GLU	O-C-N	21.67	154.56	121.63
2	G	338	GLU	O-C-N	21.64	154.53	121.63
2	Y	338	GLU	O-C-N	21.63	154.50	121.63
3	H	412	GLU	O-C-N	21.60	147.16	122.32
3	Z	412	GLU	O-C-N	21.57	147.12	122.32
2	M	338	GLU	O-C-N	21.57	154.41	121.63
3	N	412	GLU	O-C-N	21.54	147.09	122.32
5	W	276	ASP	O-C-N	21.53	157.44	123.00
5	Q	276	ASP	O-C-N	21.53	157.44	123.00
3	T	412	GLU	O-C-N	21.50	147.04	122.32
5	K	276	ASP	O-C-N	21.49	157.39	123.00
5	E	276	ASP	O-C-N	21.45	157.32	123.00
3	T	487	TRP	N-CA-C	21.41	134.61	111.28
3	H	487	TRP	N-CA-C	21.38	134.59	111.28
3	N	487	TRP	N-CA-C	21.27	134.47	111.28
3	Z	487	TRP	N-CA-C	21.23	134.42	111.28
1	F	422	ASN	CA-C-N	-21.03	70.49	121.80
1	F	422	ASN	C-N-CA	-21.03	70.49	121.80
1	X	422	ASN	CA-C-N	-20.98	70.60	121.80
1	X	422	ASN	C-N-CA	-20.98	70.60	121.80
1	R	422	ASN	CA-C-N	-20.96	70.65	121.80
1	R	422	ASN	C-N-CA	-20.96	70.65	121.80
1	L	422	ASN	CA-C-N	-20.92	70.77	121.80
1	L	422	ASN	C-N-CA	-20.92	70.77	121.80
1	R	460	LEU	CA-C-O	-20.88	96.81	120.20
2	M	328	THR	N-CA-CB	20.86	138.65	110.90
1	F	460	LEU	CA-C-O	-20.83	96.87	120.20
2	Y	328	THR	N-CA-CB	20.83	138.60	110.90
1	R	454	TYR	N-CA-C	20.83	155.16	110.80
1	X	460	LEU	CA-C-O	-20.82	96.88	120.20
1	L	460	LEU	CA-C-O	-20.81	96.90	120.20
1	F	454	TYR	N-CA-C	20.77	155.05	110.80
1	L	454	TYR	N-CA-C	20.77	155.03	110.80
1	X	454	TYR	N-CA-C	20.73	154.96	110.80
2	G	328	THR	N-CA-CB	20.73	138.47	110.90
2	S	328	THR	N-CA-CB	20.64	138.35	110.90
4	V	1504	VAL	CA-C-N	-20.61	91.03	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	1504	VAL	C-N-CA	-20.61	91.03	120.29
4	P	1504	VAL	CA-C-N	-20.59	91.05	120.29
4	P	1504	VAL	C-N-CA	-20.59	91.05	120.29
4	J	1504	VAL	CA-C-N	-20.51	91.17	120.29
4	J	1504	VAL	C-N-CA	-20.51	91.17	120.29
4	D	1504	VAL	CA-C-N	-20.47	91.23	120.29
4	D	1504	VAL	C-N-CA	-20.47	91.23	120.29
2	S	331	THR	CA-C-O	20.22	137.95	118.34
1	F	398	LYS	O-C-N	-20.04	92.74	122.39
2	M	331	THR	CA-C-O	20.03	137.77	118.34
2	Y	331	THR	CA-C-O	20.02	137.76	118.34
1	X	398	LYS	O-C-N	-20.02	92.77	122.39
1	R	398	LYS	O-C-N	-20.00	92.78	122.39
1	L	398	LYS	O-C-N	-20.00	92.79	122.39
2	G	331	THR	CA-C-O	19.99	137.73	118.34
4	V	1493	ARG	CA-C-N	-19.98	91.91	120.29
4	V	1493	ARG	C-N-CA	-19.98	91.91	120.29
4	D	1493	ARG	CA-C-N	-19.97	91.93	120.29
4	D	1493	ARG	C-N-CA	-19.97	91.93	120.29
4	P	1493	ARG	CA-C-N	-19.97	91.94	120.29
4	P	1493	ARG	C-N-CA	-19.97	91.94	120.29
4	J	1493	ARG	CA-C-N	-19.97	91.94	120.29
4	J	1493	ARG	C-N-CA	-19.97	91.94	120.29
1	L	448	ARG	O-C-N	-19.48	96.53	122.43
1	X	456	ASP	CB-CA-C	-19.47	81.55	111.73
1	R	448	ARG	O-C-N	-19.45	96.73	122.59
1	R	456	ASP	CB-CA-C	-19.44	81.59	111.73
1	L	456	ASP	CB-CA-C	-19.44	81.61	111.73
1	L	456	ASP	CA-C-O	19.43	145.67	121.58
1	F	456	ASP	CB-CA-C	-19.41	81.64	111.73
1	X	456	ASP	CA-C-O	19.41	145.65	121.58
1	F	448	ARG	O-C-N	-19.39	96.64	122.43
1	F	456	ASP	CA-C-O	19.36	145.59	121.58
2	G	320	LYS	N-CA-C	19.35	137.01	113.41
1	R	456	ASP	CA-C-O	19.35	145.57	121.58
1	X	448	ARG	O-C-N	-19.32	96.73	122.43
1	X	424	PRO	CA-C-N	-19.31	85.98	121.52
1	X	424	PRO	C-N-CA	-19.31	85.98	121.52
1	F	424	PRO	CA-C-N	-19.26	86.08	121.52
1	F	424	PRO	C-N-CA	-19.26	86.08	121.52
1	L	424	PRO	CA-C-N	-19.26	86.09	121.52
1	L	424	PRO	C-N-CA	-19.26	86.09	121.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	424	PRO	CA-C-N	-19.25	86.09	121.52
1	R	424	PRO	C-N-CA	-19.25	86.09	121.52
2	Y	342	PRO	O-C-N	19.10	148.06	122.27
2	G	342	PRO	O-C-N	19.10	148.06	122.27
2	M	342	PRO	O-C-N	19.10	148.05	122.27
1	F	452	ARG	CA-C-O	19.09	147.81	120.51
1	X	452	ARG	CA-C-O	19.02	147.72	120.51
2	S	342	PRO	O-C-N	19.02	147.95	122.27
1	L	452	ARG	CA-C-O	19.02	147.70	120.51
1	F	463	ILE	N-CA-CB	-18.99	79.90	111.23
1	R	452	ARG	CA-C-O	18.96	147.62	120.51
1	X	463	ILE	N-CA-CB	-18.96	79.95	111.23
4	V	1519	SER	CA-C-N	-18.93	84.31	121.41
4	V	1519	SER	C-N-CA	-18.93	84.31	121.41
1	L	463	ILE	N-CA-CB	-18.93	80.00	111.23
3	Z	384	LEU	N-CA-C	-18.92	90.66	111.28
4	P	1519	SER	CA-C-N	-18.91	84.35	121.41
4	P	1519	SER	C-N-CA	-18.91	84.35	121.41
4	J	1519	SER	CA-C-N	-18.90	84.36	121.41
4	J	1519	SER	C-N-CA	-18.90	84.36	121.41
3	T	384	LEU	N-CA-C	-18.89	90.70	111.28
4	D	1519	SER	CA-C-N	-18.88	84.40	121.41
4	D	1519	SER	C-N-CA	-18.88	84.40	121.41
1	R	463	ILE	N-CA-CB	-18.87	80.10	111.23
3	H	384	LEU	N-CA-C	-18.85	90.73	111.28
2	G	340	ALA	N-CA-CB	18.85	141.51	110.79
3	N	384	LEU	N-CA-C	-18.83	90.76	111.28
2	M	340	ALA	N-CA-CB	18.82	141.47	110.79
2	Y	340	ALA	N-CA-CB	18.82	141.47	110.79
2	S	340	ALA	N-CA-CB	18.81	141.45	110.79
1	L	293	ILE	CB-CA-C	-18.65	88.10	111.97
1	X	293	ILE	CB-CA-C	-18.58	88.19	111.97
2	M	339	TYR	CA-C-N	-18.56	93.13	121.72
2	M	339	TYR	C-N-CA	-18.56	93.13	121.72
1	R	293	ILE	CB-CA-C	-18.55	88.23	111.97
2	G	339	TYR	CA-C-N	-18.54	93.16	121.72
2	G	339	TYR	C-N-CA	-18.54	93.16	121.72
1	F	293	ILE	CB-CA-C	-18.50	88.28	111.97
2	S	339	TYR	CA-C-N	-18.50	93.24	121.72
2	S	339	TYR	C-N-CA	-18.50	93.24	121.72
2	M	320	LYS	N-CA-C	18.49	137.13	112.90
2	Y	339	TYR	CA-C-N	-18.48	93.26	121.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Y	339	TYR	C-N-CA	-18.48	93.26	121.72
2	S	320	LYS	N-CA-C	18.48	137.11	112.90
2	Y	320	LYS	N-CA-C	18.46	137.08	112.90
4	J	1509	GLN	CA-C-N	-18.42	82.41	121.64
4	J	1509	GLN	C-N-CA	-18.42	82.41	121.64
4	P	1509	GLN	CA-C-N	-18.39	82.46	121.64
4	P	1509	GLN	C-N-CA	-18.39	82.46	121.64
4	V	1509	GLN	CA-C-N	-18.36	82.54	121.64
4	V	1509	GLN	C-N-CA	-18.36	82.54	121.64
3	H	411	GLU	O-C-N	-18.34	98.20	122.59
3	N	411	GLU	O-C-N	-18.25	98.31	122.59
3	T	411	GLU	O-C-N	-18.25	98.32	122.59
1	L	448	ARG	CA-C-O	18.23	142.07	119.10
1	F	448	ARG	CA-C-O	18.18	142.01	119.10
1	X	448	ARG	CA-C-O	18.18	142.00	119.10
4	D	1509	GLN	CA-C-N	-18.17	82.56	121.80
4	D	1509	GLN	C-N-CA	-18.17	82.56	121.80
3	Z	411	GLU	O-C-N	-18.16	98.43	122.59
3	H	366	ILE	N-CA-CB	18.16	131.79	110.55
3	N	366	ILE	N-CA-CB	18.13	131.76	110.55
3	Z	366	ILE	N-CA-CB	18.09	131.71	110.55
3	T	366	ILE	N-CA-CB	18.08	131.71	110.55
1	L	456	ASP	O-C-N	-17.93	103.63	122.64
2	G	343	ALA	O-C-N	-17.91	98.77	122.59
1	X	456	ASP	O-C-N	-17.86	103.71	122.64
2	S	343	ALA	O-C-N	-17.84	98.86	122.59
1	R	456	ASP	O-C-N	-17.82	103.75	122.64
2	M	343	ALA	O-C-N	-17.82	98.89	122.59
2	Y	343	ALA	O-C-N	-17.81	98.90	122.59
1	F	456	ASP	O-C-N	-17.75	103.83	122.64
2	Y	326	LEU	O-C-N	17.70	146.13	122.59
2	G	326	LEU	O-C-N	17.61	146.01	122.59
2	S	326	LEU	O-C-N	17.58	145.98	122.59
2	M	326	LEU	O-C-N	17.57	145.96	122.59
1	F	420	GLU	O-C-N	17.56	140.87	122.08
3	N	490	GLN	CB-CA-C	-17.56	79.44	109.99
2	G	343	ALA	CA-C-O	17.55	145.61	120.51
3	H	490	GLN	CB-CA-C	-17.51	79.52	109.99
3	T	490	GLN	CB-CA-C	-17.51	79.52	109.99
2	M	343	ALA	CA-C-O	17.51	145.54	120.51
2	Y	343	ALA	CA-C-O	17.49	145.53	120.51
3	Z	490	GLN	CB-CA-C	-17.49	79.56	109.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	462	GLY	N-CA-C	17.48	132.78	112.50
3	Z	462	GLY	N-CA-C	17.48	132.77	112.50
3	H	462	GLY	N-CA-C	17.46	132.76	112.50
2	S	343	ALA	CA-C-O	17.45	145.47	120.51
2	G	329	GLN	CA-C-O	-17.45	101.36	119.51
2	S	313	ILE	N-CA-C	-17.44	93.67	110.42
2	G	313	ILE	N-CA-C	-17.43	93.68	110.42
2	M	329	GLN	CA-C-O	-17.43	101.38	119.51
1	X	420	GLU	O-C-N	17.43	140.73	122.08
2	Y	313	ILE	N-CA-C	-17.41	93.70	110.42
3	N	494	LEU	CA-C-O	17.40	145.39	120.51
2	Y	329	GLN	CA-C-O	-17.39	101.42	119.51
1	L	420	GLU	O-C-N	17.39	140.68	122.08
2	M	313	ILE	N-CA-C	-17.36	93.76	110.42
3	T	462	GLY	N-CA-C	17.36	132.63	112.50
1	R	420	GLU	O-C-N	17.35	140.64	122.08
2	S	329	GLN	CA-C-O	-17.34	101.47	119.51
3	T	494	LEU	CA-C-O	17.30	145.25	120.51
3	H	494	LEU	CA-C-O	17.29	145.23	120.51
3	Z	494	LEU	CA-C-O	17.26	145.19	120.51
1	X	461	ARG	CB-CA-C	-17.20	76.20	110.42
1	R	461	ARG	CB-CA-C	-17.19	76.22	110.42
1	F	461	ARG	CB-CA-C	-17.17	76.25	110.42
2	G	341	ALA	O-C-N	17.16	141.06	121.32
1	L	461	ARG	CB-CA-C	-17.16	76.27	110.42
2	M	339	TYR	O-C-N	17.16	142.79	123.40
2	S	339	TYR	O-C-N	17.15	142.78	123.40
2	G	339	TYR	O-C-N	17.12	142.75	123.40
2	Y	341	ALA	O-C-N	17.11	140.99	121.32
1	L	488	ILE	N-CA-C	17.04	126.78	110.42
2	Y	339	TYR	O-C-N	17.04	142.65	123.40
2	S	333	PRO	N-CA-CB	17.04	121.14	103.25
1	X	488	ILE	N-CA-C	17.01	126.75	110.42
3	H	467	THR	CA-C-N	17.00	150.89	121.14
3	H	467	THR	C-N-CA	17.00	150.89	121.14
2	M	341	ALA	O-C-N	16.99	140.86	121.32
2	M	333	PRO	N-CA-CB	16.94	121.04	103.25
1	F	454	TYR	N-CA-CB	-16.94	81.86	110.49
3	T	467	THR	CA-C-N	16.94	150.78	121.14
3	T	467	THR	C-N-CA	16.94	150.78	121.14
1	R	454	TYR	N-CA-CB	-16.93	81.88	110.49
2	S	341	ALA	O-C-N	16.93	140.79	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	488	ILE	N-CA-C	16.92	126.66	110.42
3	N	467	THR	CA-C-N	16.92	150.75	121.14
3	N	467	THR	C-N-CA	16.92	150.75	121.14
1	X	433	GLU	N-CA-C	-16.91	92.20	111.82
2	G	333	PRO	N-CA-CB	16.90	121.00	103.25
3	Z	467	THR	CA-C-N	16.90	150.72	121.14
3	Z	467	THR	C-N-CA	16.90	150.72	121.14
1	R	433	GLU	N-CA-C	-16.89	92.22	111.82
1	L	433	GLU	N-CA-C	-16.89	92.23	111.82
4	J	1449	TRP	CA-C-O	16.88	144.65	120.51
1	X	454	TYR	N-CA-CB	-16.88	81.96	110.49
1	L	454	TYR	N-CA-CB	-16.88	81.97	110.49
4	P	1449	TRP	CA-C-O	16.84	144.59	120.51
1	F	433	GLU	N-CA-C	-16.84	92.29	111.82
2	Y	333	PRO	N-CA-CB	16.83	120.92	103.25
3	T	446	ARG	CB-CA-C	16.83	137.67	110.92
3	N	446	ARG	CB-CA-C	16.79	137.61	110.92
1	R	488	ILE	N-CA-C	16.78	126.53	110.42
4	V	1449	TRP	CA-C-O	16.78	144.51	120.51
4	D	1449	TRP	CA-C-O	16.75	144.47	120.51
3	H	446	ARG	CB-CA-C	16.74	137.54	110.92
3	Z	446	ARG	CB-CA-C	16.74	137.54	110.92
4	P	1485	ALA	CA-C-N	-16.72	97.88	120.28
4	P	1485	ALA	C-N-CA	-16.72	97.88	120.28
4	D	1485	ALA	CA-C-N	-16.71	97.89	120.28
4	D	1485	ALA	C-N-CA	-16.71	97.89	120.28
4	J	1485	ALA	CA-C-N	-16.69	97.92	120.28
4	J	1485	ALA	C-N-CA	-16.69	97.92	120.28
4	V	1485	ALA	CA-C-N	-16.65	97.97	120.28
4	V	1485	ALA	C-N-CA	-16.65	97.97	120.28
4	J	1513	LEU	CA-C-N	-16.61	96.70	120.29
4	J	1513	LEU	C-N-CA	-16.61	96.70	120.29
4	P	1513	LEU	CA-C-N	-16.61	96.71	120.29
4	P	1513	LEU	C-N-CA	-16.61	96.71	120.29
4	V	1513	LEU	CA-C-N	-16.59	96.74	120.29
4	V	1513	LEU	C-N-CA	-16.59	96.74	120.29
4	D	1513	LEU	CA-C-N	-16.51	96.85	120.29
4	D	1513	LEU	C-N-CA	-16.51	96.85	120.29
3	T	490	GLN	CA-C-N	-16.46	96.92	120.29
3	T	490	GLN	C-N-CA	-16.46	96.92	120.29
3	N	490	GLN	CA-C-N	-16.45	96.94	120.29
3	N	490	GLN	C-N-CA	-16.45	96.94	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	490	GLN	CA-C-N	-16.39	97.01	120.29
3	H	490	GLN	C-N-CA	-16.39	97.01	120.29
3	Z	490	GLN	CA-C-N	-16.35	97.08	120.29
3	Z	490	GLN	C-N-CA	-16.35	97.08	120.29
1	R	400	GLY	CA-C-N	-16.30	90.40	121.54
1	R	400	GLY	C-N-CA	-16.30	90.40	121.54
1	F	400	GLY	CA-C-N	-16.27	90.46	121.54
1	F	400	GLY	C-N-CA	-16.27	90.46	121.54
2	G	339	TYR	CA-C-O	-16.27	100.10	120.27
1	X	400	GLY	CA-C-N	-16.26	90.49	121.54
1	X	400	GLY	C-N-CA	-16.26	90.49	121.54
2	M	339	TYR	CA-C-O	-16.25	100.12	120.27
2	S	339	TYR	CA-C-O	-16.25	100.12	120.27
1	L	400	GLY	CA-C-N	-16.24	90.52	121.54
1	L	400	GLY	C-N-CA	-16.24	90.52	121.54
4	J	1492	GLY	CA-C-N	16.22	142.60	120.38
4	J	1492	GLY	C-N-CA	16.22	142.60	120.38
4	P	1492	GLY	CA-C-N	16.19	142.57	120.38
4	P	1492	GLY	C-N-CA	16.19	142.57	120.38
2	Y	339	TYR	CA-C-O	-16.19	100.19	120.27
4	V	1492	GLY	CA-C-N	16.18	142.55	120.38
4	V	1492	GLY	C-N-CA	16.18	142.55	120.38
4	D	1492	GLY	CA-C-N	16.13	142.47	120.38
4	D	1492	GLY	C-N-CA	16.13	142.47	120.38
1	X	459	LEU	N-CA-CB	16.10	137.69	110.49
4	P	1490	GLU	CA-C-N	-16.08	100.30	120.56
4	P	1490	GLU	C-N-CA	-16.08	100.30	120.56
4	V	1490	GLU	CA-C-N	-16.08	100.30	120.56
4	V	1490	GLU	C-N-CA	-16.08	100.30	120.56
1	F	459	LEU	N-CA-CB	16.07	137.65	110.49
1	R	487	ASP	O-C-N	-16.07	101.50	122.39
1	L	487	ASP	O-C-N	-16.06	101.52	122.39
4	J	1490	GLU	CA-C-N	-16.06	100.33	120.56
4	J	1490	GLU	C-N-CA	-16.06	100.33	120.56
1	X	487	ASP	O-C-N	-16.03	101.55	122.39
1	R	459	LEU	N-CA-CB	16.02	137.56	110.49
4	D	1449	TRP	O-C-N	-16.02	101.28	122.59
1	L	459	LEU	N-CA-CB	16.00	137.54	110.49
4	D	1490	GLU	CA-C-N	-16.00	100.39	120.56
4	D	1490	GLU	C-N-CA	-16.00	100.39	120.56
4	D	1506	VAL	CA-C-O	15.99	137.81	120.85
2	S	393	TYR	N-CA-C	-15.99	93.06	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	487	ASP	O-C-N	-15.99	101.61	122.39
4	V	1449	TRP	O-C-N	-15.95	101.37	122.59
4	P	1449	TRP	O-C-N	-15.95	101.38	122.59
2	G	393	TYR	N-CA-C	-15.94	93.12	112.89
1	R	450	GLU	N-CA-C	-15.94	76.84	110.80
4	V	1506	VAL	CA-C-O	15.94	137.74	120.85
1	L	451	GLU	CA-C-O	15.93	143.29	120.51
2	Y	393	TYR	N-CA-C	-15.93	93.14	112.89
4	P	1506	VAL	CA-C-O	15.92	137.73	120.85
1	F	451	GLU	CA-C-O	15.91	143.27	120.51
1	L	450	GLU	N-CA-C	-15.91	76.91	110.80
2	M	393	TYR	N-CA-C	-15.91	93.16	112.89
1	X	450	GLU	N-CA-C	-15.89	76.96	110.80
4	J	1449	TRP	O-C-N	-15.89	101.46	122.59
1	F	450	GLU	N-CA-C	-15.88	76.98	110.80
1	X	451	GLU	CA-C-O	15.87	143.21	120.51
1	R	451	GLU	CA-C-O	15.85	143.18	120.51
4	J	1506	VAL	CA-C-O	15.85	137.65	120.85
1	R	455	ILE	N-CA-C	15.84	142.29	109.34
1	X	455	ILE	N-CA-C	15.84	142.28	109.34
2	S	326	LEU	CB-CA-C	-15.83	78.91	110.42
3	T	494	LEU	CA-C-N	-15.82	94.30	120.71
3	T	494	LEU	C-N-CA	-15.82	94.30	120.71
2	Y	326	LEU	CB-CA-C	-15.79	78.99	110.42
3	N	494	LEU	CA-C-N	-15.79	94.33	120.71
3	N	494	LEU	C-N-CA	-15.79	94.33	120.71
1	F	455	ILE	N-CA-C	15.79	142.19	109.34
3	Z	494	LEU	CA-C-N	-15.79	94.34	120.71
3	Z	494	LEU	C-N-CA	-15.79	94.34	120.71
1	L	455	ILE	N-CA-C	15.79	142.17	109.34
2	M	326	LEU	CB-CA-C	-15.78	79.01	110.42
3	H	494	LEU	CA-C-N	-15.77	94.38	120.71
3	H	494	LEU	C-N-CA	-15.77	94.38	120.71
2	G	326	LEU	CB-CA-C	-15.76	79.05	110.42
1	R	464	LYS	CB-CA-C	-15.75	79.07	110.42
1	L	464	LYS	CB-CA-C	-15.75	79.08	110.42
1	X	464	LYS	CB-CA-C	-15.72	79.13	110.42
1	F	464	LYS	CB-CA-C	-15.71	79.15	110.42
4	D	1538	SER	CA-C-N	15.69	142.88	120.28
4	D	1538	SER	C-N-CA	15.69	142.88	120.28
1	F	466	HIS	CA-C-N	-15.67	95.52	120.60
1	F	466	HIS	C-N-CA	-15.67	95.52	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	466	HIS	CA-C-N	-15.67	95.52	120.60
1	L	466	HIS	C-N-CA	-15.67	95.52	120.60
4	V	1474	GLY	CA-C-N	-15.66	98.06	120.29
4	V	1474	GLY	C-N-CA	-15.66	98.06	120.29
4	J	1473	TYR	CA-C-N	15.65	137.68	119.99
4	J	1473	TYR	C-N-CA	15.65	137.68	119.99
1	R	466	HIS	CA-C-N	-15.64	95.57	120.60
1	R	466	HIS	C-N-CA	-15.64	95.57	120.60
1	F	453	TYR	N-CA-C	-15.62	77.53	110.80
1	X	466	HIS	CA-C-N	-15.61	95.62	120.60
1	X	466	HIS	C-N-CA	-15.61	95.62	120.60
4	P	1473	TYR	CA-C-N	15.61	137.63	119.99
4	P	1473	TYR	C-N-CA	15.61	137.63	119.99
4	J	1538	SER	CA-C-N	15.61	142.76	120.28
4	J	1538	SER	C-N-CA	15.61	142.76	120.28
4	P	1538	SER	CA-C-N	15.61	142.75	120.28
4	P	1538	SER	C-N-CA	15.61	142.75	120.28
4	V	1538	SER	CA-C-N	15.60	142.75	120.28
4	V	1538	SER	C-N-CA	15.60	142.75	120.28
1	X	453	TYR	N-CA-C	-15.60	77.58	110.80
1	R	453	TYR	N-CA-C	-15.60	77.58	110.80
1	L	453	TYR	N-CA-C	-15.57	77.62	110.80
4	V	1473	TYR	CA-C-N	15.57	137.58	119.99
4	V	1473	TYR	C-N-CA	15.57	137.58	119.99
4	D	1474	GLY	CA-C-N	-15.54	98.22	120.29
4	D	1474	GLY	C-N-CA	-15.54	98.22	120.29
4	J	1474	GLY	CA-C-N	-15.54	98.22	120.29
4	J	1474	GLY	C-N-CA	-15.54	98.22	120.29
1	X	448	ARG	N-CA-C	15.52	131.49	112.87
1	L	448	ARG	N-CA-C	15.47	131.44	112.87
4	P	1474	GLY	CA-C-N	-15.47	98.32	120.29
4	P	1474	GLY	C-N-CA	-15.47	98.32	120.29
4	D	1473	TYR	CA-C-N	15.46	137.47	119.99
4	D	1473	TYR	C-N-CA	15.46	137.47	119.99
1	F	448	ARG	N-CA-C	15.46	131.43	112.87
1	R	487	ASP	CA-C-N	15.37	139.93	120.56
1	R	487	ASP	C-N-CA	15.37	139.93	120.56
1	L	487	ASP	CA-C-N	15.34	139.88	120.56
1	L	487	ASP	C-N-CA	15.34	139.88	120.56
1	X	487	ASP	CA-C-N	15.32	139.87	120.56
1	X	487	ASP	C-N-CA	15.32	139.87	120.56
1	F	487	ASP	CA-C-N	15.29	139.82	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	487	ASP	C-N-CA	15.29	139.82	120.56
1	R	311	GLN	N-CA-C	-15.23	92.95	111.69
2	S	253	GLN	N-CA-C	-15.22	92.97	111.69
2	Y	253	GLN	N-CA-C	-15.19	93.01	111.69
3	N	407	LEU	N-CA-C	-15.18	94.02	112.54
2	G	253	GLN	N-CA-C	-15.16	93.04	111.69
2	M	253	GLN	N-CA-C	-15.16	93.04	111.69
3	H	407	LEU	N-CA-C	-15.15	94.06	112.54
1	L	311	GLN	N-CA-C	-15.14	93.06	111.69
1	X	311	GLN	N-CA-C	-15.14	93.07	111.69
3	Z	407	LEU	N-CA-C	-15.13	94.08	112.54
3	N	388	ARG	N-CA-C	15.12	127.47	111.14
3	T	388	ARG	N-CA-C	15.11	127.46	111.14
1	F	311	GLN	N-CA-C	-15.06	93.17	111.69
3	T	407	LEU	N-CA-C	-15.05	94.17	112.54
1	R	448	ARG	CA-C-O	15.04	142.01	120.51
4	P	1545	PRO	CA-C-N	15.01	141.89	120.28
4	P	1545	PRO	C-N-CA	15.01	141.89	120.28
2	Y	334	GLY	CA-C-N	15.00	150.19	121.54
2	Y	334	GLY	C-N-CA	15.00	150.19	121.54
4	D	1545	PRO	CA-C-N	14.98	141.85	120.28
4	D	1545	PRO	C-N-CA	14.98	141.85	120.28
1	F	458	ASP	CA-C-N	-14.96	92.97	121.54
1	F	458	ASP	C-N-CA	-14.96	92.97	121.54
3	Z	388	ARG	N-CA-C	14.96	127.29	111.14
1	R	458	ASP	CA-C-N	-14.95	92.98	121.54
1	R	458	ASP	C-N-CA	-14.95	92.98	121.54
2	S	334	GLY	CA-C-N	14.94	150.07	121.54
2	S	334	GLY	C-N-CA	14.94	150.07	121.54
2	M	334	GLY	CA-C-N	14.94	150.07	121.54
2	M	334	GLY	C-N-CA	14.94	150.07	121.54
2	G	334	GLY	CA-C-N	14.93	150.06	121.54
2	G	334	GLY	C-N-CA	14.93	150.06	121.54
2	Y	361	ARG	N-CA-C	-14.92	95.09	111.36
2	M	361	ARG	N-CA-C	-14.91	95.10	111.36
1	L	458	ASP	CA-C-N	-14.91	93.06	121.54
1	L	458	ASP	C-N-CA	-14.91	93.06	121.54
3	H	388	ARG	N-CA-C	14.90	127.23	111.14
4	V	1545	PRO	CA-C-N	14.89	141.73	120.28
4	V	1545	PRO	C-N-CA	14.89	141.73	120.28
4	P	1484	ASP	O-C-N	14.89	137.90	122.12
1	X	458	ASP	CA-C-N	-14.88	93.12	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	458	ASP	C-N-CA	-14.88	93.12	121.54
1	L	401	TYR	O-C-N	-14.86	102.82	122.59
3	H	373	THR	N-CA-CB	14.86	131.53	109.98
1	L	457	ALA	N-CA-CB	-14.86	85.38	110.49
2	S	361	ARG	N-CA-C	-14.86	95.17	111.36
3	T	373	THR	N-CA-CB	14.85	131.51	109.98
2	M	347	ARG	CA-C-N	-14.84	99.35	120.42
2	M	347	ARG	C-N-CA	-14.84	99.35	120.42
2	G	347	ARG	CA-C-N	-14.84	99.35	120.42
2	G	347	ARG	C-N-CA	-14.84	99.35	120.42
2	G	361	ARG	N-CA-C	-14.84	95.19	111.36
4	J	1545	PRO	CA-C-N	14.83	141.64	120.28
4	J	1545	PRO	C-N-CA	14.83	141.64	120.28
2	S	347	ARG	CA-C-N	-14.82	99.37	120.42
2	S	347	ARG	C-N-CA	-14.82	99.37	120.42
1	X	457	ALA	N-CA-CB	-14.82	85.45	110.49
3	N	373	THR	N-CA-CB	14.82	131.46	109.98
1	R	457	ALA	N-CA-CB	-14.81	85.47	110.49
1	F	457	ALA	N-CA-CB	-14.80	85.47	110.49
1	R	402	ALA	CA-C-O	14.81	141.68	120.51
2	Y	347	ARG	CA-C-N	-14.80	99.40	120.42
2	Y	347	ARG	C-N-CA	-14.80	99.40	120.42
1	F	401	TYR	O-C-N	-14.79	102.91	122.59
3	Z	373	THR	N-CA-CB	14.79	131.42	109.98
1	F	402	ALA	CA-C-O	14.78	141.64	120.51
1	X	401	TYR	O-C-N	-14.76	102.96	122.59
4	J	1512	TRP	CA-C-O	-14.76	104.77	120.42
1	L	402	ALA	CA-C-O	14.76	141.61	120.51
4	V	1484	ASP	O-C-N	14.75	137.75	122.12
4	D	1484	ASP	O-C-N	14.74	137.74	122.12
1	R	401	TYR	O-C-N	-14.73	103.00	122.59
4	J	1484	ASP	O-C-N	14.72	137.72	122.12
1	X	402	ALA	CA-C-O	14.71	141.55	120.51
1	L	460	LEU	N-CA-CB	14.69	133.34	110.14
1	F	423	ALA	O-C-N	14.68	138.20	121.32
1	X	423	ALA	O-C-N	14.68	138.20	121.32
1	R	460	LEU	N-CA-CB	14.68	133.33	110.14
4	V	1512	TRP	CA-C-O	-14.67	104.87	120.42
3	T	341	SER	N-CA-CB	14.67	131.80	109.94
4	P	1512	TRP	CA-C-O	-14.66	104.88	120.42
2	Y	327	ARG	N-CA-CB	14.65	135.25	110.49
1	F	460	LEU	N-CA-CB	14.64	133.28	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	S	327	ARG	N-CA-CB	14.64	135.24	110.49
1	X	460	LEU	N-CA-CB	14.63	133.26	110.14
2	G	327	ARG	N-CA-CB	14.61	135.18	110.49
4	P	1511	GLN	CA-C-N	-14.61	99.55	120.29
4	P	1511	GLN	C-N-CA	-14.61	99.55	120.29
4	V	1510	GLN	N-CA-C	14.60	132.75	112.45
4	J	1510	GLN	N-CA-C	14.60	132.75	112.45
1	R	423	ALA	O-C-N	14.59	138.10	121.32
2	M	327	ARG	N-CA-CB	14.59	135.14	110.49
4	V	1511	GLN	CA-C-N	-14.58	99.58	120.29
4	V	1511	GLN	C-N-CA	-14.58	99.58	120.29
3	Z	341	SER	N-CA-CB	14.58	131.67	109.94
4	D	1511	GLN	CA-C-N	-14.58	99.59	120.29
4	D	1511	GLN	C-N-CA	-14.58	99.59	120.29
3	H	341	SER	N-CA-CB	14.58	131.66	109.94
3	N	341	SER	N-CA-CB	14.57	131.65	109.94
3	Z	387	LYS	CA-C-N	-14.56	100.64	120.44
3	Z	387	LYS	C-N-CA	-14.56	100.64	120.44
3	T	387	LYS	CA-C-N	-14.56	100.64	120.44
3	T	387	LYS	C-N-CA	-14.56	100.64	120.44
3	H	387	LYS	CA-C-N	-14.54	100.67	120.44
3	H	387	LYS	C-N-CA	-14.54	100.67	120.44
4	D	1512	TRP	CA-C-O	-14.54	105.01	120.42
4	J	1511	GLN	CA-C-N	-14.51	99.68	120.29
4	J	1511	GLN	C-N-CA	-14.51	99.68	120.29
2	S	330	LYS	N-CA-CB	14.51	135.69	110.44
2	Y	330	LYS	N-CA-CB	14.49	135.66	110.44
1	L	423	ALA	O-C-N	14.49	137.98	121.32
2	G	330	LYS	N-CA-CB	14.49	135.65	110.44
3	N	387	LYS	CA-C-N	-14.49	100.74	120.44
3	N	387	LYS	C-N-CA	-14.49	100.74	120.44
1	L	419	GLY	N-CA-C	-14.48	97.36	115.31
2	M	330	LYS	N-CA-CB	14.48	135.64	110.44
4	P	1510	GLN	N-CA-C	14.47	132.56	112.45
1	R	419	GLY	N-CA-C	-14.46	97.38	115.31
1	F	443	HIS	CA-C-O	14.45	141.17	120.51
1	L	431	LEU	CA-C-N	-14.45	99.53	122.65
1	L	431	LEU	C-N-CA	-14.45	99.53	122.65
1	X	431	LEU	CA-C-N	-14.44	99.54	122.65
1	X	431	LEU	C-N-CA	-14.44	99.54	122.65
1	F	431	LEU	CA-C-N	-14.44	99.55	122.65
1	F	431	LEU	C-N-CA	-14.44	99.55	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	443	HIS	CA-C-O	14.43	141.15	120.51
1	F	419	GLY	N-CA-C	-14.40	97.45	115.31
1	R	431	LEU	CA-C-N	-14.40	99.61	122.65
1	R	431	LEU	C-N-CA	-14.40	99.61	122.65
1	X	419	GLY	N-CA-C	-14.40	97.45	115.31
1	R	399	SER	CA-C-O	14.38	141.08	120.51
1	R	402	ALA	CB-CA-C	-14.38	81.81	110.42
1	F	402	ALA	CB-CA-C	-14.37	81.81	110.42
1	L	472	GLU	N-CA-C	-14.37	95.70	111.36
1	R	443	HIS	CA-C-O	14.35	141.04	120.51
1	L	402	ALA	CB-CA-C	-14.35	81.87	110.42
1	L	443	HIS	CA-C-O	14.34	141.02	120.51
1	L	399	SER	CA-C-O	14.33	141.00	120.51
1	X	402	ALA	CB-CA-C	-14.32	81.93	110.42
1	X	472	GLU	N-CA-C	-14.31	95.77	111.36
1	R	472	GLU	N-CA-C	-14.30	95.78	111.36
1	F	399	SER	CA-C-O	14.29	140.95	120.51
1	X	399	SER	CA-C-O	14.29	140.94	120.51
1	F	472	GLU	N-CA-C	-14.28	95.80	111.36
4	D	1510	GLN	N-CA-C	14.24	132.54	112.04
1	X	400	GLY	CA-C-O	-14.22	95.82	120.57
1	R	400	GLY	CA-C-O	-14.22	95.82	120.57
1	F	400	GLY	CA-C-O	-14.17	95.91	120.57
6	C	481	ARG	N-CA-C	14.17	129.52	111.24
6	U	481	ARG	N-CA-C	14.14	129.49	111.24
1	L	400	GLY	CA-C-O	-14.14	95.97	120.57
6	I	481	ARG	N-CA-C	14.10	129.43	111.24
6	O	481	ARG	N-CA-C	14.09	129.42	111.24
3	T	405	ASP	CB-CA-C	-14.07	89.29	110.96
3	H	410	LEU	O-C-N	14.06	141.27	122.43
4	P	1517	SER	CA-C-N	-14.05	101.25	120.79
4	P	1517	SER	C-N-CA	-14.05	101.25	120.79
3	H	405	ASP	CB-CA-C	-14.04	89.33	110.96
3	N	405	ASP	CB-CA-C	-14.03	89.36	110.96
4	V	1517	SER	CA-C-N	-14.03	101.29	120.79
4	V	1517	SER	C-N-CA	-14.03	101.29	120.79
4	D	1517	SER	CA-C-N	-14.02	101.31	120.79
4	D	1517	SER	C-N-CA	-14.02	101.31	120.79
3	T	410	LEU	O-C-N	14.01	141.21	122.43
4	J	1517	SER	CA-C-N	-14.01	101.31	120.79
4	J	1517	SER	C-N-CA	-14.01	101.31	120.79
3	Z	405	ASP	CB-CA-C	-14.01	89.39	110.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	410	LEU	O-C-N	13.99	141.17	122.43
1	X	452	ARG	N-CA-CB	13.94	134.04	110.49
1	F	452	ARG	N-CA-CB	13.92	134.01	110.49
3	Z	410	LEU	O-C-N	13.92	141.08	122.43
1	R	452	ARG	N-CA-CB	13.90	133.98	110.49
1	L	452	ARG	N-CA-CB	13.89	133.97	110.49
1	R	427	PHE	CA-C-N	-13.83	101.64	120.44
1	R	427	PHE	C-N-CA	-13.83	101.64	120.44
2	Y	264	GLU	N-CA-C	-13.82	96.22	111.28
1	X	343	MET	N-CA-CB	13.80	130.58	110.16
2	S	264	GLU	N-CA-C	-13.80	96.24	111.28
2	M	264	GLU	N-CA-C	-13.77	96.27	111.28
4	D	1520	GLY	CA-C-N	-13.76	100.76	120.29
4	D	1520	GLY	C-N-CA	-13.76	100.76	120.29
4	J	1520	GLY	CA-C-N	-13.76	100.75	120.29
4	J	1520	GLY	C-N-CA	-13.76	100.75	120.29
1	F	343	MET	N-CA-CB	13.74	130.49	110.16
1	X	397	ARG	O-C-N	-13.72	106.50	122.15
1	R	343	MET	N-CA-CB	13.72	130.47	110.16
1	L	343	MET	N-CA-CB	13.72	130.47	110.16
3	N	493	ALA	CA-C-N	13.72	147.74	121.54
3	N	493	ALA	C-N-CA	13.72	147.74	121.54
3	Z	493	ALA	CA-C-N	13.72	147.74	121.54
3	Z	493	ALA	C-N-CA	13.72	147.74	121.54
1	R	448	ARG	CB-CA-C	-13.70	83.15	110.42
1	F	486	GLU	N-CA-CB	13.70	130.41	110.13
4	V	1520	GLY	CA-C-N	-13.70	100.84	120.29
4	V	1520	GLY	C-N-CA	-13.70	100.84	120.29
2	G	264	GLU	N-CA-C	-13.69	96.36	111.28
1	R	486	GLU	N-CA-CB	13.68	130.38	110.13
3	T	493	ALA	CA-C-N	13.68	147.67	121.54
3	T	493	ALA	C-N-CA	13.68	147.67	121.54
3	H	493	ALA	CA-C-N	13.68	147.66	121.54
3	H	493	ALA	C-N-CA	13.68	147.66	121.54
1	X	486	GLU	N-CA-CB	13.67	130.36	110.13
4	P	1520	GLY	CA-C-N	-13.67	100.88	120.29
4	P	1520	GLY	C-N-CA	-13.67	100.88	120.29
2	G	379	HIS	CA-C-O	-13.66	100.97	120.51
1	F	397	ARG	O-C-N	-13.66	106.58	122.15
2	M	379	HIS	CA-C-O	-13.65	100.99	120.51
3	H	471	LEU	CA-C-O	13.64	134.88	120.42
1	R	397	ARG	O-C-N	-13.64	106.60	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	486	GLU	N-CA-CB	13.64	130.32	110.13
2	M	328	THR	N-CA-C	-13.63	96.73	114.31
2	Y	379	HIS	CA-C-O	-13.60	101.06	120.51
1	L	484	ASP	O-C-N	13.58	136.06	122.07
1	F	484	ASP	O-C-N	13.58	136.06	122.07
3	N	471	LEU	CA-C-O	13.58	134.82	120.42
3	Z	471	LEU	CA-C-O	13.58	134.81	120.42
4	D	1448	MET	CA-C-O	-13.57	106.16	120.55
1	X	484	ASP	O-C-N	13.56	136.03	122.07
1	L	397	ARG	O-C-N	-13.56	106.69	122.15
4	V	1488	GLY	CA-C-O	13.56	135.21	120.30
2	S	328	THR	N-CA-C	-13.54	96.84	114.31
2	S	330	LYS	CA-C-N	13.54	137.02	120.09
2	S	330	LYS	C-N-CA	13.54	137.02	120.09
2	S	379	HIS	CA-C-O	-13.54	101.15	120.51
1	R	484	ASP	O-C-N	13.53	136.01	122.07
4	V	1507	ASP	CA-C-O	-13.52	102.96	119.59
4	P	1448	MET	CA-C-O	-13.52	106.22	120.55
4	J	1488	GLY	CA-C-O	13.52	135.17	120.30
3	T	471	LEU	CA-C-O	13.51	134.74	120.42
1	F	450	GLU	O-C-N	13.51	140.55	122.59
2	Y	328	THR	N-CA-C	-13.49	96.91	114.31
3	Z	411	GLU	CA-C-O	-13.49	101.22	120.51
1	L	450	GLU	O-C-N	13.48	140.52	122.59
4	V	1448	MET	CA-C-O	-13.47	106.27	120.55
4	P	1488	GLY	CA-C-O	13.47	135.12	120.30
4	J	1448	MET	CA-C-O	-13.47	106.28	120.55
2	S	352	GLN	N-CA-C	13.46	125.95	111.28
1	X	450	GLU	O-C-N	13.45	140.48	122.59
2	G	328	THR	N-CA-C	-13.44	96.97	114.31
2	Y	330	LYS	CA-C-N	13.44	136.89	120.09
2	Y	330	LYS	C-N-CA	13.44	136.89	120.09
4	D	1484	ASP	CA-C-O	-13.44	106.31	120.55
4	D	1507	ASP	CA-C-O	-13.42	103.09	119.59
2	G	330	LYS	CA-C-N	13.41	136.86	120.09
2	G	330	LYS	C-N-CA	13.41	136.86	120.09
2	M	337	HIS	O-C-N	-13.41	108.13	123.42
2	G	352	GLN	N-CA-C	13.40	125.89	111.28
2	M	330	LYS	CA-C-N	13.40	136.84	120.09
2	M	330	LYS	C-N-CA	13.40	136.84	120.09
3	N	411	GLU	CA-C-O	-13.39	101.37	120.51
4	J	1507	ASP	CA-C-O	-13.38	103.13	119.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	450	GLU	O-C-N	13.37	140.37	122.59
3	T	411	GLU	CA-C-O	-13.36	101.41	120.51
2	Y	352	GLN	N-CA-C	13.35	125.83	111.28
4	D	1488	GLY	CA-C-O	13.35	134.98	120.30
3	H	411	GLU	CA-C-O	-13.34	101.43	120.51
4	P	1507	ASP	CA-C-O	-13.34	103.18	119.59
2	Y	337	HIS	O-C-N	-13.31	108.24	123.42
2	G	337	HIS	O-C-N	-13.30	108.25	123.42
2	M	352	GLN	N-CA-C	13.30	125.78	111.28
4	P	1484	ASP	CA-C-O	-13.30	106.45	120.55
4	V	1486	CYS	CA-C-N	-13.25	96.22	121.54
4	V	1486	CYS	C-N-CA	-13.25	96.22	121.54
4	J	1484	ASP	CA-C-O	-13.24	106.52	120.55
4	P	1486	CYS	CA-C-N	-13.22	96.30	121.54
4	P	1486	CYS	C-N-CA	-13.22	96.30	121.54
3	N	411	GLU	CA-C-N	13.18	145.93	121.81
3	N	411	GLU	C-N-CA	13.18	145.93	121.81
2	S	337	HIS	O-C-N	-13.18	108.39	123.42
3	H	411	GLU	CA-C-N	13.17	145.91	121.81
3	H	411	GLU	C-N-CA	13.17	145.91	121.81
4	V	1484	ASP	CA-C-O	-13.17	106.59	120.55
1	L	427	PHE	CA-C-N	-13.16	101.59	120.29
1	L	427	PHE	C-N-CA	-13.16	101.59	120.29
4	D	1486	CYS	CA-C-N	-13.16	96.39	121.54
4	D	1486	CYS	C-N-CA	-13.16	96.39	121.54
1	X	427	PHE	CA-C-N	-13.15	101.62	120.29
1	X	427	PHE	C-N-CA	-13.15	101.62	120.29
4	J	1486	CYS	CA-C-N	-13.15	96.42	121.54
4	J	1486	CYS	C-N-CA	-13.15	96.42	121.54
3	Z	411	GLU	CA-C-N	13.14	145.86	121.81
3	Z	411	GLU	C-N-CA	13.14	145.86	121.81
3	T	411	GLU	CA-C-N	13.14	145.85	121.81
3	T	411	GLU	C-N-CA	13.14	145.85	121.81
1	F	367	THR	N-CA-C	-13.13	96.61	112.89
1	L	367	THR	N-CA-C	-13.13	96.61	112.89
3	Z	391	GLN	CA-C-N	13.13	137.87	120.28
3	Z	391	GLN	C-N-CA	13.13	137.87	120.28
1	L	436	SER	CA-C-O	13.12	136.37	121.02
3	N	391	GLN	CA-C-N	13.11	137.85	120.28
3	N	391	GLN	C-N-CA	13.11	137.85	120.28
3	H	391	GLN	CA-C-N	13.10	137.84	120.28
3	H	391	GLN	C-N-CA	13.10	137.84	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	436	SER	CA-C-O	13.10	136.34	121.02
1	F	427	PHE	CA-C-N	-13.09	101.70	120.29
1	F	427	PHE	C-N-CA	-13.09	101.70	120.29
1	R	367	THR	N-CA-C	-13.09	96.66	112.89
1	X	436	SER	CA-C-O	13.06	136.30	121.02
3	T	391	GLN	CA-C-N	13.05	137.76	120.28
3	T	391	GLN	C-N-CA	13.05	137.76	120.28
2	S	379	HIS	O-C-N	-13.04	105.25	122.59
1	F	436	SER	CA-C-O	13.03	136.27	121.02
1	F	462	GLU	N-CA-CB	12.98	130.04	110.70
1	R	305	ASP	CB-CA-C	12.98	130.44	109.41
1	X	367	THR	N-CA-C	-12.97	96.81	112.89
1	R	462	GLU	N-CA-CB	12.97	130.03	110.70
1	L	456	ASP	CA-C-N	-12.96	96.79	121.54
1	L	456	ASP	C-N-CA	-12.96	96.79	121.54
1	L	305	ASP	CB-CA-C	12.96	130.40	109.41
1	F	456	ASP	CA-C-N	-12.95	96.80	121.54
1	F	456	ASP	C-N-CA	-12.95	96.80	121.54
2	M	379	HIS	O-C-N	-12.95	105.36	122.59
1	L	462	GLU	N-CA-CB	12.94	129.98	110.70
1	X	305	ASP	CB-CA-C	12.93	130.35	109.41
1	X	456	ASP	CA-C-N	-12.93	96.85	121.54
1	X	456	ASP	C-N-CA	-12.93	96.85	121.54
1	F	305	ASP	CB-CA-C	12.91	130.33	109.41
1	R	456	ASP	CA-C-N	-12.91	96.88	121.54
1	R	456	ASP	C-N-CA	-12.91	96.88	121.54
1	X	462	GLU	N-CA-CB	12.91	129.93	110.70
2	G	379	HIS	O-C-N	-12.90	105.43	122.59
3	T	462	GLY	CA-C-O	-12.90	107.07	121.00
2	S	405	SER	CB-CA-C	12.89	131.42	110.92
2	G	405	SER	CB-CA-C	12.88	131.40	110.92
3	N	462	GLY	CA-C-O	-12.88	107.09	121.00
3	Z	462	GLY	CA-C-O	-12.88	107.09	121.00
3	H	462	GLY	CA-C-O	-12.87	107.10	121.00
2	Y	379	HIS	O-C-N	-12.87	105.47	122.59
2	Y	405	SER	CB-CA-C	12.81	131.29	110.92
2	M	405	SER	CB-CA-C	12.80	131.27	110.92
1	F	320	GLU	CA-C-N	-12.71	96.51	121.94
1	F	320	GLU	C-N-CA	-12.71	96.51	121.94
1	R	320	GLU	CA-C-N	-12.69	96.55	121.94
1	R	320	GLU	C-N-CA	-12.69	96.55	121.94
1	X	320	GLU	CA-C-N	-12.69	96.56	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	320	GLU	C-N-CA	-12.69	96.56	121.94
1	L	320	GLU	CA-C-N	-12.64	96.65	121.94
1	L	320	GLU	C-N-CA	-12.64	96.65	121.94
2	G	330	LYS	O-C-N	-12.56	106.64	122.09
2	Y	330	LYS	O-C-N	-12.55	106.65	122.09
4	J	1531	GLU	CA-C-N	12.52	137.06	120.28
4	J	1531	GLU	C-N-CA	12.52	137.06	120.28
2	G	330	LYS	N-CA-C	-12.50	96.72	112.72
2	M	330	LYS	O-C-N	-12.49	106.72	122.09
2	S	330	LYS	O-C-N	-12.49	106.73	122.09
3	T	410	LEU	CA-C-O	-12.47	104.04	119.38
2	Y	330	LYS	N-CA-C	-12.45	96.78	112.72
2	M	330	LYS	N-CA-C	-12.45	96.78	112.72
2	S	330	LYS	N-CA-C	-12.44	96.79	112.72
4	D	1531	GLU	CA-C-N	12.44	136.95	120.28
4	D	1531	GLU	C-N-CA	12.44	136.95	120.28
4	V	1531	GLU	CA-C-N	12.41	136.91	120.28
4	V	1531	GLU	C-N-CA	12.41	136.91	120.28
5	Q	395	GLY	N-CA-C	-12.40	96.90	112.77
4	P	1531	GLU	CA-C-N	12.39	136.89	120.28
4	P	1531	GLU	C-N-CA	12.39	136.89	120.28
1	F	448	ARG	CB-CA-C	-12.38	83.09	110.21
3	H	410	LEU	CA-C-O	-12.38	104.15	119.38
4	D	1520	GLY	O-C-N	12.38	138.79	122.70
1	X	448	ARG	CB-CA-C	-12.37	83.12	110.21
1	L	448	ARG	CB-CA-C	-12.37	83.12	110.21
1	X	486	GLU	O-C-N	12.37	137.13	122.17
3	Z	410	LEU	CA-C-O	-12.35	104.19	119.38
4	J	1520	GLY	O-C-N	12.34	138.75	122.70
3	N	410	LEU	CA-C-O	-12.34	104.20	119.38
1	L	486	GLU	O-C-N	12.33	137.09	122.17
1	R	486	GLU	O-C-N	12.32	137.08	122.17
4	P	1520	GLY	O-C-N	12.32	138.72	122.70
5	W	395	GLY	N-CA-C	-12.32	97.00	112.77
5	K	395	GLY	N-CA-C	-12.29	97.03	112.77
4	D	878	PRO	CA-C-N	12.29	138.98	120.31
4	D	878	PRO	C-N-CA	12.29	138.98	120.31
5	E	395	GLY	N-CA-C	-12.29	97.05	112.77
1	F	486	GLU	O-C-N	12.28	137.03	122.17
4	V	1520	GLY	O-C-N	12.28	138.66	122.70
1	F	398	LYS	CA-C-N	-12.25	98.14	121.54
1	F	398	LYS	C-N-CA	-12.25	98.14	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	356	THR	N-CA-CB	12.25	129.09	110.22
1	L	398	LYS	CA-C-N	-12.25	98.14	121.54
1	L	398	LYS	C-N-CA	-12.25	98.14	121.54
3	Z	340	TRP	CA-C-N	12.24	137.07	120.54
3	Z	340	TRP	C-N-CA	12.24	137.07	120.54
3	T	340	TRP	CA-C-N	12.21	137.03	120.54
3	T	340	TRP	C-N-CA	12.21	137.03	120.54
3	N	340	TRP	CA-C-N	12.21	137.02	120.54
3	N	340	TRP	C-N-CA	12.21	137.02	120.54
4	P	1519	SER	CA-C-O	12.21	137.96	120.51
1	X	398	LYS	CA-C-N	-12.20	98.24	121.54
1	X	398	LYS	C-N-CA	-12.20	98.24	121.54
4	P	878	PRO	CA-C-N	12.20	138.85	120.31
4	P	878	PRO	C-N-CA	12.20	138.85	120.31
3	H	340	TRP	CA-C-N	12.19	137.00	120.54
3	H	340	TRP	C-N-CA	12.19	137.00	120.54
3	H	356	THR	N-CA-CB	12.18	128.98	110.22
4	J	1519	SER	CA-C-O	12.16	137.90	120.51
3	Z	356	THR	N-CA-CB	12.16	128.95	110.22
1	R	398	LYS	CA-C-N	-12.16	98.31	121.54
1	R	398	LYS	C-N-CA	-12.16	98.31	121.54
4	V	878	PRO	CA-C-N	12.16	138.79	120.31
4	V	878	PRO	C-N-CA	12.16	138.79	120.31
4	J	878	PRO	CA-C-N	12.16	138.79	120.31
4	J	878	PRO	C-N-CA	12.16	138.79	120.31
5	K	259	SER	O-C-N	-12.13	106.45	122.59
3	T	356	THR	N-CA-CB	12.12	128.89	110.22
4	V	1510	GLN	CA-C-N	-12.10	100.11	120.68
4	V	1510	GLN	C-N-CA	-12.10	100.11	120.68
4	P	1510	GLN	CA-C-N	-12.10	100.11	120.68
4	P	1510	GLN	C-N-CA	-12.10	100.11	120.68
4	D	1519	SER	CA-C-O	12.09	137.79	120.51
4	D	1510	GLN	CA-C-N	-12.06	100.18	120.68
4	D	1510	GLN	C-N-CA	-12.06	100.18	120.68
1	X	467	LEU	CA-C-O	-12.06	104.90	119.49
4	V	1519	SER	CA-C-O	12.05	137.74	120.51
1	L	423	ALA	N-CA-C	12.04	136.41	109.81
5	Q	259	SER	O-C-N	-12.02	106.61	122.59
1	F	467	LEU	CA-C-O	-12.01	104.95	119.49
5	E	259	SER	O-C-N	-12.01	106.62	122.59
5	W	259	SER	O-C-N	-12.01	106.62	122.59
1	F	423	ALA	N-CA-C	11.99	136.31	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	423	ALA	N-CA-C	11.99	136.30	109.81
1	L	467	LEU	CA-C-O	-11.98	105.00	119.49
1	F	452	ARG	CB-CA-C	-11.97	86.60	110.42
4	J	1510	GLN	CA-C-N	-11.96	100.34	120.68
4	J	1510	GLN	C-N-CA	-11.96	100.34	120.68
1	X	452	ARG	CB-CA-C	-11.94	86.66	110.42
1	R	423	ALA	N-CA-C	11.94	136.19	109.81
1	R	467	LEU	CA-C-O	-11.93	105.05	119.49
1	X	457	ALA	CB-CA-C	11.93	134.16	110.42
1	R	452	ARG	CB-CA-C	-11.92	86.70	110.42
1	L	452	ARG	CB-CA-C	-11.92	86.70	110.42
1	R	457	ALA	CB-CA-C	11.92	134.13	110.42
1	F	457	ALA	CB-CA-C	11.90	134.11	110.42
1	L	457	ALA	CB-CA-C	11.89	134.07	110.42
3	Z	352	LEU	N-CA-CB	11.86	127.61	109.94
1	R	462	GLU	CB-CA-C	-11.85	91.39	110.94
4	P	1511	GLN	O-C-N	11.85	138.21	122.33
1	X	462	GLU	CB-CA-C	-11.85	91.39	110.94
3	Z	487	TRP	O-C-N	11.85	134.68	122.12
3	H	352	LEU	N-CA-CB	11.84	127.58	109.94
1	L	462	GLU	CB-CA-C	-11.83	91.42	110.94
2	G	332	PRO	CB-CA-C	11.82	125.34	110.92
3	H	487	TRP	O-C-N	11.82	134.65	122.12
3	N	352	LEU	N-CA-CB	11.81	127.54	109.94
1	F	462	GLU	CB-CA-C	-11.81	91.45	110.94
4	D	1511	GLN	O-C-N	11.81	138.15	122.33
1	X	328	VAL	CA-C-N	11.80	143.09	120.07
1	X	328	VAL	C-N-CA	11.80	143.09	120.07
1	L	328	VAL	CA-C-N	11.80	143.07	120.07
1	L	328	VAL	C-N-CA	11.80	143.07	120.07
3	T	352	LEU	N-CA-CB	11.79	127.52	109.94
4	P	1542	PRO	CA-C-O	-11.79	99.13	120.60
4	J	1511	GLN	O-C-N	11.79	138.13	122.33
3	N	487	TRP	O-C-N	11.79	134.61	122.12
4	V	1511	GLN	O-C-N	11.78	138.12	122.33
2	S	332	PRO	CB-CA-C	11.78	125.29	110.92
1	X	305	ASP	CA-C-O	11.77	130.24	119.76
3	Z	390	ASP	N-CA-C	11.76	124.09	111.03
1	R	328	VAL	CA-C-N	11.76	143.01	120.07
1	R	328	VAL	C-N-CA	11.76	143.01	120.07
4	D	1542	PRO	CA-C-O	-11.76	99.20	120.60
4	J	1503	ILE	O-C-N	11.76	133.27	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	S	393	TYR	CA-C-O	-11.75	104.73	119.31
2	G	393	TYR	CA-C-O	-11.75	104.74	119.31
1	L	427	PHE	O-C-N	11.75	134.17	122.07
4	V	1542	PRO	CA-C-O	-11.75	99.22	120.60
2	Y	393	TYR	CA-C-O	-11.74	104.75	119.31
4	P	1503	ILE	O-C-N	11.73	133.25	121.87
4	D	1503	ILE	O-C-N	11.73	133.24	121.87
1	F	305	ASP	CA-C-O	11.72	130.19	119.76
1	F	328	VAL	CA-C-N	11.72	142.93	120.07
1	F	328	VAL	C-N-CA	11.72	142.93	120.07
2	Y	332	PRO	CB-CA-C	11.72	125.22	110.92
4	J	1542	PRO	CA-C-O	-11.72	99.27	120.60
1	R	305	ASP	CA-C-O	11.71	130.19	119.76
2	M	332	PRO	CB-CA-C	11.71	125.21	110.92
3	T	487	TRP	O-C-N	11.68	134.50	122.12
4	P	1470	ILE	CA-C-O	-11.67	108.80	121.17
1	L	305	ASP	CA-C-O	11.66	130.13	119.76
3	T	390	ASP	N-CA-C	11.65	123.97	111.03
4	V	1503	ILE	O-C-N	11.65	133.17	121.87
2	M	393	TYR	CA-C-O	-11.65	104.87	119.31
1	F	367	THR	CA-C-N	11.64	142.64	120.99
1	F	367	THR	C-N-CA	11.64	142.64	120.99
1	L	367	THR	CA-C-N	11.64	142.63	120.99
1	L	367	THR	C-N-CA	11.64	142.63	120.99
4	D	1474	GLY	N-CA-C	11.62	126.70	112.64
2	M	406	ILE	CB-CA-C	-11.62	96.80	112.02
2	G	406	ILE	CB-CA-C	-11.61	96.81	112.02
1	X	427	PHE	O-C-N	11.61	134.03	122.07
4	J	1474	GLY	N-CA-C	11.61	126.69	112.64
2	Y	406	ILE	CB-CA-C	-11.61	96.81	112.02
3	H	390	ASP	N-CA-C	11.61	123.91	111.03
1	R	367	THR	CA-C-N	11.60	142.57	120.99
1	R	367	THR	C-N-CA	11.60	142.57	120.99
1	R	408	GLU	N-CA-C	11.60	125.05	111.71
1	X	367	THR	CA-C-N	11.59	142.56	120.99
1	X	367	THR	C-N-CA	11.59	142.56	120.99
4	V	1470	ILE	CA-C-O	-11.58	108.90	121.17
1	R	426	GLN	O-C-N	11.58	135.35	122.15
4	J	1470	ILE	CA-C-O	-11.57	108.90	121.17
4	P	1474	GLY	N-CA-C	11.57	126.64	112.64
3	N	390	ASP	N-CA-C	11.56	123.87	111.03
1	L	408	GLU	N-CA-C	11.56	125.00	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	408	GLU	N-CA-C	11.54	124.98	111.71
1	F	427	PHE	O-C-N	11.54	133.96	122.07
4	D	1470	ILE	CA-C-O	-11.54	108.93	121.17
1	L	426	GLN	O-C-N	11.54	135.31	122.15
1	X	451	GLU	N-CA-C	11.51	135.32	110.80
1	F	451	GLU	N-CA-C	11.51	135.32	110.80
2	S	406	ILE	CB-CA-C	-11.51	96.94	112.02
4	V	1474	GLY	N-CA-C	11.50	126.56	112.64
1	R	427	PHE	O-C-N	11.50	133.91	122.07
1	L	418	GLN	N-CA-C	11.48	123.78	111.03
3	N	462	GLY	O-C-N	-11.48	111.16	122.18
1	F	457	ALA	CA-C-O	-11.48	104.10	120.51
3	H	462	GLY	O-C-N	-11.47	111.17	122.18
1	L	451	GLU	N-CA-C	11.46	135.22	110.80
1	R	418	GLN	N-CA-C	11.46	123.76	111.03
1	X	408	GLU	N-CA-C	11.46	124.89	111.71
1	R	457	ALA	CA-C-O	-11.46	104.12	120.51
1	R	451	GLU	N-CA-C	11.46	135.21	110.80
1	X	395	ILE	O-C-N	-11.46	107.01	121.90
2	S	330	LYS	CA-C-O	11.46	133.21	119.81
2	Y	330	LYS	CA-C-O	11.45	133.21	119.81
3	T	462	GLY	O-C-N	-11.45	111.19	122.18
3	Z	462	GLY	O-C-N	-11.45	111.19	122.18
2	G	330	LYS	CA-C-O	11.45	133.20	119.81
1	X	457	ALA	CA-C-O	-11.45	104.14	120.51
1	F	426	GLN	O-C-N	11.44	135.19	122.15
1	R	428	LYS	O-C-N	11.44	134.44	122.09
1	L	493	HIS	N-CA-C	11.43	143.00	111.00
1	X	418	GLN	N-CA-C	11.42	123.71	111.03
1	R	395	ILE	O-C-N	-11.40	107.08	121.90
1	L	395	ILE	O-C-N	-11.39	107.09	121.90
2	G	324	ILE	O-C-N	11.39	136.97	122.05
1	X	426	GLN	O-C-N	11.38	135.13	122.15
1	F	418	GLN	N-CA-C	11.37	123.65	111.03
1	L	457	ALA	CA-C-O	-11.36	104.27	120.51
2	M	330	LYS	CA-C-O	11.35	133.09	119.81
1	R	493	HIS	N-CA-C	11.35	142.78	111.00
1	F	493	HIS	N-CA-C	11.34	142.75	111.00
1	X	493	HIS	N-CA-C	11.33	142.73	111.00
2	M	324	ILE	O-C-N	11.31	136.87	122.05
3	H	409	PRO	N-CA-CB	11.30	115.12	103.25
3	N	487	TRP	CA-C-N	-11.29	102.63	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	487	TRP	C-N-CA	-11.29	102.63	120.47
3	Z	487	TRP	CA-C-N	-11.28	102.64	120.47
3	Z	487	TRP	C-N-CA	-11.28	102.64	120.47
1	F	395	ILE	O-C-N	-11.27	107.25	121.90
3	N	409	PRO	N-CA-CB	11.26	115.07	103.25
3	H	487	TRP	CA-C-N	-11.25	102.69	120.47
3	H	487	TRP	C-N-CA	-11.25	102.69	120.47
2	S	324	ILE	O-C-N	11.25	136.79	122.05
2	Y	324	ILE	O-C-N	11.25	136.79	122.05
3	T	409	PRO	N-CA-CB	11.24	115.06	103.25
2	M	378	SER	CA-C-N	11.24	143.01	121.54
2	M	378	SER	C-N-CA	11.24	143.01	121.54
2	Y	378	SER	CA-C-N	11.23	143.00	121.54
2	Y	378	SER	C-N-CA	11.23	143.00	121.54
2	S	378	SER	CA-C-N	11.23	142.98	121.54
2	S	378	SER	C-N-CA	11.23	142.98	121.54
2	Y	333	PRO	CB-CA-C	-11.22	93.05	111.56
4	D	1472	SER	CA-C-O	11.22	132.78	121.00
1	F	343	MET	CA-C-O	11.21	132.31	120.42
2	G	378	SER	CA-C-N	11.21	142.95	121.54
2	G	378	SER	C-N-CA	11.21	142.95	121.54
3	Z	409	PRO	N-CA-CB	11.21	115.02	103.25
3	T	487	TRP	CA-C-N	-11.20	102.78	120.47
3	T	487	TRP	C-N-CA	-11.20	102.78	120.47
2	G	333	PRO	CB-CA-C	-11.19	93.09	111.56
2	S	327	ARG	CB-CA-C	-11.18	88.17	110.42
1	R	343	MET	CA-C-O	11.18	132.27	120.42
3	H	409	PRO	CB-CA-C	-11.18	93.12	111.56
4	J	1472	SER	CA-C-O	11.17	132.73	121.00
2	Y	327	ARG	CB-CA-C	-11.17	88.19	110.42
2	G	327	ARG	CB-CA-C	-11.16	88.22	110.42
2	S	333	PRO	CB-CA-C	-11.15	93.15	111.56
1	X	343	MET	CA-C-O	11.15	132.24	120.42
4	V	1472	SER	CA-C-O	11.15	132.71	121.00
4	P	1472	SER	CA-C-O	11.13	132.69	121.00
2	G	322	ALA	CA-C-O	-11.13	108.75	120.55
2	S	331	THR	CB-CA-C	11.12	133.29	112.05
2	M	333	PRO	CB-CA-C	-11.12	93.21	111.56
2	Y	331	THR	CB-CA-C	11.12	133.28	112.05
2	M	327	ARG	CB-CA-C	-11.11	88.31	110.42
3	N	409	PRO	CB-CA-C	-11.11	93.23	111.56
3	T	409	PRO	CB-CA-C	-11.10	93.24	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Z	409	PRO	CB-CA-C	-11.10	93.24	111.56
1	L	343	MET	CA-C-O	11.08	132.17	120.42
1	X	465	GLN	CA-C-O	-11.08	108.88	121.07
2	Y	328	THR	CA-C-N	11.07	141.64	121.15
2	Y	328	THR	C-N-CA	11.07	141.64	121.15
1	X	421	LEU	N-CA-C	-11.07	97.52	111.02
2	G	328	THR	CA-C-N	11.06	141.62	121.15
2	G	328	THR	C-N-CA	11.06	141.62	121.15
4	V	1450	GLU	CA-C-N	11.06	142.67	121.54
4	V	1450	GLU	C-N-CA	11.06	142.67	121.54
6	I	382	ASN	CA-C-N	11.06	142.67	121.54
6	I	382	ASN	C-N-CA	11.06	142.67	121.54
1	R	421	LEU	N-CA-C	-11.06	97.53	111.02
4	P	1450	GLU	CA-C-N	11.05	142.65	121.54
4	P	1450	GLU	C-N-CA	11.05	142.65	121.54
2	G	331	THR	CB-CA-C	11.05	133.16	112.05
2	S	322	ALA	CA-C-O	-11.04	108.84	120.55
6	O	382	ASN	CA-C-N	11.05	142.64	121.54
6	O	382	ASN	C-N-CA	11.05	142.64	121.54
4	J	1450	GLU	CA-C-N	11.03	142.60	121.54
4	J	1450	GLU	C-N-CA	11.03	142.60	121.54
6	C	382	ASN	CA-C-N	11.03	142.60	121.54
6	C	382	ASN	C-N-CA	11.03	142.60	121.54
2	Y	322	ALA	CA-C-O	-11.03	108.86	120.55
2	M	331	THR	CB-CA-C	11.02	133.09	112.05
2	S	328	THR	CA-C-N	11.01	141.53	121.15
2	S	328	THR	C-N-CA	11.01	141.53	121.15
4	D	1450	GLU	CA-C-N	11.01	142.58	121.54
4	D	1450	GLU	C-N-CA	11.01	142.58	121.54
2	M	328	THR	CA-C-N	11.01	141.52	121.15
2	M	328	THR	C-N-CA	11.01	141.52	121.15
2	M	322	ALA	CA-C-O	-11.01	108.88	120.55
6	U	382	ASN	CA-C-N	11.01	142.56	121.54
6	U	382	ASN	C-N-CA	11.01	142.56	121.54
1	X	428	LYS	O-C-N	10.99	134.69	122.15
1	R	465	GLN	CA-C-O	-10.99	108.98	121.07
1	L	428	LYS	O-C-N	10.99	134.68	122.15
1	L	465	GLN	CA-C-O	-10.99	108.98	121.07
6	C	250	VAL	N-CA-CB	-10.99	92.82	111.50
4	P	1537	GLN	CA-C-O	10.97	132.05	120.42
4	V	1537	GLN	CA-C-O	10.97	132.05	120.42
4	D	1503	ILE	CA-C-O	-10.97	109.54	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	D	1537	GLN	CA-C-O	10.97	132.05	120.42
6	O	250	VAL	N-CA-CB	-10.97	92.85	111.50
6	I	250	VAL	N-CA-CB	-10.97	92.86	111.50
1	F	421	LEU	N-CA-C	-10.96	97.65	111.02
1	L	421	LEU	N-CA-C	-10.96	97.66	111.02
6	U	250	VAL	N-CA-CB	-10.95	92.89	111.50
1	F	465	GLN	CA-C-O	-10.94	109.03	121.07
4	J	1503	ILE	CA-C-O	-10.94	109.58	120.95
4	J	1537	GLN	CA-C-O	10.93	132.00	120.42
1	L	328	VAL	CA-C-O	-10.93	106.48	120.69
1	F	484	ASP	CA-C-N	-10.88	96.06	121.52
1	F	484	ASP	C-N-CA	-10.88	96.06	121.52
1	X	484	ASP	CA-C-N	-10.87	96.07	121.52
1	X	484	ASP	C-N-CA	-10.87	96.07	121.52
1	L	484	ASP	CA-C-N	-10.87	96.08	121.52
1	L	484	ASP	C-N-CA	-10.87	96.08	121.52
2	S	385	LEU	CB-CA-C	-10.87	92.75	110.79
2	G	385	LEU	CB-CA-C	-10.86	92.77	110.79
4	P	1503	ILE	CA-C-O	-10.86	109.66	120.95
1	F	490	LEU	CA-C-O	10.85	132.44	119.97
2	M	385	LEU	CB-CA-C	-10.84	92.79	110.79
1	X	328	VAL	CA-C-O	-10.84	106.61	120.69
1	R	328	VAL	CA-C-O	-10.83	106.61	120.69
3	Z	405	ASP	O-C-N	10.82	133.29	122.03
1	F	428	LYS	O-C-N	10.82	134.48	122.15
1	R	484	ASP	CA-C-N	-10.82	96.20	121.52
1	R	484	ASP	C-N-CA	-10.82	96.20	121.52
4	V	1503	ILE	CA-C-O	-10.81	109.70	120.95
1	F	328	VAL	CA-C-O	-10.81	106.64	120.69
2	Y	385	LEU	CB-CA-C	-10.81	92.85	110.79
1	F	299	ASN	O-C-N	-10.75	108.96	121.32
3	T	405	ASP	O-C-N	10.75	133.21	122.03
2	G	278	LYS	N-CA-C	-10.74	102.38	114.62
2	M	339	TYR	N-CA-CB	10.73	128.27	110.79
2	S	339	TYR	N-CA-CB	10.73	128.28	110.79
2	S	278	LYS	N-CA-C	-10.72	102.40	114.62
1	R	299	ASN	O-C-N	-10.71	109.00	121.32
2	Y	278	LYS	N-CA-C	-10.71	102.41	114.62
1	R	490	LEU	CA-C-O	10.71	132.29	119.97
1	L	299	ASN	O-C-N	-10.71	109.00	121.32
1	X	424	PRO	O-C-N	10.71	137.09	122.64
3	H	405	ASP	O-C-N	10.70	133.16	122.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	381	LYS	N-CA-C	-10.70	99.41	111.82
4	J	1522	LEU	CA-C-N	-10.70	105.95	120.28
4	J	1522	LEU	C-N-CA	-10.70	105.95	120.28
3	N	405	ASP	O-C-N	10.69	133.15	122.03
1	X	397	ARG	CA-C-O	10.69	131.75	120.42
1	X	487	ASP	CB-CA-C	-10.69	87.77	110.32
4	P	1522	LEU	CA-C-N	-10.69	105.96	120.28
4	P	1522	LEU	C-N-CA	-10.69	105.96	120.28
2	M	278	LYS	N-CA-C	-10.68	102.44	114.62
1	X	299	ASN	O-C-N	-10.68	109.04	121.32
1	L	490	LEU	CA-C-O	10.67	132.25	119.97
1	L	301	PRO	CA-C-N	10.67	137.67	120.60
1	L	301	PRO	C-N-CA	10.67	137.67	120.60
1	L	487	ASP	CB-CA-C	-10.67	87.81	110.32
3	T	381	LYS	N-CA-C	-10.67	99.45	111.82
4	J	1516	LEU	CA-C-O	-10.67	109.24	120.55
1	R	487	ASP	CB-CA-C	-10.65	87.84	110.32
1	X	490	LEU	CA-C-O	10.65	132.22	119.97
1	L	397	ARG	CA-C-O	10.65	131.71	120.42
1	F	424	PRO	O-C-N	10.65	137.01	122.64
1	F	487	ASP	CB-CA-C	-10.65	87.85	110.32
1	R	397	ARG	CA-C-O	10.65	131.71	120.42
4	D	1487	ASP	CA-C-O	10.64	135.72	120.51
4	V	1487	ASP	CA-C-O	10.64	135.72	120.51
2	G	339	TYR	N-CA-CB	10.63	128.12	110.79
4	J	1487	ASP	CA-C-O	10.63	135.71	120.51
2	G	342	PRO	N-CA-C	10.62	127.49	113.57
4	V	1522	LEU	CA-C-N	-10.62	106.05	120.28
4	V	1522	LEU	C-N-CA	-10.62	106.05	120.28
4	P	1487	ASP	CA-C-O	10.61	135.69	120.51
1	F	397	ARG	CA-C-O	10.60	131.66	120.42
1	X	301	PRO	CA-C-N	10.60	137.56	120.60
1	X	301	PRO	C-N-CA	10.60	137.56	120.60
1	R	424	PRO	O-C-N	10.60	136.95	122.64
4	D	1516	LEU	CA-C-O	-10.59	109.33	120.55
2	Y	339	TYR	N-CA-CB	10.59	128.05	110.79
3	Z	473	GLN	CB-CA-C	-10.58	94.26	110.88
1	L	424	PRO	O-C-N	10.58	136.93	122.64
3	Z	381	LYS	N-CA-C	-10.57	99.56	111.82
1	X	460	LEU	O-C-N	10.57	134.25	122.20
4	V	1516	LEU	CA-C-O	-10.57	109.35	120.55
4	V	1489	HIS	CA-C-O	-10.56	103.21	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	381	LYS	N-CA-C	-10.56	99.57	111.82
1	R	301	PRO	CA-C-N	10.56	137.50	120.60
1	R	301	PRO	C-N-CA	10.56	137.50	120.60
4	D	1489	HIS	CA-C-O	-10.56	103.21	120.85
4	D	1522	LEU	CA-C-N	-10.56	106.13	120.28
4	D	1522	LEU	C-N-CA	-10.56	106.13	120.28
4	P	1516	LEU	CA-C-O	-10.56	109.36	120.55
1	F	301	PRO	CA-C-N	10.54	137.47	120.60
1	F	301	PRO	C-N-CA	10.54	137.47	120.60
2	M	342	PRO	N-CA-C	10.54	127.37	113.57
2	G	330	LYS	CB-CA-C	10.53	127.63	110.37
3	H	473	GLN	CB-CA-C	-10.53	94.35	110.88
1	F	342	GLN	CA-C-N	10.52	135.23	120.29
1	F	342	GLN	C-N-CA	10.52	135.23	120.29
1	L	468	LYS	CA-C-O	-10.52	109.27	120.63
2	S	342	PRO	N-CA-C	10.52	127.35	113.57
1	F	460	LEU	O-C-N	10.51	134.18	122.20
1	F	468	LYS	CA-C-O	-10.51	109.28	120.63
4	J	1489	HIS	CA-C-O	-10.51	103.30	120.85
1	L	460	LEU	O-C-N	10.51	134.18	122.20
2	Y	342	PRO	N-CA-C	10.50	127.33	113.57
5	E	259	SER	CA-C-N	10.50	141.60	121.54
5	E	259	SER	C-N-CA	10.50	141.60	121.54
1	L	425	THR	CA-C-N	-10.49	105.39	120.29
1	L	425	THR	C-N-CA	-10.49	105.39	120.29
2	M	330	LYS	CB-CA-C	10.49	127.58	110.37
3	T	473	GLN	CB-CA-C	-10.49	94.41	110.88
1	R	460	LEU	O-C-N	10.49	134.15	122.20
2	Y	330	LYS	CB-CA-C	10.48	127.56	110.37
3	Z	416	GLU	N-CA-C	-10.48	100.35	113.55
1	R	425	THR	CA-C-N	-10.47	105.42	120.29
1	R	425	THR	C-N-CA	-10.47	105.42	120.29
5	Q	259	SER	CA-C-N	10.47	141.54	121.54
5	Q	259	SER	C-N-CA	10.47	141.54	121.54
1	F	425	THR	CA-C-N	-10.47	105.42	120.29
1	F	425	THR	C-N-CA	-10.47	105.42	120.29
3	N	473	GLN	CB-CA-C	-10.47	94.45	110.88
5	K	259	SER	CA-C-N	10.47	141.53	121.54
5	K	259	SER	C-N-CA	10.47	141.53	121.54
5	W	259	SER	CA-C-N	10.46	141.53	121.54
5	W	259	SER	C-N-CA	10.46	141.53	121.54
1	X	342	GLN	CA-C-N	10.46	135.15	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	342	GLN	C-N-CA	10.46	135.15	120.29
3	H	408	SER	O-C-N	10.46	133.35	121.32
4	P	1489	HIS	CA-C-O	-10.46	103.38	120.85
1	X	425	THR	CA-C-N	-10.46	105.44	120.29
1	X	425	THR	C-N-CA	-10.46	105.44	120.29
1	L	342	GLN	CA-C-N	10.46	135.14	120.29
1	L	342	GLN	C-N-CA	10.46	135.14	120.29
2	S	330	LYS	CB-CA-C	10.46	127.52	110.37
4	D	1487	ASP	CA-C-N	-10.46	106.94	120.22
4	D	1487	ASP	C-N-CA	-10.46	106.94	120.22
3	T	416	GLU	N-CA-C	-10.45	100.39	113.55
4	P	1540	LEU	CA-C-N	-10.45	107.03	120.09
4	P	1540	LEU	C-N-CA	-10.45	107.03	120.09
4	V	1487	ASP	CA-C-N	-10.44	106.96	120.22
4	V	1487	ASP	C-N-CA	-10.44	106.96	120.22
1	R	342	GLN	CA-C-N	10.44	135.12	120.29
1	R	342	GLN	C-N-CA	10.44	135.12	120.29
3	N	410	LEU	CB-CA-C	10.44	132.12	110.31
3	T	408	SER	O-C-N	10.44	133.32	121.32
1	R	468	LYS	CA-C-O	-10.44	109.36	120.63
1	R	341	ASP	N-CA-CB	10.43	126.45	110.28
3	T	410	LEU	CB-CA-C	10.43	132.10	110.31
3	H	408	SER	N-CA-C	10.42	132.84	109.81
3	Z	408	SER	O-C-N	10.42	133.30	121.32
3	N	408	SER	O-C-N	10.42	133.30	121.32
3	H	410	LEU	CB-CA-C	10.41	132.07	110.31
3	H	416	GLU	N-CA-C	-10.41	100.43	113.55
3	T	494	LEU	N-CA-C	10.41	132.97	110.80
1	X	468	LYS	CA-C-O	-10.40	109.40	120.63
3	N	494	LEU	N-CA-C	10.39	132.94	110.80
4	D	1449	TRP	CA-C-N	10.39	141.39	121.54
4	D	1449	TRP	C-N-CA	10.39	141.39	121.54
3	N	477	ILE	N-CA-C	-10.38	100.24	110.72
1	X	341	ASP	N-CA-CB	10.38	126.36	110.28
1	X	493	HIS	CA-C-O	-10.37	103.18	120.80
1	L	341	ASP	N-CA-CB	10.37	126.35	110.28
3	T	408	SER	N-CA-C	10.35	132.69	109.81
4	J	1487	ASP	CA-C-N	-10.35	107.07	120.22
4	J	1487	ASP	C-N-CA	-10.35	107.07	120.22
3	Z	410	LEU	CB-CA-C	10.35	131.95	110.31
4	J	1512	TRP	O-C-N	10.34	133.94	122.15
3	N	416	GLU	N-CA-C	-10.34	100.52	113.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Y	378	SER	CA-C-O	-10.34	105.73	120.51
2	G	378	SER	CA-C-O	-10.33	105.73	120.51
3	H	494	LEU	N-CA-C	10.33	132.80	110.80
4	P	1538	SER	CA-C-O	-10.32	107.00	119.49
4	P	1449	TRP	CA-C-N	10.32	141.25	121.54
4	P	1449	TRP	C-N-CA	10.32	141.25	121.54
4	J	1538	SER	CA-C-O	-10.32	107.00	119.49
1	F	341	ASP	N-CA-CB	10.32	126.27	110.28
3	Z	494	LEU	N-CA-C	10.32	132.78	110.80
2	S	378	SER	CA-C-O	-10.32	105.76	120.51
3	N	408	SER	N-CA-C	10.31	132.60	109.81
2	M	378	SER	CA-C-O	-10.31	105.77	120.51
3	H	416	GLU	N-CA-CB	10.30	125.34	110.40
3	Z	408	SER	N-CA-C	10.30	132.57	109.81
3	T	477	ILE	N-CA-C	-10.30	100.32	110.72
3	Z	477	ILE	N-CA-C	-10.29	100.33	110.72
3	N	416	GLU	N-CA-CB	10.29	125.32	110.40
6	I	454	THR	CA-C-N	10.29	140.22	121.70
6	I	454	THR	C-N-CA	10.29	140.22	121.70
4	J	1449	TRP	CA-C-N	10.29	141.19	121.54
4	J	1449	TRP	C-N-CA	10.29	141.19	121.54
3	Z	416	GLU	N-CA-CB	10.28	125.31	110.40
3	T	416	GLU	N-CA-CB	10.28	125.31	110.40
1	L	493	HIS	CA-C-O	-10.27	103.34	120.80
4	P	1487	ASP	CA-C-N	-10.27	107.17	120.22
4	P	1487	ASP	C-N-CA	-10.27	107.17	120.22
4	V	1449	TRP	CA-C-N	10.27	141.16	121.54
4	V	1449	TRP	C-N-CA	10.27	141.16	121.54
6	C	454	THR	CA-C-N	10.27	140.18	121.70
6	C	454	THR	C-N-CA	10.27	140.18	121.70
6	O	454	THR	CA-C-N	10.27	140.19	121.70
6	O	454	THR	C-N-CA	10.27	140.19	121.70
4	V	1538	SER	CA-C-O	-10.27	107.07	119.49
4	D	1538	SER	CA-C-O	-10.27	107.07	119.49
3	H	477	ILE	N-CA-C	-10.26	100.36	110.72
1	L	305	ASP	N-CA-CB	10.26	126.74	110.01
4	J	1487	ASP	N-CA-C	10.26	132.66	110.80
1	R	493	HIS	CA-C-O	-10.26	103.35	120.80
4	P	1487	ASP	N-CA-C	10.25	132.64	110.80
4	V	1512	TRP	O-C-N	10.25	133.84	122.15
2	S	335	LEU	O-C-N	-10.25	108.96	122.59
1	F	493	HIS	CA-C-O	-10.25	103.38	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	U	454	THR	CA-C-N	10.24	140.14	121.70
6	U	454	THR	C-N-CA	10.24	140.14	121.70
2	M	335	LEU	O-C-N	-10.24	108.97	122.59
4	V	1487	ASP	N-CA-C	10.24	132.61	110.80
1	F	305	ASP	N-CA-CB	10.23	126.69	110.01
4	V	1540	LEU	CA-C-N	-10.22	107.31	120.09
3	N	365	LEU	CA-C-N	10.22	133.44	120.56
3	N	365	LEU	C-N-CA	10.22	133.44	120.56
4	V	1518	ASN	CA-C-N	-10.22	102.01	121.54
4	V	1518	ASN	C-N-CA	-10.22	102.01	121.54
4	V	1540	LEU	C-N-CA	-10.22	107.31	120.09
1	R	305	ASP	N-CA-CB	10.22	126.67	110.01
4	D	1540	LEU	CA-C-N	-10.21	107.33	120.09
4	D	1540	LEU	C-N-CA	-10.21	107.33	120.09
4	P	1518	ASN	O-C-N	10.20	133.00	122.08
4	P	1512	TRP	O-C-N	10.20	133.78	122.15
2	M	326	LEU	CA-C-N	-10.19	102.08	121.54
2	M	326	LEU	C-N-CA	-10.19	102.08	121.54
4	J	1518	ASN	CA-C-N	-10.19	102.08	121.54
4	J	1518	ASN	C-N-CA	-10.19	102.08	121.54
3	N	477	ILE	CB-CA-C	10.18	126.27	112.22
2	G	335	LEU	O-C-N	-10.18	109.06	122.59
1	X	305	ASP	N-CA-CB	10.18	126.60	110.01
3	Z	365	LEU	CA-C-N	10.17	133.38	120.56
3	Z	365	LEU	C-N-CA	10.17	133.38	120.56
4	D	1487	ASP	N-CA-C	10.17	132.46	110.80
4	J	1514	LEU	N-CA-C	10.17	122.45	111.36
2	S	326	LEU	CA-C-N	-10.17	102.12	121.54
2	S	326	LEU	C-N-CA	-10.17	102.12	121.54
4	J	1540	LEU	CA-C-N	-10.16	107.39	120.09
4	J	1540	LEU	C-N-CA	-10.16	107.39	120.09
2	G	326	LEU	CA-C-N	-10.16	102.14	121.54
2	G	326	LEU	C-N-CA	-10.16	102.14	121.54
2	Y	326	LEU	CA-C-N	-10.16	102.14	121.54
2	Y	326	LEU	C-N-CA	-10.16	102.14	121.54
3	T	365	LEU	CA-C-N	10.16	133.36	120.56
3	T	365	LEU	C-N-CA	10.16	133.36	120.56
3	H	365	LEU	CA-C-N	10.16	133.36	120.56
3	H	365	LEU	C-N-CA	10.16	133.36	120.56
4	P	1518	ASN	CA-C-N	-10.15	102.15	121.54
4	P	1518	ASN	C-N-CA	-10.15	102.15	121.54
4	D	1512	TRP	O-C-N	10.15	133.72	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	T	412	GLU	CB-CA-C	-10.14	92.07	111.03
4	J	1518	ASN	O-C-N	10.13	132.93	122.08
4	P	1514	LEU	N-CA-C	10.13	122.40	111.36
3	Z	477	ILE	CB-CA-C	10.12	126.19	112.22
4	D	1516	LEU	O-C-N	10.12	132.84	122.12
2	G	274	ARG	O-C-N	-10.11	111.40	122.12
2	Y	335	LEU	O-C-N	-10.11	109.14	122.59
3	H	462	GLY	CA-C-N	10.11	145.74	121.68
3	H	462	GLY	C-N-CA	10.11	145.74	121.68
4	P	1506	VAL	N-CA-C	10.11	120.93	110.72
3	Z	412	GLU	CB-CA-C	-10.10	92.14	111.03
3	T	477	ILE	CB-CA-C	10.10	126.16	112.22
4	D	1518	ASN	CA-C-N	-10.10	102.25	121.54
4	D	1518	ASN	C-N-CA	-10.10	102.25	121.54
3	T	462	GLY	CA-C-N	10.08	145.68	121.68
3	T	462	GLY	C-N-CA	10.08	145.68	121.68
6	I	308	LEU	CA-C-N	10.08	136.90	122.08
6	I	308	LEU	C-N-CA	10.08	136.90	122.08
1	X	491	VAL	CA-C-O	10.08	132.73	119.53
3	N	412	GLU	CB-CA-C	-10.08	92.19	111.03
3	N	462	GLY	CA-C-N	10.07	145.65	121.68
3	N	462	GLY	C-N-CA	10.07	145.65	121.68
2	Y	274	ARG	O-C-N	-10.06	111.45	122.12
3	Z	462	GLY	CA-C-N	10.06	145.61	121.68
3	Z	462	GLY	C-N-CA	10.06	145.61	121.68
1	X	472	GLU	CA-C-O	-10.05	109.76	120.42
3	H	412	GLU	CB-CA-C	-10.05	92.23	111.03
3	H	477	ILE	CB-CA-C	10.05	126.09	112.22
4	V	1509	GLN	N-CA-C	10.05	122.31	111.36
1	R	472	GLU	CA-C-O	-10.04	109.77	120.42
1	R	491	VAL	CA-C-O	10.04	132.68	119.53
2	Y	342	PRO	CA-C-N	-10.04	102.37	121.54
2	Y	342	PRO	C-N-CA	-10.04	102.37	121.54
4	D	1509	GLN	N-CA-C	10.03	122.30	111.36
4	D	1514	LEU	N-CA-C	10.03	122.30	111.36
4	J	1486	CYS	N-CA-C	10.03	122.22	111.28
1	L	491	VAL	CA-C-O	10.03	132.67	119.53
2	M	274	ARG	O-C-N	-10.03	111.49	122.12
4	V	1506	VAL	N-CA-C	10.03	120.85	110.72
1	F	491	VAL	CA-C-O	10.02	132.66	119.53
1	X	425	THR	O-C-N	10.02	136.59	122.36
4	J	1516	LEU	O-C-N	10.02	132.74	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Y	251	ILE	CA-C-N	-10.01	106.62	122.73
2	Y	251	ILE	C-N-CA	-10.01	106.62	122.73
2	G	251	ILE	CA-C-N	-10.00	106.62	122.73
2	G	251	ILE	C-N-CA	-10.00	106.62	122.73
1	F	472	GLU	CA-C-O	-10.00	109.82	120.42
1	L	482	LYS	N-CA-CB	10.00	124.51	110.01
2	S	251	ILE	CA-C-N	-10.00	106.63	122.73
2	S	251	ILE	C-N-CA	-10.00	106.63	122.73
4	J	1509	GLN	N-CA-C	10.00	122.26	111.36
6	C	308	LEU	CA-C-N	9.99	136.76	122.08
6	C	308	LEU	C-N-CA	9.99	136.76	122.08
2	M	342	PRO	CA-C-N	-9.99	102.46	121.54
2	M	342	PRO	C-N-CA	-9.99	102.46	121.54
4	D	1506	VAL	N-CA-C	9.99	120.81	110.72
4	D	1518	ASN	O-C-N	9.98	132.76	122.08
2	G	342	PRO	CA-C-N	-9.98	102.48	121.54
2	G	342	PRO	C-N-CA	-9.98	102.48	121.54
4	V	1486	CYS	N-CA-C	9.98	122.16	111.28
2	M	251	ILE	CA-C-N	-9.98	106.67	122.73
2	M	251	ILE	C-N-CA	-9.98	106.67	122.73
4	V	1514	LEU	N-CA-C	9.98	122.24	111.36
1	L	425	THR	O-C-N	9.98	136.53	122.36
6	U	308	LEU	CA-C-N	9.97	136.74	122.08
6	U	308	LEU	C-N-CA	9.97	136.74	122.08
1	F	425	THR	O-C-N	9.97	136.52	122.36
4	J	1506	VAL	N-CA-C	9.97	120.79	110.72
4	V	1516	LEU	O-C-N	9.96	132.68	122.12
1	X	463	ILE	CA-C-O	-9.96	108.33	120.78
1	X	482	LYS	N-CA-CB	9.96	124.45	110.01
4	V	1518	ASN	O-C-N	9.96	132.74	122.08
2	S	274	ARG	O-C-N	-9.96	111.57	122.12
1	R	425	THR	O-C-N	9.94	136.48	122.36
4	D	626	PRO	N-CA-C	9.94	126.29	113.86
2	S	342	PRO	CA-C-N	-9.94	102.56	121.54
2	S	342	PRO	C-N-CA	-9.94	102.56	121.54
1	F	482	LYS	N-CA-CB	9.93	124.41	110.01
6	O	308	LEU	CA-C-N	9.92	136.67	122.08
6	O	308	LEU	C-N-CA	9.92	136.67	122.08
4	P	626	PRO	N-CA-C	9.91	126.25	113.86
1	F	463	ILE	CA-C-O	-9.91	108.40	120.78
3	T	501	GLU	CA-C-O	9.91	131.30	119.61
4	P	1516	LEU	O-C-N	9.90	132.62	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	463	ILE	CA-C-O	-9.90	108.40	120.78
1	R	482	LYS	N-CA-CB	9.90	124.36	110.01
4	J	626	PRO	N-CA-C	9.88	126.21	113.86
1	F	307	ILE	N-CA-C	-9.88	100.74	110.72
4	D	1486	CYS	N-CA-C	9.88	122.05	111.28
1	L	472	GLU	CA-C-O	-9.87	109.96	120.42
1	R	463	ILE	CA-C-O	-9.85	108.46	120.78
1	L	307	ILE	N-CA-C	-9.85	100.77	110.72
4	P	1509	GLN	N-CA-C	9.85	122.10	111.36
1	X	307	ILE	N-CA-C	-9.84	100.78	110.72
4	P	1486	CYS	N-CA-C	9.82	121.99	111.28
1	R	307	ILE	N-CA-C	-9.81	100.81	110.72
3	H	446	ARG	CA-C-N	9.81	134.22	120.29
3	H	446	ARG	C-N-CA	9.81	134.22	120.29
3	N	501	GLU	CA-C-O	9.81	131.18	119.61
2	G	277	SER	N-CA-C	9.80	124.85	109.07
2	Y	277	SER	N-CA-C	9.80	124.84	109.07
3	H	501	GLU	CA-C-O	9.79	131.17	119.61
3	Z	446	ARG	CA-C-N	9.79	134.19	120.29
3	Z	446	ARG	C-N-CA	9.79	134.19	120.29
3	H	394	ASP	CA-C-N	-9.78	103.85	120.58
3	H	394	ASP	C-N-CA	-9.78	103.85	120.58
3	T	394	ASP	CA-C-N	-9.78	103.85	120.58
3	T	394	ASP	C-N-CA	-9.78	103.85	120.58
2	S	277	SER	N-CA-C	9.78	124.82	109.07
3	Z	501	GLU	CA-C-O	9.78	131.15	119.61
3	T	446	ARG	CA-C-N	9.76	134.15	120.29
3	T	446	ARG	C-N-CA	9.76	134.15	120.29
4	V	626	PRO	N-CA-C	9.76	126.06	113.86
1	X	394	GLU	CA-C-N	-9.75	106.80	120.74
1	X	394	GLU	C-N-CA	-9.75	106.80	120.74
3	N	394	ASP	CA-C-N	-9.74	103.92	120.58
3	N	394	ASP	C-N-CA	-9.74	103.92	120.58
3	T	413	LEU	N-CA-CB	9.74	124.20	110.07
1	R	394	GLU	CA-C-N	-9.74	106.82	120.74
1	R	394	GLU	C-N-CA	-9.74	106.82	120.74
1	F	394	GLU	CA-C-N	-9.73	106.82	120.74
1	F	394	GLU	C-N-CA	-9.73	106.82	120.74
3	Z	394	ASP	CA-C-N	-9.73	103.94	120.58
3	Z	394	ASP	C-N-CA	-9.73	103.94	120.58
1	L	394	GLU	CA-C-N	-9.73	106.82	120.74
1	L	394	GLU	C-N-CA	-9.73	106.82	120.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	277	SER	N-CA-C	9.73	124.74	109.07
3	N	446	ARG	CA-C-N	9.71	134.08	120.29
3	N	446	ARG	C-N-CA	9.71	134.08	120.29
1	R	299	ASN	CA-C-N	9.70	130.37	120.38
1	R	299	ASN	C-N-CA	9.70	130.37	120.38
4	D	1503	ILE	CA-C-N	9.69	136.51	120.62
4	D	1503	ILE	C-N-CA	9.69	136.51	120.62
1	F	299	ASN	CA-C-N	9.68	130.35	120.38
1	F	299	ASN	C-N-CA	9.68	130.35	120.38
4	V	1503	ILE	CA-C-N	9.68	136.49	120.62
4	V	1503	ILE	C-N-CA	9.68	136.49	120.62
1	X	299	ASN	CA-C-N	9.66	130.33	120.38
1	X	299	ASN	C-N-CA	9.66	130.33	120.38
3	Z	413	LEU	N-CA-CB	9.66	124.08	110.07
4	V	1491	ILE	CA-C-O	9.66	131.41	121.17
1	L	468	LYS	O-C-N	9.66	132.36	122.12
3	N	413	LEU	N-CA-CB	9.65	124.07	110.07
1	R	448	ARG	N-CA-C	9.65	131.36	110.80
4	P	1503	ILE	CA-C-N	9.65	136.44	120.62
4	P	1503	ILE	C-N-CA	9.65	136.44	120.62
4	P	1491	ILE	CA-C-O	9.65	131.40	121.17
2	M	365	GLU	N-CA-C	-9.64	100.08	112.23
1	F	401	TYR	N-CA-CB	9.64	126.78	110.49
1	L	419	GLY	CA-C-O	-9.63	103.74	119.15
1	R	144	LEU	CB-CA-C	-9.63	89.86	109.99
4	J	1503	ILE	CA-C-N	9.63	136.42	120.62
4	J	1503	ILE	C-N-CA	9.63	136.42	120.62
3	Z	453	ASP	N-CA-C	-9.63	100.86	111.36
3	N	453	ASP	N-CA-C	-9.63	100.87	111.36
1	F	144	LEU	CB-CA-C	-9.62	89.89	109.99
1	X	443	HIS	O-C-N	-9.62	109.80	122.59
3	H	413	LEU	N-CA-CB	9.62	124.01	110.07
1	L	401	TYR	N-CA-CB	9.62	126.74	110.49
1	L	144	LEU	CB-CA-C	-9.61	89.90	109.99
1	R	401	TYR	N-CA-CB	9.61	126.74	110.49
1	R	468	LYS	O-C-N	9.61	132.30	122.12
3	H	338	ASN	CB-CA-C	-9.61	95.80	110.88
1	X	144	LEU	CB-CA-C	-9.61	89.91	109.99
1	X	401	TYR	N-CA-CB	9.61	126.72	110.49
1	R	437	GLN	N-CA-C	9.60	121.35	111.07
1	F	468	LYS	O-C-N	9.60	132.30	122.12
2	S	365	GLU	N-CA-C	-9.60	100.14	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	443	HIS	O-C-N	-9.60	109.83	122.59
2	G	365	GLU	N-CA-C	-9.60	100.14	112.23
1	L	299	ASN	CA-C-N	9.60	130.26	120.38
1	L	299	ASN	C-N-CA	9.60	130.26	120.38
1	R	419	GLY	CA-C-O	-9.59	103.80	119.15
3	Z	338	ASN	CB-CA-C	-9.59	95.82	110.88
3	T	338	ASN	CB-CA-C	-9.59	95.83	110.88
1	X	303	GLY	N-CA-C	-9.58	90.47	113.18
3	Z	374	SER	CB-CA-C	-9.58	91.91	110.11
1	X	419	GLY	CA-C-O	-9.57	103.83	119.15
2	Y	365	GLU	N-CA-C	-9.57	100.17	112.23
3	H	453	ASP	N-CA-C	-9.57	100.93	111.36
1	X	468	LYS	O-C-N	9.57	132.26	122.12
4	D	1491	ILE	CA-C-O	9.57	131.31	121.17
1	F	419	GLY	CA-C-O	-9.55	103.87	119.15
1	L	437	GLN	N-CA-C	9.55	121.29	111.07
1	R	443	HIS	O-C-N	-9.55	109.89	122.59
1	F	303	GLY	N-CA-C	-9.55	90.55	113.18
3	T	453	ASP	N-CA-C	-9.55	100.95	111.36
4	D	1517	SER	O-C-N	9.55	133.75	122.20
2	M	392	ILE	CA-C-N	-9.54	104.44	121.14
2	M	392	ILE	C-N-CA	-9.54	104.44	121.14
1	R	420	GLU	N-CA-C	-9.54	99.38	111.02
4	P	1517	SER	O-C-N	9.54	133.75	122.20
1	X	437	GLN	N-CA-C	9.54	121.27	111.07
1	L	420	GLU	N-CA-C	-9.53	99.39	111.02
1	L	443	HIS	O-C-N	-9.53	109.91	122.59
2	Y	392	ILE	CA-C-N	-9.53	104.46	121.14
2	Y	392	ILE	C-N-CA	-9.53	104.46	121.14
3	N	374	SER	CB-CA-C	-9.53	92.00	110.11
1	L	303	GLY	N-CA-C	-9.53	90.60	113.18
3	T	374	SER	CB-CA-C	-9.53	92.01	110.11
3	N	338	ASN	CB-CA-C	-9.53	95.93	110.88
1	R	303	GLY	N-CA-C	-9.52	90.61	113.18
3	H	374	SER	CB-CA-C	-9.52	92.03	110.11
2	G	392	ILE	CA-C-N	-9.51	104.49	121.14
2	G	392	ILE	C-N-CA	-9.51	104.49	121.14
1	F	437	GLN	N-CA-C	9.51	121.25	111.07
1	L	439	ARG	N-CA-CB	9.51	125.02	110.28
4	J	1517	SER	O-C-N	9.50	133.70	122.20
1	F	420	GLU	N-CA-C	-9.49	99.44	111.02
2	S	392	ILE	CA-C-N	-9.48	104.54	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	S	392	ILE	C-N-CA	-9.48	104.54	121.14
4	J	1491	ILE	CA-C-O	9.48	131.22	121.17
2	G	312	LYS	O-C-N	9.46	131.81	122.07
2	Y	331	THR	N-CA-CB	-9.45	95.78	110.43
1	L	398	LYS	CA-C-O	9.44	131.49	119.12
1	X	439	ARG	N-CA-CB	9.44	124.91	110.28
1	X	420	GLU	N-CA-C	-9.43	99.51	111.02
4	V	1517	SER	O-C-N	9.42	133.60	122.20
1	R	439	ARG	N-CA-CB	9.42	124.88	110.28
2	G	331	THR	N-CA-CB	-9.41	95.84	110.43
1	F	398	LYS	CA-C-O	9.40	131.43	119.12
2	S	344	ASP	CA-C-O	9.39	133.94	120.51
3	T	487	TRP	CA-C-O	9.39	130.51	120.55
2	M	312	LYS	O-C-N	9.39	131.74	122.07
2	S	312	LYS	O-C-N	9.38	131.73	122.07
1	F	439	ARG	N-CA-CB	9.37	124.80	110.28
4	P	1448	MET	N-CA-C	-9.35	101.09	111.28
4	J	1448	MET	N-CA-C	-9.35	101.09	111.28
2	M	331	THR	N-CA-CB	-9.35	95.94	110.43
3	H	487	TRP	CA-C-O	9.34	130.45	120.55
2	M	344	ASP	CA-C-O	9.33	133.86	120.51
1	R	398	LYS	CA-C-O	9.33	131.34	119.12
3	Z	487	TRP	CA-C-O	9.33	130.44	120.55
2	S	331	THR	N-CA-CB	-9.31	96.00	110.43
1	X	398	LYS	CA-C-O	9.31	131.31	119.12
4	D	1448	MET	N-CA-C	-9.31	101.14	111.28
3	N	487	TRP	CA-C-O	9.28	130.38	120.55
4	D	1510	GLN	O-C-N	9.27	134.81	122.30
2	Y	312	LYS	O-C-N	9.25	131.60	122.07
2	G	296	LEU	CB-CA-C	-9.25	96.36	110.88
4	V	1448	MET	N-CA-C	-9.25	101.20	111.28
1	X	493	HIS	N-CA-CB	-9.24	94.80	110.50
4	J	1493	ARG	CA-C-O	9.23	130.60	120.63
1	L	493	HIS	N-CA-CB	-9.23	94.81	110.50
2	M	296	LEU	CB-CA-C	-9.23	96.39	110.88
2	Y	344	ASP	CA-C-O	9.22	133.70	120.51
1	F	493	HIS	N-CA-CB	-9.22	94.83	110.50
2	S	296	LEU	CB-CA-C	-9.21	96.41	110.88
1	L	425	THR	N-CA-C	-9.21	100.84	112.90
2	G	344	ASP	CA-C-O	9.20	133.66	120.51
1	R	493	HIS	N-CA-CB	-9.20	94.87	110.50
2	Y	296	LEU	CB-CA-C	-9.19	96.45	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	425	THR	N-CA-C	-9.18	100.88	112.90
1	R	425	THR	N-CA-C	-9.18	100.88	112.90
4	J	1663	GLN	N-CA-C	9.17	121.99	108.60
1	F	452	ARG	N-CA-C	9.16	130.32	110.80
1	L	452	ARG	N-CA-C	9.16	130.31	110.80
4	J	1491	ILE	CB-CA-C	-9.15	100.26	111.97
1	X	425	THR	N-CA-C	-9.14	100.92	112.90
6	O	383	THR	CA-C-N	9.13	133.88	120.83
6	O	383	THR	C-N-CA	9.13	133.88	120.83
1	R	452	ARG	N-CA-C	9.12	130.22	110.80
4	P	1491	ILE	CB-CA-C	-9.12	100.30	111.97
1	F	394	GLU	CB-CA-C	-9.11	90.94	109.99
3	T	469	ASP	CA-C-N	9.11	131.23	119.84
3	T	469	ASP	C-N-CA	9.11	131.23	119.84
4	V	1663	GLN	N-CA-C	9.11	121.90	108.60
3	N	500	GLU	CA-C-N	9.11	135.29	120.63
3	N	500	GLU	C-N-CA	9.11	135.29	120.63
3	Z	500	GLU	CA-C-N	9.10	135.28	120.63
3	Z	500	GLU	C-N-CA	9.10	135.28	120.63
1	X	452	ARG	N-CA-C	9.10	130.17	110.80
2	G	274	ARG	CA-C-O	9.09	130.19	120.55
3	N	469	ASP	CA-C-N	9.09	131.20	119.84
3	N	469	ASP	C-N-CA	9.09	131.20	119.84
4	P	1493	ARG	CA-C-O	9.09	130.44	120.63
1	L	489	LYS	CA-C-N	-9.08	106.51	120.31
1	L	489	LYS	C-N-CA	-9.08	106.51	120.31
1	X	394	GLU	CB-CA-C	-9.08	91.02	109.99
4	D	1491	ILE	CB-CA-C	-9.08	100.35	111.97
1	X	489	LYS	CA-C-N	-9.07	106.52	120.31
1	X	489	LYS	C-N-CA	-9.07	106.52	120.31
4	V	1493	ARG	CA-C-O	9.07	130.43	120.63
1	R	394	GLU	CB-CA-C	-9.07	91.04	109.99
4	V	1491	ILE	CB-CA-C	-9.07	100.36	111.97
3	H	469	ASP	CA-C-N	9.06	131.17	119.84
3	H	469	ASP	C-N-CA	9.06	131.17	119.84
1	R	489	LYS	CA-C-N	-9.06	106.53	120.31
1	R	489	LYS	C-N-CA	-9.06	106.53	120.31
3	H	500	GLU	CA-C-N	9.06	135.22	120.63
3	H	500	GLU	C-N-CA	9.06	135.22	120.63
3	Z	481	HIS	CB-CA-C	-9.06	96.66	110.88
1	L	394	GLU	CB-CA-C	-9.06	91.06	109.99
3	Z	469	ASP	CA-C-N	9.05	131.16	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Z	469	ASP	C-N-CA	9.05	131.16	119.84
4	D	1546	LEU	N-CA-C	9.05	122.12	111.71
4	D	1663	GLN	N-CA-C	9.05	121.81	108.60
1	F	327	MET	CB-CA-C	-9.04	91.51	109.33
4	P	1663	GLN	N-CA-C	9.05	121.81	108.60
1	X	485	LEU	N-CA-CB	-9.04	94.52	110.42
3	N	481	HIS	CB-CA-C	-9.03	96.71	110.88
4	D	1493	ARG	CA-C-O	9.03	130.38	120.63
6	I	383	THR	CA-C-N	9.03	133.74	120.83
6	I	383	THR	C-N-CA	9.03	133.74	120.83
6	U	383	THR	CA-C-N	9.03	133.74	120.83
6	U	383	THR	C-N-CA	9.03	133.74	120.83
1	X	327	MET	CB-CA-C	-9.02	91.56	109.33
3	T	381	LYS	N-CA-CB	-9.02	96.30	110.28
3	Z	381	LYS	N-CA-CB	-9.02	96.31	110.28
1	L	327	MET	CB-CA-C	-9.02	91.57	109.33
4	J	1665	VAL	N-CA-C	-9.02	99.78	111.05
6	C	383	THR	CA-C-N	9.02	133.72	120.83
6	C	383	THR	C-N-CA	9.02	133.72	120.83
1	F	485	LEU	N-CA-CB	-9.01	94.56	110.42
2	S	274	ARG	CA-C-O	9.01	130.10	120.55
3	T	500	GLU	CA-C-N	9.01	135.13	120.63
3	T	500	GLU	C-N-CA	9.01	135.13	120.63
1	F	489	LYS	CA-C-N	-9.00	106.64	120.31
1	F	489	LYS	C-N-CA	-9.00	106.64	120.31
1	R	327	MET	CB-CA-C	-9.00	91.60	109.33
1	L	485	LEU	N-CA-CB	-8.99	94.60	110.42
4	D	1448	MET	O-C-N	8.98	131.64	122.12
3	T	481	HIS	CB-CA-C	-8.98	96.78	110.88
3	T	494	LEU	O-C-N	8.98	134.53	122.59
4	P	1546	LEU	N-CA-C	8.98	122.03	111.71
2	Y	274	ARG	CA-C-O	8.97	130.06	120.55
4	V	1448	MET	O-C-N	8.97	131.63	122.12
3	H	481	HIS	CB-CA-C	-8.96	96.81	110.88
2	M	274	ARG	CA-C-O	8.96	130.05	120.55
4	V	1665	VAL	N-CA-C	-8.96	99.89	111.09
3	T	501	GLU	N-CA-C	8.96	123.98	112.34
3	H	381	LYS	N-CA-CB	-8.95	96.40	110.28
3	Z	494	LEU	O-C-N	8.95	134.50	122.59
3	N	381	LYS	N-CA-CB	-8.95	96.41	110.28
1	R	485	LEU	N-CA-CB	-8.95	94.67	110.42
4	V	1505	SER	CA-C-N	-8.95	107.72	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	1505	SER	C-N-CA	-8.95	107.72	120.42
1	L	469	GLN	CA-C-N	-8.94	106.29	120.60
1	L	469	GLN	C-N-CA	-8.94	106.29	120.60
4	D	1505	SER	CA-C-N	-8.95	107.72	120.42
4	D	1505	SER	C-N-CA	-8.95	107.72	120.42
1	L	367	THR	CA-C-O	-8.94	108.22	119.31
4	P	1665	VAL	N-CA-C	-8.94	99.88	111.05
1	F	451	GLU	CA-C-N	-8.93	104.47	121.54
1	F	451	GLU	C-N-CA	-8.93	104.47	121.54
1	L	451	GLU	CA-C-N	-8.93	104.48	121.54
1	L	451	GLU	C-N-CA	-8.93	104.48	121.54
1	F	469	GLN	CA-C-N	-8.92	106.32	120.60
1	F	469	GLN	C-N-CA	-8.92	106.32	120.60
4	J	1546	LEU	N-CA-C	8.92	121.97	111.71
1	F	367	THR	CA-C-O	-8.92	108.25	119.31
1	R	451	GLU	CA-C-N	-8.92	104.50	121.54
1	R	451	GLU	C-N-CA	-8.92	104.50	121.54
4	P	1448	MET	O-C-N	8.92	131.57	122.12
4	P	1507	ASP	CA-C-N	8.92	138.57	121.54
4	P	1507	ASP	C-N-CA	8.92	138.57	121.54
2	M	256	GLU	N-CA-C	-8.91	100.42	111.11
1	F	403	ILE	CA-C-O	8.91	131.91	120.78
4	J	879	LEU	N-CA-C	8.91	122.15	111.82
2	S	401	ALA	N-CA-CB	8.90	123.21	109.94
4	P	1505	SER	CA-C-N	-8.90	107.78	120.42
4	P	1505	SER	C-N-CA	-8.90	107.78	120.42
1	X	403	ILE	CA-C-O	8.89	131.90	120.78
3	N	494	LEU	O-C-N	8.89	134.42	122.59
2	G	322	ALA	O-C-N	8.89	131.55	122.12
4	J	1505	SER	CA-C-N	-8.89	107.80	120.42
4	J	1505	SER	C-N-CA	-8.89	107.80	120.42
1	X	469	GLN	CA-C-N	-8.88	106.38	120.60
1	X	469	GLN	C-N-CA	-8.88	106.38	120.60
1	R	367	THR	CA-C-O	-8.88	108.30	119.31
3	H	501	GLU	N-CA-C	8.88	123.88	112.34
4	V	1546	LEU	N-CA-C	8.88	121.92	111.71
3	N	501	GLU	N-CA-C	8.87	123.87	112.34
1	R	469	GLN	CA-C-N	-8.87	106.41	120.60
1	R	469	GLN	C-N-CA	-8.87	106.41	120.60
4	D	1665	VAL	N-CA-C	-8.87	99.96	111.05
4	J	1448	MET	O-C-N	8.87	131.52	122.12
2	G	381	THR	N-CA-C	8.87	129.40	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Y	401	ALA	N-CA-CB	8.86	123.14	109.94
1	X	454	TYR	O-C-N	8.86	134.37	122.59
2	M	401	ALA	N-CA-CB	8.86	123.14	109.94
1	R	403	ILE	CA-C-O	8.86	131.85	120.78
1	X	451	GLU	CA-C-N	-8.86	104.63	121.54
1	X	451	GLU	C-N-CA	-8.86	104.63	121.54
3	N	474	ILE	N-CA-CB	8.85	122.58	110.54
5	Q	1343	ASN	CA-C-N	8.85	131.95	120.44
5	Q	1343	ASN	C-N-CA	8.85	131.95	120.44
1	X	415	ASP	O-C-N	8.85	131.50	122.12
4	J	241	LEU	N-CA-C	8.85	120.54	111.07
1	F	415	ASP	O-C-N	8.85	131.50	122.12
1	L	454	TYR	O-C-N	8.85	134.35	122.59
2	M	381	THR	N-CA-C	8.85	129.36	109.81
3	H	494	LEU	O-C-N	8.84	134.35	122.59
1	R	415	ASP	O-C-N	8.84	131.49	122.12
2	Y	381	THR	N-CA-C	8.84	129.35	109.81
3	Z	501	GLU	N-CA-C	8.84	123.83	112.34
4	D	1507	ASP	CA-C-N	8.84	138.42	121.54
4	D	1507	ASP	C-N-CA	8.84	138.42	121.54
2	G	256	GLU	N-CA-C	-8.83	100.51	111.11
4	P	241	LEU	N-CA-C	8.83	120.51	111.07
4	P	879	LEU	N-CA-C	8.83	122.06	111.82
3	Z	415	LYS	CA-C-N	-8.82	107.08	122.79
3	Z	415	LYS	C-N-CA	-8.82	107.08	122.79
4	V	1507	ASP	CA-C-N	8.82	138.39	121.54
4	V	1507	ASP	C-N-CA	8.82	138.39	121.54
2	G	401	ALA	N-CA-CB	8.82	123.08	109.94
1	L	403	ILE	CA-C-O	8.82	131.81	120.78
5	K	1343	ASN	CA-C-N	8.82	131.91	120.44
5	K	1343	ASN	C-N-CA	8.82	131.91	120.44
4	D	503	ASP	CA-C-N	-8.82	111.38	122.84
4	D	503	ASP	C-N-CA	-8.82	111.38	122.84
2	Y	322	ALA	O-C-N	8.81	131.46	122.12
4	V	241	LEU	N-CA-C	8.81	120.50	111.07
2	S	322	ALA	O-C-N	8.81	131.46	122.12
2	M	322	ALA	O-C-N	8.81	131.46	122.12
4	V	503	ASP	CA-C-N	-8.81	111.39	122.84
4	V	503	ASP	C-N-CA	-8.81	111.39	122.84
3	N	369	GLY	CA-C-N	8.81	132.42	120.44
3	N	369	GLY	C-N-CA	8.81	132.42	120.44
4	D	241	LEU	N-CA-C	8.80	120.49	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	454	TYR	O-C-N	8.80	134.30	122.59
4	P	503	ASP	CA-C-N	-8.80	111.40	122.84
4	P	503	ASP	C-N-CA	-8.80	111.40	122.84
4	D	879	LEU	N-CA-C	8.79	122.02	111.82
2	Y	256	GLU	N-CA-C	-8.79	100.56	111.11
4	J	1480	VAL	CA-C-O	-8.79	111.85	121.17
4	J	503	ASP	CA-C-N	-8.79	111.42	122.84
4	J	503	ASP	C-N-CA	-8.79	111.42	122.84
5	E	1343	ASN	CA-C-N	8.78	131.85	120.44
5	E	1343	ASN	C-N-CA	8.78	131.85	120.44
1	X	464	LYS	O-C-N	8.78	134.26	122.59
2	S	381	THR	N-CA-C	8.78	129.21	109.81
3	Z	474	ILE	N-CA-CB	8.77	122.47	110.54
3	Z	369	GLY	CA-C-N	8.77	132.37	120.44
3	Z	369	GLY	C-N-CA	8.77	132.37	120.44
1	L	415	ASP	O-C-N	8.77	131.41	122.12
3	N	413	LEU	O-C-N	-8.77	112.62	122.09
3	T	369	GLY	CA-C-N	8.76	132.36	120.44
3	T	369	GLY	C-N-CA	8.76	132.36	120.44
3	T	474	ILE	N-CA-CB	8.76	122.46	110.54
4	D	1415	GLN	N-CA-C	-8.76	101.85	112.54
1	L	464	LYS	O-C-N	8.76	134.24	122.59
4	P	1415	GLN	N-CA-C	-8.76	101.86	112.54
4	V	879	LEU	N-CA-C	8.75	121.97	111.82
3	H	474	ILE	N-CA-CB	8.75	122.44	110.54
5	W	1343	ASN	CA-C-N	8.75	131.81	120.44
5	W	1343	ASN	C-N-CA	8.75	131.81	120.44
4	J	1507	ASP	CA-C-N	8.74	138.24	121.54
4	J	1507	ASP	C-N-CA	8.74	138.24	121.54
1	X	367	THR	CA-C-O	-8.74	108.47	119.31
2	S	256	GLU	N-CA-C	-8.74	100.62	111.11
3	H	369	GLY	CA-C-N	8.74	132.32	120.44
3	H	369	GLY	C-N-CA	8.74	132.32	120.44
3	H	366	ILE	CB-CA-C	-8.74	100.79	111.97
1	R	454	TYR	O-C-N	8.73	134.20	122.59
3	T	414	VAL	O-C-N	-8.73	112.84	121.83
1	R	305	ASP	O-C-N	8.72	130.67	121.42
3	Z	413	LEU	O-C-N	-8.72	112.67	122.09
1	F	305	ASP	O-C-N	8.72	130.66	121.42
1	F	464	LYS	O-C-N	8.72	134.19	122.59
2	M	331	THR	N-CA-C	8.72	125.54	113.16
3	N	415	LYS	CA-C-N	-8.71	107.28	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	415	LYS	C-N-CA	-8.71	107.28	122.79
2	S	338	GLU	CB-CA-C	8.71	123.25	111.14
4	J	1415	GLN	N-CA-C	-8.71	101.91	112.54
4	P	1517	SER	CA-C-O	-8.71	110.83	121.02
1	F	447	VAL	CA-C-O	8.71	130.71	121.05
4	J	1609	ILE	N-CA-CB	8.70	115.98	110.50
3	T	415	LYS	CA-C-N	-8.70	107.30	122.79
3	T	415	LYS	C-N-CA	-8.70	107.30	122.79
4	V	1415	GLN	N-CA-C	-8.70	101.93	112.54
2	G	331	THR	N-CA-C	8.69	125.50	113.16
3	Z	372	ILE	CA-C-N	8.69	132.44	120.63
3	Z	372	ILE	C-N-CA	8.69	132.44	120.63
1	R	447	VAL	CA-C-O	8.69	130.69	121.05
3	H	415	LYS	CA-C-N	-8.68	107.34	122.79
3	H	415	LYS	C-N-CA	-8.68	107.34	122.79
4	V	1532	ASP	CA-C-N	-8.68	107.97	120.29
4	V	1532	ASP	C-N-CA	-8.68	107.97	120.29
4	D	1517	SER	CA-C-O	-8.68	110.87	121.02
1	X	305	ASP	O-C-N	8.67	130.61	121.42
2	Y	338	GLU	CB-CA-C	8.67	123.19	111.14
3	Z	414	VAL	O-C-N	-8.67	112.90	121.83
2	M	346	PHE	N-CA-CB	8.67	122.64	110.07
1	X	447	VAL	CA-C-O	8.66	130.66	121.05
3	N	366	ILE	CB-CA-C	-8.65	100.89	111.97
2	G	338	GLU	CB-CA-C	8.65	123.17	111.14
3	T	403	LEU	N-CA-C	-8.65	102.16	112.89
2	S	346	PHE	N-CA-CB	8.65	122.61	110.07
2	G	346	PHE	N-CA-CB	8.65	122.61	110.07
3	H	403	LEU	N-CA-C	-8.65	102.17	112.89
2	Y	331	THR	N-CA-C	8.65	125.44	113.16
3	T	413	LEU	O-C-N	-8.65	112.75	122.09
4	V	1480	VAL	CA-C-O	-8.64	112.01	121.17
2	S	332	PRO	CA-C-N	8.64	130.64	119.84
2	S	332	PRO	C-N-CA	8.64	130.64	119.84
3	T	381	LYS	CA-C-O	-8.64	110.03	119.97
3	H	372	ILE	CA-C-N	8.63	132.37	120.63
3	H	372	ILE	C-N-CA	8.63	132.37	120.63
3	T	370	GLU	N-CA-CB	8.63	122.59	110.07
3	H	414	VAL	O-C-N	-8.63	112.94	121.83
3	T	366	ILE	CA-C-O	8.63	130.31	121.17
3	H	413	LEU	O-C-N	-8.62	112.78	122.09
3	Z	366	ILE	CB-CA-C	-8.62	100.93	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	P	1480	VAL	CA-C-O	-8.62	112.03	121.17
4	J	1517	SER	CA-C-O	-8.62	110.93	121.02
3	T	366	ILE	CB-CA-C	-8.62	100.94	111.97
3	N	370	GLU	N-CA-CB	8.61	122.56	110.07
1	F	489	LYS	N-CA-C	-8.61	101.83	111.82
1	X	452	ARG	CA-C-N	8.61	137.99	121.54
1	X	452	ARG	C-N-CA	8.61	137.99	121.54
3	Z	366	ILE	CA-C-O	8.61	130.30	121.17
3	N	372	ILE	CA-C-N	8.61	132.34	120.63
3	N	372	ILE	C-N-CA	8.61	132.34	120.63
3	N	414	VAL	O-C-N	-8.61	112.96	121.83
3	T	372	ILE	CA-C-N	8.61	132.34	120.63
3	T	372	ILE	C-N-CA	8.61	132.34	120.63
1	R	452	ARG	CA-C-N	8.61	137.99	121.54
1	R	452	ARG	C-N-CA	8.61	137.99	121.54
3	H	405	ASP	N-CA-CB	8.60	122.47	109.91
3	N	405	ASP	N-CA-CB	8.60	122.47	109.91
3	Z	405	ASP	N-CA-CB	8.60	122.47	109.91
1	R	467	LEU	N-CA-C	8.60	122.87	112.38
1	F	467	LEU	N-CA-C	8.60	122.87	112.38
4	D	1480	VAL	CA-C-O	-8.60	112.06	121.17
1	L	447	VAL	CA-C-O	8.60	130.59	121.05
1	F	452	ARG	CA-C-N	8.59	137.95	121.54
1	F	452	ARG	C-N-CA	8.59	137.95	121.54
3	Z	370	GLU	N-CA-CB	8.59	122.52	110.07
2	S	331	THR	N-CA-C	8.58	125.35	113.16
1	X	489	LYS	N-CA-C	-8.58	101.86	111.82
2	Y	346	PHE	N-CA-CB	8.57	122.50	110.07
3	N	366	ILE	CA-C-O	8.57	130.26	121.17
4	D	1609	ILE	N-CA-CB	8.57	115.90	110.50
3	H	370	GLU	N-CA-CB	8.57	122.50	110.07
4	J	1532	ASP	CA-C-N	-8.57	108.12	120.29
4	J	1532	ASP	C-N-CA	-8.57	108.12	120.29
3	Z	381	LYS	CA-C-O	-8.57	110.12	119.97
4	V	1459	PHE	N-CA-CB	8.57	122.84	110.16
4	D	1536	LEU	O-C-N	-8.57	113.04	122.12
1	L	305	ASP	O-C-N	8.56	130.50	121.42
4	V	1517	SER	CA-C-O	-8.56	111.00	121.02
2	G	253	GLN	CA-C-N	-8.56	109.31	120.44
2	G	253	GLN	C-N-CA	-8.56	109.31	120.44
3	T	405	ASP	N-CA-CB	8.56	122.41	109.91
4	V	1609	ILE	N-CA-CB	8.55	115.89	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	452	ARG	CA-C-N	8.55	137.87	121.54
1	L	452	ARG	C-N-CA	8.55	137.87	121.54
2	G	249	PRO	CB-CA-C	8.54	125.66	111.56
4	P	1532	ASP	CA-C-N	-8.55	108.16	120.29
4	P	1532	ASP	C-N-CA	-8.55	108.16	120.29
1	R	464	LYS	O-C-N	8.54	133.95	122.59
4	V	1536	LEU	O-C-N	-8.54	113.07	122.12
3	N	403	LEU	N-CA-C	-8.54	102.30	112.89
2	S	253	GLN	CA-C-N	-8.54	109.34	120.44
2	S	253	GLN	C-N-CA	-8.54	109.34	120.44
2	M	338	GLU	CB-CA-C	8.53	123.00	111.14
2	S	338	GLU	CA-C-N	-8.53	108.58	121.72
2	S	338	GLU	C-N-CA	-8.53	108.58	121.72
3	Z	403	LEU	N-CA-C	-8.53	102.31	112.89
2	Y	253	GLN	CA-C-N	-8.52	109.36	120.44
2	Y	253	GLN	C-N-CA	-8.52	109.36	120.44
2	G	332	PRO	CA-C-N	8.52	130.49	119.84
2	G	332	PRO	C-N-CA	8.52	130.49	119.84
1	L	489	LYS	N-CA-C	-8.52	101.94	111.82
2	M	249	PRO	CB-CA-C	8.52	125.61	111.56
3	H	381	LYS	CA-C-O	-8.51	110.18	119.97
1	L	467	LEU	N-CA-C	8.51	122.76	112.38
4	D	1459	PHE	N-CA-CB	8.51	122.76	110.16
1	F	476	HIS	CA-C-O	-8.51	111.53	120.55
4	D	1532	ASP	CA-C-N	-8.51	108.21	120.29
4	D	1532	ASP	C-N-CA	-8.51	108.21	120.29
1	R	489	LYS	N-CA-C	-8.50	101.96	111.82
4	D	1536	LEU	CA-C-O	8.50	129.56	120.55
4	P	1536	LEU	O-C-N	-8.49	113.12	122.12
4	J	1536	LEU	CA-C-O	8.49	129.55	120.55
5	E	223	ASN	N-CA-C	-8.48	101.98	111.82
2	Y	332	PRO	CA-C-N	8.48	130.44	119.84
2	Y	332	PRO	C-N-CA	8.48	130.44	119.84
2	G	338	GLU	CA-C-N	-8.48	108.66	121.72
2	G	338	GLU	C-N-CA	-8.48	108.66	121.72
3	Z	408	SER	CA-C-O	-8.48	108.54	120.16
4	J	1536	LEU	O-C-N	-8.48	113.13	122.12
4	V	1536	LEU	CA-C-O	8.47	129.53	120.55
2	M	338	GLU	CA-C-N	-8.47	108.68	121.72
2	M	338	GLU	C-N-CA	-8.47	108.68	121.72
2	Y	249	PRO	CB-CA-C	8.46	125.53	111.56
2	S	249	PRO	CB-CA-C	8.46	125.53	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	467	LEU	N-CA-C	8.46	122.70	112.38
3	H	366	ILE	CA-C-O	8.45	130.13	121.17
2	M	253	GLN	CA-C-N	-8.45	109.45	120.44
2	M	253	GLN	C-N-CA	-8.45	109.45	120.44
4	P	1459	PHE	N-CA-CB	8.45	122.67	110.16
6	C	526	LEU	N-CA-C	8.44	121.61	111.82
1	X	476	HIS	CA-C-O	-8.44	111.60	120.55
3	N	497	ARG	CB-CA-C	8.44	127.22	110.42
1	R	394	GLU	O-C-N	-8.44	110.82	122.46
4	J	1459	PHE	N-CA-CB	8.44	122.65	110.16
4	P	1685	LEU	N-CA-C	-8.43	98.93	109.64
3	N	408	SER	CA-C-O	-8.43	108.61	120.16
3	T	497	ARG	CB-CA-C	8.43	127.19	110.42
6	U	526	LEU	N-CA-C	8.43	121.59	111.82
1	L	476	HIS	CA-C-O	-8.42	111.62	120.55
2	Y	338	GLU	CA-C-N	-8.42	108.75	121.72
2	Y	338	GLU	C-N-CA	-8.42	108.75	121.72
4	P	1510	GLN	O-C-N	8.42	134.66	122.28
3	N	381	LYS	CA-C-O	-8.42	110.29	119.97
6	O	526	LEU	N-CA-C	8.41	121.58	111.82
4	V	1510	GLN	O-C-N	8.41	134.64	122.28
2	M	332	PRO	CA-C-N	8.41	130.35	119.84
2	M	332	PRO	C-N-CA	8.41	130.35	119.84
3	H	497	ARG	CB-CA-C	8.41	127.15	110.42
1	R	398	LYS	N-CA-CB	8.40	124.03	110.42
5	Q	223	ASN	N-CA-C	-8.40	102.07	111.82
1	X	394	GLU	O-C-N	-8.40	110.87	122.46
6	I	526	LEU	N-CA-C	8.40	121.56	111.82
4	J	1685	LEU	N-CA-C	-8.40	98.98	109.64
4	J	1550	LEU	CA-C-N	-8.39	109.03	120.28
4	J	1550	LEU	C-N-CA	-8.39	109.03	120.28
3	T	408	SER	CA-C-O	-8.39	108.66	120.16
4	J	657	PRO	CA-C-N	8.39	132.36	120.28
4	J	657	PRO	C-N-CA	8.39	132.36	120.28
4	P	1536	LEU	CA-C-O	8.39	129.44	120.55
3	H	408	SER	CA-C-O	-8.39	108.67	120.16
3	Z	497	ARG	CB-CA-C	8.39	127.11	110.42
1	L	394	GLU	O-C-N	-8.39	110.89	122.46
4	V	1685	LEU	N-CA-C	-8.38	98.99	109.64
5	E	414	SER	CA-C-N	8.38	137.55	121.54
5	E	414	SER	C-N-CA	8.38	137.55	121.54
3	H	374	SER	N-CA-CB	-8.38	96.85	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	P	1609	ILE	N-CA-CB	8.38	115.78	110.50
1	F	394	GLU	O-C-N	-8.37	110.91	122.46
3	Z	396	ILE	N-CA-C	-8.37	100.58	111.05
5	K	414	SER	CA-C-N	8.37	137.53	121.54
5	K	414	SER	C-N-CA	8.37	137.53	121.54
4	D	1519	SER	O-C-N	8.37	133.72	122.59
2	G	348	ILE	CB-CA-C	8.37	123.77	112.22
3	N	385	ASP	CA-C-N	-8.37	107.59	120.31
3	N	385	ASP	C-N-CA	-8.37	107.59	120.31
1	L	398	LYS	N-CA-CB	8.37	123.97	110.42
2	S	348	ILE	CB-CA-C	8.36	123.76	112.22
2	Y	348	ILE	CB-CA-C	8.36	123.76	112.22
5	Q	414	SER	CA-C-N	8.35	137.49	121.54
5	Q	414	SER	C-N-CA	8.35	137.49	121.54
1	R	476	HIS	CA-C-O	-8.35	111.70	120.55
3	N	374	SER	N-CA-CB	-8.35	96.90	110.42
3	T	374	SER	N-CA-CB	-8.35	96.90	110.42
4	D	1685	LEU	N-CA-C	-8.35	99.04	109.64
1	X	455	ILE	CB-CA-C	-8.35	97.60	111.29
3	N	396	ILE	N-CA-C	-8.35	100.62	111.05
2	M	348	ILE	CB-CA-C	8.34	123.73	112.22
5	W	414	SER	CA-C-N	8.34	137.47	121.54
5	W	414	SER	C-N-CA	8.34	137.47	121.54
4	V	1519	SER	O-C-N	8.34	133.68	122.59
5	W	223	ASN	N-CA-C	-8.33	102.15	111.82
2	M	373	THR	N-CA-CB	8.33	122.49	110.16
3	H	363	ARG	N-CA-C	8.33	121.10	111.11
4	V	657	PRO	CA-C-N	8.33	132.27	120.28
4	V	657	PRO	C-N-CA	8.33	132.27	120.28
3	H	396	ILE	N-CA-C	-8.32	100.65	111.05
4	P	1519	SER	O-C-N	8.32	133.65	122.59
1	X	398	LYS	N-CA-CB	8.31	123.88	110.42
3	Z	374	SER	N-CA-CB	-8.31	96.96	110.42
3	T	396	ILE	N-CA-C	-8.31	100.67	111.05
2	G	366	GLU	CB-CA-C	-8.31	94.72	110.67
3	H	404	GLU	CA-C-N	8.30	131.61	120.65
3	H	404	GLU	C-N-CA	8.30	131.61	120.65
1	F	460	LEU	N-CA-C	8.30	122.37	111.75
1	F	455	ILE	CB-CA-C	-8.30	97.68	111.29
3	T	341	SER	CA-C-O	8.30	129.78	120.90
1	F	398	LYS	N-CA-CB	8.30	123.86	110.42
3	Z	341	SER	CA-C-O	8.30	129.78	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	455	ILE	CB-CA-C	-8.30	97.69	111.29
4	D	657	PRO	CA-C-N	8.30	132.23	120.28
4	D	657	PRO	C-N-CA	8.30	132.23	120.28
4	D	1550	LEU	CA-C-N	-8.29	109.17	120.28
4	D	1550	LEU	C-N-CA	-8.29	109.17	120.28
4	J	1510	GLN	O-C-N	8.29	134.47	122.28
1	F	433	GLU	CB-CA-C	-8.29	94.75	110.67
4	J	1508	LYS	O-C-N	8.29	133.61	122.59
1	X	460	LEU	N-CA-C	8.28	122.35	111.75
1	R	485	LEU	O-C-N	-8.28	109.16	122.41
5	K	223	ASN	N-CA-C	-8.29	102.21	111.82
4	V	1550	LEU	CA-C-N	-8.28	109.18	120.28
4	V	1550	LEU	C-N-CA	-8.28	109.18	120.28
1	R	433	GLU	CB-CA-C	-8.28	94.77	110.67
4	P	657	PRO	CA-C-N	8.28	132.20	120.28
4	P	657	PRO	C-N-CA	8.28	132.20	120.28
6	U	234	LEU	N-CA-C	-8.28	87.82	111.00
2	Y	366	GLU	CB-CA-C	-8.27	94.79	110.67
2	Y	373	THR	N-CA-CB	8.27	122.40	110.16
2	S	366	GLU	CB-CA-C	-8.27	94.78	110.67
3	Z	385	ASP	CA-C-N	-8.27	107.74	120.31
3	Z	385	ASP	C-N-CA	-8.27	107.74	120.31
3	N	341	SER	CA-C-O	8.27	129.75	120.90
1	R	397	ARG	N-CA-C	-8.27	102.35	111.36
2	S	373	THR	N-CA-CB	8.27	122.40	110.16
3	H	418	SER	CB-CA-C	8.27	124.06	110.92
6	O	234	LEU	N-CA-C	-8.27	87.86	111.00
3	T	418	SER	CB-CA-C	8.26	124.06	110.92
1	X	433	GLU	CB-CA-C	-8.26	94.81	110.67
3	T	385	ASP	CA-C-N	-8.26	107.75	120.31
3	T	385	ASP	C-N-CA	-8.26	107.75	120.31
4	J	1519	SER	O-C-N	8.26	133.57	122.59
4	P	1550	LEU	CA-C-N	-8.26	109.22	120.28
4	P	1550	LEU	C-N-CA	-8.26	109.22	120.28
4	D	1515	TYR	O-C-N	8.26	130.58	122.07
6	C	234	LEU	N-CA-C	-8.26	87.88	111.00
6	I	234	LEU	N-CA-C	-8.26	87.88	111.00
3	Z	418	SER	CB-CA-C	8.25	124.04	110.92
1	L	433	GLU	CB-CA-C	-8.25	94.82	110.67
3	N	418	SER	CB-CA-C	8.25	124.04	110.92
4	V	1515	TYR	O-C-N	8.24	130.56	122.07
2	G	373	THR	N-CA-CB	8.23	122.35	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	385	ASP	CA-C-N	-8.23	107.80	120.31
3	H	385	ASP	C-N-CA	-8.23	107.80	120.31
1	F	422	ASN	N-CA-C	-8.23	97.88	111.37
1	L	422	ASN	N-CA-C	-8.23	97.88	111.37
4	P	1521	TYR	CA-C-N	-8.22	109.26	120.28
4	P	1521	TYR	C-N-CA	-8.22	109.26	120.28
3	N	404	GLU	CA-C-N	8.22	131.50	120.65
3	N	404	GLU	C-N-CA	8.22	131.50	120.65
4	J	1521	TYR	CA-C-N	-8.22	109.26	120.28
4	J	1521	TYR	C-N-CA	-8.22	109.26	120.28
2	G	270	GLU	N-CA-C	-8.22	102.40	111.36
1	L	455	ILE	CB-CA-C	-8.21	97.82	111.29
1	L	460	LEU	N-CA-C	8.21	122.26	111.75
1	L	485	LEU	O-C-N	-8.21	109.28	122.41
1	F	485	LEU	O-C-N	-8.21	109.28	122.41
4	P	1508	LYS	O-C-N	8.20	133.50	122.59
4	D	1521	TYR	CA-C-N	-8.20	109.30	120.28
4	D	1521	TYR	C-N-CA	-8.20	109.30	120.28
1	F	397	ARG	N-CA-C	-8.20	102.43	111.36
2	M	366	GLU	CB-CA-C	-8.20	94.94	110.67
3	H	341	SER	CA-C-O	8.19	129.66	120.90
2	Y	339	TYR	N-CA-C	8.19	120.91	107.23
1	R	460	LEU	N-CA-C	8.19	122.23	111.75
4	P	1515	TYR	O-C-N	8.19	130.50	122.07
1	X	485	LEU	O-C-N	-8.19	109.31	122.41
3	T	363	ARG	N-CA-C	8.19	120.94	111.11
1	X	461	ARG	O-C-N	-8.18	111.70	122.59
2	Y	270	GLU	N-CA-C	-8.18	102.44	111.36
3	Z	404	GLU	CA-C-N	8.18	131.44	120.65
3	Z	404	GLU	C-N-CA	8.18	131.44	120.65
3	Z	363	ARG	N-CA-C	8.17	120.92	111.11
3	N	363	ARG	N-CA-C	8.17	120.92	111.11
3	Z	391	GLN	N-CA-C	-8.17	102.32	111.71
1	R	422	ASN	N-CA-C	-8.16	97.98	111.37
4	D	1508	LYS	O-C-N	8.16	133.44	122.59
1	X	397	ARG	N-CA-C	-8.16	102.47	111.36
4	V	1521	TYR	CA-C-N	-8.16	109.35	120.28
4	V	1521	TYR	C-N-CA	-8.16	109.35	120.28
2	M	339	TYR	N-CA-C	8.16	120.85	107.23
3	N	385	ASP	O-C-N	8.16	130.47	122.07
1	L	397	ARG	N-CA-C	-8.15	102.47	111.36
4	V	1547	LEU	CA-C-N	-8.14	109.36	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	1547	LEU	C-N-CA	-8.14	109.36	120.44
1	R	461	ARG	O-C-N	-8.14	111.76	122.59
4	V	1508	LYS	O-C-N	8.14	133.42	122.59
4	J	1515	TYR	O-C-N	8.14	130.46	122.07
1	X	348	GLN	CA-C-N	-8.13	108.74	120.29
1	X	348	GLN	C-N-CA	-8.13	108.74	120.29
1	X	422	ASN	N-CA-C	-8.13	98.03	111.37
4	J	1537	GLN	N-CA-C	8.12	120.22	111.36
3	T	404	GLU	CA-C-N	8.12	131.37	120.65
3	T	404	GLU	C-N-CA	8.12	131.37	120.65
4	P	1547	LEU	CA-C-N	-8.12	109.40	120.44
4	P	1547	LEU	C-N-CA	-8.12	109.40	120.44
2	G	339	TYR	N-CA-C	8.11	120.78	107.23
4	P	878	PRO	N-CA-C	8.12	123.22	111.13
1	F	143	GLN	N-CA-C	-8.11	102.95	113.17
1	L	461	ARG	O-C-N	-8.11	111.81	122.59
2	M	261	PHE	N-CA-C	-8.10	102.45	111.28
2	M	270	GLU	N-CA-C	-8.10	102.53	111.36
2	S	339	TYR	N-CA-C	8.10	120.76	107.23
1	F	348	GLN	CA-C-N	-8.09	108.80	120.29
1	F	348	GLN	C-N-CA	-8.09	108.80	120.29
1	R	403	ILE	N-CA-C	8.09	126.17	109.34
3	H	385	ASP	O-C-N	8.09	130.40	122.07
3	Z	385	ASP	O-C-N	8.09	130.40	122.07
4	P	1537	GLN	N-CA-C	8.09	120.18	111.36
4	V	1537	GLN	N-CA-C	8.09	120.18	111.36
4	J	1547	LEU	CA-C-N	-8.09	109.44	120.44
4	J	1547	LEU	C-N-CA	-8.09	109.44	120.44
1	L	403	ILE	N-CA-C	8.09	126.16	109.34
1	R	348	GLN	CA-C-N	-8.09	108.81	120.29
1	R	348	GLN	C-N-CA	-8.09	108.81	120.29
4	V	878	PRO	N-CA-C	8.09	123.18	111.13
3	T	385	ASP	O-C-N	8.08	130.40	122.07
2	S	261	PHE	N-CA-C	-8.08	102.47	111.28
2	M	376	ASN	N-CA-C	-8.08	102.48	111.28
2	S	270	GLU	N-CA-C	-8.08	102.56	111.36
4	D	878	PRO	N-CA-C	8.08	123.17	111.13
4	D	1547	LEU	CA-C-N	-8.08	109.45	120.44
4	D	1547	LEU	C-N-CA	-8.08	109.45	120.44
4	J	878	PRO	N-CA-C	8.08	123.16	111.13
1	F	403	ILE	N-CA-C	8.07	126.12	109.34
1	X	403	ILE	N-CA-C	8.06	126.11	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	261	PHE	N-CA-C	-8.06	102.49	111.28
1	L	132	ASP	N-CA-CB	-8.06	97.78	110.28
3	T	391	GLN	N-CA-C	-8.06	102.44	111.71
3	H	391	GLN	N-CA-C	-8.05	102.45	111.71
3	N	391	GLN	N-CA-C	-8.05	102.45	111.71
2	G	376	ASN	N-CA-C	-8.04	102.52	111.28
1	F	461	ARG	O-C-N	-8.03	111.91	122.59
6	O	809	ALA	N-CA-C	-8.03	102.50	111.82
1	L	348	GLN	CA-C-N	-8.03	108.89	120.29
1	L	348	GLN	C-N-CA	-8.03	108.89	120.29
2	S	376	ASN	N-CA-C	-8.03	102.53	111.28
4	D	1537	GLN	N-CA-C	8.02	120.11	111.36
2	M	379	HIS	N-CA-C	8.02	127.88	110.80
1	F	132	ASP	N-CA-CB	-8.02	97.86	110.28
1	X	132	ASP	N-CA-CB	-8.02	97.86	110.28
1	R	487	ASP	CA-C-O	8.01	129.18	119.49
1	X	483	ASP	N-CA-C	8.01	122.00	111.75
2	G	379	HIS	N-CA-C	8.01	127.85	110.80
1	X	401	TYR	CA-C-O	8.01	131.96	120.51
1	R	132	ASP	N-CA-CB	-8.01	97.87	110.28
1	R	143	GLN	N-CA-C	-8.01	103.08	113.17
4	P	1531	GLU	CA-C-O	-8.01	109.80	119.49
1	X	299	ASN	N-CA-C	-8.00	92.13	109.81
2	Y	261	PHE	N-CA-C	-8.00	102.56	111.28
1	X	487	ASP	CA-C-O	8.00	129.17	119.49
1	L	143	GLN	N-CA-C	-8.00	103.09	113.17
2	S	352	GLN	CB-CA-C	-7.99	97.52	110.79
1	F	299	ASN	N-CA-C	-7.99	92.15	109.81
1	L	401	TYR	CA-C-O	7.99	131.94	120.51
4	D	1504	VAL	N-CA-CB	7.99	123.08	110.54
1	R	483	ASP	N-CA-C	7.99	121.97	111.75
1	L	299	ASN	N-CA-C	-7.98	92.17	109.81
2	S	379	HIS	N-CA-C	7.98	127.80	110.80
1	R	299	ASN	N-CA-C	-7.98	92.18	109.81
1	X	143	GLN	N-CA-C	-7.97	103.12	113.17
4	V	1448	MET	CA-C-N	7.97	136.77	121.54
4	V	1448	MET	C-N-CA	7.97	136.77	121.54
4	V	1531	GLU	CA-C-O	-7.97	109.84	119.49
4	D	1531	GLU	CA-C-O	-7.97	109.84	119.49
4	P	1448	MET	CA-C-N	7.97	136.76	121.54
4	P	1448	MET	C-N-CA	7.97	136.76	121.54
4	D	1448	MET	CA-C-N	7.96	136.75	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	D	1448	MET	C-N-CA	7.96	136.75	121.54
2	Y	379	HIS	N-CA-C	7.96	127.75	110.80
2	M	352	GLN	CB-CA-C	-7.95	97.59	110.79
1	F	487	ASP	CA-C-O	7.95	129.11	119.49
4	J	1448	MET	CA-C-N	7.95	136.72	121.54
4	J	1448	MET	C-N-CA	7.95	136.72	121.54
4	J	1504	VAL	N-CA-CB	7.94	123.01	110.54
4	J	1531	GLU	CA-C-O	-7.94	109.88	119.49
2	G	352	GLN	CB-CA-C	-7.93	97.62	110.79
4	P	1504	VAL	N-CA-CB	7.93	122.99	110.54
4	V	1504	VAL	N-CA-CB	7.93	122.99	110.54
3	N	407	LEU	N-CA-CB	7.92	123.54	110.39
2	G	324	ILE	CB-CA-C	-7.92	93.80	111.77
1	X	330	PHE	N-CA-C	7.92	121.06	111.40
2	Y	376	ASN	N-CA-C	-7.92	102.65	111.28
1	L	483	ASP	N-CA-C	7.92	121.88	111.75
1	L	330	PHE	N-CA-C	7.91	121.05	111.40
1	F	320	GLU	CB-CA-C	7.91	125.61	109.55
1	L	320	GLU	CB-CA-C	7.91	125.60	109.55
1	L	487	ASP	CA-C-O	7.91	129.06	119.49
6	I	809	ALA	N-CA-C	-7.91	102.65	111.82
3	T	407	LEU	N-CA-CB	7.90	123.51	110.39
1	F	455	ILE	O-C-N	-7.90	112.69	122.57
4	P	320	TRP	CB-CA-C	-7.90	100.26	111.80
6	C	809	ALA	N-CA-C	-7.90	102.65	111.82
4	P	1503	ILE	N-CA-C	-7.90	102.56	110.62
4	J	1503	ILE	N-CA-C	-7.90	102.56	110.62
1	F	330	PHE	N-CA-C	7.90	121.04	111.40
2	S	324	ILE	CB-CA-C	-7.90	93.85	111.77
1	F	401	TYR	CA-C-O	7.89	131.80	120.51
4	V	1503	ILE	N-CA-C	-7.89	102.57	110.62
1	R	330	PHE	N-CA-C	7.89	121.03	111.40
2	Y	352	GLN	CB-CA-C	-7.89	97.69	110.79
3	T	498	LYS	N-CA-CB	7.89	122.37	110.22
1	R	401	TYR	CA-C-O	7.88	131.79	120.51
4	D	1521	TYR	O-C-N	7.88	131.14	122.15
3	T	415	LYS	N-CA-CB	7.88	122.00	110.57
6	U	809	ALA	N-CA-C	-7.88	102.68	111.82
3	H	407	LEU	N-CA-CB	7.88	123.47	110.39
2	Y	324	ILE	CB-CA-C	-7.88	93.89	111.77
1	X	320	GLU	CB-CA-C	7.87	125.53	109.55
3	N	415	LYS	N-CA-CB	7.87	121.99	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	324	ILE	CB-CA-C	-7.87	93.92	111.77
6	C	486	ARG	N-CA-C	-7.86	102.71	111.28
1	F	483	ASP	N-CA-C	7.86	121.81	111.75
1	R	320	GLU	CB-CA-C	7.86	125.51	109.55
1	R	455	ILE	O-C-N	-7.86	112.75	122.57
6	U	486	ARG	N-CA-C	-7.84	102.73	111.28
1	L	455	ILE	O-C-N	-7.84	112.77	122.57
1	X	455	ILE	O-C-N	-7.84	112.77	122.57
4	V	320	TRP	CB-CA-C	-7.84	100.36	111.80
3	Z	407	LEU	N-CA-CB	7.84	123.40	110.39
4	D	343	LEU	N-CA-C	-7.83	98.49	110.32
2	G	323	GLU	N-CA-C	7.83	120.90	111.82
3	H	498	LYS	N-CA-CB	7.83	122.27	110.22
6	U	217	ASP	N-CA-C	-7.83	103.62	113.01
3	N	498	LYS	N-CA-CB	7.82	122.26	110.22
6	C	341	ALA	N-CA-C	7.82	120.79	111.33
4	P	1521	TYR	O-C-N	7.82	131.06	122.15
4	D	320	TRP	CB-CA-C	-7.82	100.39	111.80
6	O	217	ASP	N-CA-C	-7.81	103.63	113.01
4	V	343	LEU	N-CA-C	-7.81	98.53	110.32
2	M	361	ARG	CA-C-O	-7.81	112.14	120.42
6	I	341	ALA	N-CA-C	7.81	120.78	111.33
4	D	1503	ILE	N-CA-C	-7.81	102.66	110.62
1	L	428	LYS	CA-C-N	-7.80	111.44	119.94
1	L	428	LYS	C-N-CA	-7.80	111.44	119.94
4	P	343	LEU	N-CA-C	-7.80	98.55	110.32
4	J	320	TRP	CB-CA-C	-7.80	100.42	111.80
1	X	428	LYS	CA-C-N	-7.79	111.44	119.94
1	X	428	LYS	C-N-CA	-7.79	111.44	119.94
4	V	1521	TYR	O-C-N	7.79	131.03	122.15
6	U	341	ALA	N-CA-C	7.79	120.75	111.33
6	C	217	ASP	N-CA-C	-7.79	103.67	113.01
2	Y	361	ARG	CA-C-O	-7.78	112.17	120.42
2	S	361	ARG	CA-C-O	-7.78	112.17	120.42
3	Z	415	LYS	N-CA-CB	7.78	121.85	110.57
4	P	318	GLN	CA-C-N	7.77	136.38	121.54
4	P	318	GLN	C-N-CA	7.77	136.38	121.54
3	Z	498	LYS	N-CA-CB	7.77	122.18	110.22
4	V	318	GLN	CA-C-N	7.77	136.37	121.54
4	V	318	GLN	C-N-CA	7.77	136.37	121.54
3	H	415	LYS	N-CA-CB	7.76	121.82	110.57
4	J	343	LEU	N-CA-C	-7.76	98.60	110.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	323	GLU	N-CA-C	7.76	120.82	111.82
4	J	1521	TYR	O-C-N	7.75	130.99	122.15
3	Z	366	ILE	N-CA-C	-7.75	102.98	110.42
6	I	217	ASP	N-CA-C	-7.74	103.72	113.01
2	Y	347	ARG	N-CA-C	-7.74	103.10	112.54
1	R	448	ARG	CA-C-N	-7.74	106.76	121.54
1	R	448	ARG	C-N-CA	-7.74	106.76	121.54
4	P	1534	ARG	CA-C-N	7.73	130.64	120.28
4	P	1534	ARG	C-N-CA	7.73	130.64	120.28
1	X	448	ARG	CA-C-N	-7.73	106.77	121.54
1	X	448	ARG	C-N-CA	-7.73	106.77	121.54
4	D	318	GLN	CA-C-N	7.73	136.30	121.54
4	D	318	GLN	C-N-CA	7.73	136.30	121.54
1	L	475	SER	N-CA-CB	7.72	121.47	110.12
6	I	486	ARG	N-CA-C	-7.72	102.87	111.28
2	Y	323	GLU	N-CA-C	7.71	120.77	111.82
2	S	323	GLU	N-CA-C	7.71	120.77	111.82
2	S	347	ARG	N-CA-C	-7.71	103.13	112.54
3	T	410	LEU	CA-C-N	7.71	136.27	121.54
3	T	410	LEU	C-N-CA	7.71	136.27	121.54
4	J	1510	GLN	CA-C-O	7.71	129.41	120.00
2	G	361	ARG	CA-C-O	-7.71	112.25	120.42
1	L	448	ARG	CA-C-N	-7.71	106.81	121.54
1	L	448	ARG	C-N-CA	-7.71	106.81	121.54
2	S	327	ARG	N-CA-C	7.70	127.21	110.80
3	T	473	GLN	N-CA-CB	7.70	121.17	110.01
1	F	405	ALA	CA-C-N	7.70	131.61	120.38
1	F	405	ALA	C-N-CA	7.70	131.61	120.38
1	F	448	ARG	CA-C-N	-7.69	106.84	121.54
1	F	448	ARG	C-N-CA	-7.69	106.84	121.54
3	Z	410	LEU	CA-C-N	7.69	136.24	121.54
3	Z	410	LEU	C-N-CA	7.69	136.24	121.54
3	H	410	LEU	CA-C-N	7.69	136.22	121.54
3	H	410	LEU	C-N-CA	7.69	136.22	121.54
3	T	404	GLU	N-CA-C	7.69	121.15	111.69
3	N	366	ILE	N-CA-C	-7.68	103.04	110.42
3	N	410	LEU	CA-C-N	7.68	136.22	121.54
3	N	410	LEU	C-N-CA	7.68	136.22	121.54
2	Y	366	GLU	N-CA-C	7.68	120.73	111.82
4	J	318	GLN	CA-C-N	7.68	136.21	121.54
4	J	318	GLN	C-N-CA	7.68	136.21	121.54
3	Z	377	ARG	CA-C-N	-7.68	107.89	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Z	377	ARG	C-N-CA	-7.68	107.89	120.72
4	V	1510	GLN	CA-C-O	7.68	129.37	120.00
2	G	347	ARG	N-CA-C	-7.67	103.18	112.54
1	X	405	ALA	CA-C-N	7.67	131.58	120.38
1	X	405	ALA	C-N-CA	7.67	131.58	120.38
2	M	327	ARG	N-CA-C	7.67	127.14	110.80
6	O	341	ALA	N-CA-C	7.67	120.61	111.33
1	R	405	ALA	CA-C-N	7.67	131.58	120.38
1	R	405	ALA	C-N-CA	7.67	131.58	120.38
4	D	1534	ARG	CA-C-N	7.67	130.56	120.28
4	D	1534	ARG	C-N-CA	7.67	130.56	120.28
4	V	1534	ARG	CA-C-N	7.67	130.56	120.28
4	V	1534	ARG	C-N-CA	7.67	130.56	120.28
6	O	486	ARG	N-CA-C	-7.66	102.93	111.28
2	G	327	ARG	N-CA-C	7.66	127.11	110.80
2	Y	327	ARG	N-CA-C	7.66	127.11	110.80
3	N	466	ASP	CA-C-N	7.65	131.30	120.28
3	N	466	ASP	C-N-CA	7.65	131.30	120.28
3	N	473	GLN	N-CA-CB	7.65	121.11	110.01
1	F	426	GLN	CA-C-O	-7.65	112.31	120.42
3	H	366	ILE	N-CA-C	-7.65	103.08	110.42
2	M	343	ALA	CA-C-N	7.64	136.14	121.54
2	M	343	ALA	C-N-CA	7.64	136.14	121.54
3	T	366	ILE	N-CA-C	-7.64	103.08	110.42
4	P	1687	GLY	N-CA-C	-7.64	103.56	112.73
2	S	343	ALA	CA-C-N	7.64	136.13	121.54
2	S	343	ALA	C-N-CA	7.64	136.13	121.54
3	Z	404	GLU	N-CA-C	7.64	121.08	111.69
4	J	1687	GLY	N-CA-C	-7.64	103.57	112.73
1	F	428	LYS	CA-C-N	-7.63	111.62	119.94
1	F	428	LYS	C-N-CA	-7.63	111.62	119.94
4	D	1687	GLY	N-CA-C	-7.63	103.57	112.73
1	L	426	GLN	CA-C-O	-7.63	112.33	120.42
2	G	343	ALA	CA-C-N	7.63	136.11	121.54
2	G	343	ALA	C-N-CA	7.63	136.11	121.54
2	G	366	GLU	N-CA-C	7.63	120.67	111.82
1	R	428	LYS	CA-C-N	-7.63	111.62	119.94
1	R	428	LYS	C-N-CA	-7.63	111.62	119.94
3	T	377	ARG	CA-C-N	-7.63	107.98	120.72
3	T	377	ARG	C-N-CA	-7.63	107.98	120.72
1	L	492	GLU	N-CA-CB	7.62	123.38	110.49
3	H	473	GLN	N-CA-CB	7.62	121.06	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	405	ALA	CA-C-N	7.62	131.51	120.38
1	L	405	ALA	C-N-CA	7.62	131.51	120.38
4	J	1534	ARG	CA-C-N	7.62	130.49	120.28
4	J	1534	ARG	C-N-CA	7.62	130.49	120.28
4	V	1687	GLY	N-CA-C	-7.62	103.59	112.73
3	H	377	ARG	CA-C-N	-7.61	108.00	120.72
3	H	377	ARG	C-N-CA	-7.61	108.00	120.72
4	J	241	LEU	CA-C-N	-7.61	109.99	120.57
4	J	241	LEU	C-N-CA	-7.61	109.99	120.57
3	H	404	GLU	N-CA-C	7.61	121.05	111.69
1	F	492	GLU	N-CA-CB	7.61	123.34	110.49
1	R	426	GLN	CA-C-O	-7.60	112.36	120.42
3	T	466	ASP	CA-C-N	7.60	131.23	120.28
3	T	466	ASP	C-N-CA	7.60	131.23	120.28
3	N	377	ARG	CA-C-N	-7.60	108.03	120.72
3	N	377	ARG	C-N-CA	-7.60	108.03	120.72
4	D	241	LEU	CA-C-N	-7.60	110.00	120.57
4	D	241	LEU	C-N-CA	-7.60	110.00	120.57
1	X	475	SER	N-CA-CB	7.60	121.29	110.12
6	C	455	VAL	N-CA-C	-7.59	89.75	111.00
5	W	395	GLY	CA-C-N	7.59	136.03	121.54
5	W	395	GLY	C-N-CA	7.59	136.03	121.54
6	O	455	VAL	N-CA-C	-7.59	89.76	111.00
2	Y	343	ALA	CA-C-N	7.58	136.03	121.54
2	Y	343	ALA	C-N-CA	7.58	136.03	121.54
1	X	426	GLN	CA-C-O	-7.58	112.38	120.42
2	M	347	ARG	N-CA-C	-7.58	103.29	112.54
6	U	455	VAL	N-CA-C	-7.58	89.77	111.00
1	R	328	VAL	N-CA-CB	-7.58	102.98	112.15
3	H	466	ASP	CA-C-N	7.58	131.19	120.28
3	H	466	ASP	C-N-CA	7.58	131.19	120.28
1	X	457	ALA	CA-C-N	-7.58	107.07	121.54
1	X	457	ALA	C-N-CA	-7.58	107.07	121.54
6	I	455	VAL	N-CA-C	-7.58	89.79	111.00
4	V	1540	LEU	N-CA-C	7.57	119.61	111.36
1	L	457	ALA	CA-C-N	-7.57	107.08	121.54
1	L	457	ALA	C-N-CA	-7.57	107.08	121.54
2	M	366	GLU	N-CA-C	7.57	120.60	111.82
1	R	320	GLU	N-CA-CB	7.57	122.25	110.44
1	R	492	GLU	N-CA-CB	7.57	123.28	110.49
1	R	457	ALA	CA-C-N	-7.57	107.09	121.54
1	R	457	ALA	C-N-CA	-7.57	107.09	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	492	GLU	N-CA-CB	7.56	123.27	110.49
4	P	1510	GLN	CA-C-O	7.56	129.23	120.00
3	Z	473	GLN	N-CA-CB	7.56	120.97	110.01
3	N	468	SER	N-CA-CB	7.56	122.72	110.40
3	Z	468	SER	N-CA-CB	7.55	122.71	110.40
1	F	328	VAL	N-CA-CB	-7.55	103.01	112.15
1	R	475	SER	N-CA-CB	7.55	121.22	110.12
3	T	468	SER	N-CA-CB	7.55	122.71	110.40
3	Z	466	ASP	CA-C-N	7.55	131.15	120.28
3	Z	466	ASP	C-N-CA	7.55	131.15	120.28
2	S	366	GLU	N-CA-C	7.55	120.58	111.82
3	H	428	GLU	CA-C-N	-7.55	107.81	121.62
3	H	428	GLU	C-N-CA	-7.55	107.81	121.62
5	W	235	LEU	N-CA-C	7.55	120.84	108.99
3	N	404	GLU	N-CA-C	7.54	120.97	111.69
1	F	391	ILE	N-CA-CB	7.54	120.80	110.54
3	N	428	GLU	CA-C-N	-7.54	107.82	121.62
3	N	428	GLU	C-N-CA	-7.54	107.82	121.62
5	K	395	GLY	CA-C-N	7.54	135.95	121.54
5	K	395	GLY	C-N-CA	7.54	135.95	121.54
3	Z	413	LEU	CA-C-N	7.54	131.13	120.42
3	Z	413	LEU	C-N-CA	7.54	131.13	120.42
3	T	413	LEU	CA-C-N	7.54	131.12	120.42
3	T	413	LEU	C-N-CA	7.54	131.12	120.42
4	V	241	LEU	CA-C-N	-7.53	110.10	120.57
4	V	241	LEU	C-N-CA	-7.53	110.10	120.57
5	Q	395	GLY	CA-C-N	7.53	135.93	121.54
5	Q	395	GLY	C-N-CA	7.53	135.93	121.54
4	J	1509	GLN	O-C-N	7.53	130.73	122.15
4	J	1544	PRO	CA-C-O	7.53	131.47	120.56
3	H	413	LEU	CA-C-N	7.52	131.10	120.42
3	H	413	LEU	C-N-CA	7.52	131.10	120.42
4	J	1540	LEU	N-CA-C	7.52	119.56	111.36
5	K	235	LEU	N-CA-C	7.52	120.80	108.99
1	F	457	ALA	CA-C-N	-7.52	107.18	121.54
1	F	457	ALA	C-N-CA	-7.52	107.18	121.54
1	X	328	VAL	N-CA-CB	-7.52	103.06	112.15
1	F	320	GLU	N-CA-CB	7.51	122.16	110.44
2	Y	254	ASP	N-CA-C	7.51	119.11	111.07
3	H	468	SER	N-CA-CB	7.51	122.64	110.40
2	G	254	ASP	N-CA-C	7.50	119.10	111.07
4	V	1544	PRO	CA-C-O	7.50	131.44	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	D	1544	PRO	CA-C-O	7.50	131.44	120.56
5	E	398	ALA	N-CA-C	7.50	119.10	111.07
1	R	343	MET	CB-CA-C	-7.50	98.10	110.85
4	D	1484	ASP	N-CA-C	-7.50	103.10	111.28
5	E	395	GLY	CA-C-N	7.50	135.87	121.54
5	E	395	GLY	C-N-CA	7.50	135.87	121.54
1	R	433	GLU	CA-C-N	-7.50	110.25	120.44
1	R	433	GLU	C-N-CA	-7.50	110.25	120.44
1	X	320	GLU	N-CA-CB	7.49	122.13	110.44
1	X	444	PHE	CA-C-O	7.49	128.49	120.55
3	T	428	GLU	CA-C-N	-7.49	107.92	121.62
3	T	428	GLU	C-N-CA	-7.49	107.92	121.62
5	Q	235	LEU	N-CA-C	7.49	120.75	108.99
4	P	1544	PRO	CA-C-O	7.49	131.42	120.56
1	L	444	PHE	CA-C-O	7.49	128.48	120.55
1	L	320	GLU	N-CA-CB	7.48	122.11	110.44
3	N	413	LEU	CA-C-N	7.48	131.04	120.42
3	N	413	LEU	C-N-CA	7.48	131.04	120.42
4	D	1540	LEU	N-CA-C	7.48	119.52	111.36
5	K	1233	VAL	CA-C-N	-7.48	112.58	123.05
5	K	1233	VAL	C-N-CA	-7.48	112.58	123.05
1	X	343	MET	CB-CA-C	-7.48	98.14	110.85
1	L	343	MET	CB-CA-C	-7.47	98.14	110.85
5	W	398	ALA	N-CA-C	7.47	119.06	111.07
1	R	444	PHE	CA-C-O	7.47	128.47	120.55
1	F	444	PHE	CA-C-O	7.47	128.47	120.55
4	J	242	GLY	CA-C-N	7.47	131.03	120.28
4	J	242	GLY	C-N-CA	7.47	131.03	120.28
1	R	468	LYS	CA-C-N	-7.46	108.96	120.31
1	R	468	LYS	C-N-CA	-7.46	108.96	120.31
1	F	475	SER	N-CA-CB	7.46	121.09	110.12
4	P	241	LEU	CA-C-N	-7.46	110.20	120.57
4	P	241	LEU	C-N-CA	-7.46	110.20	120.57
4	P	1540	LEU	N-CA-C	7.46	119.49	111.36
4	D	1509	GLN	O-C-N	7.46	130.65	122.15
1	R	391	ILE	N-CA-CB	7.46	120.68	110.54
3	T	412	GLU	N-CA-CB	7.46	121.77	110.14
4	D	1544	PRO	CA-C-N	-7.46	112.51	119.82
4	D	1544	PRO	C-N-CA	-7.46	112.51	119.82
6	C	214	GLU	N-CA-C	7.46	119.05	111.07
1	F	343	MET	CB-CA-C	-7.45	98.19	110.85
1	L	328	VAL	N-CA-CB	-7.45	103.14	112.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Q	398	ALA	N-CA-C	7.45	119.04	111.07
5	K	398	ALA	N-CA-C	7.45	119.04	111.07
1	X	391	ILE	N-CA-CB	7.44	120.66	110.54
3	Z	428	GLU	CA-C-N	-7.44	108.00	121.62
3	Z	428	GLU	C-N-CA	-7.44	108.00	121.62
2	S	254	ASP	N-CA-C	7.44	119.03	111.07
1	X	306	PRO	CA-C-N	7.44	130.98	120.42
1	X	306	PRO	C-N-CA	7.44	130.98	120.42
6	O	214	GLU	N-CA-C	7.44	119.03	111.07
5	Q	1233	VAL	CA-C-N	-7.44	112.64	123.05
5	Q	1233	VAL	C-N-CA	-7.44	112.64	123.05
5	E	1233	VAL	CA-C-N	-7.43	112.64	123.05
5	E	1233	VAL	C-N-CA	-7.43	112.64	123.05
1	X	407	GLU	N-CA-C	7.43	119.38	111.28
6	I	233	VAL	N-CA-CB	7.43	123.49	111.23
6	U	233	VAL	N-CA-CB	7.43	123.48	111.23
5	E	235	LEU	N-CA-C	7.43	120.65	108.99
1	L	391	ILE	N-CA-CB	7.42	120.63	110.54
4	P	242	GLY	CA-C-N	7.42	130.97	120.28
4	P	242	GLY	C-N-CA	7.42	130.97	120.28
4	P	1509	GLN	O-C-N	7.42	130.61	122.15
1	L	468	LYS	CA-C-N	-7.42	109.03	120.31
1	L	468	LYS	C-N-CA	-7.42	109.03	120.31
6	C	233	VAL	N-CA-CB	7.42	123.47	111.23
3	N	412	GLU	N-CA-CB	7.42	121.71	110.14
5	Q	120	ASP	CB-CA-C	-7.42	108.03	116.63
3	H	412	GLU	N-CA-CB	7.41	121.70	110.14
1	L	433	GLU	CA-C-N	-7.41	110.36	120.44
1	L	433	GLU	C-N-CA	-7.41	110.36	120.44
2	M	380	ILE	N-CA-C	7.41	119.14	109.58
1	X	433	GLU	CA-C-N	-7.41	110.36	120.44
1	X	433	GLU	C-N-CA	-7.41	110.36	120.44
3	T	406	LEU	CA-C-N	-7.41	108.35	120.72
3	T	406	LEU	C-N-CA	-7.41	108.35	120.72
6	I	214	GLU	N-CA-C	7.41	119.00	111.07
6	O	233	VAL	N-CA-CB	7.40	123.45	111.23
1	R	453	TYR	CA-C-N	-7.40	107.41	121.54
1	R	453	TYR	C-N-CA	-7.40	107.41	121.54
2	S	380	ILE	N-CA-C	7.40	119.12	109.58
6	U	214	GLU	N-CA-C	7.40	118.98	111.07
4	J	1484	ASP	N-CA-C	-7.39	103.22	111.28
1	F	341	ASP	CB-CA-C	7.39	124.86	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	468	LYS	CA-C-N	-7.39	109.07	120.31
1	X	468	LYS	C-N-CA	-7.39	109.07	120.31
3	Z	476	LYS	N-CA-C	7.39	118.98	111.07
1	R	306	PRO	CA-C-N	7.39	130.92	120.42
1	R	306	PRO	C-N-CA	7.39	130.92	120.42
4	V	1484	ASP	N-CA-C	-7.39	103.22	111.28
2	S	390	GLN	N-CA-C	-7.39	103.25	111.82
1	F	468	LYS	CA-C-N	-7.39	109.08	120.31
1	F	468	LYS	C-N-CA	-7.39	109.08	120.31
3	N	406	LEU	CA-C-N	-7.38	108.39	120.72
3	N	406	LEU	C-N-CA	-7.38	108.39	120.72
5	W	1233	VAL	CA-C-N	-7.38	112.71	123.05
5	W	1233	VAL	C-N-CA	-7.38	112.71	123.05
4	D	242	GLY	CA-C-N	7.38	130.91	120.28
4	D	242	GLY	C-N-CA	7.38	130.91	120.28
2	M	254	ASP	N-CA-C	7.38	118.97	111.07
2	S	368	GLU	CA-C-N	-7.37	109.10	120.31
2	S	368	GLU	C-N-CA	-7.37	109.10	120.31
3	Z	406	LEU	CA-C-N	-7.37	108.41	120.72
3	Z	406	LEU	C-N-CA	-7.37	108.41	120.72
2	S	345	TYR	O-C-N	-7.37	113.20	122.27
1	F	433	GLU	CA-C-N	-7.37	110.42	120.44
1	F	433	GLU	C-N-CA	-7.37	110.42	120.44
4	D	1490	GLU	CA-C-O	7.37	131.05	120.51
1	L	398	LYS	CB-CA-C	-7.36	96.12	110.11
1	L	407	GLU	N-CA-C	7.36	119.31	111.28
1	L	341	ASP	CB-CA-C	7.36	124.81	110.67
3	H	406	LEU	CA-C-N	-7.36	108.43	120.72
3	H	406	LEU	C-N-CA	-7.36	108.43	120.72
3	Z	412	GLU	N-CA-CB	7.36	121.62	110.14
1	F	306	PRO	CA-C-N	7.36	130.87	120.42
1	F	306	PRO	C-N-CA	7.36	130.87	120.42
4	P	1490	GLU	CA-C-O	7.36	131.03	120.51
4	V	242	GLY	CA-C-N	7.36	130.88	120.28
4	V	242	GLY	C-N-CA	7.36	130.88	120.28
1	X	453	TYR	CA-C-N	-7.36	107.49	121.54
1	X	453	TYR	C-N-CA	-7.36	107.49	121.54
3	T	490	GLN	CA-C-O	7.36	127.86	119.18
6	O	704	SER	N-CA-C	-7.36	104.25	113.23
1	R	407	GLU	N-CA-C	7.35	119.29	111.28
4	P	1484	ASP	N-CA-C	-7.35	103.27	111.28
3	Z	349	ARG	CB-CA-C	-7.35	97.04	110.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	V	1478	MET	CA-C-N	-7.34	110.44	120.28
4	V	1478	MET	C-N-CA	-7.34	110.44	120.28
4	V	1509	GLN	O-C-N	7.34	130.52	122.15
4	J	1544	PRO	CA-C-N	-7.34	112.62	119.82
4	J	1544	PRO	C-N-CA	-7.34	112.62	119.82
2	Y	368	GLU	CA-C-N	-7.34	109.15	120.31
2	Y	368	GLU	C-N-CA	-7.34	109.15	120.31
1	L	306	PRO	CA-C-N	7.34	130.84	120.42
1	L	306	PRO	C-N-CA	7.34	130.84	120.42
4	V	1544	PRO	CA-C-N	-7.34	112.62	119.82
4	V	1544	PRO	C-N-CA	-7.34	112.62	119.82
5	E	828	ILE	CA-C-N	7.34	131.61	120.82
5	E	828	ILE	C-N-CA	7.34	131.61	120.82
2	G	253	GLN	O-C-N	7.34	131.77	122.23
1	X	398	LYS	CB-CA-C	-7.34	96.17	110.11
3	H	476	LYS	N-CA-C	7.34	118.92	111.07
4	P	1544	PRO	CA-C-N	-7.33	112.63	119.82
4	P	1544	PRO	C-N-CA	-7.33	112.63	119.82
4	D	1478	MET	CA-C-N	-7.33	110.46	120.28
4	D	1478	MET	C-N-CA	-7.33	110.46	120.28
3	H	384	LEU	CB-CA-C	-7.33	98.62	110.79
2	Y	253	GLN	O-C-N	7.33	131.76	122.23
6	U	704	SER	N-CA-C	-7.33	104.29	113.23
5	W	120	ASP	CB-CA-C	-7.33	108.13	116.63
2	Y	380	ILE	N-CA-C	7.32	119.03	109.58
2	Y	390	GLN	N-CA-C	-7.32	103.32	111.82
2	S	344	ASP	CB-CA-C	7.32	124.99	110.42
1	X	341	ASP	CB-CA-C	7.32	124.73	110.67
2	M	253	GLN	O-C-N	7.32	131.75	122.23
3	T	349	ARG	CB-CA-C	-7.32	97.09	110.63
1	X	429	GLY	CA-C-N	-7.32	110.49	120.44
1	X	429	GLY	C-N-CA	-7.32	110.49	120.44
3	T	476	LYS	N-CA-C	7.32	118.90	111.07
5	E	120	ASP	CB-CA-C	-7.32	108.14	116.63
2	G	368	GLU	CA-C-N	-7.31	109.19	120.31
2	G	368	GLU	C-N-CA	-7.31	109.19	120.31
3	Z	384	LEU	CB-CA-C	-7.31	98.65	110.79
2	M	344	ASP	CB-CA-C	7.31	124.97	110.42
2	S	253	GLN	O-C-N	7.31	131.74	122.23
5	K	120	ASP	CB-CA-C	-7.31	108.15	116.63
1	F	453	TYR	CA-C-N	-7.31	107.58	121.54
1	F	453	TYR	C-N-CA	-7.31	107.58	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	484	ARG	N-CA-CB	-7.31	98.08	110.50
6	U	484	ARG	N-CA-CB	-7.31	98.07	110.50
1	X	391	ILE	O-C-N	-7.31	114.78	121.87
1	F	407	GLU	N-CA-C	7.30	119.24	111.28
3	Z	490	GLN	CA-C-O	7.30	127.80	119.18
1	L	453	TYR	CA-C-N	-7.30	107.59	121.54
1	L	453	TYR	C-N-CA	-7.30	107.59	121.54
3	T	497	ARG	CA-C-N	7.30	130.80	120.28
3	T	497	ARG	C-N-CA	7.30	130.80	120.28
6	I	484	ARG	N-CA-CB	-7.30	98.09	110.50
4	P	1478	MET	CA-C-N	-7.30	110.50	120.28
4	P	1478	MET	C-N-CA	-7.30	110.50	120.28
3	N	476	LYS	N-CA-C	7.30	118.88	111.07
5	K	828	ILE	CA-C-N	7.30	131.55	120.82
5	K	828	ILE	C-N-CA	7.30	131.55	120.82
2	Y	344	ASP	CB-CA-C	7.29	124.93	110.42
4	V	1490	GLU	CA-C-O	7.29	130.94	120.51
2	G	302	GLN	N-CA-CB	7.29	120.58	110.01
1	R	341	ASP	CB-CA-C	7.29	124.66	110.67
6	I	704	SER	N-CA-C	-7.29	104.34	113.23
1	F	398	LYS	CB-CA-C	-7.29	96.27	110.11
3	N	490	GLN	CA-C-O	7.29	127.78	119.18
2	S	345	TYR	CA-C-N	7.29	130.35	120.44
2	S	345	TYR	C-N-CA	7.29	130.35	120.44
2	S	374	GLN	N-CA-C	-7.29	103.37	111.82
6	C	704	SER	N-CA-C	-7.29	104.34	113.23
3	N	384	LEU	CB-CA-C	-7.28	98.70	110.79
4	J	1478	MET	CA-C-N	-7.28	110.52	120.28
4	J	1478	MET	C-N-CA	-7.28	110.52	120.28
4	J	1490	GLU	CA-C-O	7.28	130.93	120.51
3	N	349	ARG	CB-CA-C	-7.28	97.16	110.63
1	L	391	ILE	O-C-N	-7.28	114.81	121.87
1	L	429	GLY	CA-C-N	-7.28	110.54	120.44
1	L	429	GLY	C-N-CA	-7.28	110.54	120.44
6	I	355	TYR	N-CA-C	-7.28	103.28	111.07
3	H	497	ARG	CA-C-N	7.28	130.76	120.28
3	H	497	ARG	C-N-CA	7.28	130.76	120.28
6	U	355	TYR	N-CA-C	-7.27	103.29	111.07
2	Y	322	ALA	CA-C-N	7.27	131.35	120.31
2	Y	322	ALA	C-N-CA	7.27	131.35	120.31
2	Y	345	TYR	O-C-N	-7.27	113.33	122.27
2	G	390	GLN	N-CA-C	-7.26	103.39	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Q	828	ILE	CA-C-N	7.26	131.50	120.82
5	Q	828	ILE	C-N-CA	7.26	131.50	120.82
4	P	1489	HIS	N-CA-CB	-7.26	95.97	110.64
2	G	345	TYR	O-C-N	-7.26	113.34	122.27
1	R	398	LYS	CB-CA-C	-7.26	96.32	110.11
1	R	429	GLY	CA-C-N	-7.26	110.57	120.44
1	R	429	GLY	C-N-CA	-7.26	110.57	120.44
3	T	384	LEU	CB-CA-C	-7.26	98.74	110.79
1	F	429	GLY	CA-C-N	-7.25	110.58	120.44
1	F	429	GLY	C-N-CA	-7.25	110.58	120.44
3	T	387	LYS	N-CA-C	7.25	119.18	111.28
4	P	1480	VAL	CA-C-N	7.25	129.70	120.56
4	P	1480	VAL	C-N-CA	7.25	129.70	120.56
6	C	807	THR	N-CA-C	-7.25	102.86	112.72
3	H	406	LEU	CB-CA-C	-7.25	97.89	110.72
4	D	1546	LEU	CA-C-O	7.25	128.29	120.10
6	C	484	ARG	N-CA-CB	-7.25	98.18	110.50
2	M	322	ALA	CA-C-N	7.25	131.33	120.31
2	M	322	ALA	C-N-CA	7.25	131.33	120.31
3	N	497	ARG	CA-C-N	7.25	130.72	120.28
3	N	497	ARG	C-N-CA	7.25	130.72	120.28
4	D	1480	VAL	CA-C-N	7.25	129.69	120.56
4	D	1480	VAL	C-N-CA	7.25	129.69	120.56
2	S	302	GLN	N-CA-CB	7.24	120.51	110.01
3	H	349	ARG	CB-CA-C	-7.24	97.24	110.63
2	G	344	ASP	CB-CA-C	7.24	124.82	110.42
2	S	322	ALA	CA-C-N	7.24	131.31	120.31
2	S	322	ALA	C-N-CA	7.24	131.31	120.31
2	G	380	ILE	O-C-N	-7.23	114.96	122.63
2	M	374	GLN	N-CA-C	-7.23	103.43	111.82
4	D	1413	GLY	N-CA-C	-7.23	104.05	112.73
6	O	355	TYR	N-CA-C	-7.23	103.33	111.07
2	M	345	TYR	O-C-N	-7.23	113.38	122.27
5	W	828	ILE	CA-C-N	7.23	131.44	120.82
5	W	828	ILE	C-N-CA	7.23	131.44	120.82
6	I	807	THR	N-CA-C	-7.23	102.89	112.72
1	F	391	ILE	O-C-N	-7.22	114.86	121.87
4	D	1510	GLN	CA-C-O	7.22	129.34	120.31
6	U	807	THR	N-CA-C	-7.22	102.90	112.72
3	N	406	LEU	CB-CA-C	-7.22	97.94	110.72
4	P	1469	ILE	O-C-N	7.21	128.98	121.91
4	V	1413	GLY	N-CA-C	-7.21	104.08	112.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	I	365	PRO	N-CA-C	-7.21	104.85	113.86
4	V	1480	VAL	CA-C-N	7.21	129.64	120.56
4	V	1480	VAL	C-N-CA	7.21	129.64	120.56
3	H	490	GLN	CA-C-O	7.21	127.68	119.18
2	Y	374	GLN	N-CA-C	-7.21	103.46	111.82
2	M	368	GLU	CA-C-N	-7.21	109.36	120.31
2	M	368	GLU	C-N-CA	-7.21	109.36	120.31
2	M	390	GLN	N-CA-C	-7.21	103.46	111.82
3	T	419	GLY	N-CA-C	-7.21	103.71	113.37
6	C	365	PRO	N-CA-C	-7.21	104.85	113.86
2	M	264	GLU	CB-CA-C	7.20	122.75	110.79
2	M	302	GLN	N-CA-CB	7.20	120.52	110.07
2	S	264	GLU	CB-CA-C	7.20	122.75	110.79
3	T	406	LEU	CB-CA-C	-7.20	97.97	110.72
2	G	374	GLN	N-CA-C	-7.20	103.47	111.82
3	H	419	GLY	N-CA-C	-7.20	103.72	113.37
2	Y	302	GLN	N-CA-CB	7.20	120.50	110.07
2	M	345	TYR	CA-C-N	7.20	130.23	120.44
2	M	345	TYR	C-N-CA	7.20	130.23	120.44
4	V	46	HIS	N-CA-C	-7.19	103.44	111.28
4	D	46	HIS	N-CA-C	-7.19	103.44	111.28
4	J	1480	VAL	CA-C-N	7.19	129.62	120.56
4	J	1480	VAL	C-N-CA	7.19	129.62	120.56
6	O	365	PRO	N-CA-C	-7.19	104.88	113.86
3	Z	387	LYS	N-CA-C	7.18	119.11	111.28
4	P	1413	GLY	N-CA-C	-7.18	104.11	112.73
4	J	275	LEU	CA-C-N	7.18	129.78	120.44
4	J	275	LEU	C-N-CA	7.18	129.78	120.44
3	Z	497	ARG	CA-C-N	7.18	130.62	120.28
3	Z	497	ARG	C-N-CA	7.18	130.62	120.28
5	Q	1353	CYS	N-CA-C	-7.18	105.36	112.97
2	G	322	ALA	CA-C-N	7.18	131.22	120.31
2	G	322	ALA	C-N-CA	7.18	131.22	120.31
2	G	264	GLU	CB-CA-C	7.17	122.70	110.79
3	H	351	PHE	CA-C-N	7.17	130.22	120.54
3	H	351	PHE	C-N-CA	7.17	130.22	120.54
2	M	272	ILE	CA-C-N	7.17	129.89	120.28
2	M	272	ILE	C-N-CA	7.17	129.89	120.28
4	J	46	HIS	N-CA-C	-7.17	103.46	111.28
2	G	319	LEU	O-C-N	7.17	129.72	122.12
6	O	807	THR	N-CA-C	-7.17	102.97	112.72
4	V	1489	HIS	N-CA-CB	-7.17	96.16	110.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	J	1485	ALA	N-CA-C	-7.17	95.53	110.80
4	P	1485	ALA	N-CA-C	-7.17	95.54	110.80
1	R	391	ILE	O-C-N	-7.16	114.92	121.87
6	C	355	TYR	N-CA-C	-7.16	103.41	111.07
2	G	345	TYR	CA-C-N	7.16	130.18	120.44
2	G	345	TYR	C-N-CA	7.16	130.18	120.44
3	Z	351	PHE	CA-C-N	7.16	130.21	120.54
3	Z	351	PHE	C-N-CA	7.16	130.21	120.54
1	R	405	ALA	CB-CA-C	-7.16	96.18	110.42
4	P	1546	LEU	CA-C-O	7.16	128.19	120.10
1	X	405	ALA	CB-CA-C	-7.15	96.19	110.42
6	I	479	LEU	N-CA-C	-7.15	103.53	111.82
3	Z	406	LEU	CB-CA-C	-7.15	98.07	110.72
1	L	405	ALA	CB-CA-C	-7.15	96.19	110.42
3	N	419	GLY	N-CA-C	-7.15	103.79	113.37
2	S	319	LEU	O-C-N	7.15	129.69	122.12
1	F	405	ALA	CB-CA-C	-7.14	96.21	110.42
4	P	46	HIS	N-CA-C	-7.14	103.50	111.28
4	J	1489	HIS	N-CA-CB	-7.13	96.23	110.64
3	H	408	SER	CB-CA-C	-7.13	96.13	110.17
4	D	1489	HIS	N-CA-CB	-7.13	96.24	110.64
3	H	387	LYS	N-CA-C	7.12	119.04	111.28
3	Z	419	GLY	N-CA-C	-7.12	103.83	113.37
3	T	485	LEU	CB-CA-C	-7.12	97.47	110.63
2	Y	345	TYR	CA-C-N	7.11	130.11	120.44
2	Y	345	TYR	C-N-CA	7.11	130.11	120.44
3	T	408	SER	CB-CA-C	-7.11	96.16	110.17
2	Y	264	GLU	CB-CA-C	7.11	122.60	110.79
3	T	351	PHE	CA-C-N	7.11	130.14	120.54
3	T	351	PHE	C-N-CA	7.11	130.14	120.54
5	K	1353	CYS	N-CA-C	-7.11	105.43	112.97
5	E	1353	CYS	N-CA-C	-7.11	105.43	112.97
3	N	473	GLN	CA-C-N	7.11	130.19	120.46
3	N	473	GLN	C-N-CA	7.11	130.19	120.46
2	S	341	ALA	N-CA-C	-7.11	94.11	109.81
4	V	1469	ILE	O-C-N	7.11	128.87	121.91
4	V	1485	ALA	N-CA-C	-7.11	95.67	110.80
4	J	1413	GLY	N-CA-C	-7.11	104.20	112.73
3	N	387	LYS	N-CA-C	7.10	119.02	111.28
3	N	351	PHE	CA-C-N	7.10	130.13	120.54
3	N	351	PHE	C-N-CA	7.10	130.13	120.54
2	Y	274	ARG	CA-C-N	7.10	131.10	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Y	274	ARG	C-N-CA	7.10	131.10	120.31
2	S	272	ILE	CA-C-N	7.10	129.79	120.28
2	S	272	ILE	C-N-CA	7.10	129.79	120.28
4	D	1485	ALA	N-CA-C	-7.10	95.67	110.80
1	F	321	LYS	CA-C-N	-7.09	109.29	121.85
1	F	321	LYS	C-N-CA	-7.09	109.29	121.85
1	L	321	LYS	CA-C-N	-7.09	109.29	121.85
1	L	321	LYS	C-N-CA	-7.09	109.29	121.85
3	N	408	SER	CB-CA-C	-7.09	96.19	110.17
6	U	365	PRO	N-CA-C	-7.09	104.99	113.86
5	W	1353	CYS	N-CA-C	-7.09	105.45	112.97
6	C	479	LEU	N-CA-C	-7.09	103.59	111.82
1	R	321	LYS	CA-C-N	-7.09	109.30	121.85
1	R	321	LYS	C-N-CA	-7.09	109.30	121.85
4	D	275	LEU	CA-C-N	7.09	129.66	120.44
4	D	275	LEU	C-N-CA	7.09	129.66	120.44
2	Y	352	GLN	CA-C-O	7.09	128.06	120.55
1	F	436	SER	CA-C-N	7.08	129.65	120.44
1	F	436	SER	C-N-CA	7.08	129.65	120.44
6	U	301	LEU	CA-C-N	-7.08	112.41	119.56
6	U	301	LEU	C-N-CA	-7.08	112.41	119.56
1	L	473	GLY	N-CA-C	-7.08	104.23	112.73
4	V	1546	LEU	CA-C-O	7.08	128.09	120.10
1	F	432	ASN	CA-C-N	-7.07	109.56	120.31
1	F	432	ASN	C-N-CA	-7.07	109.56	120.31
4	J	1469	ILE	O-C-N	7.07	128.84	121.91
6	O	479	LEU	N-CA-C	-7.07	103.62	111.82
3	Z	485	LEU	CB-CA-C	-7.07	97.55	110.63
2	G	272	ILE	CA-C-N	7.07	129.75	120.28
2	G	272	ILE	C-N-CA	7.07	129.75	120.28
3	H	485	LEU	CB-CA-C	-7.07	97.56	110.63
2	Y	319	LEU	O-C-N	7.07	129.61	122.12
2	M	341	ALA	N-CA-C	-7.07	94.19	109.81
3	Z	408	SER	CB-CA-C	-7.07	96.25	110.17
2	Y	341	ALA	N-CA-C	-7.06	94.21	109.81
1	F	473	GLY	N-CA-C	-7.06	104.26	112.73
1	R	432	ASN	CA-C-N	-7.06	109.58	120.31
1	R	432	ASN	C-N-CA	-7.06	109.58	120.31
4	P	275	LEU	CA-C-N	7.06	129.61	120.44
4	P	275	LEU	C-N-CA	7.06	129.61	120.44
2	G	341	ALA	N-CA-C	-7.05	94.22	109.81
3	Z	473	GLN	CA-C-N	7.05	130.12	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Z	473	GLN	C-N-CA	7.05	130.12	120.46
4	J	1546	LEU	CA-C-O	7.05	128.07	120.10
1	F	349	THR	N-CA-C	7.05	119.05	111.36
2	M	333	PRO	CA-C-N	-7.05	112.25	119.94
2	M	333	PRO	C-N-CA	-7.05	112.25	119.94
2	G	274	ARG	CA-C-N	7.05	131.02	120.31
2	G	274	ARG	C-N-CA	7.05	131.02	120.31
4	V	275	LEU	CA-C-N	7.05	129.60	120.44
4	V	275	LEU	C-N-CA	7.05	129.60	120.44
1	X	321	LYS	CA-C-N	-7.04	109.38	121.85
1	X	321	LYS	C-N-CA	-7.04	109.38	121.85
2	M	319	LEU	O-C-N	7.04	129.59	122.12
1	R	397	ARG	CB-CA-C	-7.04	98.88	110.85
6	U	479	LEU	N-CA-C	-7.04	103.65	111.82
2	M	274	ARG	CA-C-N	7.04	131.01	120.31
2	M	274	ARG	C-N-CA	7.04	131.01	120.31
3	T	473	GLN	CA-C-N	7.04	130.10	120.46
3	T	473	GLN	C-N-CA	7.04	130.10	120.46
3	N	485	LEU	CB-CA-C	-7.03	97.62	110.63
1	L	397	ARG	CB-CA-C	-7.03	98.89	110.85
4	D	1499	LEU	CA-C-O	-7.03	113.44	120.82
1	L	349	THR	N-CA-C	7.02	119.01	111.36
6	I	301	LEU	CA-C-N	-7.02	112.47	119.56
6	I	301	LEU	C-N-CA	-7.02	112.47	119.56
2	M	380	ILE	O-C-N	-7.02	114.96	122.61
1	R	436	SER	CA-C-N	7.02	129.56	120.44
1	R	436	SER	C-N-CA	7.02	129.56	120.44
4	D	1469	ILE	O-C-N	7.01	128.78	121.91
2	M	276	SER	CA-C-N	7.01	132.68	123.00
2	M	276	SER	C-N-CA	7.01	132.68	123.00
2	S	333	PRO	CA-C-N	-7.01	112.30	119.94
2	S	333	PRO	C-N-CA	-7.01	112.30	119.94
2	S	351	GLN	N-CA-C	-7.01	103.69	111.82
2	Y	272	ILE	CA-C-N	7.01	129.67	120.28
2	Y	272	ILE	C-N-CA	7.01	129.67	120.28
3	T	405	ASP	CA-C-N	-7.01	108.32	122.55
3	T	405	ASP	C-N-CA	-7.01	108.32	122.55
2	Y	276	SER	CA-C-N	7.00	132.67	123.00
2	Y	276	SER	C-N-CA	7.00	132.67	123.00
1	R	473	GLY	N-CA-C	-7.00	104.33	112.73
6	O	301	LEU	CA-C-N	-7.00	112.49	119.56
6	O	301	LEU	C-N-CA	-7.00	112.49	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	436	SER	CA-C-N	7.00	129.54	120.44
1	L	436	SER	C-N-CA	7.00	129.54	120.44
2	S	352	GLN	CA-C-O	7.00	127.97	120.55
1	X	408	GLU	CA-C-N	7.00	130.23	120.29
1	X	408	GLU	C-N-CA	7.00	130.23	120.29
4	V	1530	VAL	CA-C-O	6.99	128.26	120.85
1	F	397	ARG	CB-CA-C	-6.99	98.96	110.85
1	X	473	GLY	N-CA-C	-6.99	104.34	112.73
1	R	408	GLU	CA-C-N	6.99	130.22	120.29
1	R	408	GLU	C-N-CA	6.99	130.22	120.29
2	G	351	GLN	N-CA-C	-6.99	103.72	111.82
4	J	1552	THR	N-CA-C	6.99	119.92	111.40
2	G	352	GLN	CA-C-O	6.98	127.95	120.55
1	X	397	ARG	CB-CA-C	-6.98	98.98	110.85
2	Y	333	PRO	CA-C-N	-6.98	112.33	119.94
2	Y	333	PRO	C-N-CA	-6.98	112.33	119.94
2	S	276	SER	CA-C-N	6.98	132.64	123.00
2	S	276	SER	C-N-CA	6.98	132.64	123.00
3	Z	405	ASP	CA-C-N	-6.98	108.38	122.55
3	Z	405	ASP	C-N-CA	-6.98	108.38	122.55
1	L	432	ASN	CA-C-N	-6.98	109.70	120.31
1	L	432	ASN	C-N-CA	-6.98	109.70	120.31
6	C	301	LEU	CA-C-N	-6.98	112.51	119.56
6	C	301	LEU	C-N-CA	-6.98	112.51	119.56
6	U	214	GLU	CA-C-O	-6.98	113.50	120.82
2	S	274	ARG	CA-C-N	6.98	130.91	120.31
2	S	274	ARG	C-N-CA	6.98	130.91	120.31
1	X	436	SER	CA-C-N	6.97	129.51	120.44
1	X	436	SER	C-N-CA	6.97	129.51	120.44
3	H	473	GLN	CA-C-N	6.97	130.01	120.46
3	H	473	GLN	C-N-CA	6.97	130.01	120.46
2	S	380	ILE	O-C-N	-6.97	115.01	122.61
2	M	352	GLN	CA-C-O	6.97	127.94	120.55
2	G	333	PRO	CA-C-N	-6.97	112.35	119.94
2	G	333	PRO	C-N-CA	-6.97	112.35	119.94
2	Y	380	ILE	O-C-N	-6.97	115.02	122.61
6	C	214	GLU	CA-C-O	-6.97	113.50	120.82
3	N	353	GLN	CB-CA-C	-6.96	99.23	110.79
4	J	1538	SER	O-C-N	6.96	131.44	122.39
4	P	1538	SER	O-C-N	6.96	131.44	122.39
1	F	399	SER	CB-CA-C	-6.96	96.57	110.42
3	H	405	ASP	CA-C-N	-6.96	108.42	122.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	405	ASP	C-N-CA	-6.96	108.42	122.55
3	Z	353	GLN	CB-CA-C	-6.96	99.24	110.79
3	Z	476	LYS	CA-C-N	6.95	130.29	120.42
3	Z	476	LYS	C-N-CA	6.95	130.29	120.42
2	M	351	GLN	N-CA-C	-6.95	103.75	111.82
2	M	398	ALA	N-CA-C	-6.95	103.79	111.36
3	N	405	ASP	CA-C-N	-6.95	108.45	122.55
3	N	405	ASP	C-N-CA	-6.95	108.45	122.55
3	T	353	GLN	CB-CA-C	-6.94	99.26	110.79
1	X	432	ASN	CA-C-N	-6.94	109.76	120.31
1	X	432	ASN	C-N-CA	-6.94	109.76	120.31
3	T	478	LEU	N-CA-C	-6.94	103.77	111.82
3	H	353	GLN	CB-CA-C	-6.94	99.28	110.79
4	V	1475	ALA	CA-C-N	-6.93	111.42	120.44
4	V	1475	ALA	C-N-CA	-6.93	111.42	120.44
1	F	408	GLU	CA-C-N	6.93	130.13	120.29
1	F	408	GLU	C-N-CA	6.93	130.13	120.29
1	F	407	GLU	N-CA-CB	6.93	120.30	110.12
1	X	349	THR	N-CA-C	6.92	118.91	111.36
1	R	349	THR	N-CA-C	6.92	118.91	111.36
4	V	1538	SER	O-C-N	6.92	131.39	122.39
4	D	1475	ALA	CA-C-N	-6.92	111.44	120.44
4	D	1475	ALA	C-N-CA	-6.92	111.44	120.44
4	J	1530	VAL	CA-C-O	6.92	128.19	120.85
1	L	407	GLU	N-CA-CB	6.92	120.29	110.12
1	L	408	GLU	CA-C-N	6.92	130.11	120.29
1	L	408	GLU	C-N-CA	6.92	130.11	120.29
1	R	463	ILE	N-CA-C	-6.92	94.95	109.34
1	R	482	LYS	O-C-N	-6.92	114.94	122.07
4	P	1530	VAL	CA-C-O	6.92	128.18	120.85
6	O	727	VAL	CB-CA-C	-6.92	102.98	112.04
2	G	398	ALA	N-CA-C	-6.91	103.83	111.36
3	N	478	LEU	N-CA-C	-6.91	103.81	111.82
4	D	1552	THR	N-CA-C	6.91	119.83	111.40
4	J	1475	ALA	CA-C-N	-6.91	111.46	120.44
4	J	1475	ALA	C-N-CA	-6.91	111.46	120.44
2	S	377	ASN	N-CA-C	6.91	125.51	110.80
6	I	214	GLU	CA-C-O	-6.91	113.57	120.82
2	M	338	GLU	N-CA-CB	6.91	121.01	110.79
1	R	389	VAL	CA-C-O	6.91	128.10	120.71
1	R	407	GLU	N-CA-CB	6.90	120.27	110.12
1	L	463	ILE	N-CA-C	-6.90	94.99	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Y	398	ALA	N-CA-C	-6.90	103.84	111.36
1	X	407	GLU	N-CA-CB	6.89	120.25	110.12
5	W	234	CYS	N-CA-C	6.89	118.68	111.03
2	G	377	ASN	N-CA-C	6.89	125.48	110.80
3	N	476	LYS	CA-C-N	6.89	130.20	120.42
3	N	476	LYS	C-N-CA	6.89	130.20	120.42
3	T	476	LYS	CA-C-N	6.89	130.20	120.42
3	T	476	LYS	C-N-CA	6.89	130.20	120.42
4	J	1483	ARG	O-C-N	6.89	130.74	122.27
4	D	1486	CYS	CA-C-O	6.88	127.85	120.55
4	D	1530	VAL	CA-C-O	6.88	128.15	120.85
1	X	463	ILE	N-CA-C	-6.88	95.02	109.34
2	G	276	SER	CA-C-N	6.88	132.49	123.00
2	G	276	SER	C-N-CA	6.88	132.49	123.00
2	Y	351	GLN	N-CA-C	-6.88	103.84	111.82
2	Y	377	ASN	N-CA-C	6.88	125.45	110.80
4	P	1552	THR	N-CA-C	6.88	119.79	111.40
6	O	214	GLU	CA-C-O	-6.88	113.60	120.82
2	S	297	ALA	N-CA-C	-6.87	103.87	111.36
1	X	399	SER	CB-CA-C	-6.87	96.74	110.42
1	L	399	SER	CB-CA-C	-6.87	96.75	110.42
2	M	297	ALA	N-CA-C	-6.87	103.87	111.36
1	X	482	LYS	O-C-N	-6.87	115.00	122.07
4	D	1538	SER	O-C-N	6.86	131.31	122.39
4	P	1475	ALA	CA-C-N	-6.86	111.52	120.44
4	P	1475	ALA	C-N-CA	-6.86	111.52	120.44
1	F	311	GLN	CB-CA-C	-6.86	98.15	110.70
1	F	334	LEU	CA-C-N	-6.86	111.53	120.44
1	F	334	LEU	C-N-CA	-6.86	111.53	120.44
1	L	311	GLN	CB-CA-C	-6.86	98.15	110.70
1	L	391	ILE	CA-C-N	-6.86	109.14	121.14
1	L	391	ILE	C-N-CA	-6.86	109.14	121.14
1	R	399	SER	CB-CA-C	-6.86	96.78	110.42
2	G	338	GLU	N-CA-CB	6.85	120.94	110.79
5	K	234	CYS	N-CA-C	6.85	118.64	111.03
2	M	377	ASN	N-CA-C	6.85	125.39	110.80
1	F	463	ILE	N-CA-C	-6.85	95.09	109.34
2	Y	338	GLU	N-CA-CB	6.85	120.93	110.79
2	S	398	ALA	N-CA-C	-6.85	103.90	111.36
6	I	727	VAL	CB-CA-C	-6.85	103.07	112.04
3	H	476	LYS	CA-C-N	6.85	130.14	120.42
3	H	476	LYS	C-N-CA	6.85	130.14	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	334	LEU	CA-C-N	-6.85	111.54	120.44
1	X	334	LEU	C-N-CA	-6.85	111.54	120.44
1	F	404	GLN	CA-C-O	-6.84	114.09	121.14
1	R	334	LEU	CA-C-N	-6.84	111.54	120.44
1	R	334	LEU	C-N-CA	-6.84	111.54	120.44
6	C	727	VAL	CB-CA-C	-6.84	103.08	112.04
2	M	408	GLU	N-CA-C	-6.84	103.90	111.36
2	S	338	GLU	N-CA-CB	6.84	120.91	110.79
5	E	910	GLN	CA-C-N	6.84	129.83	120.46
5	E	910	GLN	C-N-CA	6.84	129.83	120.46
1	X	311	GLN	CB-CA-C	-6.84	98.19	110.70
3	H	409	PRO	CA-C-N	6.83	132.13	120.72
3	H	409	PRO	C-N-CA	6.83	132.13	120.72
1	L	482	LYS	O-C-N	-6.83	115.03	122.07
2	M	378	SER	O-C-N	-6.83	113.50	122.59
4	V	1483	ARG	O-C-N	6.83	130.67	122.27
5	Q	234	CYS	N-CA-C	6.83	118.61	111.03
3	N	357	GLN	CA-C-N	-6.83	109.11	120.30
3	N	357	GLN	C-N-CA	-6.83	109.11	120.30
3	T	409	PRO	CA-C-N	6.83	132.12	120.72
3	T	409	PRO	C-N-CA	6.83	132.12	120.72
1	F	391	ILE	CA-C-N	-6.82	109.20	121.14
1	F	391	ILE	C-N-CA	-6.82	109.20	121.14
3	Z	478	LEU	N-CA-C	-6.82	103.90	111.82
3	N	470	PRO	O-C-N	-6.82	113.43	122.64
4	J	1515	TYR	N-CA-C	6.82	118.37	111.07
2	G	297	ALA	N-CA-C	-6.82	103.92	111.36
1	L	389	VAL	CA-C-O	6.82	128.01	120.71
3	N	409	PRO	CA-C-N	6.82	132.11	120.72
3	N	409	PRO	C-N-CA	6.82	132.11	120.72
1	X	404	GLN	CA-C-O	-6.82	114.12	121.14
1	R	391	ILE	CA-C-N	-6.82	109.21	121.14
1	R	391	ILE	C-N-CA	-6.82	109.21	121.14
2	S	378	SER	O-C-N	-6.82	113.52	122.59
5	K	415	LYS	N-CA-CB	6.82	122.01	110.49
1	F	492	GLU	CB-CA-C	-6.81	96.86	110.42
2	Y	279	ALA	N-CA-C	-6.81	103.78	111.07
4	J	1494	MET	CA-C-N	-6.81	111.17	120.44
4	J	1494	MET	C-N-CA	-6.81	111.17	120.44
1	X	465	GLN	CA-C-N	-6.81	109.22	121.14
1	X	465	GLN	C-N-CA	-6.81	109.22	121.14
1	L	465	GLN	CA-C-N	-6.81	109.22	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	465	GLN	C-N-CA	-6.81	109.22	121.14
4	V	1552	THR	N-CA-C	6.81	119.70	111.40
1	R	492	GLU	CB-CA-C	-6.80	96.88	110.42
5	W	415	LYS	N-CA-CB	6.80	121.99	110.49
2	Y	378	SER	O-C-N	-6.80	113.55	122.59
2	G	408	GLU	N-CA-C	-6.80	103.95	111.36
4	D	1470	ILE	N-CA-C	-6.80	103.89	110.42
6	U	727	VAL	CB-CA-C	-6.79	103.14	112.04
1	X	492	GLU	CB-CA-C	-6.79	96.90	110.42
1	R	404	GLN	CA-C-O	-6.79	114.14	121.14
2	S	344	ASP	O-C-N	-6.79	113.56	122.59
1	R	311	GLN	CB-CA-C	-6.79	98.28	110.70
6	C	485	LEU	N-CA-C	-6.79	96.34	110.80
4	J	319	LEU	N-CA-C	-6.79	96.35	110.80
1	X	391	ILE	CA-C-N	-6.78	109.27	121.14
1	X	391	ILE	C-N-CA	-6.78	109.27	121.14
1	L	492	GLU	CB-CA-C	-6.78	96.92	110.42
5	W	910	GLN	CA-C-N	6.78	129.75	120.46
5	W	910	GLN	C-N-CA	6.78	129.75	120.46
5	E	234	CYS	N-CA-C	6.78	118.55	111.03
1	F	465	GLN	CA-C-N	-6.78	109.28	121.14
1	F	465	GLN	C-N-CA	-6.78	109.28	121.14
1	F	482	LYS	O-C-N	-6.78	115.09	122.07
3	H	470	PRO	O-C-N	-6.77	113.50	122.64
4	P	1483	ARG	O-C-N	6.77	130.60	122.27
1	R	465	GLN	CA-C-N	-6.77	109.29	121.14
1	R	465	GLN	C-N-CA	-6.77	109.29	121.14
5	Q	910	GLN	CA-C-N	6.77	129.73	120.46
5	Q	910	GLN	C-N-CA	6.77	129.73	120.46
3	H	478	LEU	N-CA-C	-6.77	103.97	111.82
2	Y	344	ASP	O-C-N	-6.77	113.59	122.59
3	Z	409	PRO	CA-C-N	6.77	132.02	120.72
3	Z	409	PRO	C-N-CA	6.77	132.02	120.72
4	D	1494	MET	CA-C-N	-6.77	111.24	120.44
4	D	1494	MET	C-N-CA	-6.77	111.24	120.44
3	Z	470	PRO	O-C-N	-6.76	113.51	122.64
6	I	251	ARG	N-CA-C	6.76	121.91	111.56
4	V	319	LEU	N-CA-C	-6.76	96.40	110.80
4	V	1494	MET	CA-C-N	-6.76	111.24	120.44
4	V	1494	MET	C-N-CA	-6.76	111.24	120.44
1	L	404	GLN	CA-C-O	-6.76	114.17	121.14
4	P	1486	CYS	CA-C-O	6.76	127.72	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	Q	415	LYS	N-CA-CB	6.76	121.92	110.49
6	I	180	ASN	N-CA-C	-6.76	103.84	111.14
6	U	180	ASN	N-CA-C	-6.76	103.84	111.14
1	X	453	TYR	CB-CA-C	-6.76	96.98	110.42
4	J	1536	LEU	CA-C-N	-6.76	110.69	120.29
4	J	1536	LEU	C-N-CA	-6.76	110.69	120.29
6	C	307	GLY	CA-C-N	6.76	134.44	121.54
6	C	307	GLY	C-N-CA	6.76	134.44	121.54
6	I	307	GLY	CA-C-N	6.76	134.44	121.54
6	I	307	GLY	C-N-CA	6.76	134.44	121.54
2	Y	408	GLU	N-CA-C	-6.75	104.00	111.36
1	L	334	LEU	CA-C-N	-6.75	111.66	120.44
1	L	334	LEU	C-N-CA	-6.75	111.66	120.44
4	D	1515	TYR	N-CA-C	6.75	118.30	111.07
5	E	415	LYS	N-CA-CB	6.75	121.91	110.49
1	L	453	TYR	CB-CA-C	-6.75	96.98	110.42
5	K	958	ASP	CB-CA-C	-6.75	107.76	115.79
2	G	344	ASP	N-CA-CB	6.75	121.90	110.49
4	P	319	LEU	N-CA-C	-6.75	96.42	110.80
4	V	1515	TYR	N-CA-C	6.75	118.29	111.07
4	D	319	LEU	N-CA-C	-6.75	96.43	110.80
6	U	485	LEU	N-CA-C	-6.74	96.44	110.80
2	Y	321	ASN	CA-C-N	6.74	129.31	120.28
2	Y	321	ASN	C-N-CA	6.74	129.31	120.28
2	S	408	GLU	N-CA-C	-6.74	104.01	111.36
6	O	307	GLY	CA-C-N	6.74	134.41	121.54
6	O	307	GLY	C-N-CA	6.74	134.41	121.54
1	F	453	TYR	CB-CA-C	-6.74	97.01	110.42
2	M	344	ASP	O-C-N	-6.74	113.63	122.59
6	U	307	GLY	CA-C-N	6.74	134.41	121.54
6	U	307	GLY	C-N-CA	6.74	134.41	121.54
1	R	453	TYR	CB-CA-C	-6.74	97.02	110.42
4	V	1471	GLU	CA-C-N	-6.74	111.76	120.65
4	V	1471	GLU	C-N-CA	-6.74	111.76	120.65
2	Y	297	ALA	N-CA-C	-6.73	104.02	111.36
3	T	349	ARG	CA-C-N	6.73	129.59	120.44
3	T	349	ARG	C-N-CA	6.73	129.59	120.44
5	K	910	GLN	CA-C-N	6.73	129.68	120.46
5	K	910	GLN	C-N-CA	6.73	129.68	120.46
4	P	1470	ILE	N-CA-C	-6.73	103.96	110.42
4	V	1470	ILE	N-CA-C	-6.73	103.96	110.42
3	T	470	PRO	O-C-N	-6.73	113.56	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	C	180	ASN	N-CA-C	-6.72	103.88	111.14
6	C	251	ARG	N-CA-C	6.72	121.85	111.56
3	T	475	CYS	CA-C-O	-6.72	113.30	120.42
6	O	180	ASN	N-CA-C	-6.72	103.89	111.14
6	O	485	LEU	N-CA-C	-6.72	96.49	110.80
2	G	378	SER	O-C-N	-6.72	113.66	122.59
3	H	357	GLN	CA-C-N	-6.72	109.28	120.30
3	H	357	GLN	C-N-CA	-6.72	109.28	120.30
6	I	485	LEU	N-CA-C	-6.72	96.50	110.80
1	X	389	VAL	CA-C-O	6.71	127.89	120.71
3	T	357	GLN	CA-C-N	-6.71	109.29	120.30
3	T	357	GLN	C-N-CA	-6.71	109.29	120.30
4	V	1486	CYS	CA-C-O	6.71	127.67	120.55
5	Q	958	ASP	CB-CA-C	-6.71	107.80	115.79
2	S	279	ALA	N-CA-C	-6.71	103.89	111.07
2	S	321	ASN	CA-C-N	6.71	129.27	120.28
2	S	321	ASN	C-N-CA	6.71	129.27	120.28
4	J	1499	LEU	CA-C-O	-6.71	113.31	120.42
1	F	462	GLU	O-C-N	-6.71	114.10	122.35
3	Z	387	LYS	O-C-N	6.70	129.22	122.12
4	P	1499	LEU	CA-C-O	-6.70	113.44	120.55
6	U	251	ARG	N-CA-C	6.70	121.81	111.56
6	U	749	LEU	N-CA-C	-6.70	101.05	110.50
4	P	1494	MET	CA-C-N	-6.70	111.33	120.44
4	P	1494	MET	C-N-CA	-6.70	111.33	120.44
6	O	251	ARG	N-CA-C	6.70	121.81	111.56
3	Z	357	GLN	CA-C-N	-6.70	109.31	120.30
3	Z	357	GLN	C-N-CA	-6.70	109.31	120.30
6	O	749	LEU	N-CA-C	-6.70	101.05	110.50
3	N	349	ARG	CA-C-N	6.70	129.55	120.44
3	N	349	ARG	C-N-CA	6.70	129.55	120.44
4	V	1451	ARG	CA-C-N	-6.69	111.74	120.44
4	V	1451	ARG	C-N-CA	-6.69	111.74	120.44
4	J	1486	CYS	CA-C-O	6.69	127.64	120.55
1	F	389	VAL	CA-C-O	6.69	127.87	120.71
1	X	430	ARG	N-CA-C	6.69	118.36	111.14
1	F	404	GLN	N-CA-CB	6.69	122.66	110.76
2	G	344	ASP	O-C-N	-6.69	113.70	122.59
6	I	749	LEU	N-CA-C	-6.69	101.07	110.50
2	M	344	ASP	N-CA-CB	6.69	121.79	110.49
2	G	279	ALA	N-CA-C	-6.68	103.92	111.07
2	G	321	ASN	CA-C-N	6.68	129.23	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	321	ASN	C-N-CA	6.68	129.23	120.28
4	D	1483	ARG	O-C-N	6.68	130.48	122.27
3	Z	349	ARG	CA-C-N	6.67	129.52	120.44
3	Z	349	ARG	C-N-CA	6.67	129.52	120.44
6	O	594	LYS	N-CA-C	-6.67	98.90	109.04
4	J	1451	ARG	CA-C-N	-6.67	111.77	120.44
4	J	1451	ARG	C-N-CA	-6.67	111.77	120.44
2	Y	344	ASP	N-CA-CB	6.67	121.76	110.49
3	N	475	CYS	CA-C-O	-6.67	113.35	120.42
1	F	430	ARG	N-CA-C	6.67	118.34	111.14
3	H	475	CYS	CA-C-O	-6.66	113.36	120.42
1	X	462	GLU	O-C-N	-6.66	114.15	122.35
3	T	493	ALA	CA-C-O	-6.66	111.43	119.49
2	M	321	ASN	CA-C-N	6.66	129.21	120.28
2	M	321	ASN	C-N-CA	6.66	129.21	120.28
1	R	404	GLN	N-CA-CB	6.66	122.61	110.76
3	T	352	LEU	CB-CA-C	6.66	121.47	110.81
5	W	958	ASP	CB-CA-C	-6.66	107.86	115.79
1	R	429	GLY	O-C-N	6.66	128.58	122.19
4	D	1536	LEU	CA-C-N	-6.66	110.84	120.29
4	D	1536	LEU	C-N-CA	-6.66	110.84	120.29
4	P	1515	TYR	N-CA-C	6.65	118.19	111.07
6	I	594	LYS	N-CA-C	-6.65	98.92	109.04
2	G	372	ALA	N-CA-CB	6.65	119.90	110.12
3	Z	475	CYS	CA-C-O	-6.65	113.37	120.42
3	H	349	ARG	CA-C-N	6.65	129.48	120.44
3	H	349	ARG	C-N-CA	6.65	129.48	120.44
6	U	751	ALA	N-CA-C	-6.65	104.11	111.36
1	X	404	GLN	N-CA-CB	6.64	122.59	110.76
1	L	430	ARG	N-CA-C	6.64	118.32	111.14
1	R	430	ARG	N-CA-C	6.64	118.31	111.14
4	P	1536	LEU	CA-C-N	-6.64	110.86	120.29
4	P	1536	LEU	C-N-CA	-6.64	110.86	120.29
2	S	344	ASP	N-CA-CB	6.64	121.71	110.49
4	P	1451	ARG	CA-C-N	-6.64	111.81	120.44
4	P	1451	ARG	C-N-CA	-6.64	111.81	120.44
3	N	493	ALA	CA-C-O	-6.64	111.46	119.49
4	D	1451	ARG	CA-C-N	-6.64	111.81	120.44
4	D	1451	ARG	C-N-CA	-6.64	111.81	120.44
5	E	958	ASP	CB-CA-C	-6.64	107.89	115.79
6	O	751	ALA	N-CA-C	-6.63	104.13	111.36
3	T	387	LYS	O-C-N	6.63	129.15	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	C	594	LYS	N-CA-C	-6.63	98.96	109.04
6	U	594	LYS	N-CA-C	-6.63	98.96	109.04
1	F	451	GLU	O-C-N	6.63	131.41	122.59
4	P	1471	GLU	CA-C-N	-6.63	111.90	120.65
4	P	1471	GLU	C-N-CA	-6.63	111.90	120.65
4	V	1499	LEU	CA-C-O	-6.63	113.40	120.42
4	D	1493	ARG	N-CA-C	6.63	119.35	111.33
4	J	1470	ILE	N-CA-C	-6.63	104.06	110.42
4	J	1493	ARG	N-CA-C	6.62	119.35	111.33
6	C	751	ALA	N-CA-C	-6.62	104.14	111.36
2	G	380	ILE	N-CA-C	6.62	119.16	109.63
1	L	451	GLU	O-C-N	6.62	131.39	122.59
6	C	749	LEU	N-CA-C	-6.62	101.17	110.50
1	R	451	GLU	O-C-N	6.62	131.39	122.59
3	H	335	SER	CA-C-N	6.62	129.44	120.44
3	H	335	SER	C-N-CA	6.62	129.44	120.44
4	V	1536	LEU	CA-C-N	-6.62	110.89	120.29
4	V	1536	LEU	C-N-CA	-6.62	110.89	120.29
1	R	462	GLU	O-C-N	-6.61	114.22	122.35
3	Z	352	LEU	CB-CA-C	6.61	121.38	110.81
2	M	279	ALA	N-CA-C	-6.60	104.00	111.07
3	N	352	LEU	CB-CA-C	6.60	121.37	110.81
2	S	274	ARG	N-CA-CB	6.60	119.82	110.12
3	H	352	LEU	CB-CA-C	6.59	121.36	110.81
1	L	404	GLN	N-CA-CB	6.59	122.50	110.76
6	I	751	ALA	N-CA-C	-6.59	104.17	111.36
3	Z	335	SER	CA-C-N	6.59	129.40	120.44
3	Z	335	SER	C-N-CA	6.59	129.40	120.44
1	L	462	GLU	O-C-N	-6.59	114.24	122.35
6	I	641	LEU	CA-C-N	6.59	129.11	120.28
6	I	641	LEU	C-N-CA	6.59	129.11	120.28
3	Z	493	ALA	CA-C-O	-6.59	111.52	119.49
1	R	481	ILE	CA-C-N	-6.58	111.88	120.44
1	R	481	ILE	C-N-CA	-6.58	111.88	120.44
4	D	1471	GLU	CA-C-N	-6.58	111.96	120.65
4	D	1471	GLU	C-N-CA	-6.58	111.96	120.65
3	H	387	LYS	O-C-N	6.58	129.09	122.12
1	X	416	THR	N-CA-CB	6.58	119.54	110.01
6	C	641	LEU	CA-C-N	6.58	129.09	120.28
6	C	641	LEU	C-N-CA	6.58	129.09	120.28
4	J	1471	GLU	CA-C-N	-6.57	111.98	120.65
4	J	1471	GLU	C-N-CA	-6.57	111.98	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	399	SER	N-CA-CB	-6.56	99.40	110.49
3	N	335	SER	CA-C-N	6.56	129.37	120.44
3	N	335	SER	C-N-CA	6.56	129.37	120.44
2	S	346	PHE	CB-CA-C	-6.56	100.53	110.90
2	S	372	ALA	N-CA-CB	6.56	119.76	110.12
1	F	486	GLU	CB-CA-C	6.55	121.80	110.79
1	L	486	GLU	CB-CA-C	6.55	121.80	110.79
1	X	451	GLU	O-C-N	6.55	131.30	122.59
6	U	641	LEU	CA-C-N	6.55	129.06	120.28
6	U	641	LEU	C-N-CA	6.55	129.06	120.28
2	G	274	ARG	N-CA-CB	6.54	119.74	110.12
3	T	407	LEU	CB-CA-C	-6.54	96.64	110.31
3	H	407	LEU	CB-CA-C	-6.54	96.64	110.31
1	R	486	GLU	CB-CA-C	6.54	121.78	110.79
3	N	420	THR	CA-C-O	-6.54	113.49	120.42
3	T	335	SER	CA-C-N	6.54	129.33	120.44
3	T	335	SER	C-N-CA	6.54	129.33	120.44
1	X	429	GLY	O-C-N	6.53	128.46	122.19
1	L	290	PRO	N-CA-C	6.53	128.43	112.10
2	M	346	PHE	CB-CA-C	-6.53	100.58	110.90
1	R	396	GLN	O-C-N	-6.53	115.03	122.09
3	N	373	THR	CA-C-N	-6.53	108.88	121.94
3	N	373	THR	C-N-CA	-6.53	108.88	121.94
4	P	1493	ARG	N-CA-C	6.53	119.23	111.33
1	L	399	SER	N-CA-CB	-6.52	99.46	110.49
2	Y	372	ALA	N-CA-CB	6.52	119.71	110.12
3	N	472	GLN	N-CA-C	-6.52	104.80	112.89
1	X	399	SER	N-CA-CB	-6.52	99.47	110.49
4	D	1484	ASP	CA-C-N	6.52	133.99	121.54
4	D	1484	ASP	C-N-CA	6.52	133.99	121.54
4	V	1484	ASP	CA-C-N	6.52	133.99	121.54
4	V	1484	ASP	C-N-CA	6.52	133.99	121.54
3	N	407	LEU	CB-CA-C	-6.51	96.70	110.31
6	I	755	ILE	N-CA-C	-6.51	103.98	110.62
2	Y	274	ARG	N-CA-CB	6.51	119.69	110.12
3	H	472	GLN	N-CA-C	-6.51	104.82	112.89
3	Z	407	LEU	CB-CA-C	-6.51	96.70	110.31
1	R	471	GLN	CA-C-O	-6.51	113.52	120.42
3	H	493	ALA	CA-C-O	-6.51	111.61	119.49
2	M	253	GLN	CA-C-O	6.51	127.46	120.24
6	O	641	LEU	CA-C-N	6.51	129.00	120.28
6	O	641	LEU	C-N-CA	6.51	129.00	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	481	ILE	CA-C-N	-6.50	111.98	120.44
1	F	481	ILE	C-N-CA	-6.50	111.98	120.44
3	N	387	LYS	O-C-N	6.50	129.01	122.12
1	X	396	GLN	O-C-N	-6.50	115.07	122.09
1	F	416	THR	N-CA-CB	6.50	119.43	110.01
1	X	486	GLU	CB-CA-C	6.50	121.71	110.79
3	Z	420	THR	CA-C-O	-6.50	113.53	120.42
1	R	290	PRO	N-CA-C	6.50	128.34	112.10
2	M	274	ARG	N-CA-CB	6.50	119.67	110.12
3	H	373	THR	CA-C-N	-6.49	108.95	121.94
3	H	373	THR	C-N-CA	-6.49	108.95	121.94
2	G	346	PHE	CB-CA-C	-6.49	100.64	110.90
4	V	1493	ARG	N-CA-C	6.49	119.18	111.33
2	Y	346	PHE	CB-CA-C	-6.48	100.66	110.90
3	T	370	GLU	N-CA-C	-6.48	104.14	111.14
3	H	370	GLU	N-CA-C	-6.48	104.14	111.14
1	F	290	PRO	N-CA-C	6.48	128.29	112.10
1	R	416	THR	N-CA-CB	6.48	119.40	110.01
1	X	481	ILE	CA-C-N	-6.47	112.02	120.44
1	X	481	ILE	C-N-CA	-6.47	112.02	120.44
2	G	253	GLN	CA-C-O	6.47	127.42	120.24
1	X	290	PRO	N-CA-C	6.47	128.28	112.10
1	F	429	GLY	O-C-N	6.47	128.40	122.19
2	G	333	PRO	O-C-N	-6.47	113.91	122.64
1	L	471	GLN	CA-C-O	-6.47	113.56	120.42
6	U	755	ILE	N-CA-C	-6.47	104.02	110.62
1	X	328	VAL	O-C-N	-6.46	114.77	122.66
2	S	333	PRO	O-C-N	-6.46	113.91	122.64
2	Y	253	GLN	CA-C-O	6.46	127.41	120.24
3	H	420	THR	CA-C-O	-6.46	113.58	120.42
4	D	1539	LEU	CA-C-O	6.46	127.40	120.10
4	J	1484	ASP	CA-C-N	6.46	133.87	121.54
4	J	1484	ASP	C-N-CA	6.46	133.87	121.54
2	M	372	ALA	N-CA-CB	6.46	119.61	110.12
2	G	275	MET	CA-C-N	6.45	133.87	121.54
2	G	275	MET	C-N-CA	6.45	133.87	121.54
3	Z	373	THR	CA-C-N	-6.45	109.04	121.94
3	Z	373	THR	C-N-CA	-6.45	109.04	121.94
2	S	253	GLN	CA-C-O	6.45	127.40	120.24
6	C	755	ILE	N-CA-C	-6.45	104.04	110.62
1	F	396	GLN	O-C-N	-6.45	115.13	122.09
3	N	370	GLU	N-CA-C	-6.45	104.18	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	755	ILE	N-CA-C	-6.45	104.04	110.62
1	R	328	VAL	O-C-N	-6.45	114.80	122.66
3	T	472	GLN	N-CA-C	-6.45	104.90	112.89
3	T	373	THR	CA-C-N	-6.45	109.05	121.94
3	T	373	THR	C-N-CA	-6.45	109.05	121.94
4	D	1543	GLN	CA-C-O	6.45	128.99	120.16
4	J	1529	LEU	CA-C-N	-6.45	111.27	120.42
4	J	1529	LEU	C-N-CA	-6.45	111.27	120.42
4	J	1541	THR	N-CA-C	6.45	122.31	113.16
6	U	176	SER	N-CA-C	-6.45	104.68	112.54
6	C	808	ASN	N-CA-C	-6.44	106.14	112.97
1	R	461	ARG	N-CA-CB	6.44	121.38	110.49
3	Z	370	GLU	N-CA-C	-6.44	104.19	111.14
1	L	481	ILE	CA-C-N	-6.44	112.07	120.44
1	L	481	ILE	C-N-CA	-6.44	112.07	120.44
1	L	416	THR	N-CA-CB	6.43	119.34	110.01
4	P	1529	LEU	CA-C-N	-6.43	111.28	120.42
4	P	1529	LEU	C-N-CA	-6.43	111.28	120.42
6	I	176	SER	N-CA-C	-6.43	104.69	112.54
1	F	461	ARG	N-CA-CB	6.42	121.35	110.49
1	R	399	SER	N-CA-CB	-6.42	99.63	110.49
3	T	420	THR	CA-C-O	-6.42	113.61	120.42
1	X	461	ARG	N-CA-CB	6.42	121.34	110.49
1	X	471	GLN	CA-C-O	-6.42	113.62	120.42
4	P	1484	ASP	CA-C-N	6.42	133.80	121.54
4	P	1484	ASP	C-N-CA	6.42	133.80	121.54
4	D	1411	GLY	N-CA-C	-6.42	102.52	112.85
2	Y	248	PRO	CA-C-N	6.42	127.86	119.84
2	Y	248	PRO	C-N-CA	6.42	127.86	119.84
4	J	1411	GLY	N-CA-C	-6.42	102.52	112.85
3	Z	472	GLN	N-CA-C	-6.41	104.94	112.89
3	T	412	GLU	CA-C-N	6.41	129.16	120.44
3	T	412	GLU	C-N-CA	6.41	129.16	120.44
4	V	1548	LYS	CA-C-N	-6.41	110.56	120.31
4	V	1548	LYS	C-N-CA	-6.41	110.56	120.31
2	G	248	PRO	CA-C-N	6.41	127.85	119.84
2	G	248	PRO	C-N-CA	6.41	127.85	119.84
4	P	1411	GLY	N-CA-C	-6.41	102.53	112.85
5	E	829	ARG	N-CA-C	6.41	118.57	110.24
2	M	333	PRO	O-C-N	-6.41	113.99	122.64
1	R	449	SER	N-CA-C	6.40	124.44	110.80
4	D	1541	THR	N-CA-C	6.40	122.25	113.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	373	THR	N-CA-C	-6.40	103.92	111.03
3	H	445	LYS	O-C-N	6.40	128.90	122.12
1	L	429	GLY	O-C-N	6.40	128.33	122.19
2	S	275	MET	CA-C-N	6.40	133.76	121.54
2	S	275	MET	C-N-CA	6.40	133.76	121.54
3	T	373	THR	N-CA-C	-6.40	103.93	111.03
4	V	1411	GLY	N-CA-C	-6.40	102.55	112.85
2	Y	275	MET	CA-C-N	6.40	133.76	121.54
2	Y	275	MET	C-N-CA	6.40	133.76	121.54
1	L	449	SER	N-CA-C	6.39	124.42	110.80
3	T	486	GLN	CA-C-N	6.39	128.85	120.28
3	T	486	GLN	C-N-CA	6.39	128.85	120.28
4	V	1541	THR	N-CA-C	6.39	122.24	113.16
6	C	176	SER	N-CA-C	-6.39	104.74	112.54
4	J	1548	LYS	CA-C-N	-6.39	110.60	120.31
4	J	1548	LYS	C-N-CA	-6.39	110.60	120.31
2	M	248	PRO	CA-C-N	6.39	127.83	119.84
2	M	248	PRO	C-N-CA	6.39	127.83	119.84
3	N	373	THR	N-CA-C	-6.39	103.94	111.03
3	N	378	GLU	N-CA-C	-6.39	104.75	112.54
4	P	1541	THR	N-CA-C	6.39	122.23	113.16
3	Z	486	GLN	CA-C-N	6.38	128.83	120.28
3	Z	486	GLN	C-N-CA	6.38	128.83	120.28
6	O	176	SER	N-CA-C	-6.38	104.75	112.54
1	X	449	SER	N-CA-C	6.38	124.39	110.80
3	Z	373	THR	N-CA-C	-6.38	103.95	111.03
6	U	808	ASN	N-CA-C	-6.38	106.21	112.97
1	F	449	SER	N-CA-C	6.38	124.38	110.80
5	W	849	ASN	CB-CA-C	-6.38	108.56	117.23
1	L	461	ARG	N-CA-CB	6.37	121.26	110.49
2	S	349	LEU	N-CA-CB	6.37	120.16	110.28
4	D	1684	ALA	CA-C-N	-6.37	111.53	120.39
4	D	1684	ALA	C-N-CA	-6.37	111.53	120.39
6	O	808	ASN	N-CA-C	-6.37	106.22	112.97
1	X	453	TYR	N-CA-CB	6.37	121.26	110.49
3	T	445	LYS	O-C-N	6.37	128.87	122.12
5	W	829	ARG	N-CA-C	6.37	118.52	110.24
4	P	1548	LYS	CA-C-N	-6.37	110.63	120.31
4	P	1548	LYS	C-N-CA	-6.37	110.63	120.31
5	Q	829	ARG	N-CA-C	6.37	118.52	110.24
4	D	1529	LEU	CA-C-N	-6.37	111.38	120.42
4	D	1529	LEU	C-N-CA	-6.37	111.38	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Z	445	LYS	O-C-N	6.37	128.87	122.12
1	L	328	VAL	O-C-N	-6.37	114.89	122.66
4	P	275	LEU	N-CA-C	6.37	118.02	111.14
4	P	1684	ALA	CA-C-N	-6.37	111.54	120.39
4	P	1684	ALA	C-N-CA	-6.37	111.54	120.39
4	D	275	LEU	N-CA-C	6.37	118.01	111.14
2	Y	333	PRO	O-C-N	-6.36	114.05	122.64
6	C	220	ILE	CA-C-N	6.36	128.71	120.44
6	C	220	ILE	C-N-CA	6.36	128.71	120.44
2	Y	325	ALA	N-CA-C	6.36	121.29	112.45
6	I	808	ASN	N-CA-C	-6.36	106.23	112.97
3	H	378	GLU	N-CA-C	-6.36	104.78	112.54
2	M	275	MET	CA-C-N	6.36	133.68	121.54
2	M	275	MET	C-N-CA	6.36	133.68	121.54
4	V	1539	LEU	CA-C-O	6.36	127.28	120.10
2	M	349	LEU	N-CA-CB	6.36	120.13	110.28
1	X	367	THR	O-C-N	-6.35	113.69	122.46
4	V	275	LEU	N-CA-C	6.35	118.00	111.14
1	F	328	VAL	O-C-N	-6.35	114.91	122.66
2	G	349	LEU	N-CA-CB	6.35	120.12	110.28
6	U	220	ILE	CA-C-N	6.35	128.69	120.44
6	U	220	ILE	C-N-CA	6.35	128.69	120.44
5	E	1342	LEU	CB-CA-C	-6.34	100.89	109.71
5	K	196	GLY	N-CA-C	-6.34	105.93	115.32
4	P	1543	GLN	CA-C-O	6.34	128.85	120.16
4	J	1539	LEU	CA-C-O	6.34	127.27	120.10
5	Q	196	GLY	N-CA-C	-6.34	105.94	115.32
4	P	1539	LEU	CA-C-O	6.33	127.26	120.10
4	V	1529	LEU	CA-C-N	-6.33	111.43	120.42
4	V	1529	LEU	C-N-CA	-6.33	111.43	120.42
3	H	391	GLN	N-CA-CB	6.33	119.97	110.22
2	S	248	PRO	CA-C-N	6.33	127.75	119.84
2	S	248	PRO	C-N-CA	6.33	127.75	119.84
2	G	252	CYS	CA-C-N	6.33	131.40	120.58
2	G	252	CYS	C-N-CA	6.33	131.40	120.58
4	D	1548	LYS	CA-C-N	-6.32	110.70	120.31
4	D	1548	LYS	C-N-CA	-6.32	110.70	120.31
5	K	849	ASN	CB-CA-C	-6.32	108.63	117.23
4	V	1543	GLN	CA-C-O	6.32	128.82	120.16
5	W	196	GLY	N-CA-C	-6.32	105.96	115.32
3	N	414	VAL	CA-C-O	-6.32	114.15	120.85
5	E	196	GLY	N-CA-C	-6.32	105.97	115.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	252	CYS	CA-C-N	6.32	131.38	120.58
2	M	252	CYS	C-N-CA	6.32	131.38	120.58
5	E	849	ASN	CB-CA-C	-6.32	108.64	117.23
1	F	437	GLN	N-CA-CB	6.32	119.17	110.01
2	G	325	ALA	N-CA-C	6.32	121.13	112.04
2	Y	252	CYS	CA-C-N	6.32	131.38	120.58
2	Y	252	CYS	C-N-CA	6.32	131.38	120.58
3	Z	378	GLU	N-CA-C	-6.32	104.83	112.54
1	F	471	GLN	CA-C-O	-6.31	113.73	120.42
2	S	325	ALA	N-CA-C	6.31	121.13	112.04
3	Z	412	GLU	CA-C-N	6.31	129.02	120.44
3	Z	412	GLU	C-N-CA	6.31	129.02	120.44
4	D	1452	LEU	CB-CA-C	-6.31	100.97	110.88
2	Y	313	ILE	CB-CA-C	6.31	120.05	111.97
4	P	1452	LEU	CB-CA-C	-6.31	100.97	110.88
3	Z	406	LEU	O-C-N	-6.30	110.99	122.34
1	L	453	TYR	N-CA-CB	6.30	121.14	110.49
3	Z	495	LEU	CB-CA-C	-6.30	100.21	110.79
1	R	453	TYR	N-CA-CB	6.30	121.13	110.49
4	V	1509	GLN	CA-C-O	6.30	127.09	120.42
3	H	486	GLN	CA-C-N	6.29	128.72	120.28
3	H	486	GLN	C-N-CA	6.29	128.72	120.28
2	Y	349	LEU	N-CA-CB	6.29	120.04	110.28
5	K	829	ARG	N-CA-C	6.29	118.42	110.24
1	F	453	TYR	N-CA-CB	6.29	121.13	110.49
2	Y	291	LYS	N-CA-C	-6.29	104.42	111.28
4	P	377	VAL	CB-CA-C	-6.29	103.91	111.97
4	V	377	VAL	CB-CA-C	-6.29	103.92	111.97
1	X	437	GLN	N-CA-CB	6.29	119.13	110.01
2	S	291	LYS	N-CA-C	-6.29	104.42	111.28
3	N	495	LEU	CB-CA-C	-6.29	100.23	110.79
1	L	396	GLN	O-C-N	-6.29	115.30	122.09
2	M	325	ALA	N-CA-C	6.29	121.19	112.45
3	T	378	GLU	N-CA-C	-6.29	104.87	112.54
1	R	367	THR	O-C-N	-6.28	113.79	122.46
4	D	1509	GLN	CA-C-O	6.28	127.08	120.42
1	F	367	THR	O-C-N	-6.28	113.79	122.46
4	J	275	LEU	N-CA-C	6.28	117.92	111.14
4	J	377	VAL	CB-CA-C	-6.28	103.93	111.97
5	Q	1342	LEU	CB-CA-C	-6.28	100.98	109.71
5	K	1342	LEU	CB-CA-C	-6.28	100.98	109.71
1	L	492	GLU	CA-C-N	-6.28	110.40	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	492	GLU	C-N-CA	-6.28	110.40	121.70
3	N	412	GLU	CA-C-N	6.28	128.98	120.44
3	N	412	GLU	C-N-CA	6.28	128.98	120.44
4	J	1452	LEU	CB-CA-C	-6.27	101.03	110.88
2	G	260	LYS	CA-C-N	6.27	128.68	120.28
2	G	260	LYS	C-N-CA	6.27	128.68	120.28
2	M	326	LEU	N-CA-C	6.27	124.16	110.80
2	S	380	ILE	CB-CA-C	-6.27	101.73	111.26
4	V	1452	LEU	CB-CA-C	-6.27	101.03	110.88
5	Q	849	ASN	CB-CA-C	-6.27	108.70	117.23
3	H	495	LEU	CB-CA-C	-6.27	100.25	110.79
1	L	367	THR	O-C-N	-6.27	113.81	122.46
2	S	260	LYS	CA-C-N	6.27	128.68	120.28
2	S	260	LYS	C-N-CA	6.27	128.68	120.28
2	G	291	LYS	N-CA-C	-6.27	104.45	111.28
2	S	326	LEU	N-CA-C	6.26	124.14	110.80
4	J	1543	GLN	CA-C-O	6.26	128.74	120.16
3	N	341	SER	CA-C-N	-6.26	111.40	120.29
3	N	341	SER	C-N-CA	-6.26	111.40	120.29
3	T	495	LEU	CB-CA-C	-6.26	100.27	110.79
4	J	1684	ALA	CA-C-N	-6.26	111.69	120.39
4	J	1684	ALA	C-N-CA	-6.26	111.69	120.39
1	F	327	MET	CA-C-N	-6.26	114.59	123.10
1	F	327	MET	C-N-CA	-6.26	114.59	123.10
2	S	252	CYS	CA-C-N	6.25	131.27	120.58
2	S	252	CYS	C-N-CA	6.25	131.27	120.58
1	L	327	MET	CA-C-N	-6.25	114.60	123.10
1	L	327	MET	C-N-CA	-6.25	114.60	123.10
3	T	474	ILE	O-C-N	-6.25	115.81	121.87
1	F	399	SER	N-CA-C	-6.25	97.49	110.80
1	L	437	GLN	N-CA-CB	6.25	119.07	110.01
1	X	327	MET	CA-C-N	-6.25	114.61	123.10
1	X	327	MET	C-N-CA	-6.25	114.61	123.10
3	N	486	GLN	CA-C-N	6.24	128.65	120.28
3	N	486	GLN	C-N-CA	6.24	128.65	120.28
3	Z	341	SER	CA-C-N	-6.24	111.43	120.29
3	Z	341	SER	C-N-CA	-6.24	111.43	120.29
5	W	1342	LEU	CB-CA-C	-6.24	101.03	109.71
2	Y	260	LYS	CA-C-N	6.24	128.64	120.28
2	Y	260	LYS	C-N-CA	6.24	128.64	120.28
2	M	380	ILE	CB-CA-C	-6.24	101.77	111.26
2	G	326	LEU	N-CA-C	6.24	124.09	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	256	GLU	CA-C-N	6.24	128.93	120.44
2	M	256	GLU	C-N-CA	6.24	128.93	120.44
4	J	1492	GLY	CA-C-O	-6.24	112.29	119.65
6	I	220	ILE	CA-C-N	6.24	128.55	120.44
6	I	220	ILE	C-N-CA	6.24	128.55	120.44
1	L	399	SER	N-CA-C	-6.24	97.52	110.80
3	N	474	ILE	O-C-N	-6.24	115.82	121.87
1	R	492	GLU	CA-C-N	-6.24	110.47	121.70
1	R	492	GLU	C-N-CA	-6.24	110.47	121.70
3	H	412	GLU	CA-C-N	6.24	128.92	120.44
3	H	412	GLU	C-N-CA	6.24	128.92	120.44
3	N	391	GLN	N-CA-CB	6.23	119.82	110.22
6	O	220	ILE	CA-C-N	6.23	128.54	120.44
6	O	220	ILE	C-N-CA	6.23	128.54	120.44
6	U	405	GLU	CA-C-N	-6.23	110.75	121.97
6	U	405	GLU	C-N-CA	-6.23	110.75	121.97
1	F	432	ASN	CB-CA-C	-6.23	100.03	110.56
4	D	377	VAL	CB-CA-C	-6.23	103.99	111.97
1	F	422	ASN	O-C-N	6.23	129.74	122.20
1	R	437	GLN	N-CA-CB	6.23	119.04	110.01
4	V	1684	ALA	CA-C-N	-6.23	111.73	120.39
4	V	1684	ALA	C-N-CA	-6.23	111.73	120.39
4	P	1508	LYS	N-CA-C	-6.23	97.54	110.80
2	M	376	ASN	CA-C-O	6.22	127.15	120.55
4	P	1680	ILE	CB-CA-C	-6.22	103.74	112.14
4	V	1492	GLY	CA-C-O	-6.22	112.31	119.65
4	J	1457	ASP	N-CA-C	-6.22	103.88	112.03
5	K	1354	LEU	N-CA-C	-6.22	102.81	110.65
6	I	306	PRO	N-CA-C	6.22	125.28	112.47
5	Q	102	CYS	N-CA-C	6.22	119.26	111.24
3	T	391	GLN	N-CA-CB	6.22	119.79	110.22
5	W	1354	LEU	N-CA-C	-6.22	102.82	110.65
1	X	492	GLU	CA-C-N	-6.21	110.51	121.70
1	X	492	GLU	C-N-CA	-6.21	110.51	121.70
3	N	430	ARG	N-CA-C	-6.21	105.65	113.23
3	N	445	LYS	O-C-N	6.21	128.71	122.12
1	R	327	MET	CA-C-N	-6.21	114.65	123.10
1	R	327	MET	C-N-CA	-6.21	114.65	123.10
1	R	458	ASP	O-C-N	-6.21	114.32	122.59
3	T	419	GLY	CA-C-N	-6.21	111.47	120.29
3	T	419	GLY	C-N-CA	-6.21	111.47	120.29
4	P	1492	GLY	CA-C-O	-6.21	112.32	119.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	419	GLY	CA-C-N	-6.21	111.47	120.29
3	H	419	GLY	C-N-CA	-6.21	111.47	120.29
2	Y	326	LEU	N-CA-C	6.21	124.03	110.80
2	M	291	LYS	N-CA-C	-6.21	104.51	111.28
5	Q	1354	LEU	N-CA-C	-6.21	102.83	110.65
1	F	159	ILE	N-CA-CB	-6.21	100.95	111.50
3	Z	391	GLN	N-CA-CB	6.21	119.78	110.22
2	G	376	ASN	CA-C-O	6.20	127.12	120.55
2	Y	256	GLU	CA-C-N	6.20	128.88	120.44
2	Y	256	GLU	C-N-CA	6.20	128.88	120.44
4	D	1492	GLY	CA-C-O	-6.20	112.33	119.65
6	C	405	GLU	CA-C-N	-6.20	110.80	121.97
6	C	405	GLU	C-N-CA	-6.20	110.80	121.97
2	M	260	LYS	CA-C-N	6.20	128.59	120.28
2	M	260	LYS	C-N-CA	6.20	128.59	120.28
5	Q	801	HIS	CA-C-N	6.20	133.38	121.54
5	Q	801	HIS	C-N-CA	6.20	133.38	121.54
3	H	412	GLU	N-CA-C	6.20	121.05	111.56
3	T	406	LEU	O-C-N	-6.20	111.18	122.34
3	T	412	GLU	N-CA-C	6.20	121.05	111.56
5	E	1354	LEU	N-CA-C	-6.20	102.84	110.65
1	F	492	GLU	CA-C-N	-6.20	110.54	121.70
1	F	492	GLU	C-N-CA	-6.20	110.54	121.70
3	Z	412	GLU	N-CA-C	6.20	121.04	111.56
3	N	412	GLU	N-CA-C	6.20	121.04	111.56
5	K	801	HIS	CA-C-N	6.20	133.38	121.54
5	K	801	HIS	C-N-CA	6.20	133.38	121.54
6	O	340	ARG	CA-C-N	6.20	128.87	120.38
6	O	340	ARG	C-N-CA	6.20	128.87	120.38
2	S	256	GLU	CA-C-N	6.20	128.87	120.44
2	S	256	GLU	C-N-CA	6.20	128.87	120.44
6	O	405	GLU	CA-C-N	-6.20	110.82	121.97
6	O	405	GLU	C-N-CA	-6.20	110.82	121.97
3	T	341	SER	CA-C-N	-6.19	111.50	120.29
3	T	341	SER	C-N-CA	-6.19	111.50	120.29
4	D	141	CYS	N-CA-CB	6.19	119.88	110.28
3	H	341	SER	CA-C-N	-6.19	111.50	120.29
3	H	341	SER	C-N-CA	-6.19	111.50	120.29
2	Y	376	ASN	CA-C-O	6.19	127.11	120.55
3	Z	338	ASN	N-CA-C	-6.19	104.45	111.07
3	Z	419	GLY	CA-C-N	-6.19	111.50	120.29
3	Z	419	GLY	C-N-CA	-6.19	111.50	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	T	401	LYS	N-CA-CB	6.19	119.42	110.20
6	O	306	PRO	N-CA-C	6.19	125.22	112.47
5	W	801	HIS	CA-C-N	6.19	133.36	121.54
5	W	801	HIS	C-N-CA	6.19	133.36	121.54
1	X	399	SER	N-CA-C	-6.19	97.62	110.80
2	Y	380	ILE	CB-CA-C	-6.18	101.86	111.26
3	N	401	LYS	N-CA-CB	6.18	119.42	110.20
3	N	406	LEU	O-C-N	-6.18	111.21	122.34
3	T	430	ARG	N-CA-C	-6.18	105.68	113.23
4	J	141	CYS	N-CA-CB	6.18	119.87	110.28
3	H	406	LEU	O-C-N	-6.18	111.21	122.34
3	Z	501	GLU	N-CA-CB	6.18	121.30	110.18
4	D	1457	ASP	N-CA-C	-6.18	103.93	112.03
1	F	458	ASP	O-C-N	-6.18	114.37	122.59
1	L	422	ASN	O-C-N	6.18	129.68	122.20
2	S	313	ILE	CB-CA-C	6.18	119.88	111.97
6	O	496	LEU	CA-C-N	6.18	128.56	120.28
6	O	496	LEU	C-N-CA	6.18	128.56	120.28
4	J	1470	ILE	CA-C-N	6.18	128.84	120.38
4	J	1470	ILE	C-N-CA	6.18	128.84	120.38
1	L	432	ASN	CB-CA-C	-6.17	100.13	110.56
4	P	1509	GLN	CA-C-O	6.17	126.97	120.42
4	V	1634	SER	CA-C-N	-6.17	114.82	122.84
4	V	1634	SER	C-N-CA	-6.17	114.82	122.84
6	C	306	PRO	N-CA-C	6.17	125.18	112.47
6	U	340	ARG	CA-C-N	6.17	128.83	120.38
6	U	340	ARG	C-N-CA	6.17	128.83	120.38
1	X	432	ASN	CB-CA-C	-6.17	100.14	110.56
1	R	399	SER	N-CA-C	-6.17	97.66	110.80
2	M	313	ILE	CB-CA-C	6.17	119.86	111.97
6	I	405	GLU	CA-C-N	-6.17	110.87	121.97
6	I	405	GLU	C-N-CA	-6.17	110.87	121.97
4	J	1508	LYS	N-CA-C	-6.17	97.67	110.80
1	X	159	ILE	N-CA-CB	-6.16	101.02	111.50
3	H	401	LYS	N-CA-CB	6.16	119.38	110.20
3	T	414	VAL	CA-C-O	-6.16	114.32	120.85
5	E	801	HIS	CA-C-N	6.16	133.31	121.54
5	E	801	HIS	C-N-CA	6.16	133.31	121.54
3	N	419	GLY	CA-C-N	-6.16	111.55	120.29
3	N	419	GLY	C-N-CA	-6.16	111.55	120.29
4	J	1509	GLN	CA-C-O	6.16	126.95	120.42
1	X	458	ASP	O-C-N	-6.16	114.40	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Z	414	VAL	CA-C-O	-6.16	114.33	120.85
5	K	102	CYS	N-CA-C	6.16	119.18	111.24
5	E	102	CYS	N-CA-C	6.16	119.18	111.24
2	G	256	GLU	CA-C-N	6.15	128.81	120.44
2	G	256	GLU	C-N-CA	6.15	128.81	120.44
2	G	369	ASN	N-CA-CB	-6.15	100.74	110.28
5	K	855	ILE	N-CA-CB	6.15	118.90	110.54
2	S	376	ASN	CA-C-O	6.15	127.07	120.55
4	V	1508	LYS	N-CA-C	-6.15	97.70	110.80
5	E	855	ILE	N-CA-CB	6.15	118.90	110.54
3	H	338	ASN	N-CA-C	-6.14	104.50	111.07
1	L	484	ASP	N-CA-CB	-6.14	101.10	110.01
4	D	1500	LEU	CA-C-O	-6.14	114.37	120.82
6	C	340	ARG	CA-C-N	6.14	128.80	120.38
6	C	340	ARG	C-N-CA	6.14	128.80	120.38
4	D	1508	LYS	N-CA-C	-6.14	97.72	110.80
1	L	159	ILE	N-CA-CB	-6.14	101.07	111.50
1	R	422	ASN	O-C-N	6.14	129.62	122.20
3	Z	474	ILE	O-C-N	-6.13	115.92	121.87
4	V	524	PRO	N-CA-C	-6.13	105.00	113.53
3	H	474	ILE	O-C-N	-6.13	115.92	121.87
4	D	1634	SER	CA-C-N	-6.13	114.87	122.84
4	D	1634	SER	C-N-CA	-6.13	114.87	122.84
4	D	1680	ILE	CB-CA-C	-6.13	103.86	112.14
5	W	102	CYS	N-CA-C	6.13	119.15	111.24
6	I	340	ARG	CA-C-N	6.13	128.78	120.38
6	I	340	ARG	C-N-CA	6.13	128.78	120.38
4	D	800	PRO	O-C-N	6.13	124.13	121.31
4	P	1634	SER	CA-C-N	-6.13	114.88	122.84
4	P	1634	SER	C-N-CA	-6.13	114.88	122.84
4	V	1680	ILE	CB-CA-C	-6.12	103.87	112.14
1	R	432	ASN	CB-CA-C	-6.12	100.21	110.56
2	G	313	ILE	CB-CA-C	6.12	119.81	111.97
3	Z	453	ASP	O-C-N	-6.12	115.17	122.15
5	E	416	GLY	CA-C-N	-6.12	115.06	122.90
5	E	416	GLY	C-N-CA	-6.12	115.06	122.90
2	G	320	LYS	CA-C-N	-6.12	110.50	120.72
2	G	320	LYS	C-N-CA	-6.12	110.50	120.72
3	H	471	LEU	O-C-N	-6.12	115.17	122.15
3	H	501	GLU	N-CA-CB	6.12	121.20	110.18
6	C	496	LEU	CA-C-N	6.12	128.48	120.28
6	C	496	LEU	C-N-CA	6.12	128.48	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	U	306	PRO	N-CA-C	6.12	125.08	112.47
2	Y	369	ASN	N-CA-CB	-6.12	100.80	110.28
3	Z	336	LEU	N-CA-C	6.12	117.75	111.14
3	N	501	GLU	N-CA-CB	6.12	121.19	110.18
3	N	338	ASN	N-CA-C	-6.12	104.53	111.07
4	V	1470	ILE	CA-C-N	6.12	128.76	120.38
4	V	1470	ILE	C-N-CA	6.12	128.76	120.38
4	J	1634	SER	CA-C-N	-6.12	114.89	122.84
4	J	1634	SER	C-N-CA	-6.12	114.89	122.84
4	P	1457	ASP	N-CA-C	-6.11	104.02	112.03
4	D	524	PRO	N-CA-C	-6.11	105.03	113.53
4	D	840	LYS	N-CA-C	-6.11	104.68	111.71
4	V	141	CYS	N-CA-CB	6.11	119.75	110.28
1	X	422	ASN	O-C-N	6.11	129.59	122.20
4	P	1541	THR	O-C-N	6.11	126.45	120.71
1	R	159	ILE	N-CA-CB	-6.11	101.11	111.50
2	S	369	ASN	N-CA-CB	-6.11	100.81	110.28
4	J	524	PRO	N-CA-C	-6.11	105.04	113.53
4	P	524	PRO	N-CA-C	-6.10	105.05	113.53
4	V	1535	THR	O-C-N	-6.10	115.65	122.12
3	Z	430	ARG	N-CA-C	-6.10	105.79	113.23
4	P	141	CYS	N-CA-CB	6.10	119.74	110.28
3	Z	471	LEU	O-C-N	-6.10	115.20	122.15
5	E	1261	PHE	N-CA-CB	6.10	119.19	110.16
3	Z	401	LYS	N-CA-CB	6.10	119.28	110.20
4	P	1470	ILE	CA-C-N	6.10	128.74	120.38
4	P	1470	ILE	C-N-CA	6.10	128.74	120.38
2	Y	320	LYS	CA-C-N	-6.09	110.54	120.72
2	Y	320	LYS	C-N-CA	-6.09	110.54	120.72
6	U	496	LEU	CA-C-N	6.09	128.45	120.28
6	U	496	LEU	C-N-CA	6.09	128.45	120.28
4	D	1470	ILE	CA-C-N	6.09	128.72	120.38
4	D	1470	ILE	C-N-CA	6.09	128.72	120.38
4	J	1680	ILE	CB-CA-C	-6.09	103.92	112.14
1	L	458	ASP	O-C-N	-6.09	114.50	122.59
3	T	501	GLU	N-CA-CB	6.09	121.14	110.18
4	P	840	LYS	N-CA-C	-6.08	104.71	111.71
3	T	420	THR	CB-CA-C	6.08	121.18	110.85
5	W	1261	PHE	N-CA-CB	6.08	119.16	110.16
5	K	416	GLY	CA-C-N	-6.07	115.13	122.90
5	K	416	GLY	C-N-CA	-6.07	115.13	122.90
5	E	86	ARG	CA-C-N	-6.07	118.05	123.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	E	86	ARG	C-N-CA	-6.07	118.05	123.33
3	N	471	LEU	O-C-N	-6.07	115.23	122.15
2	S	259	GLN	N-CA-C	-6.07	104.73	111.71
5	W	416	GLY	CA-C-N	-6.07	115.13	122.90
5	W	416	GLY	C-N-CA	-6.07	115.13	122.90
2	S	320	LYS	CA-C-N	-6.07	110.58	120.72
2	S	320	LYS	C-N-CA	-6.07	110.58	120.72
4	P	1667	ALA	CB-CA-C	-6.07	100.71	110.79
4	V	1667	ALA	CB-CA-C	-6.07	100.71	110.79
6	I	496	LEU	CA-C-N	6.07	128.41	120.28
6	I	496	LEU	C-N-CA	6.07	128.41	120.28
3	Z	496	GLN	CA-C-N	6.07	133.12	121.54
3	Z	496	GLN	C-N-CA	6.07	133.12	121.54
3	T	338	ASN	N-CA-C	-6.07	104.58	111.07
1	R	484	ASP	N-CA-CB	-6.06	101.22	110.01
3	T	453	ASP	O-C-N	-6.06	115.24	122.15
4	V	840	LYS	N-CA-C	-6.06	104.74	111.71
3	H	414	VAL	CA-C-O	-6.06	114.43	120.85
3	N	336	LEU	N-CA-C	6.05	117.68	111.14
1	R	306	PRO	N-CA-CB	6.05	109.75	103.15
5	E	231	LYS	N-CA-C	-6.05	102.27	110.68
1	L	306	PRO	N-CA-CB	6.05	109.74	103.15
1	X	403	ILE	CA-C-N	-6.05	111.80	122.20
1	X	403	ILE	C-N-CA	-6.05	111.80	122.20
1	X	484	ASP	N-CA-CB	-6.04	101.25	110.01
5	K	1261	PHE	N-CA-CB	6.04	119.11	110.16
1	X	306	PRO	O-C-N	-6.04	115.65	122.18
5	Q	397	SER	CA-C-N	6.04	128.30	120.44
5	Q	397	SER	C-N-CA	6.04	128.30	120.44
1	F	438	ILE	CA-C-N	-6.04	111.13	120.31
1	F	438	ILE	C-N-CA	-6.04	111.13	120.31
1	R	403	ILE	CA-C-N	-6.04	111.81	122.20
1	R	403	ILE	C-N-CA	-6.04	111.81	122.20
2	G	350	VAL	N-CA-CB	6.04	117.61	110.55
3	T	471	LEU	O-C-N	-6.04	115.27	122.15
6	U	220	ILE	N-CA-C	-6.04	104.46	110.62
5	Q	1261	PHE	N-CA-CB	6.04	119.10	110.16
3	H	430	ARG	N-CA-C	-6.04	105.87	113.23
1	X	461	ARG	CA-C-O	6.04	129.14	120.51
4	D	1492	GLY	O-C-N	6.04	129.18	122.54
5	W	846	ILE	CB-CA-C	-6.04	104.16	111.88
3	H	336	LEU	N-CA-C	6.03	117.66	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	384	ASP	CB-CA-C	-6.03	99.08	110.67
4	J	840	LYS	N-CA-C	-6.03	104.77	111.71
5	W	231	LYS	N-CA-C	-6.03	102.29	110.68
1	L	403	ILE	CA-C-N	-6.03	111.83	122.20
1	L	403	ILE	C-N-CA	-6.03	111.83	122.20
3	Z	420	THR	CB-CA-C	6.03	121.10	110.85
2	M	320	LYS	CA-C-N	-6.03	110.66	120.72
2	M	320	LYS	C-N-CA	-6.03	110.66	120.72
5	K	231	LYS	N-CA-C	-6.03	102.30	110.68
1	F	366	THR	N-CA-CB	6.03	118.75	110.01
3	N	420	THR	CB-CA-C	6.03	121.09	110.85
2	M	369	ASN	N-CA-CB	-6.02	100.94	110.28
4	J	1667	ALA	CB-CA-C	-6.02	100.79	110.79
1	X	366	THR	N-CA-CB	6.02	118.74	110.01
1	F	131	GLY	O-C-N	-6.02	116.41	122.19
1	L	442	ASN	CA-C-O	6.02	127.14	120.82
5	Q	416	GLY	CA-C-N	-6.02	115.20	122.90
5	Q	416	GLY	C-N-CA	-6.02	115.20	122.90
1	F	403	ILE	CA-C-N	-6.02	111.85	122.20
1	F	403	ILE	C-N-CA	-6.02	111.85	122.20
3	N	453	ASP	O-C-N	-6.02	115.29	122.15
4	D	1667	ALA	CB-CA-C	-6.02	100.80	110.79
5	E	397	SER	CA-C-N	6.02	128.26	120.44
5	E	397	SER	C-N-CA	6.02	128.26	120.44
1	F	461	ARG	CA-C-O	6.01	129.11	120.51
1	L	366	THR	N-CA-CB	6.01	118.73	110.01
1	R	306	PRO	O-C-N	-6.01	115.69	122.18
1	R	366	THR	N-CA-CB	6.01	118.73	110.01
3	H	420	THR	CB-CA-C	6.01	121.06	110.85
1	R	131	GLY	O-C-N	-6.01	116.42	122.19
6	O	620	GLY	N-CA-C	-6.01	106.43	115.32
4	P	800	PRO	O-C-N	6.01	124.07	121.31
5	W	86	ARG	CA-C-N	-6.01	118.10	123.33
5	W	86	ARG	C-N-CA	-6.01	118.10	123.33
1	R	330	PHE	CA-C-N	-6.01	110.99	120.60
1	R	330	PHE	C-N-CA	-6.01	110.99	120.60
3	T	336	LEU	N-CA-C	6.00	117.62	111.14
1	X	152	LYS	CB-CA-C	-6.00	100.54	109.90
1	R	428	LYS	N-CA-C	6.00	117.62	111.14
6	U	252	MET	N-CA-CB	6.00	120.63	110.49
1	F	442	ASN	CA-C-O	6.00	127.12	120.82
2	G	342	PRO	N-CA-CB	-6.00	97.16	103.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	461	ARG	CA-C-O	6.00	129.09	120.51
3	T	496	GLN	CA-C-N	6.00	133.00	121.54
3	T	496	GLN	C-N-CA	6.00	133.00	121.54
4	J	1500	LEU	CA-C-O	-6.00	114.52	120.82
5	K	397	SER	CA-C-N	6.00	128.23	120.44
5	K	397	SER	C-N-CA	6.00	128.23	120.44
2	M	346	PHE	N-CA-C	-5.99	104.67	111.14
1	F	152	LYS	CB-CA-C	-5.99	100.55	109.90
2	G	259	GLN	N-CA-C	-5.99	104.82	111.71
1	F	484	ASP	N-CA-CB	-5.99	101.32	110.01
2	M	332	PRO	O-C-N	5.99	128.53	121.46
4	D	1535	THR	O-C-N	-5.99	115.77	122.12
6	C	252	MET	N-CA-CB	5.99	120.61	110.49
6	I	177	SER	CA-C-N	-5.99	114.80	122.77
6	I	177	SER	C-N-CA	-5.99	114.80	122.77
1	F	300	PRO	N-CA-C	5.99	118.00	110.70
2	G	346	PHE	N-CA-C	-5.99	104.67	111.14
4	J	1535	THR	O-C-N	-5.99	115.77	122.12
5	Q	205	LEU	CB-CA-C	-5.99	104.00	111.43
1	F	306	PRO	N-CA-CB	5.99	109.68	103.15
5	K	86	ARG	CA-C-N	-5.99	118.12	123.33
5	K	86	ARG	C-N-CA	-5.99	118.12	123.33
1	L	131	GLY	O-C-N	-5.99	116.44	122.19
3	N	496	GLN	CA-C-N	5.98	132.97	121.54
3	N	496	GLN	C-N-CA	5.98	132.97	121.54
1	R	442	ASN	CA-C-O	5.98	127.10	120.82
4	P	1492	GLY	O-C-N	5.98	129.12	122.54
3	H	496	GLN	CA-C-N	5.98	132.96	121.54
3	H	496	GLN	C-N-CA	5.98	132.96	121.54
2	Y	384	ASP	CB-CA-C	-5.98	99.19	110.67
6	U	177	SER	CA-C-N	-5.98	114.82	122.77
6	U	177	SER	C-N-CA	-5.98	114.82	122.77
2	M	321	ASN	N-CA-C	-5.97	105.25	112.54
5	W	397	SER	CA-C-N	5.97	128.21	120.44
5	W	397	SER	C-N-CA	5.97	128.21	120.44
6	I	620	GLY	N-CA-C	-5.97	106.48	115.32
4	V	1492	GLY	O-C-N	5.97	129.11	122.54
6	O	220	ILE	N-CA-C	-5.97	104.53	110.62
2	G	384	ASP	CB-CA-C	-5.97	99.21	110.67
2	Y	342	PRO	N-CA-CB	-5.97	97.19	103.52
1	R	152	LYS	CB-CA-C	-5.97	100.58	109.90
1	L	152	LYS	CB-CA-C	-5.97	100.59	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	453	ASP	O-C-N	-5.97	115.35	122.15
3	H	394	ASP	CA-C-O	5.97	126.86	120.24
4	P	1500	LEU	CA-C-O	-5.97	114.56	120.82
5	K	205	LEU	CB-CA-C	-5.97	104.03	111.43
6	I	586	LYS	CA-C-N	5.97	132.94	121.54
6	I	586	LYS	C-N-CA	5.97	132.94	121.54
2	Y	332	PRO	O-C-N	5.96	128.50	121.46
1	L	432	ASN	N-CA-CB	5.96	119.27	110.56
2	M	350	VAL	N-CA-CB	5.96	117.53	110.55
5	W	205	LEU	CB-CA-C	-5.96	104.04	111.43
1	L	330	PHE	CA-C-N	-5.96	111.06	120.60
1	L	330	PHE	C-N-CA	-5.96	111.06	120.60
1	R	438	ILE	CA-C-N	-5.96	111.25	120.31
1	R	438	ILE	C-N-CA	-5.96	111.25	120.31
6	C	177	SER	CA-C-N	-5.96	114.84	122.77
6	C	177	SER	C-N-CA	-5.96	114.84	122.77
2	Y	407	HIS	CA-C-N	-5.96	111.83	120.29
2	Y	407	HIS	C-N-CA	-5.96	111.83	120.29
4	J	800	PRO	O-C-N	5.96	124.05	121.31
4	J	1492	GLY	O-C-N	5.96	129.10	122.54
5	E	846	ILE	CB-CA-C	-5.96	104.25	111.88
2	G	321	ASN	N-CA-C	-5.96	105.27	112.54
5	Q	231	LYS	N-CA-C	-5.96	102.40	110.68
1	X	306	PRO	N-CA-CB	5.96	109.64	103.15
4	J	1541	THR	O-C-N	5.96	126.31	120.71
4	D	1517	SER	N-CA-C	-5.95	101.61	111.37
1	F	330	PHE	CA-C-N	-5.95	111.08	120.60
1	F	330	PHE	C-N-CA	-5.95	111.08	120.60
1	L	438	ILE	CA-C-N	-5.95	111.27	120.31
1	L	438	ILE	C-N-CA	-5.95	111.27	120.31
2	S	384	ASP	CB-CA-C	-5.95	99.25	110.67
1	F	432	ASN	N-CA-CB	5.95	119.24	110.56
6	C	586	LYS	CA-C-N	5.95	132.90	121.54
6	C	586	LYS	C-N-CA	5.95	132.90	121.54
2	G	407	HIS	CA-C-N	-5.95	111.85	120.29
2	G	407	HIS	C-N-CA	-5.95	111.85	120.29
1	R	300	PRO	N-CA-C	5.94	117.95	110.70
4	V	1481	VAL	O-C-N	-5.94	116.08	121.91
2	M	342	PRO	N-CA-CB	-5.94	97.22	103.52
4	P	1517	SER	N-CA-C	-5.94	101.62	111.37
5	K	846	ILE	CB-CA-C	-5.94	104.27	111.88
6	O	252	MET	N-CA-CB	5.94	120.53	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	C	761	LYS	N-CA-C	-5.94	100.82	110.20
6	O	177	SER	CA-C-N	-5.94	114.87	122.77
6	O	177	SER	C-N-CA	-5.94	114.87	122.77
1	L	306	PRO	O-C-N	-5.94	115.77	122.18
3	T	446	ARG	N-CA-C	-5.94	103.78	111.02
1	X	438	ILE	CA-C-N	-5.94	111.29	120.31
1	X	438	ILE	C-N-CA	-5.94	111.29	120.31
1	L	461	ARG	CA-C-O	5.94	129.00	120.51
5	Q	100	MET	CB-CA-C	-5.94	103.64	111.42
2	S	350	VAL	N-CA-CB	5.93	117.49	110.55
4	P	1482	CYS	N-CA-C	5.93	117.83	111.36
4	V	1500	LEU	CA-C-O	-5.93	114.59	120.82
4	V	1541	THR	O-C-N	5.93	126.29	120.71
1	L	300	PRO	N-CA-C	5.93	117.94	110.70
2	S	342	PRO	N-CA-CB	-5.93	97.23	103.52
1	X	131	GLY	O-C-N	-5.93	116.50	122.19
4	P	1535	THR	O-C-N	-5.93	115.83	122.12
1	X	471	GLN	CA-C-N	-5.93	111.87	120.29
1	X	471	GLN	C-N-CA	-5.93	111.87	120.29
2	S	346	PHE	N-CA-C	-5.93	104.74	111.14
6	U	586	LYS	CA-C-N	5.93	132.87	121.54
6	U	586	LYS	C-N-CA	5.93	132.87	121.54
2	Y	346	PHE	N-CA-C	-5.92	104.75	111.14
6	I	252	MET	N-CA-CB	5.92	120.50	110.49
6	I	761	LYS	N-CA-C	-5.92	100.84	110.20
1	X	300	PRO	N-CA-C	5.92	117.92	110.70
5	W	238	VAL	CB-CA-C	-5.92	102.37	111.31
1	X	432	ASN	N-CA-CB	5.92	119.20	110.56
1	X	442	ASN	CA-C-O	5.92	127.03	120.82
4	V	1517	SER	N-CA-C	-5.92	101.66	111.37
4	D	1481	VAL	O-C-N	-5.92	116.11	121.91
1	X	428	LYS	N-CA-C	5.92	117.81	111.36
6	C	620	GLY	N-CA-C	-5.92	106.56	115.32
2	S	407	HIS	CA-C-N	-5.92	111.89	120.29
2	S	407	HIS	C-N-CA	-5.92	111.89	120.29
2	M	407	HIS	CA-C-N	-5.91	111.89	120.29
2	M	407	HIS	C-N-CA	-5.91	111.89	120.29
1	X	330	PHE	CA-C-N	-5.91	111.14	120.60
1	X	330	PHE	C-N-CA	-5.91	111.14	120.60
6	O	761	LYS	N-CA-C	-5.91	100.86	110.20
6	U	620	GLY	N-CA-C	-5.91	106.57	115.32
1	R	471	GLN	CA-C-N	-5.91	111.90	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	471	GLN	C-N-CA	-5.91	111.90	120.29
1	F	471	GLN	CA-C-N	-5.91	111.91	120.29
1	F	471	GLN	C-N-CA	-5.91	111.91	120.29
4	J	1517	SER	N-CA-C	-5.91	101.69	111.37
5	E	205	LEU	CB-CA-C	-5.91	104.11	111.43
1	L	471	GLN	CA-C-N	-5.90	111.91	120.29
1	L	471	GLN	C-N-CA	-5.90	111.91	120.29
2	M	303	ARG	N-CA-C	-5.90	104.97	111.82
2	M	259	GLN	N-CA-C	-5.90	104.92	111.71
4	J	1538	SER	N-CA-C	-5.90	105.18	112.38
6	O	586	LYS	CA-C-N	5.90	132.81	121.54
6	O	586	LYS	C-N-CA	5.90	132.81	121.54
5	Q	846	ILE	CB-CA-C	-5.90	104.33	111.88
1	R	432	ASN	N-CA-CB	5.90	119.17	110.56
4	D	1541	THR	O-C-N	5.90	126.25	120.71
2	S	321	ASN	N-CA-C	-5.90	105.34	112.54
2	Y	321	ASN	N-CA-C	-5.89	105.35	112.54
3	Z	446	ARG	N-CA-C	-5.89	103.83	111.02
6	I	726	SER	CA-C-N	5.89	128.84	120.53
6	I	726	SER	C-N-CA	5.89	128.84	120.53
2	Y	350	VAL	N-CA-CB	5.89	117.44	110.55
3	N	394	ASP	CA-C-O	5.89	126.78	120.24
5	Q	86	ARG	CA-C-N	-5.89	118.20	123.33
5	Q	86	ARG	C-N-CA	-5.89	118.20	123.33
1	L	312	ALA	N-CA-C	-5.89	104.94	111.71
1	R	312	ALA	N-CA-C	-5.89	104.94	111.71
1	F	428	LYS	N-CA-C	5.88	117.77	111.36
4	P	1538	SER	N-CA-C	-5.88	105.20	112.38
3	Z	489	ASP	O-C-N	-5.88	115.98	122.09
4	J	1481	VAL	O-C-N	-5.88	116.15	121.91
6	U	761	LYS	N-CA-C	-5.88	100.91	110.20
1	L	398	LYS	N-CA-C	5.88	120.31	113.20
5	K	97	PHE	N-CA-C	-5.88	104.98	114.09
3	Z	411	GLU	N-CA-C	-5.87	98.29	110.80
3	N	446	ARG	N-CA-C	-5.87	103.86	111.02
1	X	157	ASN	CA-C-N	5.87	129.04	120.71
1	X	157	ASN	C-N-CA	5.87	129.04	120.71
1	L	440	MET	N-CA-C	-5.87	104.79	111.07
3	N	411	GLU	N-CA-C	-5.87	98.30	110.80
4	D	1663	GLN	CA-C-N	5.87	132.75	121.54
4	D	1663	GLN	C-N-CA	5.87	132.75	121.54
6	O	726	SER	CA-C-N	5.87	128.81	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	726	SER	C-N-CA	5.87	128.81	120.53
5	E	100	MET	CB-CA-C	-5.87	103.73	111.42
2	Y	259	GLN	N-CA-C	-5.87	104.96	111.71
1	L	428	LYS	N-CA-C	5.87	117.75	111.36
1	R	440	MET	N-CA-C	-5.86	104.80	111.07
4	V	1482	CYS	N-CA-C	5.86	117.75	111.36
4	J	1482	CYS	N-CA-C	5.86	117.75	111.36
6	I	590	ASP	CB-CA-C	-5.86	109.80	116.54
1	R	157	ASN	CA-C-N	5.86	129.03	120.71
1	R	157	ASN	C-N-CA	5.86	129.03	120.71
1	F	398	LYS	N-CA-C	5.86	120.29	113.20
6	C	220	ILE	N-CA-C	-5.86	104.64	110.62
2	G	327	ARG	O-C-N	5.86	130.38	122.59
2	G	332	PRO	O-C-N	5.86	128.37	121.46
3	H	411	GLU	N-CA-C	-5.86	98.33	110.80
4	D	1535	THR	N-CA-C	-5.86	104.90	111.28
6	C	726	SER	CA-C-N	5.86	128.79	120.53
6	C	726	SER	C-N-CA	5.86	128.79	120.53
5	Q	97	PHE	N-CA-C	-5.86	105.01	114.09
6	I	345	LEU	N-CA-CB	5.85	119.06	110.57
1	F	306	PRO	O-C-N	-5.85	115.86	122.18
2	G	380	ILE	CB-CA-C	-5.85	101.78	111.32
5	K	224	GLY	N-CA-C	-5.85	106.58	115.00
6	U	726	SER	CA-C-N	5.85	128.78	120.53
6	U	726	SER	C-N-CA	5.85	128.78	120.53
2	S	327	ARG	O-C-N	5.85	130.37	122.59
4	V	1457	ASP	N-CA-C	-5.85	103.88	111.71
1	F	465	GLN	N-CA-CB	5.84	118.70	109.82
3	T	411	GLU	N-CA-C	-5.84	98.35	110.80
4	D	1538	SER	N-CA-C	-5.84	105.25	112.38
6	U	590	ASP	CB-CA-C	-5.84	109.82	116.54
4	J	1663	GLN	CA-C-N	5.84	132.70	121.54
4	J	1663	GLN	C-N-CA	5.84	132.70	121.54
6	O	590	ASP	CB-CA-C	-5.84	109.83	116.54
5	K	100	MET	CB-CA-C	-5.84	103.77	111.42
1	X	398	LYS	N-CA-C	5.84	120.26	113.20
5	W	97	PHE	N-CA-C	-5.83	105.05	114.09
6	I	220	ILE	N-CA-C	-5.83	104.67	110.62
1	F	474	LEU	CA-C-N	-5.83	112.47	120.28
1	F	474	LEU	C-N-CA	-5.83	112.47	120.28
1	R	398	LYS	N-CA-C	5.83	120.25	113.20
1	F	312	ALA	N-CA-C	-5.83	105.01	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	P	1663	GLN	CA-C-N	5.83	132.67	121.54
4	P	1663	GLN	C-N-CA	5.83	132.67	121.54
2	Y	327	ARG	O-C-N	5.83	130.34	122.59
1	F	440	MET	N-CA-C	-5.83	104.84	111.07
6	C	590	ASP	CB-CA-C	-5.82	109.85	116.54
1	L	157	ASN	CA-C-N	5.82	128.97	120.71
1	L	157	ASN	C-N-CA	5.82	128.97	120.71
3	T	394	ASP	CA-C-O	5.82	126.70	120.24
1	F	152	LYS	N-CA-CB	5.82	118.59	109.69
2	M	365	GLU	CA-C-O	-5.82	112.93	119.79
5	E	97	PHE	N-CA-C	-5.82	105.07	114.09
1	F	157	ASN	CA-C-N	5.82	128.97	120.71
1	F	157	ASN	C-N-CA	5.82	128.97	120.71
2	Y	309	ASP	N-CA-C	-5.82	105.02	111.71
1	R	465	GLN	N-CA-CB	5.82	118.66	109.82
5	W	224	GLY	N-CA-C	-5.81	106.63	115.00
5	K	1206	ILE	CB-CA-C	5.81	121.17	112.16
6	C	299	ILE	CB-CA-C	-5.81	104.20	112.22
1	F	461	ARG	N-CA-C	-5.81	98.42	110.80
1	L	143	GLN	N-CA-CB	-5.81	101.89	110.49
1	X	440	MET	N-CA-C	-5.81	104.86	111.07
2	Y	369	ASN	N-CA-C	-5.81	105.08	111.82
1	L	461	ARG	N-CA-C	-5.81	98.43	110.80
4	V	1663	GLN	CA-C-N	5.80	132.63	121.54
4	V	1663	GLN	C-N-CA	5.80	132.63	121.54
1	F	410	LEU	CB-CA-C	-5.80	101.16	110.79
2	M	369	ASN	N-CA-C	-5.80	105.09	111.82
2	M	408	GLU	CA-C-O	-5.80	114.27	120.42
3	Z	394	ASP	CA-C-O	5.80	126.68	120.24
1	R	391	ILE	CB-CA-C	-5.80	104.31	112.14
2	Y	373	THR	CB-CA-C	5.79	120.70	110.85
1	F	454	TYR	CB-CA-C	5.79	121.95	110.42
2	G	373	THR	CB-CA-C	5.79	120.70	110.85
1	X	465	GLN	N-CA-CB	5.79	118.62	109.82
1	R	474	LEU	CA-C-N	-5.79	112.52	120.28
1	R	474	LEU	C-N-CA	-5.79	112.52	120.28
4	J	1535	THR	N-CA-C	-5.79	104.97	111.28
3	H	446	ARG	N-CA-C	-5.79	103.96	111.02
1	L	465	GLN	N-CA-CB	5.79	118.62	109.82
1	R	436	SER	O-C-N	-5.79	115.19	122.20
4	D	1482	CYS	N-CA-C	5.79	117.67	111.36
2	G	309	ASP	N-CA-C	-5.79	105.05	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	391	ILE	CB-CA-C	-5.79	104.33	112.14
1	R	461	ARG	N-CA-C	-5.79	98.47	110.80
4	P	511	ILE	CB-CA-C	-5.79	106.42	114.00
5	Q	333	THR	N-CA-C	-5.79	105.06	111.71
4	V	1535	THR	N-CA-C	-5.78	104.98	111.28
4	P	1535	THR	N-CA-C	-5.78	104.98	111.28
4	V	1538	SER	N-CA-C	-5.78	105.33	112.38
1	X	461	ARG	N-CA-C	-5.78	98.49	110.80
1	X	454	TYR	CB-CA-C	5.78	121.92	110.42
2	S	398	ALA	CB-CA-C	-5.78	101.03	110.85
6	C	345	LEU	N-CA-CB	5.78	118.95	110.57
1	L	454	TYR	CB-CA-C	5.78	121.91	110.42
2	S	365	GLU	CA-C-O	-5.78	112.97	119.79
4	J	511	ILE	CB-CA-C	-5.78	106.43	114.00
6	O	299	ILE	CB-CA-C	-5.78	104.25	112.22
1	R	410	LEU	CB-CA-C	-5.77	101.20	110.79
6	O	345	LEU	N-CA-CB	5.77	118.94	110.57
2	M	309	ASP	N-CA-C	-5.77	105.07	111.71
5	Q	224	GLY	N-CA-C	-5.77	106.69	115.00
1	F	391	ILE	CB-CA-C	-5.77	104.35	112.14
1	L	391	ILE	CB-CA-C	-5.77	104.35	112.14
2	S	369	ASN	N-CA-C	-5.77	105.13	111.82
1	X	312	ALA	N-CA-C	-5.77	105.08	111.71
5	W	1206	ILE	CB-CA-C	5.76	121.09	112.16
2	M	327	ARG	O-C-N	5.76	130.25	122.59
3	N	377	ARG	CA-C-O	5.76	128.75	120.51
3	Z	377	ARG	CA-C-O	5.76	128.75	120.51
6	I	492	VAL	CB-CA-C	-5.76	104.36	112.14
2	S	309	ASP	N-CA-C	-5.76	105.09	111.71
4	V	1501	ASP	O-C-N	-5.76	116.02	122.12
1	F	279	VAL	CB-CA-C	-5.76	105.70	111.80
3	H	377	ARG	CA-C-O	5.76	128.74	120.51
1	R	483	ASP	CA-C-N	5.76	127.92	120.44
1	R	483	ASP	C-N-CA	5.76	127.92	120.44
4	P	1481	VAL	O-C-N	-5.75	116.27	121.91
2	S	303	ARG	N-CA-C	-5.75	105.15	111.82
4	V	511	ILE	CB-CA-C	-5.75	106.46	114.00
4	V	1477	LEU	CA-C-O	-5.75	113.35	119.97
2	G	361	ARG	N-CA-CB	-5.75	101.65	110.16
2	Y	328	THR	O-C-N	-5.75	116.01	122.34
4	P	1477	LEU	CA-C-O	-5.75	113.36	119.97
5	K	535	ILE	CB-CA-C	-5.75	105.58	112.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	P	1546	LEU	O-C-N	5.75	128.95	122.22
5	E	224	GLY	N-CA-C	-5.75	106.72	115.00
5	E	333	THR	N-CA-C	-5.75	105.10	111.71
2	G	365	GLU	CA-C-O	-5.75	113.01	119.79
1	L	410	LEU	CB-CA-C	-5.75	101.25	110.79
1	F	436	SER	O-C-N	-5.75	115.25	122.20
2	S	332	PRO	O-C-N	5.75	128.24	121.46
1	R	143	GLN	N-CA-CB	-5.74	101.99	110.49
2	M	398	ALA	CB-CA-C	-5.74	101.09	110.85
4	P	1501	ASP	O-C-N	-5.74	116.03	122.12
3	N	489	ASP	O-C-N	-5.74	116.12	122.09
3	Z	381	LYS	CA-C-N	5.74	129.53	120.47
3	Z	381	LYS	C-N-CA	5.74	129.53	120.47
3	N	381	LYS	CA-C-N	5.74	129.54	120.47
3	N	381	LYS	C-N-CA	5.74	129.54	120.47
2	S	373	THR	CB-CA-C	5.74	120.61	110.85
4	P	1450	GLU	O-C-N	5.74	130.22	122.59
1	R	474	LEU	CA-C-O	-5.74	114.34	120.42
6	U	345	LEU	N-CA-CB	5.74	118.89	110.57
5	Q	1206	ILE	CB-CA-C	5.74	121.05	112.16
4	J	1450	GLU	O-C-N	5.73	130.22	122.59
6	C	482	MET	CA-C-N	5.73	132.02	121.70
6	C	482	MET	C-N-CA	5.73	132.02	121.70
3	H	430	ARG	CA-C-O	5.73	126.71	120.12
5	E	535	ILE	CB-CA-C	-5.73	105.60	112.19
2	G	382	PRO	CA-C-N	5.73	128.43	120.29
2	G	382	PRO	C-N-CA	5.73	128.43	120.29
5	Q	535	ILE	CB-CA-C	-5.73	105.60	112.19
2	G	369	ASN	N-CA-C	-5.73	105.18	111.82
6	U	492	VAL	CB-CA-C	-5.73	104.41	112.14
1	X	474	LEU	CA-C-N	-5.72	112.61	120.28
1	X	474	LEU	C-N-CA	-5.72	112.61	120.28
2	Y	303	ARG	N-CA-C	-5.72	105.12	111.36
2	M	382	PRO	CA-C-N	5.72	128.42	120.29
2	M	382	PRO	C-N-CA	5.72	128.42	120.29
3	T	377	ARG	CA-C-O	5.72	128.70	120.51
4	D	1434	ARG	N-CA-C	-5.72	101.88	109.84
6	U	299	ILE	CB-CA-C	-5.72	104.32	112.22
2	Y	365	GLU	CA-C-O	-5.72	113.04	119.79
5	W	535	ILE	CB-CA-C	-5.71	105.62	112.19
6	U	482	MET	CA-C-N	5.71	131.99	121.70
6	U	482	MET	C-N-CA	5.71	131.99	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	279	VAL	CB-CA-C	-5.71	105.75	111.80
1	R	454	TYR	CB-CA-C	5.71	121.79	110.42
1	X	152	LYS	N-CA-CB	5.71	118.43	109.69
4	V	800	PRO	O-C-N	5.71	123.94	121.31
1	R	152	LYS	N-CA-CB	5.71	118.42	109.69
4	D	1502	ARG	O-C-N	5.71	128.66	122.15
5	W	800	GLU	CA-C-N	-5.71	112.29	122.45
5	W	800	GLU	C-N-CA	-5.71	112.29	122.45
2	G	398	ALA	CB-CA-C	-5.71	101.15	110.85
3	Z	353	GLN	CA-C-N	5.71	127.92	120.28
3	Z	353	GLN	C-N-CA	5.71	127.92	120.28
1	F	446	ALA	N-CA-CB	5.70	118.28	110.01
3	H	353	GLN	CA-C-N	5.70	127.92	120.28
3	H	353	GLN	C-N-CA	5.70	127.92	120.28
1	L	474	LEU	CA-C-N	-5.70	112.64	120.28
1	L	474	LEU	C-N-CA	-5.70	112.64	120.28
4	V	1450	GLU	O-C-N	5.70	130.18	122.59
1	F	483	ASP	CA-C-N	5.70	127.85	120.44
1	F	483	ASP	C-N-CA	5.70	127.85	120.44
1	L	152	LYS	N-CA-CB	5.70	118.42	109.69
3	H	381	LYS	CA-C-N	5.70	129.48	120.47
3	H	381	LYS	C-N-CA	5.70	129.48	120.47
1	X	410	LEU	CB-CA-C	-5.70	101.33	110.79
2	Y	382	PRO	CA-C-N	5.70	128.38	120.29
2	Y	382	PRO	C-N-CA	5.70	128.38	120.29
4	P	1434	ARG	N-CA-C	-5.70	101.92	109.84
6	C	492	VAL	CB-CA-C	-5.70	104.44	112.14
5	E	800	GLU	CA-C-N	-5.70	112.31	122.45
5	E	800	GLU	C-N-CA	-5.70	112.31	122.45
1	X	143	GLN	N-CA-CB	-5.70	102.06	110.49
2	M	361	ARG	N-CA-CB	-5.70	101.73	110.16
1	R	471	GLN	O-C-N	5.70	128.64	122.15
6	I	299	ILE	CB-CA-C	-5.69	104.36	112.22
5	Q	800	GLU	CA-C-N	-5.69	112.32	122.45
5	Q	800	GLU	C-N-CA	-5.69	112.32	122.45
1	L	436	SER	O-C-N	-5.69	115.31	122.20
2	S	382	PRO	CA-C-N	5.69	128.37	120.29
2	S	382	PRO	C-N-CA	5.69	128.37	120.29
4	J	1477	LEU	CA-C-O	-5.69	113.43	119.97
6	I	482	MET	CA-C-N	5.69	131.94	121.70
6	I	482	MET	C-N-CA	5.69	131.94	121.70
2	Y	398	ALA	CB-CA-C	-5.69	101.18	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	489	ASP	O-C-N	-5.69	116.17	122.09
2	S	361	ARG	N-CA-CB	-5.69	101.74	110.16
3	T	381	LYS	CA-C-N	5.69	129.46	120.47
3	T	381	LYS	C-N-CA	5.69	129.46	120.47
4	D	1546	LEU	O-C-N	5.68	128.87	122.22
5	W	333	THR	N-CA-C	-5.68	105.17	111.71
5	K	312	MET	CA-C-N	5.68	131.93	121.70
5	K	312	MET	C-N-CA	5.68	131.93	121.70
4	J	57	PRO	N-CA-C	5.68	117.63	110.70
5	Q	312	MET	CA-C-N	5.68	131.93	121.70
5	Q	312	MET	C-N-CA	5.68	131.93	121.70
4	D	511	ILE	CB-CA-C	-5.68	106.56	114.00
5	K	333	THR	N-CA-C	-5.68	105.18	111.71
5	K	800	GLU	CA-C-N	-5.68	112.34	122.45
5	K	800	GLU	C-N-CA	-5.68	112.34	122.45
4	V	1434	ARG	N-CA-C	-5.68	101.95	109.84
1	X	471	GLN	O-C-N	5.68	128.62	122.15
2	M	373	THR	CB-CA-C	5.68	120.50	110.85
1	R	307	ILE	CA-C-N	5.68	128.48	120.42
1	R	307	ILE	C-N-CA	5.68	128.48	120.42
2	S	350	VAL	CB-CA-C	-5.68	104.70	111.97
6	O	492	VAL	CB-CA-C	-5.68	104.48	112.14
2	Y	408	GLU	CA-C-O	-5.67	114.41	120.42
1	R	477	LEU	N-CA-CB	5.67	118.46	110.12
3	T	353	GLN	CA-C-N	5.67	127.88	120.28
3	T	353	GLN	C-N-CA	5.67	127.88	120.28
4	D	1450	GLU	O-C-N	5.67	130.14	122.59
1	X	483	ASP	CA-C-N	5.67	127.81	120.44
1	X	483	ASP	C-N-CA	5.67	127.81	120.44
1	L	471	GLN	O-C-N	5.67	128.62	122.15
6	O	482	MET	N-CA-C	5.67	122.88	110.80
2	G	408	GLU	CA-C-O	-5.67	114.41	120.42
5	W	312	MET	CA-C-N	5.67	131.91	121.70
5	W	312	MET	C-N-CA	5.67	131.91	121.70
5	Q	1237	SER	N-CA-C	-5.67	105.00	111.07
1	L	477	LEU	N-CA-CB	5.67	118.45	110.12
3	T	489	ASP	O-C-N	-5.67	116.19	122.09
5	E	1206	ILE	CB-CA-C	5.67	120.95	112.16
1	F	143	GLN	N-CA-CB	-5.67	102.10	110.49
1	X	477	LEU	N-CA-CB	5.67	118.45	110.12
5	W	230	GLY	N-CA-C	-5.67	104.81	112.57
1	X	446	ALA	N-CA-CB	5.66	118.22	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	K	1237	SER	N-CA-C	-5.66	105.01	111.07
6	I	482	MET	N-CA-C	5.66	122.86	110.80
4	V	1546	LEU	O-C-N	5.66	128.84	122.22
6	C	482	MET	N-CA-C	5.66	122.85	110.80
1	F	323	ILE	N-CA-CB	5.66	116.48	111.67
1	F	490	LEU	O-C-N	-5.66	115.31	122.27
2	G	328	THR	O-C-N	-5.66	116.12	122.34
4	D	1477	LEU	CA-C-O	-5.66	113.47	119.97
6	O	482	MET	CA-C-N	5.65	131.88	121.70
6	O	482	MET	C-N-CA	5.65	131.88	121.70
6	U	482	MET	N-CA-C	5.65	122.84	110.80
5	E	312	MET	CA-C-N	5.65	131.88	121.70
5	E	312	MET	C-N-CA	5.65	131.88	121.70
2	G	329	GLN	O-C-N	5.65	129.84	122.15
6	I	437	LEU	N-CA-C	-5.65	105.12	111.28
5	Q	442	GLN	CA-C-N	5.65	135.59	121.80
5	Q	442	GLN	C-N-CA	5.65	135.59	121.80
1	F	365	GLN	CA-C-O	-5.65	114.88	120.70
4	J	1501	ASP	O-C-N	-5.65	116.13	122.12
4	D	1451	ARG	N-CA-C	-5.65	98.77	110.80
2	Y	329	GLN	O-C-N	5.64	129.83	122.15
2	M	328	THR	O-C-N	-5.64	116.13	122.34
5	E	442	GLN	CA-C-N	5.64	135.57	121.80
5	E	442	GLN	C-N-CA	5.64	135.57	121.80
3	H	353	GLN	CA-C-O	-5.64	114.57	120.55
1	X	474	LEU	CA-C-O	-5.64	114.44	120.42
3	N	353	GLN	CA-C-N	5.64	127.84	120.28
3	N	353	GLN	C-N-CA	5.64	127.84	120.28
1	R	471	GLN	N-CA-C	-5.64	105.21	111.36
4	D	1501	ASP	O-C-N	-5.64	116.14	122.12
5	Q	440	PRO	N-CA-C	-5.64	106.81	113.86
1	L	438	ILE	CB-CA-C	-5.64	104.53	112.14
4	J	1451	ARG	N-CA-C	-5.64	98.79	110.80
4	J	1434	ARG	N-CA-C	-5.64	102.01	109.84
1	L	446	ALA	N-CA-CB	5.63	118.18	110.01
2	Y	361	ARG	N-CA-CB	-5.63	101.82	110.16
3	Z	387	LYS	CA-C-O	5.63	126.52	120.55
1	F	334	LEU	N-CA-C	-5.63	104.52	111.33
4	V	520	LEU	CA-C-N	5.63	131.47	120.99
4	V	520	LEU	C-N-CA	5.63	131.47	120.99
4	P	1451	ARG	N-CA-C	-5.63	98.81	110.80
5	K	238	VAL	CB-CA-C	-5.63	102.25	110.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	278	LYS	CA-C-N	5.63	127.75	120.44
2	G	278	LYS	C-N-CA	5.63	127.75	120.44
1	X	334	LEU	N-CA-C	-5.63	104.52	111.33
5	K	442	GLN	CA-C-N	5.63	135.53	121.80
5	K	442	GLN	C-N-CA	5.63	135.53	121.80
5	Q	238	VAL	CB-CA-C	-5.63	102.26	110.81
5	W	442	GLN	CA-C-N	5.62	135.53	121.80
5	W	442	GLN	C-N-CA	5.62	135.53	121.80
3	N	435	LYS	N-CA-C	-5.62	105.15	111.28
6	C	305	LEU	CA-C-N	5.62	126.87	119.84
6	C	305	LEU	C-N-CA	5.62	126.87	119.84
4	P	520	LEU	CA-C-N	5.62	131.45	120.99
4	P	520	LEU	C-N-CA	5.62	131.45	120.99
4	J	1546	LEU	O-C-N	5.62	128.80	122.22
2	G	350	VAL	CB-CA-C	-5.62	104.78	111.97
4	V	1476	ALA	CA-C-O	5.62	126.72	120.82
2	G	303	ARG	N-CA-C	-5.62	105.31	111.82
1	R	446	ALA	N-CA-CB	5.62	118.15	110.01
5	W	1237	SER	N-CA-C	-5.62	105.06	111.07
3	H	435	LYS	N-CA-C	-5.61	105.16	111.28
4	V	1451	ARG	N-CA-C	-5.61	98.84	110.80
2	M	350	VAL	CB-CA-C	-5.61	104.79	111.97
1	R	438	ILE	CB-CA-C	-5.61	104.56	112.14
4	J	427	MET	CA-C-N	-5.61	117.51	122.73
4	J	427	MET	C-N-CA	-5.61	117.51	122.73
3	Z	435	LYS	N-CA-C	-5.61	105.16	111.28
1	L	416	THR	O-C-N	5.61	127.85	122.07
3	T	387	LYS	CA-C-O	5.61	126.50	120.55
4	D	57	PRO	N-CA-C	5.61	117.55	110.70
5	E	1237	SER	N-CA-C	-5.61	105.07	111.07
2	M	383	GLN	N-CA-C	-5.61	105.25	111.36
4	P	1502	ARG	O-C-N	5.61	128.54	122.15
5	K	440	PRO	N-CA-C	-5.61	106.85	113.86
6	C	437	LEU	N-CA-C	-5.61	105.17	111.28
2	M	278	LYS	CA-C-N	5.61	127.73	120.44
2	M	278	LYS	C-N-CA	5.61	127.73	120.44
4	D	520	LEU	CA-C-N	5.61	131.42	120.99
4	D	520	LEU	C-N-CA	5.61	131.42	120.99
1	X	436	SER	O-C-N	-5.60	115.42	122.20
5	Q	230	GLY	N-CA-C	-5.60	104.89	112.57
1	R	334	LEU	N-CA-C	-5.60	104.55	111.33
6	O	394	ILE	CA-C-N	5.60	127.33	120.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	394	ILE	C-N-CA	5.60	127.33	120.22
2	S	408	GLU	CA-C-O	-5.60	114.49	120.42
6	U	577	SER	N-CA-C	-5.60	104.80	111.69
1	F	477	LEU	N-CA-CB	5.60	118.35	110.12
3	H	334	GLU	CA-C-N	-5.60	112.99	120.54
3	H	334	GLU	C-N-CA	-5.60	112.99	120.54
2	S	329	GLN	O-C-N	5.60	129.76	122.15
4	P	1655	THR	N-CA-C	-5.60	104.81	111.69
1	X	307	ILE	CA-C-N	5.59	128.36	120.42
1	X	307	ILE	C-N-CA	5.59	128.36	120.42
1	X	438	ILE	CB-CA-C	-5.59	104.59	112.14
4	P	57	PRO	N-CA-C	5.59	117.52	110.70
5	E	230	GLY	N-CA-C	-5.59	104.91	112.57
1	F	475	SER	O-C-N	-5.59	116.19	122.12
2	M	304	ASN	N-CA-CB	5.59	119.67	110.39
1	R	365	GLN	CA-C-O	-5.59	114.94	120.70
6	C	360	ASP	CA-C-N	-5.59	114.62	123.12
6	C	360	ASP	C-N-CA	-5.59	114.62	123.12
6	I	577	SER	N-CA-C	-5.59	104.81	111.69
6	I	304	PRO	N-CA-C	-5.59	105.91	113.40
1	F	307	ILE	CA-C-N	5.59	128.35	120.42
1	F	307	ILE	C-N-CA	5.59	128.35	120.42
1	R	279	VAL	CB-CA-C	-5.59	105.88	111.80
3	N	387	LYS	CA-C-O	5.58	126.47	120.55
4	D	427	MET	CA-C-N	-5.58	117.54	122.73
4	D	427	MET	C-N-CA	-5.58	117.54	122.73
1	F	416	THR	O-C-N	5.58	127.82	122.07
1	F	438	ILE	CB-CA-C	-5.58	104.60	112.14
1	L	443	HIS	CB-CA-C	5.58	121.53	110.42
3	T	435	LYS	N-CA-C	-5.58	105.19	111.28
6	U	305	LEU	CA-C-N	5.58	126.82	119.84
6	U	305	LEU	C-N-CA	5.58	126.82	119.84
6	U	437	LEU	N-CA-C	-5.58	105.19	111.28
2	Y	304	ASN	N-CA-CB	5.58	119.65	110.39
3	Z	390	ASP	CA-C-N	-5.58	112.25	120.28
3	Z	390	ASP	C-N-CA	-5.58	112.25	120.28
1	R	492	GLU	CA-C-O	-5.58	112.53	120.51
5	Q	407	LYS	CA-C-N	5.58	129.28	120.47
5	Q	407	LYS	C-N-CA	5.58	129.28	120.47
2	Y	383	GLN	N-CA-C	-5.58	105.28	111.36
3	N	395	PHE	N-CA-C	-5.57	104.83	111.69
2	S	304	ASN	N-CA-CB	5.57	119.64	110.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	C	215	LEU	CA-C-N	5.57	132.19	121.54
6	C	215	LEU	C-N-CA	5.57	132.19	121.54
4	V	57	PRO	N-CA-C	5.57	117.50	110.70
5	E	920	TYR	N-CA-CB	5.57	118.31	110.12
2	S	278	LYS	CA-C-N	5.57	127.68	120.44
2	S	278	LYS	C-N-CA	5.57	127.68	120.44
5	K	407	LYS	CA-C-N	5.57	129.27	120.47
5	K	407	LYS	C-N-CA	5.57	129.27	120.47
6	O	577	SER	N-CA-C	-5.57	104.84	111.69
5	Q	920	TYR	N-CA-CB	5.57	118.30	110.12
1	F	474	LEU	CA-C-O	-5.57	114.52	120.42
1	L	483	ASP	CA-C-N	5.57	127.67	120.44
1	L	483	ASP	C-N-CA	5.57	127.67	120.44
6	O	437	LEU	N-CA-C	-5.57	105.21	111.28
5	K	443	LYS	N-CA-CB	5.56	120.27	110.37
1	F	298	GLN	O-C-N	5.56	130.10	122.59
6	I	305	LEU	CA-C-N	5.56	126.79	119.84
6	I	305	LEU	C-N-CA	5.56	126.79	119.84
2	G	304	ASN	N-CA-CB	5.56	119.62	110.39
1	F	471	GLN	N-CA-C	-5.56	105.30	111.36
1	L	323	ILE	N-CA-CB	5.56	116.40	111.67
1	L	334	LEU	N-CA-C	-5.56	104.60	111.33
1	L	474	LEU	CA-C-O	-5.56	114.53	120.42
3	T	466	ASP	CA-C-O	-5.56	112.56	120.51
6	O	304	PRO	N-CA-C	-5.56	105.95	113.40
3	N	334	GLU	CA-C-N	-5.56	113.04	120.54
3	N	334	GLU	C-N-CA	-5.56	113.04	120.54
6	U	215	LEU	CA-C-N	5.56	132.16	121.54
6	U	215	LEU	C-N-CA	5.56	132.16	121.54
2	G	275	MET	CA-C-O	-5.55	113.58	119.97
2	G	383	GLN	N-CA-C	-5.55	105.31	111.36
3	H	399	GLN	N-CA-C	-5.55	105.32	111.71
1	X	323	ILE	N-CA-CB	5.55	116.39	111.67
3	Z	391	GLN	CA-C-O	-5.55	113.82	120.10
2	M	329	GLN	O-C-N	5.55	129.70	122.15
3	N	353	GLN	CA-C-O	-5.55	114.66	120.55
4	P	729	PRO	N-CA-C	-5.55	103.93	110.70
4	V	1502	ARG	O-C-N	5.55	128.48	122.15
4	J	520	LEU	CA-C-N	5.55	131.32	120.99
4	J	520	LEU	C-N-CA	5.55	131.32	120.99
5	K	230	GLY	N-CA-C	-5.55	104.97	112.57
6	O	215	LEU	CA-C-N	5.55	132.14	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	O	215	LEU	C-N-CA	5.55	132.14	121.54
6	U	360	ASP	CA-C-N	-5.55	114.68	123.12
6	U	360	ASP	C-N-CA	-5.55	114.68	123.12
1	L	307	ILE	CA-C-N	5.55	128.30	120.42
1	L	307	ILE	C-N-CA	5.55	128.30	120.42
2	S	328	THR	O-C-N	-5.55	116.23	122.34
6	I	360	ASP	CA-C-N	-5.55	114.68	123.12
6	I	360	ASP	C-N-CA	-5.55	114.68	123.12
5	E	440	PRO	N-CA-C	-5.55	106.93	113.86
5	W	443	LYS	N-CA-CB	5.54	120.24	110.37
5	W	1055	VAL	CA-C-N	5.54	128.16	120.29
5	W	1055	VAL	C-N-CA	5.54	128.16	120.29
6	I	215	LEU	CA-C-N	5.54	132.13	121.54
6	I	215	LEU	C-N-CA	5.54	132.13	121.54
2	Y	278	LYS	CA-C-N	5.54	127.65	120.44
2	Y	278	LYS	C-N-CA	5.54	127.65	120.44
1	R	490	LEU	O-C-N	-5.54	115.45	122.27
2	S	275	MET	CA-C-O	-5.54	113.59	119.97
4	V	1655	THR	N-CA-C	-5.54	104.87	111.69
5	K	920	TYR	N-CA-CB	5.54	118.27	110.12
2	G	331	THR	CA-C-N	-5.54	114.67	120.38
2	G	331	THR	C-N-CA	-5.54	114.67	120.38
6	O	360	ASP	CA-C-N	-5.54	114.70	123.12
6	O	360	ASP	C-N-CA	-5.54	114.70	123.12
5	W	440	PRO	N-CA-C	-5.54	106.94	113.86
6	C	304	PRO	N-CA-C	-5.54	105.98	113.40
6	I	394	ILE	CA-C-N	5.54	127.25	120.22
6	I	394	ILE	C-N-CA	5.54	127.25	120.22
1	L	307	ILE	CB-CA-C	-5.54	104.58	112.22
4	J	800	PRO	N-CA-CB	5.54	106.29	103.19
5	W	920	TYR	N-CA-CB	5.54	118.26	110.12
6	C	394	ILE	CA-C-N	5.54	127.25	120.22
6	C	394	ILE	C-N-CA	5.54	127.25	120.22
5	E	443	LYS	N-CA-CB	5.54	120.22	110.37
1	X	437	GLN	CB-CA-C	-5.53	102.19	110.88
1	R	475	SER	O-C-N	-5.53	116.25	122.12
4	D	1507	ASP	O-C-N	5.53	129.45	122.37
1	X	339	VAL	N-CA-C	-5.53	105.14	110.72
6	C	179	ASP	N-CA-C	-5.53	99.02	110.80
3	N	430	ARG	CA-C-O	5.53	126.48	120.12
3	Z	421	ILE	N-CA-C	-5.53	104.98	110.62
2	M	290	LEU	CB-CA-C	-5.53	101.62	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	T	390	ASP	CA-C-N	-5.53	112.32	120.28
3	T	390	ASP	C-N-CA	-5.53	112.32	120.28
3	T	430	ARG	CA-C-O	5.53	126.47	120.12
6	I	179	ASP	N-CA-C	-5.53	99.03	110.80
2	S	335	LEU	CA-C-O	5.52	128.41	120.51
4	D	1655	THR	N-CA-C	-5.52	104.90	111.69
5	Q	443	LYS	N-CA-CB	5.52	120.20	110.37
1	X	365	GLN	CA-C-O	-5.52	115.02	120.70
4	V	729	PRO	N-CA-C	-5.52	103.97	110.70
4	J	1507	ASP	O-C-N	5.52	129.44	122.37
3	H	390	ASP	CA-C-N	-5.52	112.34	120.28
3	H	390	ASP	C-N-CA	-5.52	112.34	120.28
2	S	405	SER	CA-C-N	5.52	127.62	120.56
2	S	405	SER	C-N-CA	5.52	127.62	120.56
6	C	577	SER	N-CA-C	-5.52	104.90	111.69
6	U	304	PRO	N-CA-C	-5.52	106.01	113.40
5	E	407	LYS	CA-C-N	5.52	129.19	120.47
5	E	407	LYS	C-N-CA	5.52	129.19	120.47
3	N	390	ASP	CA-C-N	-5.51	112.34	120.28
3	N	390	ASP	C-N-CA	-5.51	112.34	120.28
1	R	443	HIS	CB-CA-C	5.51	121.39	110.42
5	Q	855	ILE	N-CA-CB	5.51	118.85	110.58
2	Y	350	VAL	CB-CA-C	-5.51	104.91	111.97
1	L	490	LEU	O-C-N	-5.51	115.49	122.27
3	H	387	LYS	CA-C-O	5.51	126.39	120.55
2	M	331	THR	CA-C-N	-5.51	114.70	120.38
2	M	331	THR	C-N-CA	-5.51	114.70	120.38
2	S	331	THR	CA-C-N	-5.51	114.70	120.38
2	S	331	THR	C-N-CA	-5.51	114.70	120.38
3	T	334	GLU	CA-C-N	-5.51	113.10	120.54
3	T	334	GLU	C-N-CA	-5.51	113.10	120.54
1	L	365	GLN	CA-C-O	-5.51	115.03	120.70
1	L	492	GLU	CA-C-O	-5.51	112.63	120.51
5	E	1233	VAL	N-CA-C	-5.51	100.76	108.80
3	Z	430	ARG	CA-C-O	5.51	126.45	120.12
4	P	1476	ALA	CA-C-O	5.51	126.60	120.82
5	W	855	ILE	N-CA-CB	5.51	118.84	110.58
6	O	283	LEU	N-CA-C	-5.50	100.91	109.72
1	F	471	GLN	O-C-N	5.50	128.42	122.15
1	L	305	ASP	N-CA-C	-5.50	102.72	109.65
4	J	1655	THR	N-CA-C	-5.50	104.92	111.69
5	W	407	LYS	CA-C-N	5.50	129.16	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	W	407	LYS	C-N-CA	5.50	129.16	120.47
1	F	437	GLN	CB-CA-C	-5.50	102.25	110.88
3	Z	395	PHE	N-CA-C	-5.50	104.93	111.69
3	Z	412	GLU	CA-C-O	-5.50	113.91	120.56
4	V	1472	SER	N-CA-C	5.50	116.96	110.97
2	G	290	LEU	CB-CA-C	-5.50	101.67	110.79
1	R	416	THR	O-C-N	5.50	127.73	122.07
6	U	283	LEU	N-CA-C	-5.50	100.92	109.72
1	F	443	HIS	CB-CA-C	5.50	121.35	110.42
3	N	466	ASP	CA-C-O	-5.49	112.65	120.51
4	J	1524	VAL	CB-CA-C	-5.49	104.94	111.97
5	E	1055	VAL	CA-C-N	5.49	128.09	120.29
5	E	1055	VAL	C-N-CA	5.49	128.09	120.29
3	H	395	PHE	N-CA-C	-5.49	104.94	111.69
1	R	305	ASP	N-CA-C	-5.49	102.73	109.65
1	F	492	GLU	CA-C-O	-5.49	112.66	120.51
2	M	405	SER	CA-C-N	5.49	127.58	120.56
2	M	405	SER	C-N-CA	5.49	127.58	120.56
4	P	427	MET	CA-C-N	-5.49	117.62	122.73
4	P	427	MET	C-N-CA	-5.49	117.62	122.73
4	D	800	PRO	N-CA-CB	5.49	106.26	103.19
1	R	298	GLN	O-C-N	5.49	130.00	122.59
1	R	437	GLN	CB-CA-C	-5.49	102.27	110.88
6	C	283	LEU	N-CA-C	-5.49	100.94	109.72
5	Q	1055	VAL	CA-C-N	5.49	128.08	120.29
5	Q	1055	VAL	C-N-CA	5.49	128.08	120.29
5	K	1055	VAL	CA-C-N	5.48	128.08	120.29
5	K	1055	VAL	C-N-CA	5.48	128.08	120.29
1	F	458	ASP	CB-CA-C	-5.48	99.51	110.42
2	S	383	GLN	N-CA-C	-5.48	105.38	111.36
6	O	305	LEU	CA-C-N	5.48	126.69	119.84
6	O	305	LEU	C-N-CA	5.48	126.69	119.84
1	L	471	GLN	N-CA-C	-5.48	105.39	111.36
6	C	484	ARG	CB-CA-C	-5.48	99.69	110.10
4	P	1524	VAL	CB-CA-C	-5.48	104.96	111.97
1	F	339	VAL	N-CA-C	-5.48	105.19	110.72
4	V	427	MET	CA-C-N	-5.48	117.64	122.73
4	V	427	MET	C-N-CA	-5.48	117.64	122.73
6	O	179	ASP	N-CA-C	-5.48	99.14	110.80
1	X	492	GLU	CA-C-O	-5.47	112.68	120.51
3	Z	334	GLU	CA-C-N	-5.47	113.15	120.54
3	Z	334	GLU	C-N-CA	-5.47	113.15	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	Z	362	ASP	N-CA-C	-5.47	105.42	111.71
1	R	339	VAL	N-CA-C	-5.47	105.19	110.72
3	T	362	ASP	N-CA-C	-5.47	105.41	111.71
3	H	421	ILE	N-CA-C	-5.47	105.04	110.62
1	X	471	GLN	N-CA-C	-5.47	105.39	111.36
2	S	318	GLU	N-CA-CB	5.47	118.76	110.28
4	D	1451	ARG	O-C-N	5.47	129.87	122.59
4	D	1524	VAL	CB-CA-C	-5.47	104.97	111.97
2	Y	275	MET	CA-C-O	-5.47	113.68	119.97
1	R	323	ILE	N-CA-CB	5.47	116.32	111.67
5	W	1233	VAL	N-CA-C	-5.47	100.81	108.80
1	F	307	ILE	CB-CA-C	-5.47	104.67	112.22
2	S	290	LEU	CB-CA-C	-5.47	101.71	110.79
1	X	307	ILE	CB-CA-C	-5.47	104.67	112.22
3	T	493	ALA	N-CA-C	-5.47	105.71	112.38
6	O	484	ARG	CB-CA-C	-5.47	99.72	110.10
5	Q	1233	VAL	N-CA-C	-5.47	100.82	108.80
1	R	458	ASP	CB-CA-C	-5.46	99.55	110.42
4	V	1524	VAL	CB-CA-C	-5.46	104.98	111.97
4	J	1476	ALA	CA-C-O	5.46	126.56	120.82
2	Y	290	LEU	CB-CA-C	-5.46	101.72	110.79
2	M	335	LEU	CA-C-O	5.46	128.32	120.51
6	U	179	ASP	N-CA-C	-5.46	99.17	110.80
6	U	394	ILE	CA-C-N	5.46	127.16	120.22
6	U	394	ILE	C-N-CA	5.46	127.16	120.22
2	G	405	SER	CA-C-N	5.46	127.55	120.56
2	G	405	SER	C-N-CA	5.46	127.55	120.56
1	L	298	GLN	O-C-N	5.46	129.96	122.59
5	K	316	ALA	N-CA-C	-5.46	102.80	110.50
1	X	443	HIS	CB-CA-C	5.46	121.28	110.42
4	V	446	ILE	CB-CA-C	-5.46	104.98	111.97
3	Z	466	ASP	CA-C-O	-5.46	112.71	120.51
3	N	365	LEU	CB-CA-C	-5.46	102.31	110.88
6	U	396	ARG	N-CA-C	-5.46	104.37	111.74
6	O	596	GLY	N-CA-C	-5.45	104.26	112.60
3	H	365	LEU	CB-CA-C	-5.45	102.32	110.88
4	V	1507	ASP	O-C-N	5.45	129.35	122.37
5	K	1233	VAL	N-CA-C	-5.45	100.84	108.80
4	D	729	PRO	N-CA-C	-5.45	104.06	110.70
5	W	316	ALA	N-CA-C	-5.45	102.82	110.50
6	I	283	LEU	N-CA-C	-5.45	101.01	109.72
1	X	458	ASP	CB-CA-C	-5.44	99.59	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	399	GLN	N-CA-C	-5.44	105.46	111.71
3	T	365	LEU	CB-CA-C	-5.44	102.34	110.88
6	C	596	GLY	N-CA-C	-5.44	104.28	112.60
2	M	248	PRO	N-CA-CB	-5.43	97.02	103.00
4	J	1451	ARG	O-C-N	5.43	129.82	122.59
6	I	484	ARG	CB-CA-C	-5.43	99.77	110.10
6	U	596	GLY	N-CA-C	-5.43	104.29	112.60
2	M	275	MET	CA-C-O	-5.43	113.72	119.97
1	F	305	ASP	N-CA-C	-5.43	102.81	109.65
1	L	458	ASP	CB-CA-C	-5.43	99.61	110.42
3	N	493	ALA	N-CA-C	-5.43	105.75	112.38
3	Z	353	GLN	CA-C-O	-5.43	114.80	120.55
4	P	1507	ASP	O-C-N	5.43	129.32	122.37
6	C	341	ALA	CA-C-O	-5.43	114.77	120.63
1	L	339	VAL	N-CA-C	-5.43	105.24	110.72
3	T	353	GLN	CA-C-O	-5.43	114.80	120.55
5	Q	316	ALA	N-CA-C	-5.43	102.85	110.50
1	X	416	THR	O-C-N	5.43	127.66	122.07
3	T	395	PHE	N-CA-C	-5.43	105.02	111.69
5	E	316	ALA	N-CA-C	-5.43	102.85	110.50
6	U	484	ARG	CB-CA-C	-5.42	99.80	110.10
6	O	396	ARG	N-CA-C	-5.42	104.42	111.74
2	G	317	GLN	N-CA-CB	5.42	118.18	110.16
2	Y	331	THR	CA-C-N	-5.42	114.80	120.38
2	Y	331	THR	C-N-CA	-5.42	114.80	120.38
3	Z	365	LEU	CB-CA-C	-5.42	102.38	110.88
3	T	412	GLU	CA-C-O	-5.42	114.01	120.56
4	D	1476	ALA	CA-C-O	5.42	126.51	120.82
2	M	317	GLN	N-CA-CB	5.41	118.17	110.16
1	L	437	GLN	CB-CA-C	-5.41	102.38	110.88
4	J	729	PRO	N-CA-C	-5.41	104.10	110.70
2	G	318	GLU	N-CA-CB	5.41	118.67	110.28
2	M	318	GLU	N-CA-CB	5.41	118.67	110.28
2	G	335	LEU	CA-C-O	5.41	128.25	120.51
1	X	490	LEU	O-C-N	-5.41	115.62	122.27
3	T	421	ILE	N-CA-C	-5.41	105.10	110.62
2	Y	335	LEU	CA-C-O	5.41	128.24	120.51
1	R	335	ARG	N-CA-C	5.41	116.85	111.07
4	P	446	ILE	CB-CA-C	-5.41	105.05	111.97
4	P	1472	SER	N-CA-C	5.41	116.86	110.97
3	H	383	LYS	N-CA-CB	5.40	118.47	110.53
6	I	396	ARG	N-CA-C	-5.40	104.45	111.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	X	335	ARG	N-CA-C	5.40	116.84	111.07
3	Z	493	ALA	N-CA-C	-5.40	105.80	112.38
3	N	391	GLN	CA-C-O	-5.40	114.00	120.10
1	L	342	GLN	N-CA-C	-5.39	105.48	111.36
4	P	1451	ARG	O-C-N	5.39	129.76	122.59
6	C	780	ASP	CA-C-N	-5.39	114.79	122.77
6	C	780	ASP	C-N-CA	-5.39	114.79	122.77
1	X	475	SER	O-C-N	-5.39	116.40	122.12
2	M	397	VAL	O-C-N	-5.39	116.62	121.91
6	I	596	GLY	N-CA-C	-5.39	104.35	112.60
1	F	415	ASP	CA-C-O	-5.39	114.84	120.55
1	F	290	PRO	N-CA-CB	5.38	108.92	103.00
3	H	401	LYS	CA-C-N	5.38	127.44	120.44
3	H	401	LYS	C-N-CA	5.38	127.44	120.44
2	Y	318	GLU	N-CA-CB	5.38	118.62	110.28
3	Z	463	ALA	CA-C-N	5.38	126.57	119.84
3	Z	463	ALA	C-N-CA	5.38	126.57	119.84
1	R	307	ILE	CB-CA-C	-5.38	104.79	112.22
4	V	800	PRO	N-CA-CB	5.38	106.20	103.19
6	C	396	ARG	N-CA-C	-5.38	104.48	111.74
3	N	412	GLU	CA-C-O	-5.38	114.05	120.56
6	I	250	VAL	CB-CA-C	5.38	121.62	111.40
3	T	399	GLN	N-CA-C	-5.38	105.53	111.71
6	U	250	VAL	CB-CA-C	5.38	121.61	111.40
3	H	466	ASP	CA-C-O	-5.38	112.82	120.51
4	V	1451	ARG	O-C-N	5.38	129.74	122.59
3	N	421	ILE	N-CA-C	-5.37	105.14	110.62
3	N	362	ASP	N-CA-C	-5.37	105.53	111.71
4	J	446	ILE	CB-CA-C	-5.37	105.10	111.97
3	H	493	ALA	N-CA-C	-5.37	105.83	112.38
1	X	298	GLN	O-C-N	5.37	129.84	122.59
1	X	305	ASP	N-CA-C	-5.37	102.89	109.65
3	Z	383	LYS	N-CA-CB	5.37	118.42	110.53
3	H	412	GLU	CA-C-O	-5.37	114.07	120.56
3	N	383	LYS	N-CA-CB	5.37	118.42	110.53
6	I	341	ALA	CA-C-O	-5.37	114.83	120.63
6	U	341	ALA	CA-C-O	-5.37	114.83	120.63
5	E	238	VAL	CB-CA-C	-5.37	102.31	110.95
3	H	362	ASP	CA-C-N	-5.36	113.30	120.54
3	H	362	ASP	C-N-CA	-5.36	113.30	120.54
1	X	392	LYS	CB-CA-C	5.36	121.20	109.99
2	Y	405	SER	CA-C-N	5.36	127.42	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Y	405	SER	C-N-CA	5.36	127.42	120.56
4	P	800	PRO	N-CA-CB	5.36	106.19	103.19
6	I	368	GLU	N-CA-C	-5.36	99.38	110.80
1	F	311	GLN	N-CA-CB	5.36	118.19	110.20
1	F	326	PRO	N-CA-CB	5.36	108.33	103.34
5	Q	110	PRO	N-CA-C	5.36	117.24	110.70
3	Z	399	GLN	N-CA-C	-5.36	105.55	111.71
1	L	326	PRO	N-CA-CB	5.36	108.32	103.34
6	O	368	GLU	N-CA-C	-5.35	99.40	110.80
5	E	110	PRO	N-CA-C	5.35	117.23	110.70
1	X	290	PRO	N-CA-CB	5.35	108.89	103.00
2	Y	317	GLN	N-CA-CB	5.35	118.08	110.16
1	L	290	PRO	N-CA-CB	5.35	108.89	103.00
1	F	392	LYS	CB-CA-C	5.35	121.17	109.99
5	W	302	VAL	N-CA-C	5.35	114.45	106.85
1	R	392	LYS	CB-CA-C	5.35	121.17	109.99
3	T	363	ARG	CB-CA-C	5.35	119.37	110.81
4	D	1472	SER	N-CA-C	5.35	116.80	110.97
1	L	475	SER	O-C-N	-5.35	116.45	122.12
3	H	463	ALA	CA-C-N	5.35	126.52	119.84
3	H	463	ALA	C-N-CA	5.35	126.52	119.84
2	Y	397	VAL	O-C-N	-5.35	116.67	121.91
3	N	363	ARG	CB-CA-C	5.34	119.36	110.81
5	W	110	PRO	N-CA-C	5.34	117.22	110.70
6	C	463	PHE	CB-CA-C	-5.34	102.49	110.88
3	Z	401	LYS	CA-C-N	5.34	127.39	120.44
3	Z	401	LYS	C-N-CA	5.34	127.39	120.44
3	T	391	GLN	CA-C-O	-5.34	114.06	120.10
5	E	852	VAL	CB-CA-C	-5.34	105.04	112.04
3	N	463	ALA	CA-C-N	5.34	126.52	119.84
3	N	463	ALA	C-N-CA	5.34	126.52	119.84
3	N	487	TRP	CB-CA-C	-5.34	101.93	110.79
5	Q	396	PHE	N-CA-C	-5.34	99.43	110.80
2	S	248	PRO	N-CA-CB	-5.34	97.13	103.00
3	T	401	LYS	CA-C-N	5.34	127.38	120.44
3	T	401	LYS	C-N-CA	5.34	127.38	120.44
2	M	276	SER	N-CA-C	5.34	122.17	110.80
2	S	317	GLN	N-CA-CB	5.34	118.06	110.16
2	S	397	VAL	O-C-N	-5.34	116.68	121.91
4	V	320	TRP	CA-C-N	-5.34	112.71	120.29
4	V	320	TRP	C-N-CA	-5.34	112.71	120.29
4	D	446	ILE	CB-CA-C	-5.34	105.14	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	W	852	VAL	CB-CA-C	-5.34	105.05	112.04
5	K	396	PHE	N-CA-C	-5.34	99.44	110.80
6	U	780	ASP	CA-C-N	-5.34	114.87	122.77
6	U	780	ASP	C-N-CA	-5.34	114.87	122.77
3	H	391	GLN	CA-C-O	-5.33	114.07	120.10
5	K	852	VAL	CB-CA-C	-5.33	105.05	112.04
6	C	250	VAL	CB-CA-C	5.33	121.53	111.40
6	C	368	GLU	N-CA-C	-5.33	99.44	110.80
6	O	250	VAL	CB-CA-C	5.33	121.53	111.40
6	U	329	GLY	N-CA-C	-5.33	107.75	115.27
6	O	780	ASP	CA-C-N	-5.33	114.88	122.77
6	O	780	ASP	C-N-CA	-5.33	114.88	122.77
3	N	401	LYS	CA-C-N	5.33	127.37	120.44
3	N	401	LYS	C-N-CA	5.33	127.37	120.44
5	W	221	THR	N-CA-C	-5.33	101.48	109.95
5	K	110	PRO	N-CA-C	5.33	117.20	110.70
6	C	421	VAL	CB-CA-C	-5.33	103.93	111.28
6	O	742	ARG	CA-C-N	5.33	127.85	120.29
6	O	742	ARG	C-N-CA	5.33	127.85	120.29
2	S	315	THR	N-CA-C	-5.33	105.58	111.71
5	K	302	VAL	N-CA-C	5.33	114.41	106.85
2	G	315	THR	N-CA-C	-5.32	105.59	111.71
1	L	364	ASN	N-CA-C	-5.32	105.48	111.28
1	R	492	GLU	O-C-N	5.32	129.67	122.59
3	Z	363	ARG	CB-CA-C	5.32	119.33	110.81
3	T	362	ASP	CA-C-N	-5.32	113.36	120.54
3	T	362	ASP	C-N-CA	-5.32	113.36	120.54
6	O	341	ALA	CA-C-O	-5.32	114.88	120.63
1	R	342	GLN	N-CA-C	-5.32	105.56	111.36
4	D	1685	LEU	O-C-N	5.32	126.78	121.30
5	E	302	VAL	N-CA-C	5.32	114.41	106.85
5	Q	852	VAL	CB-CA-C	-5.32	105.07	112.04
2	M	315	THR	N-CA-C	-5.32	105.59	111.71
6	U	368	GLU	N-CA-C	-5.32	99.47	110.80
1	R	290	PRO	N-CA-CB	5.32	108.85	103.00
5	Q	302	VAL	N-CA-C	5.32	114.40	106.85
3	Z	446	ARG	N-CA-CB	5.31	117.90	109.82
6	C	329	GLY	N-CA-C	-5.31	107.78	115.27
5	Q	1342	LEU	N-CA-C	5.31	118.18	110.42
5	E	396	PHE	N-CA-C	-5.31	99.49	110.80
1	L	392	LYS	CB-CA-C	5.31	121.08	109.99
3	N	453	ASP	CB-CA-C	-5.31	101.83	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	D	1500	LEU	N-CA-C	-5.31	105.39	111.07
3	T	335	SER	N-CA-C	5.31	117.48	111.11
2	G	248	PRO	N-CA-CB	-5.30	97.17	103.00
1	R	415	ASP	CA-C-O	-5.30	114.93	120.55
6	O	463	PHE	CB-CA-C	-5.30	102.55	110.88
3	H	363	ARG	CB-CA-C	5.30	119.29	110.81
6	I	463	PHE	CB-CA-C	-5.30	102.56	110.88
6	I	780	ASP	CA-C-N	-5.30	114.92	122.77
6	I	780	ASP	C-N-CA	-5.30	114.92	122.77
5	E	1341	VAL	CA-C-N	5.30	129.83	121.56
5	E	1341	VAL	C-N-CA	5.30	129.83	121.56
6	C	305	LEU	CB-CA-C	5.30	120.61	110.17
2	Y	276	SER	N-CA-C	5.30	122.08	110.80
6	O	305	LEU	N-CA-C	-5.30	98.10	109.81
6	O	421	VAL	CB-CA-C	-5.30	103.97	111.28
4	V	1517	SER	N-CA-CB	5.30	118.72	109.72
3	Z	453	ASP	CB-CA-C	-5.29	101.85	110.85
1	R	326	PRO	N-CA-CB	5.29	108.26	103.34
4	V	1489	HIS	N-CA-C	-5.29	96.05	107.49
5	Q	1341	VAL	CA-C-N	5.29	129.82	121.56
5	Q	1341	VAL	C-N-CA	5.29	129.82	121.56
4	P	1489	HIS	N-CA-C	-5.29	96.05	107.49
4	P	1517	SER	N-CA-CB	5.29	118.72	109.72
6	U	305	LEU	N-CA-C	-5.29	98.11	109.81
2	Y	344	ASP	CA-C-N	5.29	128.35	120.31
2	Y	344	ASP	C-N-CA	5.29	128.35	120.31
3	T	453	ASP	CB-CA-C	-5.29	101.86	110.85
6	I	421	VAL	CB-CA-C	-5.29	103.98	111.28
3	H	362	ASP	N-CA-C	-5.29	105.63	111.71
3	T	487	TRP	CB-CA-C	-5.29	102.01	110.79
6	O	483	GLU	N-CA-CB	5.29	119.49	110.50
6	O	729	GLU	N-CA-C	-5.29	105.63	111.71
6	U	421	VAL	CB-CA-C	-5.29	103.98	111.28
4	J	1472	SER	N-CA-C	5.29	116.73	110.97
5	K	1341	VAL	CA-C-N	5.29	129.81	121.56
5	K	1341	VAL	C-N-CA	5.29	129.81	121.56
6	I	483	GLU	N-CA-CB	5.29	119.48	110.50
1	F	477	LEU	CB-CA-C	-5.28	102.02	110.79
1	R	477	LEU	CB-CA-C	-5.28	102.02	110.79
4	J	320	TRP	CA-C-N	-5.28	112.79	120.29
4	J	320	TRP	C-N-CA	-5.28	112.79	120.29
6	U	463	PHE	CB-CA-C	-5.28	102.58	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	443	GLN	CB-CA-C	-5.28	102.59	110.88
3	T	383	LYS	N-CA-CB	5.28	118.30	110.53
4	J	1517	SER	N-CA-CB	5.28	118.70	109.72
5	K	1342	LEU	N-CA-C	5.28	118.13	110.42
5	Q	343	VAL	CB-CA-C	-5.28	105.21	111.97
3	H	485	LEU	N-CA-CB	5.28	118.35	110.22
1	X	477	LEU	CB-CA-C	-5.28	102.02	110.79
4	V	1666	SER	N-CA-C	-5.28	105.53	111.28
3	H	487	TRP	CB-CA-C	-5.28	102.03	110.79
3	T	443	GLN	CB-CA-C	-5.28	102.59	110.88
5	K	1140	PHE	N-CA-C	-5.28	105.53	111.28
1	X	326	PRO	N-CA-CB	5.28	108.25	103.34
2	Y	248	PRO	N-CA-CB	-5.28	97.20	103.00
3	Z	362	ASP	CA-C-N	-5.28	113.42	120.54
3	Z	362	ASP	C-N-CA	-5.28	113.42	120.54
6	C	742	ARG	CA-C-N	5.28	127.78	120.29
6	C	742	ARG	C-N-CA	5.28	127.78	120.29
1	X	311	GLN	N-CA-CB	5.27	118.06	110.20
2	M	301	ILE	CA-C-O	5.27	126.17	120.47
1	F	396	GLN	N-CA-CB	-5.27	102.42	110.07
3	T	485	LEU	N-CA-CB	5.27	118.34	110.22
4	D	1667	ALA	N-CA-CB	5.27	117.87	110.12
2	G	276	SER	N-CA-C	5.27	122.03	110.80
3	N	433	THR	N-CA-CB	5.27	117.65	110.01
5	W	1342	LEU	N-CA-C	5.27	118.11	110.42
6	I	305	LEU	N-CA-C	-5.27	98.16	109.81
1	L	311	GLN	N-CA-CB	5.27	118.05	110.20
5	Q	221	THR	N-CA-C	-5.27	101.57	109.95
1	F	335	ARG	N-CA-C	5.27	116.71	111.07
3	Z	487	TRP	CB-CA-C	-5.27	102.05	110.79
3	N	443	GLN	CB-CA-C	-5.27	102.61	110.88
5	W	424	GLU	N-CA-C	-5.27	103.93	110.41
6	O	524	ARG	CB-CA-C	-5.27	102.96	111.28
3	T	446	ARG	N-CA-CB	5.26	117.82	109.82
4	P	320	TRP	CA-C-N	-5.26	112.81	120.29
4	P	320	TRP	C-N-CA	-5.26	112.81	120.29
4	J	880	GLU	N-CA-C	5.26	117.70	111.33
5	W	396	PHE	N-CA-C	-5.26	99.59	110.80
4	V	558	PHE	CA-C-N	5.26	127.33	120.28
4	V	558	PHE	C-N-CA	5.26	127.33	120.28
1	X	415	ASP	CA-C-O	-5.26	114.97	120.55
3	N	362	ASP	CA-C-N	-5.26	113.44	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	362	ASP	C-N-CA	-5.26	113.44	120.54
5	K	343	VAL	CB-CA-C	-5.26	105.23	111.97
6	U	524	ARG	CB-CA-C	-5.26	102.97	111.28
5	Q	1172	GLN	N-CA-C	-5.26	106.12	112.54
2	G	344	ASP	CA-C-N	5.26	128.31	120.31
2	G	344	ASP	C-N-CA	5.26	128.31	120.31
1	L	477	LEU	CB-CA-C	-5.26	102.06	110.79
2	S	276	SER	N-CA-C	5.26	122.00	110.80
6	I	329	GLY	N-CA-C	-5.26	107.85	115.27
3	H	453	ASP	CB-CA-C	-5.26	101.91	110.85
3	Z	485	LEU	N-CA-CB	5.26	118.32	110.22
6	C	305	LEU	N-CA-C	-5.26	98.19	109.81
6	O	329	GLY	N-CA-C	-5.26	107.86	115.27
5	E	221	THR	N-CA-C	-5.26	101.59	109.95
4	V	1502	ARG	N-CA-C	5.26	117.09	111.36
6	I	524	ARG	CB-CA-C	-5.26	102.97	111.28
4	J	1500	LEU	N-CA-C	-5.25	105.45	111.07
6	I	742	ARG	CA-C-N	5.25	127.75	120.29
6	I	742	ARG	C-N-CA	5.25	127.75	120.29
4	D	1639	LEU	CA-C-N	5.25	127.85	120.28
4	D	1639	LEU	C-N-CA	5.25	127.85	120.28
6	I	662	ARG	N-CA-CB	5.25	119.37	110.49
6	U	742	ARG	CA-C-N	5.25	127.75	120.29
6	U	742	ARG	C-N-CA	5.25	127.75	120.29
2	Y	301	ILE	CA-C-O	5.25	126.14	120.47
3	N	446	ARG	N-CA-CB	5.25	117.80	109.82
4	J	1489	HIS	N-CA-C	-5.25	96.15	107.49
5	W	1341	VAL	CA-C-N	5.25	129.75	121.56
5	W	1341	VAL	C-N-CA	5.25	129.75	121.56
6	I	433	ASP	N-CA-C	-5.25	104.46	111.87
5	Q	1140	PHE	N-CA-C	-5.25	105.56	111.28
1	F	342	GLN	N-CA-C	-5.25	105.64	111.36
2	M	344	ASP	CA-C-N	5.25	128.29	120.31
2	M	344	ASP	C-N-CA	5.25	128.29	120.31
1	R	396	GLN	N-CA-CB	-5.25	102.46	110.07
3	T	463	ALA	CA-C-N	5.25	126.40	119.84
3	T	463	ALA	C-N-CA	5.25	126.40	119.84
5	W	100	MET	CB-CA-C	-5.25	103.78	111.23
5	K	912	ASP	N-CA-C	-5.25	105.98	112.38
1	X	467	LEU	N-CA-CB	5.25	119.24	110.32
6	C	343	HIS	CA-C-N	-5.25	112.58	121.18
6	C	343	HIS	C-N-CA	-5.25	112.58	121.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	I	343	HIS	CA-C-N	-5.25	112.58	121.18
6	I	343	HIS	C-N-CA	-5.25	112.58	121.18
6	U	343	HIS	CA-C-N	-5.24	112.58	121.18
6	U	343	HIS	C-N-CA	-5.24	112.58	121.18
6	U	483	GLU	N-CA-CB	5.24	119.42	110.50
4	D	1517	SER	N-CA-CB	5.24	118.63	109.72
2	Y	315	THR	N-CA-C	-5.24	105.68	111.71
1	L	335	ARG	N-CA-C	5.24	116.68	111.07
5	K	221	THR	N-CA-C	-5.24	101.62	109.95
5	K	1089	ARG	N-CA-C	-5.24	105.65	111.36
3	Z	443	GLN	CB-CA-C	-5.24	102.66	110.88
1	R	129	LEU	N-CA-C	-5.24	105.74	111.82
1	X	396	GLN	N-CA-CB	-5.24	102.48	110.07
2	Y	270	GLU	CA-C-O	-5.24	114.87	120.42
2	Y	407	HIS	N-CA-C	-5.24	105.57	111.28
4	D	1502	ARG	N-CA-C	5.24	117.07	111.36
6	C	524	ARG	CB-CA-C	-5.24	103.01	111.28
3	N	335	SER	N-CA-C	5.23	117.39	111.11
2	S	344	ASP	CA-C-N	5.23	128.27	120.31
2	S	344	ASP	C-N-CA	5.23	128.27	120.31
1	X	342	GLN	N-CA-C	-5.23	105.66	111.36
4	P	1502	ARG	CA-C-O	5.23	125.97	120.42
5	E	912	ASP	N-CA-C	-5.23	106.00	112.38
1	R	311	GLN	N-CA-CB	5.23	117.99	110.20
6	I	305	LEU	CB-CA-C	5.23	120.47	110.17
6	I	729	GLU	N-CA-C	-5.23	105.70	111.71
4	P	880	GLU	N-CA-C	5.23	117.66	111.33
6	O	305	LEU	CB-CA-C	5.23	120.47	110.17
6	U	729	GLU	N-CA-C	-5.23	105.70	111.71
3	T	433	THR	N-CA-CB	5.22	117.59	110.01
5	W	1140	PHE	N-CA-C	-5.22	105.58	111.28
2	Y	329	GLN	N-CA-CB	5.22	121.99	111.60
5	E	1342	LEU	N-CA-C	5.22	118.05	110.42
6	C	483	GLU	N-CA-CB	5.22	119.38	110.50
1	X	335	ARG	N-CA-CB	-5.22	102.44	110.01
1	R	467	LEU	N-CA-CB	5.22	119.19	110.32
6	O	343	HIS	CA-C-N	-5.22	112.63	121.18
6	O	343	HIS	C-N-CA	-5.22	112.63	121.18
2	G	301	ILE	CA-C-O	5.21	126.10	120.47
3	H	446	ARG	N-CA-CB	5.21	117.75	109.82
4	J	1502	ARG	CA-C-O	5.21	125.97	119.97
4	J	1666	SER	N-CA-C	-5.21	105.60	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	E	1140	PHE	N-CA-C	-5.21	105.60	111.28
2	G	397	VAL	O-C-N	-5.21	116.80	121.91
5	E	1274	GLN	CB-CA-C	-5.21	102.70	110.88
4	D	880	GLU	N-CA-C	5.21	117.63	111.33
6	O	662	ARG	N-CA-CB	5.21	119.29	110.49
4	P	1500	LEU	N-CA-C	-5.21	105.50	111.07
4	P	1502	ARG	N-CA-C	5.21	117.03	111.36
4	P	1667	ALA	N-CA-CB	5.21	117.77	110.12
1	X	488	ILE	CB-CA-C	-5.20	105.31	111.97
4	V	1667	ALA	N-CA-CB	5.20	117.77	110.12
6	C	662	ARG	N-CA-CB	5.20	119.28	110.49
1	R	364	ASN	N-CA-C	-5.20	105.61	111.28
4	P	558	PHE	CA-C-N	5.20	127.25	120.28
4	P	558	PHE	C-N-CA	5.20	127.25	120.28
1	F	464	LYS	N-CA-CB	5.20	119.28	110.49
2	Y	319	LEU	N-CA-C	-5.20	105.04	111.33
2	Y	323	GLU	CB-CA-C	5.20	120.65	110.67
2	M	329	GLN	N-CA-CB	5.20	121.95	111.60
2	S	301	ILE	CA-C-O	5.20	126.09	120.47
4	D	1489	HIS	N-CA-C	-5.20	96.26	107.49
5	W	138	ASP	N-CA-C	-5.20	106.96	113.72
1	L	467	LEU	N-CA-CB	5.20	119.16	110.32
1	L	488	ILE	CB-CA-C	-5.20	105.32	111.97
2	M	397	VAL	CA-C-N	5.20	127.67	120.29
2	M	397	VAL	C-N-CA	5.20	127.67	120.29
2	S	270	GLU	CA-C-O	-5.20	114.91	120.42
5	E	1082	TRP	N-CA-C	-5.20	105.73	111.71
3	Z	335	SER	N-CA-C	5.20	117.35	111.11
4	P	1666	SER	N-CA-C	-5.20	105.61	111.28
5	E	138	ASP	N-CA-C	-5.20	106.96	113.72
3	H	335	SER	N-CA-C	5.20	117.34	111.11
4	V	880	GLU	N-CA-C	5.20	117.62	111.33
4	V	1502	ARG	CA-C-O	5.20	125.93	120.42
1	L	129	LEU	N-CA-C	-5.19	105.80	111.82
4	P	1685	LEU	O-C-N	5.19	126.65	121.30
3	H	489	ASP	CA-C-N	-5.19	114.19	122.29
3	H	489	ASP	C-N-CA	-5.19	114.19	122.29
3	N	485	LEU	N-CA-CB	5.19	118.22	110.22
5	K	1172	GLN	N-CA-C	-5.19	106.20	112.54
6	U	305	LEU	CB-CA-C	5.19	120.40	110.17
5	E	424	GLU	N-CA-C	-5.19	104.02	110.41
5	Q	1082	TRP	N-CA-C	-5.19	105.74	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	415	ASP	CA-C-O	-5.19	115.05	120.55
5	W	1082	TRP	N-CA-C	-5.19	105.74	111.71
6	U	433	ASP	N-CA-C	-5.19	104.56	111.87
1	L	492	GLU	O-C-N	5.19	129.49	122.59
4	V	1500	LEU	N-CA-C	-5.18	105.53	111.07
4	J	1502	ARG	O-C-N	5.18	128.64	122.27
1	F	492	GLU	O-C-N	5.18	129.48	122.59
2	S	323	GLU	CB-CA-C	5.18	120.61	110.67
4	V	1685	LEU	O-C-N	5.18	126.63	121.30
5	W	1172	GLN	N-CA-C	-5.18	106.22	112.54
6	C	654	SER	CA-C-N	5.18	134.43	121.80
6	C	654	SER	C-N-CA	5.18	134.43	121.80
5	E	343	VAL	CB-CA-C	-5.18	105.34	111.97
1	F	467	LEU	N-CA-CB	5.17	119.12	110.32
1	X	129	LEU	N-CA-C	-5.17	105.82	111.82
5	Q	1089	ARG	N-CA-C	-5.17	105.72	111.36
5	Q	1274	GLN	CB-CA-C	-5.17	102.76	110.88
1	F	335	ARG	N-CA-CB	-5.17	102.51	110.01
1	F	431	LEU	N-CA-C	-5.17	105.64	111.28
1	F	488	ILE	CB-CA-C	-5.17	105.35	111.97
1	X	364	ASN	N-CA-C	-5.17	105.64	111.28
2	M	323	GLU	CB-CA-C	5.17	120.60	110.67
1	R	335	ARG	N-CA-CB	-5.17	102.51	110.01
2	G	281	LEU	N-CA-C	-5.17	105.77	111.71
1	L	335	ARG	N-CA-CB	-5.17	102.52	110.01
2	G	323	GLU	CB-CA-C	5.17	120.59	110.67
4	J	1667	ALA	N-CA-CB	5.17	117.72	110.12
6	C	618	ASN	CB-CA-C	-5.17	102.77	110.88
1	L	396	GLN	N-CA-CB	-5.17	102.58	110.07
4	V	1639	LEU	CA-C-N	5.17	127.72	120.28
4	V	1639	LEU	C-N-CA	5.17	127.72	120.28
1	F	339	VAL	CA-C-N	5.16	127.20	120.28
1	F	339	VAL	C-N-CA	5.16	127.20	120.28
3	H	390	ASP	O-C-N	5.16	127.61	122.03
1	X	492	GLU	O-C-N	5.16	129.46	122.59
5	K	424	GLU	N-CA-C	-5.16	104.06	110.41
5	K	1082	TRP	N-CA-C	-5.16	105.77	111.71
6	O	433	ASP	N-CA-C	-5.16	104.59	111.87
4	P	1452	LEU	N-CA-C	-5.16	105.55	111.07
4	V	506	PRO	CB-CA-C	5.16	117.22	110.92
1	F	129	LEU	N-CA-C	-5.16	105.83	111.82
2	Y	397	VAL	CA-C-N	5.16	127.62	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Y	397	VAL	C-N-CA	5.16	127.62	120.29
5	W	343	VAL	CB-CA-C	-5.16	105.36	111.97
5	K	1274	GLN	CB-CA-C	-5.16	102.78	110.88
5	Q	401	THR	N-CA-C	-5.16	105.70	112.41
2	S	407	HIS	N-CA-C	-5.16	105.66	111.28
5	K	138	ASP	N-CA-C	-5.16	107.01	113.72
6	O	618	ASN	CB-CA-C	-5.16	102.78	110.88
2	M	407	HIS	N-CA-C	-5.16	105.66	111.28
3	H	381	LYS	CB-CA-C	-5.16	100.77	110.67
1	L	339	VAL	CA-C-N	5.16	127.19	120.28
1	L	339	VAL	C-N-CA	5.16	127.19	120.28
3	T	381	LYS	CB-CA-C	-5.16	100.77	110.67
2	G	323	GLU	CA-C-O	5.15	125.90	119.97
3	T	489	ASP	CA-C-N	-5.15	114.25	122.29
3	T	489	ASP	C-N-CA	-5.15	114.25	122.29
5	K	401	THR	N-CA-C	-5.15	105.71	112.41
2	G	270	GLU	CA-C-O	-5.15	114.96	120.42
4	J	558	PHE	CA-C-N	5.15	127.18	120.28
4	J	558	PHE	C-N-CA	5.15	127.18	120.28
4	D	1516	LEU	N-CA-C	-5.15	105.67	111.28
2	M	281	LEU	N-CA-C	-5.15	105.79	111.71
6	U	654	SER	CA-C-N	5.15	134.36	121.80
6	U	654	SER	C-N-CA	5.15	134.36	121.80
4	D	445	LEU	N-CA-C	-5.15	105.56	111.07
2	G	397	VAL	CA-C-N	5.14	127.59	120.29
2	G	397	VAL	C-N-CA	5.14	127.59	120.29
3	Z	390	ASP	O-C-N	5.14	127.59	122.03
6	C	455	VAL	CB-CA-C	-5.14	101.63	111.40
6	I	654	SER	CA-C-N	5.14	134.35	121.80
6	I	654	SER	C-N-CA	5.14	134.35	121.80
6	U	662	ARG	N-CA-CB	5.14	119.19	110.49
2	M	366	GLU	N-CA-CB	-5.14	102.31	110.28
6	C	433	ASP	N-CA-C	-5.14	104.62	111.87
1	R	464	LYS	N-CA-CB	5.14	119.17	110.49
4	P	1516	LEU	N-CA-C	-5.14	105.68	111.28
4	D	558	PHE	CA-C-N	5.14	127.17	120.28
4	D	558	PHE	C-N-CA	5.14	127.17	120.28
6	U	455	VAL	CB-CA-C	-5.14	101.64	111.40
3	Z	381	LYS	CB-CA-C	-5.14	100.81	110.67
4	D	1452	LEU	N-CA-C	-5.14	105.58	111.07
6	C	729	GLU	N-CA-C	-5.14	105.80	111.71
5	Q	138	ASP	N-CA-C	-5.14	107.04	113.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	364	ASN	N-CA-C	-5.13	105.68	111.28
3	Z	377	ARG	O-C-N	5.13	129.42	122.59
5	Q	424	GLU	N-CA-C	-5.13	104.09	110.41
6	O	447	ASP	N-CA-CB	5.13	119.22	110.50
3	N	489	ASP	CA-C-N	-5.13	114.28	122.29
3	N	489	ASP	C-N-CA	-5.13	114.28	122.29
5	W	1089	ARG	N-CA-C	-5.13	105.77	111.36
5	E	1089	ARG	N-CA-C	-5.13	105.77	111.36
3	H	362	ASP	CA-C-O	5.13	125.90	120.10
6	O	654	SER	CA-C-N	5.13	134.31	121.80
6	O	654	SER	C-N-CA	5.13	134.31	121.80
6	U	602	THR	N-CA-CB	5.13	119.16	110.49
6	U	711	PHE	N-CA-CB	5.13	117.66	110.12
5	E	1172	GLN	N-CA-C	-5.13	106.28	112.54
5	Q	73	LEU	N-CA-C	-5.13	106.97	113.23
2	G	329	GLN	N-CA-CB	5.13	121.80	111.60
4	V	731	GLY	CA-C-N	5.13	129.28	120.72
4	V	731	GLY	C-N-CA	5.13	129.28	120.72
4	P	719	PHE	O-C-N	5.12	127.21	121.32
5	W	912	ASP	N-CA-C	-5.12	106.13	112.38
5	E	73	LEU	N-CA-C	-5.12	106.98	113.23
5	E	401	THR	N-CA-C	-5.12	105.75	112.41
2	M	324	ILE	CA-C-N	-5.12	110.73	121.64
2	M	324	ILE	C-N-CA	-5.12	110.73	121.64
3	T	377	ARG	O-C-N	5.12	129.40	122.59
4	P	731	GLY	CA-C-N	5.12	129.27	120.72
4	P	731	GLY	C-N-CA	5.12	129.27	120.72
4	D	1499	LEU	O-C-N	5.12	127.35	122.07
2	G	319	LEU	N-CA-C	-5.12	105.14	111.33
4	P	1639	LEU	CA-C-N	5.12	127.65	120.28
4	P	1639	LEU	C-N-CA	5.12	127.65	120.28
5	Q	316	ALA	CA-C-N	-5.12	112.79	121.85
5	Q	316	ALA	C-N-CA	-5.12	112.79	121.85
2	S	397	VAL	CA-C-N	5.12	127.55	120.29
2	S	397	VAL	C-N-CA	5.12	127.55	120.29
2	S	329	GLN	N-CA-CB	5.11	121.78	111.60
4	J	731	GLY	CA-C-N	5.11	129.26	120.72
4	J	731	GLY	C-N-CA	5.11	129.26	120.72
5	Q	912	ASP	N-CA-C	-5.11	106.14	112.38
2	S	287	ILE	N-CA-CB	5.11	119.39	110.65
1	L	473	GLY	CA-C-N	-5.11	113.03	120.29
1	L	473	GLY	C-N-CA	-5.11	113.03	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	270	GLU	CA-C-O	-5.11	115.00	120.42
3	N	390	ASP	O-C-N	5.11	127.55	122.03
4	D	1666	SER	N-CA-C	-5.11	105.71	111.28
6	O	467	PHE	N-CA-CB	5.11	117.63	110.12
4	D	731	GLY	CA-C-N	5.11	129.25	120.72
4	D	731	GLY	C-N-CA	5.11	129.25	120.72
4	J	506	PRO	CB-CA-C	5.11	117.15	110.92
5	W	73	LEU	N-CA-C	-5.11	107.00	113.23
6	C	447	ASP	N-CA-CB	5.11	119.18	110.50
2	G	348	ILE	O-C-N	-5.11	116.57	121.83
2	M	325	ALA	CA-C-N	-5.11	111.79	121.54
2	M	325	ALA	C-N-CA	-5.11	111.79	121.54
2	S	319	LEU	N-CA-C	-5.11	105.15	111.33
4	J	1639	LEU	CA-C-N	5.11	127.63	120.28
4	J	1639	LEU	C-N-CA	5.11	127.63	120.28
6	I	467	PHE	N-CA-CB	5.11	117.63	110.12
6	I	785	LEU	N-CA-C	-5.11	106.46	113.56
1	X	464	LYS	N-CA-CB	5.10	119.11	110.49
2	M	323	GLU	CA-C-O	5.10	125.84	119.97
3	T	394	ASP	O-C-N	5.10	128.86	122.23
6	U	618	ASN	CB-CA-C	-5.10	102.87	110.88
3	N	381	LYS	CB-CA-C	-5.10	100.88	110.67
4	D	506	PRO	CB-CA-C	5.10	117.14	110.92
6	O	412	ASP	N-CA-C	-5.10	105.72	111.28
1	X	431	LEU	N-CA-C	-5.10	105.72	111.28
6	I	455	VAL	CB-CA-C	-5.10	101.72	111.40
2	G	407	HIS	N-CA-C	-5.09	105.73	111.28
6	I	602	THR	N-CA-CB	5.09	119.10	110.49
6	I	618	ASN	CB-CA-C	-5.09	102.88	110.88
6	O	602	THR	N-CA-CB	5.09	119.10	110.49
5	W	1274	GLN	CB-CA-C	-5.09	102.89	110.88
6	I	412	ASP	N-CA-C	-5.09	105.73	111.28
3	N	490	GLN	N-CA-C	-5.09	105.98	113.61
4	D	1502	ARG	CA-C-O	5.09	125.81	120.42
2	M	348	ILE	O-C-N	-5.09	116.59	121.83
6	I	447	ASP	N-CA-CB	5.09	119.15	110.50
4	P	822	LEU	N-CA-C	-5.09	105.74	111.28
6	U	467	PHE	N-CA-CB	5.09	117.60	110.12
1	R	488	ILE	CB-CA-C	-5.08	105.46	111.97
2	G	299	ASN	N-CA-CB	5.08	118.05	110.22
2	Y	324	ILE	CA-C-N	-5.08	110.81	121.64
2	Y	324	ILE	C-N-CA	-5.08	110.81	121.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	299	ASN	N-CA-CB	5.08	118.05	110.22
2	S	281	LEU	N-CA-C	-5.08	105.86	111.71
4	J	1452	LEU	N-CA-C	-5.08	105.63	111.07
6	I	309	GLN	CA-C-N	-5.08	113.88	122.67
6	I	309	GLN	C-N-CA	-5.08	113.88	122.67
6	U	447	ASP	N-CA-CB	5.08	119.14	110.50
2	Y	323	GLU	CA-C-O	5.08	125.81	119.97
3	T	356	THR	CA-C-O	5.08	125.84	120.10
4	J	146	LEU	N-CA-C	-5.08	105.75	111.28
6	C	711	PHE	N-CA-CB	5.08	117.58	110.12
6	I	711	PHE	N-CA-CB	5.08	117.59	110.12
5	E	316	ALA	CA-C-N	-5.08	112.86	121.85
5	E	316	ALA	C-N-CA	-5.08	112.86	121.85
1	R	339	VAL	CA-C-N	5.08	127.08	120.28
1	R	339	VAL	C-N-CA	5.08	127.08	120.28
5	K	73	LEU	N-CA-C	-5.08	107.04	113.23
6	C	602	THR	N-CA-CB	5.08	119.07	110.49
1	L	401	TYR	CB-CA-C	-5.07	100.32	110.42
1	L	464	LYS	N-CA-CB	5.07	119.06	110.49
2	S	299	ASN	N-CA-CB	5.07	118.03	110.22
2	S	323	GLU	CA-C-O	5.07	125.81	119.97
4	D	822	LEU	N-CA-C	-5.07	105.75	111.28
5	K	316	ALA	CA-C-N	-5.07	112.87	121.85
5	K	316	ALA	C-N-CA	-5.07	112.87	121.85
6	C	412	ASP	N-CA-C	-5.07	105.75	111.28
2	Y	325	ALA	CA-C-N	-5.07	111.86	121.54
2	Y	325	ALA	C-N-CA	-5.07	111.86	121.54
4	P	167	ALA	N-CA-C	-5.07	105.75	111.28
2	G	366	GLU	N-CA-CB	-5.07	102.42	110.28
1	R	473	GLY	CA-C-N	-5.07	113.09	120.29
1	R	473	GLY	C-N-CA	-5.07	113.09	120.29
4	J	1685	LEU	O-C-N	5.07	126.52	121.30
5	E	1192	PHE	N-CA-C	5.07	117.78	111.24
3	H	413	LEU	CB-CA-C	-5.07	102.90	110.90
1	X	401	TYR	CB-CA-C	-5.07	100.34	110.42
2	S	325	ALA	CA-C-N	-5.07	111.87	121.54
2	S	325	ALA	C-N-CA	-5.07	111.87	121.54
3	Z	394	ASP	O-C-N	5.06	128.81	122.23
3	N	362	ASP	CA-C-O	5.06	125.82	120.10
4	P	445	LEU	N-CA-C	-5.06	105.65	111.07
2	G	372	ALA	CA-C-O	5.06	125.92	120.55
3	H	377	ARG	N-CA-C	5.06	121.58	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	D	146	LEU	N-CA-C	-5.06	105.76	111.28
1	X	339	VAL	CA-C-N	5.06	127.06	120.28
1	X	339	VAL	C-N-CA	5.06	127.06	120.28
2	Y	299	ASN	N-CA-CB	5.06	118.01	110.22
1	R	401	TYR	CB-CA-C	-5.06	100.35	110.42
1	R	431	LEU	N-CA-C	-5.06	105.77	111.28
3	T	390	ASP	O-C-N	5.06	127.49	122.03
4	J	558	PHE	N-CA-C	-5.06	105.66	111.07
5	W	401	THR	N-CA-C	-5.06	105.83	112.41
6	O	455	VAL	CB-CA-C	-5.06	101.79	111.40
2	S	392	ILE	N-CA-C	-5.06	104.73	111.05
3	T	413	LEU	CB-CA-C	-5.06	102.91	110.90
5	W	316	ALA	CA-C-N	-5.06	112.90	121.85
5	W	316	ALA	C-N-CA	-5.06	112.90	121.85
6	U	309	GLN	CA-C-N	-5.06	113.92	122.67
6	U	309	GLN	C-N-CA	-5.06	113.92	122.67
3	Z	489	ASP	CA-C-N	-5.06	114.40	122.29
3	Z	489	ASP	C-N-CA	-5.06	114.40	122.29
3	H	377	ARG	O-C-N	5.05	129.31	122.59
3	Z	413	LEU	CB-CA-C	-5.05	102.92	110.90
4	P	506	PRO	CB-CA-C	5.05	117.08	110.92
6	C	785	LEU	N-CA-C	-5.05	106.54	113.56
3	Z	362	ASP	CA-C-O	5.05	125.81	120.10
4	V	146	LEU	N-CA-C	-5.05	105.78	111.28
6	C	467	PHE	N-CA-CB	5.05	117.54	110.12
6	O	785	LEU	N-CA-C	-5.05	106.55	113.56
2	G	324	ILE	CA-C-N	-5.04	110.91	121.80
2	G	324	ILE	C-N-CA	-5.04	110.91	121.80
2	M	319	LEU	N-CA-C	-5.04	105.23	111.33
2	M	357	LEU	CB-CA-C	-5.04	102.42	110.79
2	S	366	GLU	N-CA-CB	-5.04	102.46	110.28
4	V	1452	LEU	O-C-N	5.04	127.26	122.07
5	Q	1192	PHE	N-CA-C	5.04	117.75	111.24
2	S	348	ILE	O-C-N	-5.04	116.64	121.83
2	G	357	LEU	CB-CA-C	-5.04	102.42	110.79
4	J	1458	VAL	CB-CA-C	-5.04	105.52	111.97
5	K	501	VAL	CB-CA-C	-5.04	103.32	110.83
2	Y	366	GLU	N-CA-CB	-5.04	102.48	110.28
3	T	377	ARG	N-CA-C	5.04	121.53	110.80
3	H	490	GLN	N-CA-C	-5.03	106.06	113.61
1	X	418	GLN	CB-CA-C	-5.03	103.15	110.95
3	N	394	ASP	O-C-N	5.03	128.77	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	J	1452	LEU	O-C-N	5.03	127.25	122.07
1	F	473	GLY	CA-C-N	-5.03	113.15	120.29
1	F	473	GLY	C-N-CA	-5.03	113.15	120.29
2	Y	281	LEU	N-CA-C	-5.03	105.93	111.71
4	V	167	ALA	N-CA-C	-5.03	105.80	111.28
4	J	1516	LEU	N-CA-C	-5.03	105.80	111.28
6	O	711	PHE	N-CA-CB	5.03	117.52	110.12
6	U	785	LEU	N-CA-C	-5.03	106.57	113.56
5	E	501	VAL	CB-CA-C	-5.03	103.34	110.83
2	G	380	ILE	CA-C-O	-5.03	115.83	121.36
4	V	1452	LEU	N-CA-C	-5.03	105.69	111.07
6	O	309	GLN	CA-C-N	-5.03	113.97	122.67
6	O	309	GLN	C-N-CA	-5.03	113.97	122.67
5	E	395	GLY	O-C-N	5.03	127.07	122.19
5	E	961	GLY	CA-C-N	5.03	127.95	120.31
5	E	961	GLY	C-N-CA	5.03	127.95	120.31
1	F	401	TYR	CB-CA-C	-5.03	100.42	110.42
2	Y	364	ILE	CA-C-O	5.03	126.18	120.95
1	L	431	LEU	N-CA-C	-5.03	105.80	111.28
2	M	392	ILE	N-CA-C	-5.03	104.77	111.05
6	U	412	ASP	N-CA-C	-5.03	105.80	111.28
2	Y	399	LEU	N-CA-C	-5.02	105.80	111.28
1	L	293	ILE	N-CA-C	-5.02	105.60	110.42
6	I	731	VAL	CB-CA-C	-5.02	105.44	112.02
2	Y	357	LEU	CB-CA-C	-5.02	102.45	110.79
6	C	299	ILE	N-CA-CB	5.02	118.11	110.58
6	U	602	THR	CA-C-N	5.02	131.13	121.54
6	U	602	THR	C-N-CA	5.02	131.13	121.54
1	X	412	VAL	CA-C-N	5.02	126.97	120.44
1	X	412	VAL	C-N-CA	5.02	126.97	120.44
2	G	325	ALA	CA-C-N	-5.02	111.95	121.54
2	G	325	ALA	C-N-CA	-5.02	111.95	121.54
5	K	1344	CYS	N-CA-C	5.02	116.44	111.07
5	W	213	THR	N-CA-C	5.02	116.44	111.07
5	K	365	GLY	N-CA-C	-5.02	108.31	115.64
6	O	364	SER	N-CA-C	-5.02	103.39	110.31
5	W	1235	LEU	N-CA-C	-5.02	100.12	110.80
2	S	324	ILE	CA-C-N	-5.01	110.97	121.80
2	S	324	ILE	C-N-CA	-5.01	110.97	121.80
4	V	1458	VAL	CB-CA-C	-5.01	105.55	111.97
2	S	357	LEU	CB-CA-C	-5.01	102.47	110.79
1	F	321	LYS	N-CA-C	-5.01	107.14	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	369	VAL	N-CA-C	-5.01	104.79	111.05
2	G	399	LEU	N-CA-C	-5.01	105.82	111.28
1	L	279	VAL	CB-CA-C	-5.01	105.82	111.23
3	N	377	ARG	N-CA-C	5.01	121.48	110.80
4	P	1452	LEU	O-C-N	5.01	127.23	122.07
3	H	433	THR	N-CA-CB	5.01	117.48	110.12
3	T	352	LEU	CA-C-O	5.01	126.26	120.90
4	V	822	LEU	N-CA-C	-5.01	105.82	111.28
5	Q	1209	ALA	N-CA-C	-5.01	105.82	111.28
5	K	213	THR	N-CA-C	5.01	116.43	111.07
2	Y	380	ILE	CA-C-O	-5.01	115.87	121.23
3	T	479	ASN	N-CA-C	-5.01	105.92	112.23
4	P	146	LEU	N-CA-C	-5.01	105.82	111.28
2	S	399	LEU	N-CA-C	-5.00	105.83	111.28
3	T	490	GLN	N-CA-C	-5.00	106.11	113.61
4	V	445	LEU	N-CA-C	-5.00	105.72	111.07
5	K	1209	ALA	N-CA-C	-5.00	105.83	111.28
6	C	309	GLN	CA-C-N	-5.00	114.01	122.67
6	C	309	GLN	C-N-CA	-5.00	114.01	122.67
6	C	602	THR	CA-C-N	5.00	131.10	121.54
6	C	602	THR	C-N-CA	5.00	131.10	121.54
3	Z	490	GLN	N-CA-C	-5.00	106.11	113.61
6	C	731	VAL	CB-CA-C	-5.00	105.47	112.02

All (84) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	F	305	ASP	CA
1	F	341	ASP	CA
1	F	423	ALA	CA
1	F	454	TYR	CA
1	F	459	LEU	CA
1	F	460	LEU	CA
1	F	486	GLU	CA
2	G	327	ARG	CA
2	G	330	LYS	CA
2	G	338	GLU	CA
2	G	339	TYR	CA
2	G	340	ALA	CA
2	G	341	ALA	CA
2	G	344	ASP	CA
2	G	373	THR	CA

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Mol	Chain	Res	Type	Atom
2	G	405	SER	CA
3	H	352	LEU	CA
3	H	356	THR	CA
3	H	387	LYS	CA
3	H	446	ARG	CA
3	H	494	LEU	CA
1	X	305	ASP	CA
1	X	341	ASP	CA
1	X	423	ALA	CA
1	X	454	TYR	CA
1	X	459	LEU	CA
1	X	460	LEU	CA
1	X	486	GLU	CA
2	Y	327	ARG	CA
2	Y	330	LYS	CA
2	Y	338	GLU	CA
2	Y	339	TYR	CA
2	Y	340	ALA	CA
2	Y	341	ALA	CA
2	Y	344	ASP	CA
2	Y	373	THR	CA
2	Y	405	SER	CA
3	Z	352	LEU	CA
3	Z	356	THR	CA
3	Z	387	LYS	CA
3	Z	446	ARG	CA
3	Z	494	LEU	CA
1	L	305	ASP	CA
1	L	341	ASP	CA
1	L	423	ALA	CA
1	L	454	TYR	CA
1	L	459	LEU	CA
1	L	460	LEU	CA
1	L	486	GLU	CA
2	M	327	ARG	CA
2	M	330	LYS	CA
2	M	338	GLU	CA
2	M	339	TYR	CA
2	M	340	ALA	CA
2	M	341	ALA	CA
2	M	344	ASP	CA
2	M	373	THR	CA

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Mol	Chain	Res	Type	Atom
2	M	405	SER	CA
3	N	352	LEU	CA
3	N	356	THR	CA
3	N	387	LYS	CA
3	N	446	ARG	CA
3	N	494	LEU	CA
1	R	305	ASP	CA
1	R	341	ASP	CA
1	R	423	ALA	CA
1	R	454	TYR	CA
1	R	459	LEU	CA
1	R	460	LEU	CA
1	R	486	GLU	CA
2	S	327	ARG	CA
2	S	330	LYS	CA
2	S	338	GLU	CA
2	S	339	TYR	CA
2	S	340	ALA	CA
2	S	341	ALA	CA
2	S	344	ASP	CA
2	S	373	THR	CA
2	S	405	SER	CA
3	T	352	LEU	CA
3	T	356	THR	CA
3	T	387	LYS	CA
3	T	446	ARG	CA
3	T	494	LEU	CA

All (267) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
4	D	1448	MET	Mainchain
4	D	1449	TRP	Peptide
4	D	1450	GLU	Peptide
4	D	1484	ASP	Mainchain
4	D	1485	ALA	Mainchain
4	D	1486	CYS	Mainchain
4	D	1503	ILE	Mainchain
4	D	1507	ASP	Mainchain
4	D	1508	LYS	Peptide,Mainchain
4	D	1509	GLN	Mainchain
4	D	1516	LEU	Mainchain

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Mol	Chain	Res	Type	Group
4	D	1517	SER	Peptide,Mainchain
4	D	1518	ASN	Mainchain
4	D	1519	SER	Peptide
4	D	1538	SER	Mainchain
4	D	1541	THR	Mainchain
4	D	1542	PRO	Mainchain
5	E	259	SER	Mainchain
1	F	393	GLN	Mainchain
1	F	397	ARG	Mainchain
1	F	398	LYS	Peptide,Mainchain
1	F	399	SER	Peptide
1	F	400	GLY	Mainchain
1	F	401	TYR	Mainchain
1	F	403	ILE	Peptide
1	F	419	GLY	Mainchain
1	F	420	GLU	Mainchain
1	F	421	LEU	Mainchain
1	F	422	ASN	Peptide,Mainchain
1	F	423	ALA	Mainchain
1	F	424	PRO	Peptide,Mainchain
1	F	425	THR	Mainchain
1	F	426	GLN	Mainchain
1	F	445	GLY	Mainchain
1	F	446	ALA	Mainchain
1	F	448	ARG	Mainchain
1	F	452	ARG	Mainchain
1	F	454	TYR	Peptide,Mainchain
1	F	456	ASP	Mainchain
1	F	457	ALA	Mainchain
1	F	459	LEU	Mainchain
1	F	462	GLU	Mainchain
1	F	463	ILE	Peptide
1	F	472	GLU	Mainchain
1	F	487	ASP	Mainchain
2	G	321	ASN	Mainchain
2	G	325	ALA	Mainchain
2	G	326	LEU	Peptide,Mainchain
2	G	329	GLN	Mainchain
2	G	330	LYS	Mainchain
2	G	340	ALA	Peptide,Mainchain
2	G	341	ALA	Mainchain
2	G	343	ALA	Mainchain

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Mol	Chain	Res	Type	Group
3	H	374	SER	Mainchain
3	H	407	LEU	Mainchain
3	H	408	SER	Peptide
3	H	493	ALA	Peptide
3	H	497	ARG	Mainchain
4	J	1448	MET	Mainchain
4	J	1449	TRP	Peptide
4	J	1450	GLU	Peptide
4	J	1484	ASP	Mainchain
4	J	1485	ALA	Mainchain
4	J	1486	CYS	Mainchain
4	J	1489	HIS	Mainchain
4	J	1503	ILE	Mainchain
4	J	1507	ASP	Mainchain
4	J	1508	LYS	Peptide,Mainchain
4	J	1509	GLN	Mainchain
4	J	1516	LEU	Mainchain
4	J	1517	SER	Peptide,Mainchain
4	J	1518	ASN	Mainchain
4	J	1519	SER	Peptide
4	J	1538	SER	Mainchain
4	J	1541	THR	Mainchain
4	J	1542	PRO	Mainchain
5	K	259	SER	Mainchain
1	L	393	GLN	Mainchain
1	L	397	ARG	Mainchain
1	L	398	LYS	Peptide,Mainchain
1	L	399	SER	Peptide
1	L	400	GLY	Mainchain
1	L	401	TYR	Mainchain
1	L	403	ILE	Peptide
1	L	419	GLY	Mainchain
1	L	420	GLU	Mainchain
1	L	421	LEU	Mainchain
1	L	422	ASN	Peptide,Mainchain
1	L	423	ALA	Mainchain
1	L	424	PRO	Peptide,Mainchain
1	L	425	THR	Mainchain
1	L	426	GLN	Mainchain
1	L	445	GLY	Mainchain
1	L	446	ALA	Mainchain
1	L	448	ARG	Mainchain

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Mol	Chain	Res	Type	Group
1	L	452	ARG	Mainchain
1	L	454	TYR	Peptide,Mainchain
1	L	456	ASP	Mainchain
1	L	457	ALA	Mainchain
1	L	459	LEU	Mainchain
1	L	462	GLU	Mainchain
1	L	463	ILE	Peptide
1	L	472	GLU	Mainchain
1	L	487	ASP	Mainchain
2	M	321	ASN	Mainchain
2	M	325	ALA	Mainchain
2	M	326	LEU	Peptide,Mainchain
2	M	329	GLN	Mainchain
2	M	330	LYS	Mainchain
2	M	340	ALA	Peptide,Mainchain
2	M	341	ALA	Mainchain
2	M	343	ALA	Mainchain
3	N	374	SER	Mainchain
3	N	407	LEU	Mainchain
3	N	408	SER	Peptide
3	N	493	ALA	Peptide
3	N	497	ARG	Mainchain
4	P	1448	MET	Mainchain
4	P	1449	TRP	Peptide
4	P	1450	GLU	Peptide
4	P	1484	ASP	Mainchain
4	P	1485	ALA	Mainchain
4	P	1486	CYS	Mainchain
4	P	1489	HIS	Mainchain
4	P	1503	ILE	Mainchain
4	P	1507	ASP	Mainchain
4	P	1508	LYS	Peptide,Mainchain
4	P	1509	GLN	Mainchain
4	P	1512	TRP	Mainchain
4	P	1516	LEU	Mainchain
4	P	1517	SER	Peptide,Mainchain
4	P	1518	ASN	Mainchain
4	P	1519	SER	Peptide
4	P	1538	SER	Mainchain
4	P	1541	THR	Mainchain
4	P	1542	PRO	Mainchain
5	Q	259	SER	Mainchain

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Mol	Chain	Res	Type	Group
1	R	393	GLN	Mainchain
1	R	397	ARG	Mainchain
1	R	398	LYS	Peptide,Mainchain
1	R	399	SER	Peptide
1	R	400	GLY	Mainchain
1	R	401	TYR	Mainchain
1	R	403	ILE	Peptide
1	R	419	GLY	Mainchain
1	R	420	GLU	Mainchain
1	R	421	LEU	Mainchain
1	R	422	ASN	Peptide,Mainchain
1	R	423	ALA	Mainchain
1	R	424	PRO	Peptide,Mainchain
1	R	425	THR	Mainchain
1	R	426	GLN	Mainchain
1	R	445	GLY	Mainchain
1	R	446	ALA	Mainchain
1	R	448	ARG	Mainchain
1	R	452	ARG	Mainchain
1	R	454	TYR	Peptide,Mainchain
1	R	456	ASP	Mainchain
1	R	457	ALA	Mainchain
1	R	459	LEU	Mainchain
1	R	462	GLU	Mainchain
1	R	463	ILE	Peptide
1	R	472	GLU	Mainchain
1	R	487	ASP	Mainchain
2	S	321	ASN	Mainchain
2	S	325	ALA	Mainchain
2	S	326	LEU	Peptide,Mainchain
2	S	329	GLN	Mainchain
2	S	330	LYS	Mainchain
2	S	340	ALA	Peptide,Mainchain
2	S	341	ALA	Mainchain
2	S	343	ALA	Mainchain
3	T	374	SER	Mainchain
3	T	407	LEU	Mainchain
3	T	408	SER	Peptide
3	T	493	ALA	Peptide
3	T	497	ARG	Mainchain
4	V	1448	MET	Mainchain
4	V	1449	TRP	Peptide

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Mol	Chain	Res	Type	Group
4	V	1450	GLU	Peptide
4	V	1484	ASP	Mainchain
4	V	1485	ALA	Mainchain
4	V	1486	CYS	Mainchain
4	V	1489	HIS	Mainchain
4	V	1503	ILE	Mainchain
4	V	1507	ASP	Mainchain
4	V	1508	LYS	Peptide,Mainchain
4	V	1509	GLN	Mainchain
4	V	1516	LEU	Mainchain
4	V	1517	SER	Peptide,Mainchain
4	V	1518	ASN	Mainchain
4	V	1519	SER	Peptide
4	V	1538	SER	Mainchain
4	V	1541	THR	Mainchain
4	V	1542	PRO	Mainchain
5	W	259	SER	Mainchain
1	X	397	ARG	Mainchain
1	X	398	LYS	Peptide,Mainchain
1	X	399	SER	Peptide
1	X	400	GLY	Mainchain
1	X	401	TYR	Mainchain
1	X	403	ILE	Peptide
1	X	419	GLY	Mainchain
1	X	420	GLU	Mainchain
1	X	421	LEU	Mainchain
1	X	422	ASN	Peptide,Mainchain
1	X	423	ALA	Mainchain
1	X	424	PRO	Peptide,Mainchain
1	X	425	THR	Mainchain
1	X	426	GLN	Mainchain
1	X	445	GLY	Mainchain
1	X	446	ALA	Mainchain
1	X	448	ARG	Mainchain
1	X	452	ARG	Mainchain
1	X	454	TYR	Peptide,Mainchain
1	X	456	ASP	Mainchain
1	X	457	ALA	Mainchain
1	X	459	LEU	Mainchain
1	X	462	GLU	Mainchain
1	X	463	ILE	Peptide
1	X	472	GLU	Mainchain

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Mol	Chain	Res	Type	Group
1	X	487	ASP	Mainchain
2	Y	321	ASN	Mainchain
2	Y	325	ALA	Mainchain
2	Y	326	LEU	Peptide,Mainchain
2	Y	329	GLN	Mainchain
2	Y	330	LYS	Mainchain
2	Y	340	ALA	Peptide,Mainchain
2	Y	341	ALA	Mainchain
2	Y	343	ALA	Mainchain
3	Z	374	SER	Mainchain
3	Z	407	LEU	Mainchain
3	Z	408	SER	Peptide
3	Z	493	ALA	Peptide
3	Z	497	ARG	Mainchain

5.2 Too-close contacts

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	F	1658	0	715	195	0
1	L	1658	0	715	165	0
1	R	1658	0	710	243	0
1	X	1658	0	715	163	0
2	G	853	0	384	64	0
2	M	853	0	384	59	0
2	S	853	0	384	60	0
2	Y	853	0	384	58	0
3	H	842	0	365	45	0
3	N	842	0	365	37	0
3	T	842	0	365	40	0
3	Z	842	0	365	39	0
4	D	5094	0	2272	148	0
4	J	5094	0	2271	83	0
4	P	5094	0	2253	360	0
4	V	5094	0	2258	310	0
5	E	5366	0	2365	37	0
5	K	5366	0	2362	71	0
5	Q	5366	0	2365	46	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	W	5366	0	2350	244	0
6	C	2946	0	1307	83	0
6	I	2946	0	1306	42	0
6	O	2946	0	1296	197	0
6	U	2946	0	1307	26	0
All	All	67036	0	29563	2196	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 23.

All (2196) 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)
2:G:366:GLU:CB	2:G:366:GLU:CA	1.76	1.63
1:X:451:GLU:CA	1:X:451:GLU:CB	1.77	1.61
1:F:447:VAL:CB	1:F:447:VAL:CA	1.78	1.60
1:R:447:VAL:CA	1:R:447:VAL:CB	1.78	1.60
1:L:454:TYR:CA	1:L:454:TYR:CB	1.77	1.60
1:X:447:VAL:CA	1:X:447:VAL:CB	1.78	1.60
1:X:328:VAL:C	1:X:328:VAL:CA	1.75	1.59
2:Y:366:GLU:CA	2:Y:366:GLU:CB	1.76	1.59
1:R:328:VAL:C	1:R:328:VAL:CA	1.75	1.59
1:R:456:ASP:C	1:R:456:ASP:CA	1.76	1.59
1:L:492:GLU:C	1:L:492:GLU:CA	1.75	1.58
1:F:328:VAL:CA	1:F:328:VAL:C	1.75	1.58
1:F:492:GLU:CA	1:F:492:GLU:C	1.75	1.58
1:L:328:VAL:CA	1:L:328:VAL:C	1.75	1.58
1:R:451:GLU:CA	1:R:451:GLU:CB	1.77	1.58
2:M:366:GLU:CB	2:M:366:GLU:CA	1.76	1.58
1:R:488:ILE:N	1:R:488:ILE:CA	1.67	1.57
1:L:451:GLU:CB	1:L:451:GLU:CA	1.77	1.57
1:R:454:TYR:CA	1:R:454:TYR:CB	1.77	1.57
2:S:366:GLU:CA	2:S:366:GLU:CB	1.76	1.57
1:F:451:GLU:CA	1:F:451:GLU:CB	1.77	1.57
1:F:456:ASP:CA	1:F:456:ASP:C	1.76	1.57
3:T:490:GLN:CA	3:T:490:GLN:CB	1.75	1.57
1:R:374:GLN:HA	4:P:896:VAL:CB	1.33	1.57
1:L:456:ASP:C	1:L:456:ASP:CA	1.76	1.56
1:L:457:ALA:CB	1:L:457:ALA:CA	1.82	1.56
3:N:490:GLN:CA	3:N:490:GLN:CB	1.75	1.56
2:S:325:ALA:C	2:S:325:ALA:CA	1.78	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:325:ALA:C	2:M:325:ALA:CA	1.78	1.56
1:X:457:ALA:CA	1:X:457:ALA:CB	1.83	1.56
2:Y:326:LEU:CA	2:Y:326:LEU:C	1.79	1.56
2:S:326:LEU:C	2:S:326:LEU:CA	1.79	1.56
1:R:492:GLU:C	1:R:492:GLU:CA	1.75	1.56
3:H:490:GLN:CA	3:H:490:GLN:CB	1.75	1.56
1:X:454:TYR:CB	1:X:454:TYR:CA	1.77	1.56
1:L:311:GLN:CA	1:L:311:GLN:C	1.77	1.56
2:G:326:LEU:CA	2:G:326:LEU:C	1.79	1.55
1:X:483:ASP:CA	1:X:483:ASP:CB	1.85	1.55
4:V:1432:ALA:N	5:W:1336:GLU:CA	1.70	1.55
2:G:325:ALA:CA	2:G:325:ALA:C	1.78	1.55
1:X:311:GLN:C	1:X:311:GLN:CA	1.77	1.55
1:L:455:ILE:CA	1:L:455:ILE:CB	1.84	1.55
1:F:311:GLN:C	1:F:311:GLN:CA	1.77	1.55
3:Z:490:GLN:CB	3:Z:490:GLN:CA	1.75	1.55
1:L:447:VAL:CA	1:L:447:VAL:CB	1.78	1.54
2:M:326:LEU:C	2:M:326:LEU:CA	1.78	1.54
1:R:483:ASP:CA	1:R:483:ASP:CB	1.85	1.54
1:X:492:GLU:CA	1:X:492:GLU:C	1.74	1.54
1:R:311:GLN:CA	1:R:311:GLN:C	1.77	1.54
1:R:450:GLU:CA	1:R:451:GLU:N	1.70	1.54
4:P:1442:GLU:H	6:O:181:ILE:C	1.01	1.54
4:V:1407:ILE:CB	5:W:1370:SER:CB	1.79	1.54
1:X:455:ILE:CB	1:X:455:ILE:CA	1.84	1.53
1:L:483:ASP:CB	1:L:483:ASP:CA	1.85	1.53
1:F:458:ASP:CB	1:F:458:ASP:CA	1.87	1.53
1:X:488:ILE:N	1:X:488:ILE:CA	1.67	1.53
1:R:455:ILE:CB	1:R:455:ILE:CA	1.84	1.53
1:F:457:ALA:CA	1:F:457:ALA:CB	1.83	1.53
1:X:450:GLU:N	1:X:450:GLU:CA	1.71	1.53
1:X:450:GLU:CA	1:X:451:GLU:N	1.70	1.53
1:F:454:TYR:CA	1:F:454:TYR:CB	1.77	1.53
1:F:488:ILE:N	1:F:488:ILE:CA	1.68	1.53
1:X:456:ASP:CA	1:X:456:ASP:C	1.76	1.53
2:Y:325:ALA:CA	2:Y:325:ALA:C	1.77	1.52
3:T:381:LYS:N	3:T:381:LYS:CA	1.72	1.52
2:G:276:SER:CA	2:G:276:SER:C	1.82	1.52
2:Y:327:ARG:CB	2:Y:327:ARG:CA	1.87	1.52
1:R:329:GLY:N	1:R:329:GLY:CA	1.71	1.52
1:F:483:ASP:CA	1:F:483:ASP:CB	1.85	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:381:LYS:N	3:H:381:LYS:CA	1.72	1.52
1:L:329:GLY:N	1:L:329:GLY:CA	1.71	1.52
1:L:488:ILE:N	1:L:488:ILE:CA	1.67	1.51
2:Y:276:SER:C	2:Y:276:SER:CA	1.82	1.51
1:L:450:GLU:CA	1:L:451:GLU:N	1.70	1.51
3:N:497:ARG:N	3:N:497:ARG:CA	1.69	1.51
5:K:1016:ALA:HB3	6:I:814:MET:CB	1.35	1.51
1:R:450:GLU:CA	1:R:450:GLU:N	1.71	1.51
4:P:1663:GLN:C	6:O:446:GLU:CB	1.81	1.51
1:F:385:ARG:CB	4:D:884:GLN:H	1.24	1.51
1:R:457:ALA:CA	1:R:457:ALA:CB	1.83	1.51
1:X:492:GLU:C	1:X:493:HIS:N	1.69	1.51
1:L:454:TYR:CA	1:L:454:TYR:C	1.84	1.51
2:M:276:SER:CA	2:M:276:SER:C	1.82	1.51
1:X:299:ASN:C	1:X:299:ASN:CA	1.84	1.50
1:L:299:ASN:CA	1:L:299:ASN:C	1.84	1.50
3:H:463:ALA:N	3:H:463:ALA:CA	1.74	1.50
1:F:450:GLU:N	1:F:450:GLU:CA	1.71	1.50
1:F:455:ILE:CA	1:F:455:ILE:CB	1.84	1.50
3:Z:497:ARG:N	3:Z:497:ARG:CA	1.69	1.50
4:V:1498:ALA:CA	5:W:1360:TYR:CB	1.85	1.50
4:D:1661:ARG:CB	6:C:448:TYR:CA	1.85	1.50
3:Z:462:GLY:C	3:Z:462:GLY:CA	1.85	1.50
1:L:458:ASP:CA	1:L:458:ASP:CB	1.87	1.50
1:R:458:ASP:CA	1:R:458:ASP:CB	1.87	1.50
3:T:463:ALA:N	3:T:463:ALA:CA	1.74	1.49
3:H:497:ARG:N	3:H:497:ARG:CA	1.69	1.49
1:X:458:ASP:CA	1:X:458:ASP:CB	1.87	1.49
3:Z:463:ALA:N	3:Z:463:ALA:CA	1.74	1.49
1:L:450:GLU:CA	1:L:450:GLU:N	1.71	1.49
3:N:381:LYS:N	3:N:381:LYS:CA	1.71	1.49
1:R:299:ASN:CA	1:R:299:ASN:C	1.84	1.49
1:R:453:TYR:N	1:R:453:TYR:CA	1.75	1.49
1:F:299:ASN:C	1:F:299:ASN:CA	1.84	1.49
3:N:411:GLU:C	3:N:412:GLU:N	1.69	1.49
1:F:492:GLU:C	1:F:493:HIS:N	1.69	1.49
3:H:462:GLY:CA	3:H:462:GLY:C	1.85	1.49
1:L:492:GLU:C	1:L:493:HIS:N	1.69	1.49
2:M:379:HIS:N	2:M:379:HIS:CA	1.76	1.49
3:T:462:GLY:C	3:T:462:GLY:CA	1.85	1.49
1:X:454:TYR:CA	1:X:454:TYR:C	1.84	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:327:ARG:CA	2:M:327:ARG:CB	1.87	1.49
2:S:327:ARG:CA	2:S:327:ARG:CB	1.87	1.49
1:F:367:THR:CA	1:F:367:THR:C	1.85	1.48
1:F:454:TYR:C	1:F:454:TYR:HA	1.37	1.48
2:G:327:ARG:CA	2:G:327:ARG:CB	1.87	1.48
1:R:380:MET:CB	4:P:887:ASN:CB	1.89	1.48
1:L:367:THR:C	1:L:367:THR:CA	1.85	1.48
1:L:459:LEU:CA	1:L:459:LEU:C	1.86	1.48
3:N:462:GLY:CA	3:N:462:GLY:C	1.85	1.48
3:N:463:ALA:N	3:N:463:ALA:CA	1.74	1.48
2:S:276:SER:C	2:S:276:SER:CA	1.82	1.48
1:F:329:GLY:N	1:F:329:GLY:CA	1.71	1.48
1:F:450:GLU:CA	1:F:451:GLU:N	1.70	1.48
3:H:411:GLU:C	3:H:412:GLU:N	1.69	1.48
1:X:329:GLY:N	1:X:329:GLY:CA	1.71	1.48
3:T:497:ARG:CA	3:T:497:ARG:N	1.69	1.48
1:F:454:TYR:CA	1:F:454:TYR:C	1.83	1.48
1:F:459:LEU:CA	1:F:459:LEU:C	1.86	1.48
1:X:453:TYR:N	1:X:453:TYR:CA	1.75	1.48
1:L:453:TYR:N	1:L:453:TYR:CA	1.75	1.48
1:L:493:HIS:N	1:L:493:HIS:CA	1.76	1.48
1:R:454:TYR:CA	1:R:454:TYR:C	1.83	1.48
3:T:411:GLU:C	3:T:412:GLU:N	1.69	1.48
1:F:453:TYR:N	1:F:453:TYR:CA	1.75	1.47
3:Z:381:LYS:N	3:Z:381:LYS:CA	1.71	1.47
1:R:472:GLU:N	1:R:472:GLU:CA	1.76	1.47
2:Y:339:TYR:C	2:Y:340:ALA:N	1.72	1.47
1:L:472:GLU:N	1:L:472:GLU:CA	1.76	1.47
2:S:378:SER:CA	2:S:378:SER:C	1.88	1.47
2:G:379:HIS:N	2:G:379:HIS:CA	1.76	1.46
4:V:1431:ILE:CB	5:W:1336:GLU:CB	1.91	1.46
1:X:367:THR:CA	1:X:367:THR:C	1.85	1.46
1:X:472:GLU:N	1:X:472:GLU:CA	1.76	1.46
2:Y:378:SER:C	2:Y:378:SER:CA	1.88	1.46
3:Z:409:PRO:C	3:Z:409:PRO:CA	1.88	1.46
1:X:459:LEU:C	1:X:459:LEU:CA	1.87	1.46
1:R:492:GLU:C	1:R:493:HIS:N	1.69	1.46
1:F:493:HIS:N	1:F:493:HIS:CA	1.76	1.46
2:G:378:SER:CA	2:G:378:SER:C	1.89	1.46
3:Z:411:GLU:C	3:Z:412:GLU:N	1.69	1.46
2:M:378:SER:CA	2:M:378:SER:C	1.88	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:472:GLU:N	1:F:472:GLU:CA	1.76	1.45
3:H:409:PRO:CA	3:H:409:PRO:C	1.88	1.45
2:S:379:HIS:N	2:S:379:HIS:CA	1.76	1.45
5:W:73:LEU:CB	6:O:683:LYS:CB	1.92	1.45
1:X:493:HIS:N	1:X:493:HIS:CA	1.76	1.45
1:L:454:TYR:C	1:L:454:TYR:HA	1.37	1.45
3:N:409:PRO:CA	3:N:409:PRO:C	1.88	1.45
1:X:400:GLY:N	1:X:401:TYR:N	1.63	1.45
2:M:339:TYR:C	2:M:340:ALA:N	1.72	1.45
1:R:367:THR:C	1:R:367:THR:CA	1.85	1.45
1:R:459:LEU:C	1:R:459:LEU:CA	1.86	1.45
4:V:1431:ILE:CB	5:W:1336:GLU:H	1.27	1.45
1:R:400:GLY:N	1:R:401:TYR:N	1.63	1.45
2:M:327:ARG:CA	2:M:327:ARG:N	1.77	1.44
2:Y:379:HIS:N	2:Y:379:HIS:CA	1.76	1.44
2:S:327:ARG:CA	2:S:327:ARG:N	1.77	1.44
2:Y:326:LEU:CA	2:Y:326:LEU:N	1.80	1.44
2:S:339:TYR:C	2:S:340:ALA:N	1.72	1.44
2:G:339:TYR:C	2:G:340:ALA:N	1.72	1.43
2:S:326:LEU:CA	2:S:326:LEU:N	1.80	1.43
2:M:326:LEU:CA	2:M:326:LEU:N	1.80	1.43
2:Y:327:ARG:CA	2:Y:327:ARG:N	1.77	1.43
3:T:374:SER:CA	3:T:374:SER:CB	1.96	1.43
3:H:374:SER:CA	3:H:374:SER:CB	1.96	1.43
3:N:374:SER:CA	3:N:374:SER:CB	1.96	1.43
1:R:493:HIS:N	1:R:493:HIS:CA	1.76	1.43
2:G:326:LEU:CA	2:G:326:LEU:N	1.80	1.43
2:G:327:ARG:CA	2:G:327:ARG:N	1.77	1.43
3:T:409:PRO:CA	3:T:409:PRO:C	1.88	1.43
1:F:388:GLN:CB	4:D:880:GLU:CB	1.96	1.42
1:L:453:TYR:CA	1:L:453:TYR:CB	1.97	1.42
4:V:1422:TYR:CB	5:W:1368:SER:CB	1.93	1.42
5:K:1016:ALA:CB	6:I:814:MET:CB	1.92	1.42
1:X:400:GLY:N	1:X:400:GLY:CA	1.82	1.42
1:R:453:TYR:CA	1:R:453:TYR:CB	1.97	1.42
3:H:408:SER:CB	4:D:812:GLU:CB	1.93	1.41
1:L:400:GLY:N	1:L:401:TYR:N	1.63	1.41
1:X:450:GLU:O	1:X:450:GLU:C	1.64	1.41
3:Z:374:SER:CB	3:Z:374:SER:CA	1.96	1.41
1:X:453:TYR:CA	1:X:453:TYR:CB	1.97	1.40
1:R:400:GLY:N	1:R:400:GLY:CA	1.82	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:400:GLY:N	1:F:400:GLY:CA	1.82	1.40
4:P:1442:GLU:CA	6:O:180:ASN:O	1.69	1.40
1:F:453:TYR:CA	1:F:453:TYR:CB	1.97	1.40
1:L:458:ASP:CA	1:L:458:ASP:C	1.94	1.40
4:V:1498:ALA:HA	5:W:1360:TYR:CB	0.95	1.40
1:F:385:ARG:CB	4:D:884:GLN:N	1.83	1.39
1:F:400:GLY:N	1:F:401:TYR:N	1.63	1.39
1:L:400:GLY:N	1:L:400:GLY:CA	1.82	1.39
1:F:450:GLU:C	1:F:450:GLU:O	1.64	1.38
1:X:454:TYR:C	1:X:454:TYR:HA	1.38	1.38
4:P:1441:LEU:C	6:O:180:ASN:C	1.83	1.38
1:R:458:ASP:CA	1:R:458:ASP:C	1.94	1.38
1:F:458:ASP:CA	1:F:458:ASP:C	1.94	1.38
1:X:458:ASP:CA	1:X:458:ASP:C	1.94	1.38
1:R:450:GLU:C	1:R:450:GLU:O	1.64	1.38
1:R:371:LYS:O	4:P:893:ALA:CB	1.69	1.38
4:P:1673:LEU:CB	6:O:452:HIS:CA	2.03	1.37
1:R:454:TYR:C	1:R:454:TYR:HA	1.38	1.37
4:P:1442:GLU:N	6:O:181:ILE:C	1.78	1.37
4:V:1421:LEU:CB	5:W:1371:VAL:HA	1.52	1.37
1:L:450:GLU:C	1:L:450:GLU:O	1.63	1.37
1:R:458:ASP:C	1:R:459:LEU:N	1.82	1.36
1:F:458:ASP:C	1:F:459:LEU:N	1.82	1.36
1:L:458:ASP:C	1:L:459:LEU:N	1.82	1.36
1:R:380:MET:CA	4:P:887:ASN:CB	2.04	1.36
4:P:1664:ASP:CA	6:O:446:GLU:CB	1.93	1.35
4:P:1664:ASP:N	6:O:446:GLU:CA	1.80	1.35
1:F:401:TYR:N	1:F:401:TYR:CA	1.90	1.35
1:X:458:ASP:C	1:X:459:LEU:N	1.82	1.35
1:R:401:TYR:N	1:R:401:TYR:CA	1.90	1.35
1:X:401:TYR:N	1:X:401:TYR:CA	1.90	1.34
4:V:1407:ILE:CA	5:W:1370:SER:HA	1.53	1.34
2:M:327:ARG:CA	2:M:327:ARG:C	2.01	1.34
4:P:1675:LEU:C	6:O:461:LEU:CB	1.99	1.33
4:V:1481:VAL:O	5:W:1367:MET:CB	1.75	1.33
1:R:451:GLU:CA	1:R:451:GLU:C	2.02	1.33
1:X:451:GLU:CA	1:X:451:GLU:C	2.02	1.33
1:L:451:GLU:CA	1:L:451:GLU:C	2.02	1.33
2:Y:327:ARG:CA	2:Y:327:ARG:C	2.02	1.32
4:P:1438:PRO:HA	6:O:181:ILE:CB	1.57	1.32
4:P:1441:LEU:C	6:O:183:MET:H	1.35	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:1667:ALA:HB3	6:O:446:GLU:N	1.40	1.32
4:V:1431:ILE:CB	5:W:1336:GLU:N	1.88	1.32
4:V:1502:ARG:CB	5:W:1341:VAL:O	1.75	1.32
2:S:327:ARG:CA	2:S:327:ARG:C	2.02	1.32
1:F:451:GLU:CA	1:F:451:GLU:C	2.02	1.31
1:L:401:TYR:N	1:L:401:TYR:CA	1.90	1.31
2:M:341:ALA:N	2:M:341:ALA:CA	1.93	1.31
4:V:1431:ILE:C	5:W:1336:GLU:CB	2.04	1.31
2:G:327:ARG:CA	2:G:327:ARG:C	2.02	1.31
4:V:1407:ILE:CB	5:W:1370:SER:N	1.93	1.30
2:G:341:ALA:N	2:G:341:ALA:CA	1.93	1.30
4:P:783:PHE:HA	5:Q:1093:ASN:CA	1.60	1.30
1:R:399:SER:C	1:R:400:GLY:CA	2.04	1.30
2:S:341:ALA:N	2:S:341:ALA:CA	1.94	1.30
4:P:783:PHE:HA	5:Q:1093:ASN:CB	1.60	1.30
4:P:1621:LEU:CB	6:O:451:SER:HA	1.62	1.30
1:F:399:SER:C	1:F:400:GLY:CA	2.04	1.30
1:L:399:SER:C	1:L:400:GLY:CA	2.04	1.30
4:V:1428:TYR:CB	5:W:1338:PRO:N	1.93	1.30
4:P:1441:LEU:CB	6:O:179:ASP:H	1.11	1.29
4:V:1551:TYR:CB	5:W:1358:CYS:CB	2.11	1.29
1:F:378:LYS:HA	4:D:887:ASN:O	1.21	1.29
1:X:399:SER:C	1:X:400:GLY:CA	2.04	1.29
4:V:1429:LEU:HA	5:W:1338:PRO:O	1.13	1.29
2:Y:341:ALA:N	2:Y:341:ALA:CA	1.94	1.28
4:P:1443:ALA:HB2	6:O:186:ALA:CB	1.64	1.28
4:P:1442:GLU:HA	6:O:180:ASN:O	1.10	1.27
4:V:62:GLN:HA	5:W:1178:LEU:O	1.35	1.26
4:P:1438:PRO:CA	6:O:181:ILE:CB	2.14	1.25
4:V:1429:LEU:O	5:W:1342:LEU:HA	1.30	1.25
4:P:1673:LEU:CB	6:O:452:HIS:C	1.90	1.25
4:V:1497:LEU:CB	5:W:1360:TYR:O	1.83	1.25
4:P:42:ILE:N	4:V:777:GLU:N	1.62	1.25
4:D:1675:LEU:CB	6:C:481:ARG:CB	2.12	1.25
1:R:380:MET:N	4:P:887:ASN:CB	2.00	1.24
4:P:1672:GLU:N	6:O:449:GLY:O	1.67	1.24
4:P:1675:LEU:H	6:O:453:PHE:CB	1.49	1.24
1:R:450:GLU:CB	1:R:451:GLU:N	2.01	1.23
1:X:450:GLU:CB	1:X:451:GLU:N	2.00	1.23
1:R:374:GLN:CB	4:P:894:ASP:C	2.10	1.23
1:L:450:GLU:CB	1:L:451:GLU:N	2.00	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:374:GLN:CA	4:P:896:VAL:CB	2.17	1.23
4:V:1429:LEU:O	5:W:1342:LEU:CA	1.86	1.23
4:P:1675:LEU:O	6:O:461:LEU:CB	1.87	1.23
1:F:450:GLU:CB	1:F:451:GLU:N	2.00	1.22
1:X:487:ASP:CA	1:X:487:ASP:C	2.13	1.22
1:F:487:ASP:C	1:F:487:ASP:CA	2.13	1.22
4:P:1441:LEU:CB	6:O:179:ASP:N	1.86	1.22
4:P:1444:ALA:N	6:O:183:MET:CB	1.97	1.22
1:L:487:ASP:C	1:L:487:ASP:CA	2.13	1.22
1:R:456:ASP:C	1:R:456:ASP:CB	2.12	1.22
2:G:339:TYR:C	2:G:340:ALA:CA	2.13	1.21
2:S:379:HIS:C	2:S:380:ILE:N	1.99	1.21
2:G:379:HIS:C	2:G:380:ILE:N	1.99	1.21
2:M:339:TYR:C	2:M:340:ALA:CA	2.13	1.21
1:R:487:ASP:CA	1:R:487:ASP:C	2.13	1.21
1:L:456:ASP:C	1:L:456:ASP:CB	2.12	1.21
1:X:456:ASP:C	1:X:456:ASP:CB	2.12	1.20
1:L:402:ALA:HB3	1:L:403:ILE:N	1.11	1.20
4:P:1664:ASP:H	6:O:446:GLU:CA	1.40	1.20
4:P:1673:LEU:CB	6:O:452:HIS:HA	1.65	1.20
4:V:1466:ASN:CB	5:W:1339:SER:CB	2.17	1.20
4:V:1481:VAL:C	5:W:1367:MET:CB	2.15	1.20
5:W:568:TRP:CB	6:O:610:ASN:CB	2.19	1.20
1:F:456:ASP:C	1:F:456:ASP:CB	2.12	1.20
2:M:379:HIS:C	2:M:380:ILE:N	1.98	1.20
4:P:1675:LEU:CB	6:O:461:LEU:CB	2.18	1.20
1:R:384:HIS:O	4:P:880:GLU:CA	1.87	1.20
2:S:339:TYR:C	2:S:340:ALA:CA	2.13	1.20
2:Y:379:HIS:C	2:Y:380:ILE:N	1.98	1.20
4:V:62:GLN:HA	5:W:1178:LEU:C	1.67	1.20
2:Y:339:TYR:C	2:Y:340:ALA:CA	2.13	1.19
1:L:457:ALA:CB	1:L:457:ALA:N	2.05	1.19
1:L:455:ILE:O	1:L:457:ALA:N	1.76	1.19
1:R:374:GLN:HA	4:P:896:VAL:CA	1.70	1.19
4:V:1407:ILE:CB	5:W:1370:SER:C	2.13	1.19
2:M:327:ARG:N	2:M:327:ARG:HA	1.56	1.19
1:R:457:ALA:CB	1:R:457:ALA:N	2.05	1.19
4:V:1432:ALA:N	5:W:1336:GLU:HA	0.86	1.19
4:V:1402:LYS:CB	5:W:1373:VAL:CB	2.20	1.19
1:X:455:ILE:O	1:X:457:ALA:N	1.76	1.18
4:P:1673:LEU:CA	6:O:451:SER:O	1.90	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:455:ILE:O	1:F:457:ALA:N	1.75	1.18
1:F:450:GLU:CA	1:F:450:GLU:C	2.16	1.18
1:R:450:GLU:CA	1:R:450:GLU:C	2.16	1.18
1:X:457:ALA:CB	1:X:457:ALA:N	2.05	1.17
2:G:341:ALA:N	2:G:342:PRO:N	1.92	1.17
2:S:341:ALA:N	2:S:342:PRO:N	1.92	1.17
1:F:457:ALA:CB	1:F:457:ALA:N	2.05	1.17
1:X:450:GLU:CA	1:X:450:GLU:C	2.16	1.17
1:L:450:GLU:CA	1:L:450:GLU:C	2.16	1.17
1:R:450:GLU:O	1:R:451:GLU:HA	1.38	1.17
1:R:371:LYS:O	4:P:893:ALA:HB1	1.02	1.17
2:G:327:ARG:N	2:G:327:ARG:HA	1.56	1.16
1:R:384:HIS:H	4:P:883:LEU:CB	1.58	1.16
4:P:1675:LEU:CB	6:O:461:LEU:C	2.19	1.16
2:Y:341:ALA:N	2:Y:342:PRO:N	1.92	1.16
1:R:455:ILE:O	1:R:457:ALA:N	1.76	1.16
4:V:66:LYS:CB	5:W:1182:LEU:O	1.92	1.16
1:R:379:LEU:O	4:P:884:GLN:HA	1.45	1.16
4:P:166:LEU:O	4:V:792:GLY:C	1.86	1.16
2:Y:326:LEU:C	2:Y:326:LEU:CB	2.19	1.15
2:S:326:LEU:C	2:S:326:LEU:CB	2.19	1.15
2:M:341:ALA:N	2:M:342:PRO:N	1.92	1.15
4:P:1442:GLU:N	6:O:180:ASN:O	1.77	1.15
1:R:493:HIS:CA	1:R:493:HIS:CB	2.25	1.15
4:V:1429:LEU:CB	5:W:1342:LEU:N	2.10	1.15
1:F:493:HIS:CA	1:F:493:HIS:CB	2.25	1.14
2:G:326:LEU:C	2:G:326:LEU:CB	2.19	1.14
1:X:493:HIS:CA	1:X:493:HIS:CB	2.25	1.14
2:Y:327:ARG:N	2:Y:327:ARG:HA	1.56	1.14
2:S:327:ARG:N	2:S:327:ARG:HA	1.56	1.14
4:P:783:PHE:CA	5:Q:1093:ASN:CB	2.24	1.14
1:F:450:GLU:O	1:F:451:GLU:HA	1.38	1.14
1:L:493:HIS:CA	1:L:493:HIS:CB	2.25	1.14
4:V:1431:ILE:CB	5:W:1336:GLU:CA	2.26	1.14
4:V:60:ASN:HA	5:W:1176:SER:CB	1.75	1.14
1:R:452:ARG:HA	1:R:453:TYR:CA	1.76	1.14
3:H:490:GLN:CB	3:H:490:GLN:C	2.21	1.14
2:M:326:LEU:C	2:M:326:LEU:CB	2.19	1.14
1:R:388:GLN:CB	4:P:880:GLU:N	2.08	1.14
4:V:69:LYS:HA	5:W:1185:ILE:C	1.36	1.14
1:F:382:LEU:HA	4:D:884:GLN:HA	1.31	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:1404:LEU:O	5:W:1370:SER:CB	1.96	1.13
1:X:450:GLU:O	1:X:451:GLU:HA	1.37	1.13
3:Z:490:GLN:CB	3:Z:490:GLN:C	2.21	1.13
3:T:490:GLN:CB	3:T:490:GLN:C	2.21	1.13
4:P:1442:GLU:H	6:O:182:GLU:N	1.47	1.13
1:F:378:LYS:CA	4:D:887:ASN:O	1.95	1.13
1:L:450:GLU:O	1:L:451:GLU:HA	1.37	1.13
4:P:1673:LEU:CB	6:O:451:SER:O	1.96	1.13
4:D:1660:LEU:CB	6:C:452:HIS:H	1.60	1.13
5:K:1025:LYS:CB	6:C:425:ASP:H	1.60	1.13
4:V:1431:ILE:H	5:W:1335:VAL:C	1.57	1.13
4:P:1675:LEU:CA	6:O:461:LEU:CB	2.26	1.12
1:L:402:ALA:CB	1:L:403:ILE:H	1.56	1.12
1:R:385:ARG:CA	4:P:879:LEU:O	1.95	1.12
4:V:1429:LEU:CA	5:W:1338:PRO:O	1.97	1.12
1:F:452:ARG:HA	1:F:453:TYR:CA	1.76	1.12
4:P:1670:LEU:O	6:O:452:HIS:C	1.81	1.12
4:V:69:LYS:CA	5:W:1185:ILE:C	2.03	1.12
3:N:490:GLN:CB	3:N:490:GLN:C	2.21	1.11
4:P:1439:ASP:HA	6:O:185:TYR:CB	1.80	1.11
4:V:1431:ILE:N	5:W:1336:GLU:N	1.97	1.11
1:R:370:ALA:HB1	4:P:897:VAL:CB	1.80	1.11
4:P:42:ILE:C	4:V:778:PRO:HA	1.59	1.11
1:L:402:ALA:CB	1:L:403:ILE:N	1.92	1.10
1:R:402:ALA:HB3	1:R:403:ILE:N	1.12	1.10
1:R:454:TYR:HA	1:R:455:ILE:N	1.67	1.10
1:L:454:TYR:HA	1:L:455:ILE:N	1.67	1.10
4:P:1675:LEU:H	6:O:453:PHE:CA	1.62	1.10
4:P:1692:LEU:C	6:O:302:PRO:N	2.08	1.10
1:X:454:TYR:HA	1:X:455:ILE:N	1.67	1.10
3:N:411:GLU:C	3:N:411:GLU:CA	2.25	1.09
4:P:1445:LYS:N	6:O:183:MET:CB	2.16	1.09
4:V:1431:ILE:CA	5:W:1336:GLU:N	2.15	1.09
1:X:402:ALA:HB3	1:X:403:ILE:N	1.12	1.09
1:L:452:ARG:HA	1:L:453:TYR:CA	1.76	1.09
1:R:378:LYS:CB	4:P:885:GLY:O	2.01	1.09
4:P:1443:ALA:CB	6:O:186:ALA:CB	2.30	1.09
1:F:378:LYS:CB	4:D:888:PRO:C	2.24	1.09
1:F:454:TYR:HA	1:F:455:ILE:N	1.67	1.09
3:H:411:GLU:C	3:H:411:GLU:CA	2.26	1.09
3:N:408:SER:HA	3:N:410:LEU:H	1.18	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:1445:LYS:H	6:O:183:MET:CB	1.65	1.09
1:F:402:ALA:HB3	1:F:403:ILE:N	1.11	1.08
1:R:400:GLY:C	1:R:401:TYR:CA	2.26	1.08
4:V:1496:ALA:HB1	5:W:1367:MET:C	1.54	1.08
1:X:451:GLU:C	1:X:451:GLU:HA	1.78	1.08
1:X:452:ARG:HA	1:X:453:TYR:CA	1.76	1.08
3:Z:411:GLU:C	3:Z:411:GLU:CA	2.26	1.08
3:T:411:GLU:C	3:T:411:GLU:CA	2.26	1.08
4:V:1429:LEU:C	5:W:1335:VAL:O	1.90	1.07
4:D:1661:ARG:CA	6:C:448:TYR:N	2.17	1.07
1:F:385:ARG:CB	4:D:884:GLN:CB	2.30	1.07
1:L:400:GLY:C	1:L:401:TYR:CA	2.26	1.07
1:F:451:GLU:C	1:F:451:GLU:HA	1.77	1.07
4:P:42:ILE:C	4:V:778:PRO:CA	2.20	1.07
4:P:1443:ALA:HB2	6:O:186:ALA:HB2	1.09	1.07
4:V:1431:ILE:C	5:W:1336:GLU:CA	2.23	1.07
3:H:408:SER:HA	3:H:410:LEU:H	1.18	1.07
1:F:400:GLY:C	1:F:401:TYR:CA	2.26	1.07
2:S:326:LEU:CA	2:S:326:LEU:O	2.03	1.07
4:D:1674:ALA:HB1	6:C:450:GLU:CB	1.85	1.07
2:G:326:LEU:CA	2:G:326:LEU:O	2.03	1.06
1:X:400:GLY:C	1:X:401:TYR:CA	2.26	1.06
4:P:1621:LEU:CB	6:O:451:SER:CA	2.33	1.06
1:X:454:TYR:CB	1:X:454:TYR:N	2.17	1.06
1:R:454:TYR:CB	1:R:454:TYR:N	2.17	1.06
1:F:454:TYR:CB	1:F:454:TYR:N	2.17	1.06
4:V:1431:ILE:H	5:W:1336:GLU:N	1.54	1.06
4:V:1494:MET:HA	5:W:1361:LEU:CB	1.86	1.06
1:L:454:TYR:CB	1:L:454:TYR:N	2.17	1.06
1:R:451:GLU:C	1:R:451:GLU:HA	1.78	1.05
4:P:1442:GLU:N	6:O:183:MET:N	1.85	1.05
4:V:1429:LEU:C	5:W:1342:LEU:HA	1.81	1.05
1:R:374:GLN:CB	4:P:897:VAL:H	1.68	1.05
4:J:1663:GLN:HA	4:J:1667:ALA:HB2	1.39	1.05
4:V:1497:LEU:N	5:W:1365:GLN:O	1.90	1.05
3:T:408:SER:HA	3:T:410:LEU:H	1.18	1.04
1:F:402:ALA:CB	1:F:403:ILE:H	1.56	1.04
2:M:326:LEU:CA	2:M:326:LEU:O	2.03	1.04
2:Y:366:GLU:CB	2:Y:366:GLU:C	2.31	1.04
1:L:451:GLU:C	1:L:451:GLU:HA	1.77	1.04
4:V:1497:LEU:CA	5:W:1365:GLN:O	2.05	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:380:MET:O	4:P:883:LEU:CB	2.05	1.04
4:V:1428:TYR:O	5:W:1336:GLU:C	1.86	1.04
2:Y:326:LEU:CA	2:Y:326:LEU:O	2.03	1.04
4:V:61:VAL:HA	5:W:1174:ALA:O	1.56	1.03
1:L:458:ASP:CB	1:L:459:LEU:N	2.22	1.03
4:V:62:GLN:CA	5:W:1178:LEU:C	2.31	1.03
4:P:1675:LEU:CB	6:O:462:TYR:N	2.21	1.03
3:Z:408:SER:HA	3:Z:410:LEU:H	1.18	1.03
2:S:366:GLU:CB	2:S:366:GLU:C	2.31	1.03
4:P:1442:GLU:N	6:O:182:GLU:N	1.95	1.03
2:G:366:GLU:CB	2:G:366:GLU:C	2.31	1.03
4:P:783:PHE:HA	5:Q:1093:ASN:HA	1.35	1.03
4:V:1663:GLN:HA	4:V:1667:ALA:HB2	1.39	1.03
1:X:458:ASP:O	1:X:460:LEU:N	1.92	1.02
2:M:366:GLU:CB	2:M:366:GLU:C	2.31	1.02
1:R:458:ASP:CB	1:R:459:LEU:N	2.22	1.02
1:X:458:ASP:CB	1:X:459:LEU:N	2.22	1.02
1:F:458:ASP:CB	1:F:459:LEU:N	2.22	1.02
1:X:402:ALA:CB	1:X:403:ILE:H	1.56	1.02
1:L:458:ASP:O	1:L:460:LEU:N	1.92	1.02
4:P:1437:GLU:CB	6:O:487:CYS:CB	2.37	1.02
4:V:1502:ARG:CB	5:W:1341:VAL:C	2.32	1.02
4:V:1502:ARG:CB	5:W:1341:VAL:HA	1.87	1.02
2:Y:380:ILE:N	2:Y:380:ILE:CA	2.23	1.01
1:R:381:ASP:CB	4:P:886:ILE:CB	2.38	1.01
1:R:458:ASP:O	1:R:460:LEU:N	1.92	1.01
1:F:385:ARG:CB	4:D:884:GLN:CA	2.39	1.01
1:R:402:ALA:CB	1:R:403:ILE:H	1.56	1.01
4:P:1441:LEU:C	6:O:183:MET:N	2.12	1.01
4:P:1441:LEU:O	6:O:180:ASN:CA	2.07	1.01
4:D:1663:GLN:HA	4:D:1667:ALA:HB2	1.39	1.01
2:G:380:ILE:N	2:G:380:ILE:CA	2.23	1.01
1:R:402:ALA:CB	1:R:403:ILE:N	1.92	1.01
2:S:380:ILE:N	2:S:380:ILE:CA	2.23	1.01
4:P:44:LYS:N	4:V:780:LEU:CB	2.22	1.01
4:P:1467:ILE:CB	6:O:173:PRO:HA	1.88	1.01
4:P:1663:GLN:HA	4:P:1667:ALA:HB2	1.39	1.01
2:M:380:ILE:N	2:M:380:ILE:CA	2.23	1.00
1:F:458:ASP:C	1:F:459:LEU:CA	2.35	1.00
1:F:458:ASP:O	1:F:460:LEU:N	1.92	1.00
4:P:1442:GLU:N	6:O:180:ASN:C	2.16	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:1667:ALA:HB3	6:O:446:GLU:CA	1.75	1.00
4:V:62:GLN:O	5:W:1181:GLU:O	1.80	1.00
4:V:1502:ARG:CB	5:W:1341:VAL:CA	2.39	1.00
5:K:1025:LYS:CB	6:C:425:ASP:N	2.24	1.00
1:F:311:GLN:C	1:F:311:GLN:CB	2.35	0.99
1:X:458:ASP:C	1:X:459:LEU:CA	2.35	0.99
1:L:455:ILE:O	1:L:456:ASP:C	2.02	0.99
1:R:311:GLN:C	1:R:311:GLN:CB	2.36	0.99
4:P:1441:LEU:C	6:O:180:ASN:O	2.05	0.99
4:V:1429:LEU:CB	5:W:1342:LEU:H	1.74	0.99
1:L:458:ASP:C	1:L:459:LEU:CA	2.35	0.99
5:W:565:VAL:H	6:O:632:ALA:HB1	1.24	0.99
1:F:402:ALA:CB	1:F:403:ILE:N	1.92	0.99
1:R:370:ALA:CB	4:P:897:VAL:CB	2.35	0.99
1:R:458:ASP:C	1:R:459:LEU:CA	2.35	0.99
4:P:171:THR:H	4:V:792:GLY:N	1.59	0.99
4:P:1667:ALA:CB	6:O:446:GLU:CA	2.41	0.99
5:K:1056:ALA:CB	6:C:430:SER:HA	1.92	0.99
4:P:1443:ALA:CB	6:O:186:ALA:HB2	1.92	0.98
4:V:1432:ALA:CA	5:W:1336:GLU:HA	1.92	0.98
1:L:311:GLN:C	1:L:311:GLN:CB	2.35	0.98
4:V:64:HIS:H	5:W:1177:GLN:CB	1.75	0.98
4:V:1431:ILE:N	5:W:1335:VAL:C	2.21	0.98
4:V:1403:LEU:O	5:W:1371:VAL:N	1.77	0.98
1:X:311:GLN:C	1:X:311:GLN:CB	2.35	0.97
1:R:380:MET:H	4:P:887:ASN:CB	1.68	0.97
4:P:1671:GLN:C	6:O:453:PHE:N	2.13	0.97
4:P:1667:ALA:CB	6:O:446:GLU:N	2.25	0.97
4:P:783:PHE:C	5:Q:1093:ASN:CB	2.37	0.97
1:F:455:ILE:O	1:F:456:ASP:C	2.02	0.97
3:H:409:PRO:C	3:H:409:PRO:CB	2.37	0.97
4:V:1431:ILE:CB	5:W:1332:ILE:O	2.12	0.97
3:T:409:PRO:C	3:T:409:PRO:CB	2.38	0.97
1:R:381:ASP:H	4:P:887:ASN:H	1.01	0.97
4:V:59:LYS:CB	5:W:1173:ASP:CB	2.42	0.97
1:F:382:LEU:HA	4:D:884:GLN:CA	1.95	0.97
1:X:455:ILE:O	1:X:456:ASP:C	2.02	0.97
4:P:1663:GLN:CA	6:O:446:GLU:CB	2.42	0.97
1:F:453:TYR:O	1:F:455:ILE:CB	2.13	0.96
4:V:1493:ARG:HA	5:W:1366:SER:CB	1.94	0.96
3:Z:409:PRO:C	3:Z:409:PRO:CB	2.38	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:374:GLN:HA	4:P:896:VAL:N	1.79	0.96
4:P:1439:ASP:CA	6:O:185:TYR:CB	2.43	0.96
4:P:1443:ALA:CB	6:O:186:ALA:HB3	1.94	0.96
4:V:68:GLN:O	5:W:1186:THR:C	1.85	0.96
4:V:1421:LEU:CB	5:W:1371:VAL:CA	2.44	0.96
4:P:165:GLU:O	4:V:792:GLY:O	1.82	0.96
4:V:1431:ILE:C	5:W:1336:GLU:HA	1.87	0.96
4:P:1667:ALA:HA	6:O:447:ASP:O	1.66	0.95
3:N:409:PRO:C	3:N:409:PRO:CB	2.38	0.95
1:F:450:GLU:O	1:F:451:GLU:C	2.09	0.95
1:X:453:TYR:O	1:X:455:ILE:CB	2.13	0.95
4:V:1407:ILE:CA	5:W:1370:SER:CB	2.43	0.95
1:X:402:ALA:CB	1:X:403:ILE:N	1.92	0.95
1:R:374:GLN:CB	4:P:896:VAL:N	2.29	0.95
1:R:450:GLU:O	1:R:451:GLU:C	2.09	0.95
1:L:453:TYR:O	1:L:455:ILE:CB	2.13	0.95
1:R:388:GLN:CB	4:P:880:GLU:H	1.79	0.95
4:P:169:MET:HA	4:V:795:ILE:H	1.29	0.95
4:P:1673:LEU:N	6:O:451:SER:C	2.25	0.95
5:K:1016:ALA:H	6:I:815:GLU:N	1.63	0.95
1:R:453:TYR:O	1:R:455:ILE:CB	2.13	0.94
4:P:783:PHE:CA	5:Q:1093:ASN:HA	1.96	0.94
1:F:378:LYS:CB	4:D:893:ALA:HA	1.98	0.94
1:X:450:GLU:O	1:X:451:GLU:C	2.09	0.94
1:F:382:LEU:N	4:D:888:PRO:N	2.14	0.94
1:F:452:ARG:CA	1:F:453:TYR:CA	2.41	0.94
1:R:452:ARG:CA	1:R:453:TYR:CA	2.41	0.94
5:K:1016:ALA:HB2	6:I:814:MET:CB	1.96	0.94
1:L:450:GLU:O	1:L:451:GLU:C	2.09	0.94
4:V:1432:ALA:HB2	5:W:1336:GLU:O	1.65	0.93
1:X:452:ARG:CA	1:X:453:TYR:CA	2.40	0.93
1:X:399:SER:C	1:X:400:GLY:HA3	1.93	0.93
4:V:1427:TYR:CB	5:W:1331:LEU:O	2.15	0.93
4:V:1431:ILE:CA	5:W:1336:GLU:CB	2.46	0.93
1:R:384:HIS:CB	4:P:883:LEU:CB	2.47	0.93
4:V:1493:ARG:HA	5:W:1366:SER:HA	1.48	0.93
1:F:399:SER:C	1:F:400:GLY:HA3	1.93	0.92
4:V:59:LYS:O	5:W:1176:SER:CB	2.17	0.92
2:M:326:LEU:C	2:M:327:ARG:CA	2.43	0.92
2:S:326:LEU:C	2:S:327:ARG:CA	2.42	0.92
4:V:64:HIS:N	5:W:1177:GLN:CB	2.32	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:452:ARG:CA	1:L:453:TYR:CA	2.41	0.92
4:P:42:ILE:O	4:V:778:PRO:HA	1.70	0.92
4:P:1441:LEU:O	6:O:180:ASN:C	2.10	0.92
4:P:1675:LEU:N	6:O:453:PHE:CB	2.31	0.92
4:V:69:LYS:HA	5:W:1185:ILE:O	1.69	0.92
2:Y:326:LEU:C	2:Y:327:ARG:CA	2.43	0.92
4:P:1439:ASP:CB	6:O:185:TYR:CB	2.47	0.92
4:P:1667:ALA:HB2	6:O:446:GLU:CB	1.98	0.91
1:R:399:SER:C	1:R:400:GLY:HA3	1.93	0.91
2:G:326:LEU:C	2:G:327:ARG:CA	2.43	0.91
1:R:381:ASP:H	4:P:887:ASN:N	1.68	0.91
1:R:384:HIS:N	4:P:883:LEU:CB	2.32	0.91
4:P:1675:LEU:N	6:O:453:PHE:CA	2.31	0.91
4:V:1493:ARG:HA	5:W:1366:SER:CA	2.00	0.91
4:P:1663:GLN:CA	4:P:1667:ALA:HB2	2.01	0.91
4:P:170:THR:N	4:V:792:GLY:N	2.12	0.90
4:V:1496:ALA:CB	5:W:1367:MET:C	2.43	0.90
1:L:399:SER:C	1:L:400:GLY:HA3	1.93	0.90
1:F:378:LYS:CB	4:D:893:ALA:N	2.35	0.90
4:V:1663:GLN:CA	4:V:1667:ALA:HB2	2.01	0.90
4:D:1663:GLN:CA	4:D:1667:ALA:HB2	2.01	0.90
1:R:455:ILE:O	1:R:456:ASP:C	2.02	0.90
4:V:60:ASN:CA	5:W:1176:SER:CB	2.49	0.90
4:V:1431:ILE:CA	5:W:1336:GLU:CA	2.49	0.90
4:J:1663:GLN:CA	4:J:1667:ALA:HB2	2.01	0.90
1:R:384:HIS:O	4:P:880:GLU:HA	1.00	0.89
1:R:388:GLN:H	4:P:880:GLU:CA	1.85	0.89
4:V:62:GLN:N	5:W:1178:LEU:C	2.26	0.89
5:K:1025:LYS:CB	6:C:425:ASP:HA	2.01	0.89
4:P:1672:GLU:H	6:O:449:GLY:C	1.80	0.89
4:D:1661:ARG:CB	6:C:448:TYR:C	2.32	0.89
1:R:374:GLN:CA	4:P:896:VAL:H	1.85	0.89
4:V:59:LYS:CB	5:W:1173:ASP:HA	2.02	0.89
4:V:1432:ALA:N	5:W:1336:GLU:CB	2.24	0.89
4:V:1407:ILE:CA	5:W:1370:SER:CA	2.24	0.88
4:V:1407:ILE:CB	5:W:1370:SER:CA	0.89	0.88
4:V:1494:MET:CA	5:W:1361:LEU:CB	2.48	0.88
1:F:378:LYS:CB	4:D:893:ALA:CA	2.51	0.88
1:F:451:GLU:CA	1:F:452:ARG:N	2.36	0.88
1:L:453:TYR:CA	1:L:453:TYR:C	2.47	0.88
1:R:453:TYR:CA	1:R:453:TYR:C	2.47	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:783:PHE:CA	5:Q:1093:ASN:CA	2.46	0.88
4:V:70:ALA:N	5:W:1184:ASP:CB	2.33	0.88
6:O:355:TYR:HA	6:O:362:ARG:CB	2.04	0.88
1:R:451:GLU:CA	1:R:452:ARG:N	2.36	0.88
4:P:1671:GLN:H	6:O:448:TYR:C	1.81	0.88
4:D:1662:CYS:HA	6:C:446:GLU:HA	1.54	0.88
5:K:1016:ALA:H	6:I:814:MET:CB	1.84	0.88
6:C:355:TYR:HA	6:C:362:ARG:CB	2.04	0.88
1:F:453:TYR:CA	1:F:453:TYR:C	2.47	0.88
1:X:453:TYR:CA	1:X:453:TYR:C	2.47	0.88
1:R:385:ARG:HA	4:P:879:LEU:O	1.16	0.88
5:K:1025:LYS:CB	6:C:425:ASP:CA	2.52	0.88
1:F:388:GLN:C	4:D:880:GLU:CB	2.46	0.87
6:U:355:TYR:HA	6:U:362:ARG:CB	2.04	0.87
1:F:472:GLU:N	1:F:472:GLU:CB	2.37	0.87
4:P:1672:GLU:N	6:O:453:PHE:N	2.18	0.87
6:I:355:TYR:HA	6:I:362:ARG:CB	2.04	0.87
4:P:1679:ILE:H	6:O:455:VAL:CB	1.87	0.87
5:W:563:ARG:CB	6:O:632:ALA:O	2.22	0.87
1:X:451:GLU:CA	1:X:452:ARG:N	2.36	0.87
1:L:451:GLU:CA	1:L:452:ARG:N	2.36	0.87
1:R:388:GLN:H	4:P:880:GLU:CB	1.88	0.87
1:R:374:GLN:CA	4:P:896:VAL:N	2.38	0.87
1:F:449:SER:C	1:F:450:GLU:C	2.43	0.87
1:L:449:SER:C	1:L:450:GLU:C	2.43	0.87
1:X:458:ASP:CA	1:X:459:LEU:N	2.38	0.86
4:V:1498:ALA:N	5:W:1360:TYR:CB	2.37	0.86
1:X:472:GLU:N	1:X:472:GLU:CB	2.38	0.86
1:R:472:GLU:N	1:R:472:GLU:CB	2.37	0.86
1:L:458:ASP:CA	1:L:459:LEU:N	2.38	0.86
2:S:379:HIS:CA	2:S:379:HIS:C	2.49	0.86
4:D:647:LEU:CB	4:D:706:ALA:HB1	2.06	0.86
2:G:379:HIS:CA	2:G:379:HIS:C	2.49	0.86
4:P:1673:LEU:HA	6:O:451:SER:O	1.72	0.86
1:R:449:SER:C	1:R:450:GLU:C	2.43	0.86
1:R:458:ASP:CA	1:R:459:LEU:N	2.38	0.86
4:V:1428:TYR:HA	5:W:1337:ASN:H	1.41	0.86
1:F:382:LEU:H	4:D:888:PRO:CA	1.62	0.85
2:G:326:LEU:CB	2:G:327:ARG:N	2.40	0.85
2:M:379:HIS:CA	2:M:379:HIS:C	2.49	0.85
1:F:458:ASP:CA	1:F:459:LEU:N	2.38	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:472:GLU:N	1:L:472:GLU:CB	2.37	0.85
4:P:1671:GLN:N	6:O:449:GLY:O	2.09	0.85
4:V:647:LEU:CB	4:V:706:ALA:HB1	2.06	0.85
4:V:1481:VAL:CA	5:W:1367:MET:CB	2.54	0.85
4:J:647:LEU:CB	4:J:706:ALA:HB1	2.06	0.85
1:R:381:ASP:N	4:P:887:ASN:CB	2.40	0.85
1:X:449:SER:C	1:X:450:GLU:C	2.44	0.85
2:Y:326:LEU:CB	2:Y:327:ARG:N	2.39	0.85
1:L:455:ILE:CB	1:L:455:ILE:C	2.50	0.85
1:R:388:GLN:H	4:P:880:GLU:N	1.75	0.85
4:V:1551:TYR:CB	5:W:1358:CYS:CA	2.54	0.85
3:H:374:SER:CB	3:H:374:SER:C	2.50	0.85
2:Y:379:HIS:CA	2:Y:379:HIS:C	2.49	0.85
2:S:326:LEU:CB	2:S:327:ARG:N	2.39	0.85
3:H:411:GLU:CB	4:D:812:GLU:H	1.91	0.84
1:R:380:MET:C	4:P:887:ASN:CB	2.50	0.84
1:R:388:GLN:CA	4:P:880:GLU:H	1.89	0.84
4:P:647:LEU:CB	4:P:706:ALA:HB1	2.06	0.84
4:P:1675:LEU:O	6:O:455:VAL:CB	2.24	0.84
1:F:455:ILE:CB	1:F:455:ILE:C	2.50	0.84
4:P:1442:GLU:N	6:O:182:GLU:C	2.35	0.84
4:V:1429:LEU:O	5:W:1342:LEU:CB	2.25	0.84
4:V:1429:LEU:C	5:W:1342:LEU:CA	2.47	0.84
4:D:1660:LEU:CB	6:C:452:HIS:N	2.39	0.84
1:X:455:ILE:CB	1:X:455:ILE:C	2.50	0.84
3:T:374:SER:CB	3:T:374:SER:C	2.50	0.84
3:N:374:SER:CB	3:N:374:SER:C	2.50	0.84
1:F:378:LYS:CB	4:D:888:PRO:O	2.25	0.84
4:V:1496:ALA:CB	5:W:1368:SER:N	2.40	0.84
1:R:455:ILE:CB	1:R:455:ILE:C	2.50	0.83
4:D:1663:GLN:C	4:D:1667:ALA:HB2	2.03	0.83
2:M:326:LEU:CB	2:M:327:ARG:N	2.39	0.83
1:R:371:LYS:O	4:P:893:ALA:HB3	1.76	0.83
4:V:1496:ALA:HB1	5:W:1368:SER:N	1.93	0.83
3:Z:374:SER:CB	3:Z:374:SER:C	2.50	0.83
4:V:1663:GLN:C	4:V:1667:ALA:HB2	2.03	0.83
1:L:311:GLN:C	1:L:311:GLN:N	2.36	0.83
3:N:411:GLU:O	3:N:412:GLU:N	2.11	0.83
1:R:402:ALA:HB3	1:R:403:ILE:H	1.04	0.83
4:V:1485:ALA:HB1	5:W:1365:GLN:CB	2.08	0.83
4:J:1663:GLN:C	4:J:1667:ALA:HB2	2.03	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1661:ARG:CB	6:C:448:TYR:N	0.68	0.83
4:V:62:GLN:N	5:W:1179:ASP:N	2.27	0.83
1:R:311:GLN:C	1:R:311:GLN:N	2.36	0.83
4:V:61:VAL:CB	5:W:1179:ASP:H	1.92	0.83
4:P:1663:GLN:C	4:P:1667:ALA:HB2	2.03	0.83
1:F:456:ASP:CA	1:F:457:ALA:N	2.33	0.82
1:F:382:LEU:H	4:D:888:PRO:N	1.77	0.82
4:P:1673:LEU:HA	6:O:454:THR:CB	2.09	0.82
1:X:311:GLN:C	1:X:311:GLN:N	2.36	0.82
4:P:1466:ASN:N	6:O:173:PRO:O	2.11	0.82
1:F:311:GLN:C	1:F:311:GLN:N	2.36	0.82
5:K:1016:ALA:N	6:I:815:GLU:N	2.16	0.82
3:H:411:GLU:O	3:H:412:GLU:N	2.11	0.82
1:X:402:ALA:HB3	1:X:403:ILE:H	1.04	0.82
1:R:381:ASP:N	4:P:887:ASN:H	1.77	0.82
2:M:339:TYR:C	2:M:340:ALA:CB	2.52	0.82
3:T:497:ARG:N	3:T:497:ARG:CB	2.43	0.82
2:G:339:TYR:C	2:G:340:ALA:CB	2.53	0.81
1:X:456:ASP:CA	1:X:457:ALA:N	2.34	0.81
1:R:374:GLN:CB	4:P:895:ASN:N	2.43	0.81
3:H:374:SER:CB	3:H:374:SER:N	2.44	0.81
1:L:158:ASN:HA	1:L:322:LEU:HA	1.62	0.81
2:S:339:TYR:C	2:S:340:ALA:CB	2.52	0.81
2:Y:339:TYR:C	2:Y:340:ALA:CB	2.53	0.81
3:T:411:GLU:O	3:T:412:GLU:N	2.11	0.81
4:P:1438:PRO:C	6:O:181:ILE:CB	2.35	0.81
3:Z:497:ARG:N	3:Z:497:ARG:CB	2.43	0.81
3:Z:374:SER:CB	3:Z:374:SER:N	2.44	0.81
1:R:380:MET:H	4:P:887:ASN:C	1.76	0.81
4:V:59:LYS:CB	5:W:1173:ASP:CA	2.58	0.81
4:D:1662:CYS:CA	6:C:446:GLU:HA	2.10	0.81
1:F:158:ASN:HA	1:F:322:LEU:HA	1.62	0.81
1:F:456:ASP:O	1:F:457:ALA:C	2.18	0.81
4:P:1675:LEU:N	6:O:453:PHE:C	2.39	0.81
4:V:1429:LEU:C	5:W:1342:LEU:N	2.39	0.81
4:D:1662:CYS:CB	6:C:446:GLU:O	2.29	0.81
1:F:492:GLU:C	1:F:492:GLU:CB	2.55	0.80
3:H:497:ARG:N	3:H:497:ARG:CB	2.43	0.80
1:R:158:ASN:HA	1:R:322:LEU:HA	1.62	0.80
1:F:487:ASP:C	1:F:487:ASP:N	2.39	0.80
4:P:1663:GLN:CB	6:O:446:GLU:CB	2.59	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:487:ASP:C	1:L:487:ASP:N	2.39	0.80
3:N:497:ARG:N	3:N:497:ARG:CB	2.43	0.80
4:V:68:GLN:O	5:W:1186:THR:O	2.00	0.80
4:J:1638:HIS:N	6:I:442:LYS:CB	2.44	0.80
2:G:366:GLU:CB	2:G:366:GLU:N	2.45	0.80
3:Z:497:ARG:N	3:Z:497:ARG:C	2.40	0.80
4:P:1668:GLY:N	6:O:447:ASP:HA	1.79	0.80
1:X:471:GLN:C	1:X:472:GLU:CA	2.55	0.80
1:R:471:GLN:C	1:R:472:GLU:CA	2.54	0.80
1:X:487:ASP:C	1:X:487:ASP:N	2.39	0.80
4:D:1661:ARG:CB	6:C:447:ASP:N	2.45	0.80
1:X:492:GLU:C	1:X:492:GLU:CB	2.54	0.80
1:L:402:ALA:HB3	1:L:403:ILE:H	1.04	0.80
3:N:374:SER:CB	3:N:374:SER:N	2.44	0.80
2:G:375:ALA:HB1	5:E:1090:SER:CB	2.11	0.80
1:L:492:GLU:C	1:L:492:GLU:CB	2.55	0.80
3:N:408:SER:HA	3:N:410:LEU:N	1.97	0.80
1:R:487:ASP:C	1:R:487:ASP:N	2.39	0.80
3:T:408:SER:HA	3:T:410:LEU:N	1.97	0.80
1:F:471:GLN:C	1:F:472:GLU:CA	2.55	0.79
3:Z:411:GLU:O	3:Z:412:GLU:N	2.11	0.79
1:L:456:ASP:C	1:L:456:ASP:N	2.39	0.79
4:P:166:LEU:O	4:V:793:GLU:N	2.15	0.79
4:V:1429:LEU:C	5:W:1335:VAL:C	2.50	0.79
4:V:1493:ARG:CA	5:W:1366:SER:CB	2.60	0.79
1:R:388:GLN:N	4:P:880:GLU:H	1.79	0.79
1:R:456:ASP:C	1:R:456:ASP:N	2.39	0.79
1:X:457:ALA:CB	1:X:457:ALA:H	1.95	0.79
1:R:492:GLU:C	1:R:492:GLU:CB	2.55	0.79
1:X:456:ASP:O	1:X:457:ALA:C	2.18	0.79
1:X:158:ASN:HA	1:X:322:LEU:HA	1.62	0.79
1:X:456:ASP:C	1:X:456:ASP:N	2.39	0.79
4:P:43:LEU:HA	4:V:778:PRO:O	1.83	0.79
3:H:497:ARG:N	3:H:497:ARG:C	2.40	0.79
3:T:497:ARG:N	3:T:497:ARG:C	2.40	0.79
4:V:1431:ILE:H	5:W:1335:VAL:CA	1.79	0.79
2:M:366:GLU:CB	2:M:366:GLU:N	2.45	0.78
4:P:1667:ALA:HB3	6:O:445:LEU:C	2.08	0.78
5:K:563:ARG:CB	6:C:733:ALA:CB	2.60	0.78
1:L:488:ILE:N	1:L:488:ILE:HA	1.94	0.78
4:P:169:MET:HA	4:V:795:ILE:N	1.89	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:342:PRO:C	2:G:343:ALA:C	2.49	0.78
4:P:1670:LEU:O	6:O:453:PHE:N	2.17	0.78
1:F:456:ASP:C	1:F:456:ASP:N	2.39	0.78
3:Z:381:LYS:N	3:Z:381:LYS:C	2.42	0.78
4:P:1672:GLU:CA	6:O:453:PHE:CB	2.57	0.78
4:V:1494:MET:C	5:W:1361:LEU:CB	2.57	0.78
4:D:1661:ARG:H	6:C:447:ASP:HA	1.47	0.78
1:F:457:ALA:CB	1:F:457:ALA:H	1.95	0.78
3:H:381:LYS:N	3:H:381:LYS:C	2.42	0.78
1:R:299:ASN:C	1:R:299:ASN:N	2.42	0.78
2:S:366:GLU:CB	2:S:366:GLU:N	2.45	0.78
3:T:374:SER:CB	3:T:374:SER:N	2.43	0.78
2:Y:342:PRO:C	2:Y:343:ALA:C	2.49	0.78
2:Y:366:GLU:CB	2:Y:366:GLU:N	2.45	0.78
4:P:1673:LEU:N	6:O:451:SER:O	2.15	0.78
4:V:1551:TYR:O	5:W:1359:GLY:CA	2.23	0.78
3:N:497:ARG:N	3:N:497:ARG:C	2.40	0.78
5:K:563:ARG:CB	6:C:733:ALA:HB1	2.14	0.78
1:F:402:ALA:HB3	1:F:403:ILE:H	1.04	0.78
2:S:342:PRO:C	2:S:343:ALA:C	2.49	0.78
3:T:381:LYS:N	3:T:381:LYS:C	2.42	0.77
4:V:1407:ILE:N	5:W:1371:VAL:H	1.82	0.77
1:F:299:ASN:C	1:F:299:ASN:N	2.42	0.77
3:N:381:LYS:N	3:N:381:LYS:C	2.42	0.77
1:R:374:GLN:CB	4:P:896:VAL:H	1.92	0.77
4:V:714:LEU:O	4:V:718:SER:HA	1.84	0.77
4:P:714:LEU:O	4:P:718:SER:HA	1.85	0.77
1:R:457:ALA:CB	1:R:457:ALA:H	1.95	0.77
1:R:488:ILE:N	1:R:488:ILE:HA	1.95	0.77
4:P:1667:ALA:HB1	6:O:443:GLN:O	1.85	0.77
5:E:276:ASP:CB	5:E:295:SER:CB	2.63	0.77
1:L:471:GLN:C	1:L:472:GLU:CA	2.55	0.77
4:P:1621:LEU:CB	6:O:451:SER:CB	2.62	0.77
1:R:388:GLN:N	4:P:880:GLU:CB	2.44	0.77
5:K:1016:ALA:CA	6:I:814:MET:CB	2.62	0.77
1:L:457:ALA:CB	1:L:457:ALA:H	1.95	0.77
4:V:1497:LEU:C	5:W:1360:TYR:CB	2.57	0.77
4:P:783:PHE:CB	5:Q:1093:ASN:HA	2.15	0.77
1:L:299:ASN:C	1:L:299:ASN:N	2.42	0.76
4:P:1675:LEU:CB	6:O:461:LEU:CA	2.63	0.76
5:Q:276:ASP:CB	5:Q:295:SER:CB	2.63	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:1424:SER:O	5:W:1334:TYR:CB	2.34	0.76
5:W:276:ASP:CB	5:W:295:SER:CB	2.63	0.76
1:X:299:ASN:C	1:X:299:ASN:N	2.42	0.76
1:R:381:ASP:H	4:P:887:ASN:CB	1.99	0.76
1:R:388:GLN:N	4:P:880:GLU:N	2.33	0.76
1:R:450:GLU:N	1:R:450:GLU:C	2.44	0.76
1:F:450:GLU:N	1:F:450:GLU:C	2.44	0.76
4:P:1671:GLN:N	6:O:448:TYR:CB	2.48	0.76
4:V:1497:LEU:HA	5:W:1365:GLN:O	1.84	0.76
4:V:1426:LEU:O	5:W:1341:VAL:CB	2.34	0.76
4:J:714:LEU:O	4:J:718:SER:HA	1.84	0.76
5:K:276:ASP:CB	5:K:295:SER:CB	2.63	0.76
2:M:342:PRO:C	2:M:343:ALA:C	2.49	0.76
5:K:1016:ALA:N	6:I:814:MET:CB	2.48	0.76
1:X:450:GLU:N	1:X:450:GLU:C	2.44	0.76
1:R:486:GLU:C	1:R:487:ASP:C	2.54	0.76
4:D:714:LEU:O	4:D:718:SER:HA	1.84	0.76
4:P:1675:LEU:H	6:O:453:PHE:C	1.95	0.75
5:E:326:ALA:HB1	5:E:387:LEU:CB	2.17	0.75
3:H:408:SER:HA	3:H:410:LEU:N	1.98	0.75
1:L:450:GLU:N	1:L:450:GLU:C	2.44	0.75
4:P:1667:ALA:CB	6:O:446:GLU:CB	2.64	0.75
5:K:326:ALA:HB1	5:K:387:LEU:CB	2.17	0.75
1:L:456:ASP:O	1:L:457:ALA:C	2.18	0.75
1:X:488:ILE:N	1:X:488:ILE:HA	1.94	0.75
3:Z:408:SER:HA	3:Z:410:LEU:N	1.97	0.75
1:F:486:GLU:C	1:F:487:ASP:C	2.54	0.75
4:V:64:HIS:CB	5:W:1177:GLN:CB	2.65	0.75
4:P:1676:LEU:H	6:O:453:PHE:C	1.95	0.75
1:X:455:ILE:C	1:X:457:ALA:N	2.45	0.75
1:X:486:GLU:C	1:X:487:ASP:C	2.54	0.75
1:L:455:ILE:C	1:L:457:ALA:N	2.45	0.75
1:L:486:GLU:C	1:L:487:ASP:C	2.54	0.75
1:R:456:ASP:CA	1:R:457:ALA:N	2.33	0.74
4:V:1403:LEU:H	5:W:1373:VAL:N	1.84	0.74
5:K:1056:ALA:HB3	6:C:427:GLY:O	1.86	0.74
1:R:380:MET:N	4:P:887:ASN:C	2.43	0.74
4:P:1442:GLU:N	6:O:181:ILE:CA	2.50	0.74
5:W:326:ALA:HB1	5:W:387:LEU:CB	2.17	0.74
5:Q:326:ALA:HB1	5:Q:387:LEU:CB	2.17	0.74
1:R:456:ASP:O	1:R:457:ALA:C	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:455:ILE:C	1:F:457:ALA:N	2.45	0.74
1:R:399:SER:C	1:R:401:TYR:N	2.37	0.74
1:R:399:SER:O	1:R:400:GLY:CA	2.36	0.74
1:X:399:SER:O	1:X:400:GLY:CA	2.36	0.74
1:R:455:ILE:C	1:R:457:ALA:N	2.45	0.74
4:P:166:LEU:C	4:V:792:GLY:C	2.56	0.74
1:R:374:GLN:CB	4:P:897:VAL:N	2.49	0.73
1:R:374:GLN:N	4:P:896:VAL:CB	2.51	0.73
1:F:399:SER:O	1:F:400:GLY:CA	2.36	0.73
1:F:378:LYS:CB	4:D:892:LYS:C	2.62	0.73
1:R:373:ALA:C	4:P:896:VAL:CB	2.61	0.73
4:V:1497:LEU:O	5:W:1360:TYR:CB	2.36	0.73
1:R:451:GLU:N	5:Q:1375:ALA:CB	2.52	0.73
4:D:1661:ARG:N	6:C:447:ASP:HA	2.03	0.73
4:V:69:LYS:C	5:W:1184:ASP:CB	2.62	0.73
1:F:400:GLY:C	1:F:401:TYR:C	2.56	0.73
1:X:400:GLY:C	1:X:401:TYR:C	2.56	0.73
1:L:400:GLY:C	1:L:401:TYR:C	2.56	0.73
1:R:382:LEU:HA	4:P:881:GLN:O	1.87	0.73
4:D:1660:LEU:CB	6:C:451:SER:N	2.52	0.73
4:D:1663:GLN:HA	4:D:1667:ALA:CB	2.19	0.73
4:V:1497:LEU:C	5:W:1360:TYR:C	2.57	0.73
1:F:399:SER:C	1:F:401:TYR:N	2.37	0.72
1:F:488:ILE:N	1:F:488:ILE:HA	1.95	0.72
2:G:341:ALA:H	2:G:342:PRO:N	1.87	0.72
4:P:1689:LEU:O	6:O:300:LYS:CB	2.36	0.72
4:V:1427:TYR:CA	5:W:1331:LEU:O	2.37	0.72
1:R:140:LYS:HA	1:R:149:GLY:H	1.54	0.72
1:R:400:GLY:C	1:R:401:TYR:C	2.56	0.72
5:E:22:ALA:HB1	5:E:780:ALA:HA	1.71	0.72
3:Z:408:SER:CA	3:Z:410:LEU:H	2.01	0.72
4:P:1663:GLN:HA	4:P:1667:ALA:CB	2.18	0.72
4:V:1407:ILE:N	5:W:1370:SER:CB	2.51	0.72
1:R:448:ARG:O	1:R:449:SER:C	2.32	0.72
4:P:1442:GLU:CB	6:O:181:ILE:O	2.37	0.72
1:F:140:LYS:HA	1:F:149:GLY:H	1.54	0.72
1:F:375:TYR:HA	4:D:893:ALA:CB	2.20	0.72
1:L:455:ILE:C	1:L:456:ASP:C	2.56	0.72
1:X:402:ALA:HB2	1:X:403:ILE:H	1.52	0.72
1:X:446:ALA:O	1:X:449:SER:CB	2.38	0.72
1:L:399:SER:O	1:L:400:GLY:CA	2.36	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:K:1056:ALA:HB1	6:C:430:SER:HA	1.65	0.72
1:F:446:ALA:O	1:F:449:SER:CB	2.38	0.72
1:X:455:ILE:C	1:X:456:ASP:C	2.56	0.72
2:G:375:ALA:HB1	5:E:1090:SER:CA	2.20	0.71
4:P:782:ASP:O	5:Q:1093:ASN:CB	2.38	0.71
4:P:1664:ASP:O	6:O:445:LEU:O	2.05	0.71
1:X:455:ILE:CB	1:X:456:ASP:N	2.54	0.71
1:R:446:ALA:O	1:R:449:SER:CB	2.38	0.71
4:V:1663:GLN:HA	4:V:1667:ALA:CB	2.18	0.71
4:V:1494:MET:O	5:W:1361:LEU:CB	2.38	0.71
1:L:446:ALA:O	1:L:449:SER:CB	2.38	0.71
1:L:455:ILE:CB	1:L:456:ASP:N	2.54	0.71
1:R:455:ILE:CB	1:R:456:ASP:N	2.53	0.71
4:V:64:HIS:H	5:W:1177:GLN:C	1.97	0.71
1:X:140:LYS:HA	1:X:149:GLY:H	1.54	0.71
1:L:140:LYS:HA	1:L:149:GLY:H	1.54	0.71
1:L:402:ALA:HB2	1:L:403:ILE:H	1.52	0.71
4:P:1441:LEU:O	6:O:180:ASN:HA	1.90	0.71
4:J:644:ALA:HA	4:J:706:ALA:HB2	1.73	0.71
4:V:1481:VAL:CB	5:W:1367:MET:CB	2.68	0.71
4:J:62:GLN:CB	5:K:1146:GLU:CB	2.68	0.71
1:F:448:ARG:O	1:F:449:SER:C	2.32	0.71
4:P:644:ALA:HA	4:P:706:ALA:HB2	1.73	0.71
1:F:454:TYR:HA	1:F:455:ILE:CA	2.20	0.71
4:V:644:ALA:HA	4:V:706:ALA:HB2	1.73	0.71
4:J:1638:HIS:H	6:I:442:LYS:CB	2.04	0.71
5:K:22:ALA:HB1	5:K:780:ALA:HA	1.71	0.71
5:K:565:VAL:CB	6:C:732:ALA:O	2.38	0.71
1:F:402:ALA:HB2	1:F:403:ILE:H	1.52	0.71
1:F:375:TYR:HA	4:D:893:ALA:HB2	1.72	0.71
4:P:169:MET:CB	4:V:792:GLY:O	2.32	0.71
4:V:1422:TYR:CA	5:W:1368:SER:CB	2.69	0.71
4:V:1428:TYR:CB	5:W:1337:ASN:C	2.64	0.71
1:F:299:ASN:C	1:F:299:ASN:CB	2.64	0.70
4:P:1670:LEU:CB	6:O:448:TYR:CB	2.69	0.70
1:F:455:ILE:CB	1:F:456:ASP:N	2.53	0.70
4:P:1438:PRO:CB	6:O:181:ILE:CB	2.69	0.70
4:V:1407:ILE:H	5:W:1371:VAL:H	1.39	0.70
2:S:341:ALA:H	2:S:342:PRO:N	1.87	0.70
4:P:1673:LEU:CB	6:O:451:SER:C	2.64	0.70
1:F:382:LEU:CA	4:D:884:GLN:HA	2.16	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:299:ASN:C	1:L:299:ASN:CB	2.64	0.70
1:R:299:ASN:C	1:R:299:ASN:CB	2.64	0.70
1:R:380:MET:H	4:P:887:ASN:CA	2.05	0.70
4:D:644:ALA:HA	4:D:706:ALA:HB2	1.73	0.70
1:L:454:TYR:HA	1:L:455:ILE:CA	2.20	0.70
4:P:1673:LEU:N	6:O:452:HIS:N	2.33	0.70
5:Q:22:ALA:HB1	5:Q:780:ALA:HA	1.71	0.70
3:Z:381:LYS:N	3:Z:381:LYS:CB	2.55	0.70
1:R:455:ILE:C	1:R:456:ASP:C	2.56	0.70
1:L:399:SER:C	1:L:401:TYR:N	2.37	0.70
4:D:1661:ARG:CA	6:C:447:ASP:HA	2.22	0.69
1:X:454:TYR:HA	1:X:455:ILE:CA	2.20	0.69
1:L:451:GLU:CB	1:L:451:GLU:N	2.55	0.69
3:N:381:LYS:N	3:N:381:LYS:CB	2.55	0.69
4:V:1428:TYR:O	5:W:1337:ASN:N	2.25	0.69
1:X:299:ASN:C	1:X:299:ASN:CB	2.64	0.69
1:R:472:GLU:N	1:R:472:GLU:C	2.51	0.69
1:L:158:ASN:HA	1:L:321:LYS:O	1.92	0.69
1:R:158:ASN:HA	1:R:321:LYS:O	1.93	0.69
4:V:1407:ILE:CB	5:W:1369:SER:C	2.65	0.69
4:V:1428:TYR:HA	5:W:1337:ASN:N	2.07	0.69
1:X:158:ASN:HA	1:X:321:LYS:O	1.93	0.69
1:L:448:ARG:O	1:L:449:SER:C	2.32	0.69
3:T:381:LYS:N	3:T:381:LYS:CB	2.55	0.69
4:J:1663:GLN:HA	4:J:1667:ALA:CB	2.18	0.69
5:W:22:ALA:HB1	5:W:780:ALA:HA	1.72	0.69
1:F:388:GLN:CB	4:D:880:GLU:CA	2.70	0.69
1:F:158:ASN:HA	1:F:321:LYS:O	1.93	0.69
1:F:388:GLN:CA	4:D:880:GLU:CB	2.71	0.69
3:H:408:SER:CA	3:H:410:LEU:H	2.01	0.69
1:X:140:LYS:HA	1:X:149:GLY:N	2.08	0.69
1:X:451:GLU:CB	1:X:451:GLU:N	2.56	0.69
1:L:472:GLU:N	1:L:472:GLU:C	2.51	0.69
4:P:171:THR:N	4:V:792:GLY:N	2.37	0.69
4:P:1664:ASP:H	6:O:446:GLU:CB	0.15	0.69
4:V:1551:TYR:O	5:W:1359:GLY:C	2.35	0.69
1:R:382:LEU:O	4:P:880:GLU:O	2.11	0.69
1:R:402:ALA:HB2	1:R:403:ILE:H	1.52	0.69
1:F:455:ILE:C	1:F:456:ASP:C	2.56	0.69
1:X:472:GLU:N	1:X:472:GLU:C	2.51	0.69
1:F:472:GLU:N	1:F:472:GLU:C	2.51	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:448:ARG:O	1:X:449:SER:C	2.32	0.68
5:E:441:PHE:HA	5:E:444:PRO:O	1.93	0.68
5:K:1057:SER:N	6:C:427:GLY:O	2.27	0.68
1:F:378:LYS:C	4:D:887:ASN:O	2.36	0.68
4:P:1441:LEU:CB	6:O:178:LEU:HA	2.23	0.68
5:W:441:PHE:HA	5:W:444:PRO:O	1.93	0.68
1:X:399:SER:C	1:X:401:TYR:N	2.37	0.68
1:R:449:SER:O	1:R:451:GLU:C	2.37	0.68
4:P:166:LEU:C	4:V:792:GLY:O	2.36	0.68
4:V:1497:LEU:CB	5:W:1365:GLN:O	2.40	0.68
3:H:381:LYS:N	3:H:381:LYS:CB	2.55	0.68
1:R:367:THR:C	1:R:367:THR:N	2.52	0.68
1:R:451:GLU:CB	1:R:451:GLU:N	2.55	0.68
5:K:441:PHE:HA	5:K:444:PRO:O	1.93	0.68
1:R:385:ARG:CB	4:P:879:LEU:O	2.41	0.68
5:E:942:PRO:HA	5:E:943:GLN:CB	2.17	0.68
1:L:140:LYS:HA	1:L:149:GLY:N	2.08	0.68
4:P:1443:ALA:CA	6:O:186:ALA:HB3	2.24	0.68
1:F:140:LYS:HA	1:F:149:GLY:N	2.08	0.68
1:L:449:SER:O	1:L:451:GLU:C	2.37	0.68
5:Q:441:PHE:HA	5:Q:444:PRO:O	1.93	0.68
1:X:367:THR:C	1:X:367:THR:N	2.52	0.68
4:V:1407:ILE:CB	5:W:1370:SER:HA	0.27	0.68
1:F:367:THR:C	1:F:367:THR:N	2.52	0.67
1:F:449:SER:O	1:F:451:GLU:C	2.37	0.67
3:H:411:GLU:CB	4:D:812:GLU:CB	2.72	0.67
1:L:328:VAL:CA	1:L:328:VAL:O	2.40	0.67
4:P:41:LYS:N	4:V:777:GLU:N	2.42	0.67
4:V:1428:TYR:CA	5:W:1337:ASN:N	2.58	0.67
5:W:942:PRO:HA	5:W:943:GLN:CB	2.17	0.67
4:V:1403:LEU:O	5:W:1370:SER:C	2.36	0.67
1:R:328:VAL:CA	1:R:328:VAL:O	2.40	0.67
1:R:373:ALA:O	4:P:896:VAL:CB	2.42	0.67
2:Y:378:SER:C	2:Y:378:SER:CB	2.67	0.67
1:X:422:ASN:CB	1:X:423:ALA:HB2	2.24	0.67
1:L:367:THR:C	1:L:367:THR:N	2.52	0.67
3:T:404:GLU:O	4:P:812:GLU:CB	2.42	0.67
4:P:43:LEU:HA	4:V:778:PRO:C	2.20	0.67
1:X:449:SER:O	1:X:451:GLU:C	2.37	0.67
1:L:422:ASN:CB	1:L:423:ALA:HB2	2.24	0.67
1:R:422:ASN:CB	1:R:423:ALA:HB2	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:K:1056:ALA:CB	6:C:430:SER:CA	2.65	0.67
1:X:328:VAL:CA	1:X:328:VAL:O	2.40	0.67
1:L:456:ASP:CA	1:L:457:ALA:N	2.33	0.67
1:R:140:LYS:HA	1:R:149:GLY:N	2.08	0.67
2:M:378:SER:C	2:M:378:SER:CB	2.67	0.67
4:V:1428:TYR:CB	5:W:1337:ASN:CB	2.73	0.67
5:Q:50:SER:C	5:Q:58:SER:HA	2.20	0.67
5:K:50:SER:C	5:K:58:SER:HA	2.20	0.67
1:F:422:ASN:CB	1:F:423:ALA:HB2	2.24	0.66
4:V:1404:LEU:C	5:W:1370:SER:CB	2.69	0.66
5:W:50:SER:C	5:W:58:SER:HA	2.20	0.66
1:R:374:GLN:HA	4:P:896:VAL:H	1.46	0.66
1:F:451:GLU:CB	1:F:451:GLU:N	2.56	0.66
1:R:380:MET:N	4:P:887:ASN:CA	2.58	0.66
1:R:454:TYR:HA	1:R:455:ILE:CA	2.21	0.66
2:S:378:SER:C	2:S:378:SER:CB	2.67	0.66
4:D:1661:ARG:CB	6:C:445:LEU:C	2.67	0.66
5:K:563:ARG:CB	6:C:733:ALA:HB2	2.24	0.66
2:G:378:SER:C	2:G:378:SER:CB	2.67	0.66
4:V:869:GLU:HA	4:V:872:LEU:C	2.21	0.66
4:D:1443:ALA:HB2	6:C:542:THR:CB	2.26	0.66
3:T:408:SER:CA	3:T:410:LEU:H	2.01	0.66
4:V:644:ALA:HA	4:V:706:ALA:CB	2.26	0.66
4:P:1485:ALA:O	4:P:1486:CYS:C	2.34	0.66
4:P:1679:ILE:N	6:O:455:VAL:CB	2.58	0.66
4:D:644:ALA:HA	4:D:706:ALA:CB	2.26	0.66
4:J:644:ALA:HA	4:J:706:ALA:CB	2.26	0.66
4:V:71:SER:O	5:W:1184:ASP:CB	2.43	0.66
2:M:341:ALA:H	2:M:342:PRO:N	1.87	0.66
1:X:487:ASP:C	1:X:487:ASP:CB	2.69	0.65
2:Y:342:PRO:C	2:Y:344:ASP:N	2.55	0.65
1:R:487:ASP:C	1:R:487:ASP:CB	2.69	0.65
5:E:50:SER:C	5:E:58:SER:HA	2.20	0.65
1:F:328:VAL:C	1:F:328:VAL:CB	2.67	0.65
2:G:375:ALA:CB	5:E:1090:SER:CB	2.75	0.65
4:P:869:GLU:HA	4:P:872:LEU:C	2.21	0.65
2:M:342:PRO:C	2:M:344:ASP:N	2.54	0.65
2:S:342:PRO:C	2:S:344:ASP:N	2.55	0.65
4:P:644:ALA:HA	4:P:706:ALA:CB	2.26	0.65
4:D:869:GLU:HA	4:D:872:LEU:C	2.21	0.65
4:D:1485:ALA:O	4:D:1486:CYS:C	2.34	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:487:ASP:C	1:F:487:ASP:CB	2.69	0.65
4:V:1485:ALA:O	4:V:1486:CYS:C	2.34	0.65
4:J:869:GLU:HA	4:J:872:LEU:C	2.21	0.65
6:U:215:LEU:C	6:U:217:ASP:H	2.04	0.65
4:V:1551:TYR:CB	5:W:1358:CYS:C	2.68	0.65
6:O:215:LEU:C	6:O:217:ASP:H	2.04	0.65
3:Z:408:SER:C	3:Z:409:PRO:C	2.64	0.65
3:N:408:SER:CA	3:N:410:LEU:H	2.01	0.65
4:P:1664:ASP:N	6:O:446:GLU:CB	0.75	0.65
4:D:644:ALA:CA	4:D:706:ALA:HB2	2.27	0.65
6:C:215:LEU:C	6:C:217:ASP:H	2.04	0.65
2:M:325:ALA:C	2:M:326:LEU:CA	2.70	0.65
1:L:487:ASP:C	1:L:487:ASP:CB	2.69	0.65
4:P:1668:GLY:H	6:O:447:ASP:HA	1.62	0.65
4:J:1489:HIS:CB	4:J:1492:GLY:H	2.10	0.65
2:Y:325:ALA:C	2:Y:326:LEU:CA	2.70	0.65
1:L:453:TYR:O	1:L:454:TYR:C	2.40	0.65
5:W:564:GLU:CB	6:O:606:LYS:O	2.45	0.65
4:J:1485:ALA:O	4:J:1486:CYS:C	2.34	0.64
4:V:1489:HIS:CB	4:V:1492:GLY:H	2.11	0.64
1:F:453:TYR:O	1:F:454:TYR:C	2.40	0.64
2:G:342:PRO:C	2:G:344:ASP:N	2.54	0.64
4:J:644:ALA:CA	4:J:706:ALA:HB2	2.27	0.64
1:R:381:ASP:CB	4:P:886:ILE:H	2.09	0.64
4:V:1427:TYR:HA	5:W:1331:LEU:O	1.98	0.64
2:G:327:ARG:CB	2:G:327:ARG:C	2.71	0.64
1:X:453:TYR:O	1:X:454:TYR:C	2.40	0.64
1:R:453:TYR:O	1:R:454:TYR:C	2.39	0.64
2:S:327:ARG:CB	2:S:327:ARG:C	2.71	0.64
4:P:1664:ASP:HA	6:O:446:GLU:CB	2.18	0.64
2:S:276:SER:C	2:S:276:SER:CB	2.68	0.64
6:I:215:LEU:C	6:I:217:ASP:H	2.04	0.64
1:X:491:VAL:C	1:X:493:HIS:N	2.56	0.64
2:Y:327:ARG:CB	2:Y:327:ARG:C	2.71	0.64
4:V:644:ALA:CA	4:V:706:ALA:HB2	2.27	0.64
5:E:441:PHE:C	5:E:443:LYS:H	2.06	0.64
3:H:408:SER:C	3:H:409:PRO:C	2.64	0.64
2:Y:341:ALA:H	2:Y:342:PRO:N	1.87	0.64
4:P:1489:HIS:CB	4:P:1492:GLY:H	2.10	0.64
4:P:1692:LEU:O	6:O:297:LEU:O	2.15	0.64
1:F:491:VAL:C	1:F:493:HIS:N	2.56	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:454:TYR:CB	1:R:454:TYR:H	2.10	0.63
4:P:42:ILE:C	4:V:778:PRO:C	2.67	0.63
5:Q:441:PHE:C	5:Q:443:LYS:H	2.06	0.63
1:L:491:VAL:C	1:L:493:HIS:N	2.56	0.63
2:M:327:ARG:CB	2:M:327:ARG:C	2.71	0.63
4:P:644:ALA:CA	4:P:706:ALA:HB2	2.27	0.63
1:F:454:TYR:CB	1:F:454:TYR:H	2.10	0.63
4:D:1664:ASP:N	4:D:1667:ALA:HB2	2.13	0.63
1:F:298:GLN:C	1:F:299:ASN:C	2.67	0.63
3:N:408:SER:C	3:N:409:PRO:C	2.64	0.63
4:V:1485:ALA:CB	5:W:1365:GLN:CB	2.76	0.63
1:X:298:GLN:C	1:X:299:ASN:C	2.67	0.63
4:P:1672:GLU:HA	6:O:453:PHE:CB	2.29	0.63
5:W:441:PHE:C	5:W:443:LYS:H	2.06	0.63
2:G:276:SER:C	2:G:276:SER:CB	2.68	0.63
4:P:1443:ALA:HA	6:O:186:ALA:HB3	1.81	0.63
4:V:1664:ASP:N	4:V:1667:ALA:HB2	2.13	0.63
4:D:1489:HIS:CB	4:D:1492:GLY:H	2.10	0.63
2:M:276:SER:C	2:M:276:SER:CB	2.68	0.63
4:V:1431:ILE:CA	5:W:1336:GLU:H	1.91	0.63
1:X:493:HIS:CB	1:X:493:HIS:C	2.60	0.63
4:P:1669:SER:HA	6:O:451:SER:H	1.63	0.62
4:V:62:GLN:N	5:W:1176:SER:O	2.30	0.62
1:X:454:TYR:CB	1:X:454:TYR:H	2.11	0.62
4:P:1679:ILE:CB	6:O:455:VAL:CB	2.77	0.62
1:R:491:VAL:C	1:R:493:HIS:N	2.56	0.62
2:S:325:ALA:C	2:S:326:LEU:CA	2.70	0.62
5:Q:205:LEU:C	5:Q:207:SER:HA	2.25	0.62
2:M:342:PRO:O	2:M:343:ALA:C	2.43	0.62
4:P:1671:GLN:N	6:O:448:TYR:C	2.57	0.62
4:V:1403:LEU:N	5:W:1373:VAL:N	2.48	0.62
1:F:389:VAL:N	4:D:880:GLU:CB	2.62	0.62
1:R:298:GLN:C	1:R:299:ASN:C	2.67	0.62
4:J:1664:ASP:N	4:J:1667:ALA:HB2	2.13	0.62
5:K:441:PHE:C	5:K:443:LYS:H	2.06	0.62
5:K:942:PRO:HA	5:K:943:GLN:CB	2.17	0.62
1:L:298:GLN:C	1:L:299:ASN:C	2.67	0.62
4:V:64:HIS:H	5:W:1177:GLN:CA	2.11	0.62
1:R:374:GLN:CA	4:P:896:VAL:CA	2.59	0.62
4:V:1426:LEU:HA	5:W:1341:VAL:CB	2.30	0.62
4:D:1661:ARG:O	6:C:447:ASP:HA	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C:725:GLU:C	6:C:727:VAL:H	2.08	0.62
4:V:715:VAL:HA	4:V:718:SER:CB	2.30	0.61
4:J:715:VAL:HA	4:J:718:SER:CB	2.30	0.61
4:V:1551:TYR:O	5:W:1359:GLY:HA2	1.99	0.61
4:D:1661:ARG:O	6:C:447:ASP:CA	2.47	0.61
5:W:205:LEU:C	5:W:207:SER:HA	2.25	0.61
4:P:1443:ALA:HB2	6:O:186:ALA:HB3	1.59	0.61
4:P:1673:LEU:CA	6:O:451:SER:C	2.68	0.61
1:R:493:HIS:CB	1:R:493:HIS:C	2.60	0.61
5:E:205:LEU:C	5:E:207:SER:HA	2.25	0.61
1:F:493:HIS:CB	1:F:493:HIS:C	2.60	0.61
4:P:169:MET:CA	4:V:795:ILE:H	2.09	0.61
4:P:715:VAL:HA	4:P:718:SER:CB	2.30	0.61
4:P:1676:LEU:CB	6:O:455:VAL:O	2.37	0.61
4:V:1407:ILE:H	5:W:1370:SER:CB	2.12	0.61
6:I:725:GLU:C	6:I:727:VAL:H	2.08	0.61
2:Y:342:PRO:O	2:Y:343:ALA:C	2.43	0.61
2:M:326:LEU:CB	2:M:327:ARG:HA	2.31	0.61
2:M:379:HIS:N	2:M:379:HIS:HA	2.05	0.61
5:K:205:LEU:C	5:K:207:SER:HA	2.25	0.61
2:S:342:PRO:O	2:S:343:ALA:C	2.43	0.61
2:G:325:ALA:C	2:G:326:LEU:CA	2.70	0.61
2:G:326:LEU:CB	2:G:327:ARG:HA	2.31	0.61
2:Y:276:SER:C	2:Y:276:SER:CB	2.68	0.60
1:L:328:VAL:C	1:L:328:VAL:CB	2.67	0.60
4:D:715:VAL:HA	4:D:718:SER:CB	2.30	0.60
6:U:725:GLU:C	6:U:727:VAL:H	2.08	0.60
1:F:328:VAL:CA	1:F:328:VAL:O	2.40	0.60
2:S:326:LEU:CB	2:S:327:ARG:HA	2.31	0.60
4:P:1671:GLN:C	6:O:449:GLY:O	2.42	0.60
4:J:1393:ASP:CB	5:K:1340:GLN:O	2.49	0.60
2:G:342:PRO:O	2:G:343:ALA:C	2.43	0.60
1:X:328:VAL:C	1:X:328:VAL:CB	2.67	0.60
1:R:399:SER:O	1:R:400:GLY:HA3	2.00	0.60
4:P:1442:GLU:N	6:O:181:ILE:N	2.48	0.60
4:P:1664:ASP:N	4:P:1667:ALA:HB2	2.13	0.60
5:Q:312:MET:CB	5:Q:313:SER:HA	2.32	0.60
2:Y:326:LEU:CB	2:Y:327:ARG:HA	2.31	0.60
1:R:483:ASP:CB	1:R:483:ASP:N	2.60	0.60
5:E:312:MET:CB	5:E:313:SER:HA	2.32	0.60
4:V:1424:SER:H	5:W:1296:LEU:C	2.09	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:K:312:MET:CB	5:K:313:SER:HA	2.31	0.60
6:O:725:GLU:C	6:O:727:VAL:H	2.08	0.60
3:T:408:SER:C	3:T:409:PRO:C	2.64	0.60
5:W:376:ARG:C	5:W:380:ALA:HA	2.27	0.60
5:E:376:ARG:C	5:E:380:ALA:HA	2.27	0.60
5:Q:942:PRO:HA	5:Q:943:GLN:CB	2.17	0.60
4:V:1426:LEU:O	5:W:1335:VAL:HA	2.02	0.60
1:X:399:SER:O	1:X:400:GLY:HA3	2.00	0.60
4:P:1442:GLU:N	6:O:182:GLU:CA	2.65	0.60
5:W:565:VAL:N	6:O:632:ALA:HB1	2.06	0.60
1:R:381:ASP:H	4:P:887:ASN:CA	2.14	0.60
4:V:1428:TYR:CB	5:W:1337:ASN:CA	2.80	0.60
5:W:312:MET:CB	5:W:313:SER:HA	2.32	0.60
4:P:1673:LEU:O	6:O:454:THR:O	2.19	0.59
4:D:1542:PRO:O	4:D:1545:PRO:N	2.35	0.59
1:L:450:GLU:N	1:L:451:GLU:N	2.50	0.59
4:P:1444:ALA:C	6:O:183:MET:CB	2.75	0.59
4:V:1542:PRO:O	4:V:1545:PRO:N	2.35	0.59
4:V:1408:LEU:N	5:W:1370:SER:CB	2.66	0.59
5:Q:376:ARG:C	5:Q:380:ALA:HA	2.27	0.59
4:P:1669:SER:C	6:O:449:GLY:C	2.67	0.59
2:Y:339:TYR:CB	2:Y:341:ALA:H	2.16	0.59
4:P:1542:PRO:O	4:P:1545:PRO:N	2.35	0.59
4:V:1406:PHE:CB	5:W:1371:VAL:CB	2.81	0.59
1:F:450:GLU:N	1:F:451:GLU:N	2.50	0.59
4:J:1542:PRO:O	4:J:1545:PRO:N	2.35	0.59
4:P:1443:ALA:HB1	6:O:186:ALA:CB	2.30	0.59
2:G:339:TYR:O	2:G:340:ALA:CB	2.51	0.59
4:V:59:LYS:C	5:W:1176:SER:CB	2.75	0.59
4:V:1424:SER:N	5:W:1296:LEU:C	2.60	0.59
1:F:483:ASP:CB	1:F:483:ASP:N	2.60	0.59
2:M:339:TYR:CB	2:M:341:ALA:H	2.16	0.58
2:M:339:TYR:O	2:M:340:ALA:CB	2.51	0.58
1:R:450:GLU:N	1:R:451:GLU:N	2.50	0.58
5:K:376:ARG:C	5:K:380:ALA:HA	2.27	0.58
2:Y:339:TYR:O	2:Y:340:ALA:CB	2.51	0.58
4:P:43:LEU:N	4:V:778:PRO:C	2.62	0.58
4:V:1408:LEU:H	5:W:1370:SER:CB	2.16	0.58
2:G:339:TYR:CB	2:G:341:ALA:H	2.16	0.58
4:P:1668:GLY:N	6:O:445:LEU:O	2.37	0.58
4:V:61:VAL:CA	5:W:1174:ALA:O	2.43	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1489:HIS:O	4:D:1490:GLU:C	2.44	0.58
2:S:339:TYR:O	2:S:340:ALA:CB	2.51	0.58
4:D:1660:LEU:CB	6:C:450:GLU:C	2.75	0.58
1:L:454:TYR:CB	1:L:454:TYR:H	2.10	0.58
1:X:450:GLU:N	1:X:451:GLU:N	2.50	0.58
4:P:1448:MET:C	4:P:1450:GLU:HA	2.29	0.58
2:S:339:TYR:CB	2:S:341:ALA:H	2.16	0.57
4:P:1444:ALA:HB3	6:O:179:ASP:O	2.03	0.57
4:J:1448:MET:C	4:J:1450:GLU:HA	2.29	0.57
3:H:380:GLU:C	3:H:381:LYS:CA	2.72	0.57
1:X:483:ASP:CB	1:X:483:ASP:N	2.60	0.57
4:V:1448:MET:C	4:V:1450:GLU:HA	2.29	0.57
4:D:1448:MET:C	4:D:1450:GLU:HA	2.29	0.57
4:D:1664:ASP:O	4:D:1667:ALA:HB3	2.04	0.57
2:G:379:HIS:N	2:G:379:HIS:HA	2.05	0.57
1:X:458:ASP:O	1:X:459:LEU:C	2.45	0.57
4:V:1424:SER:H	5:W:1297:PRO:N	2.03	0.57
4:J:1664:ASP:C	4:J:1667:ALA:H	2.12	0.57
1:X:453:TYR:O	1:X:455:ILE:CA	2.53	0.57
1:R:453:TYR:O	1:R:455:ILE:CA	2.53	0.57
4:P:42:ILE:CB	4:V:778:PRO:CB	2.50	0.57
4:V:1489:HIS:O	4:V:1491:ILE:N	2.38	0.57
4:V:1664:ASP:O	4:V:1667:ALA:HB3	2.04	0.57
4:J:1489:HIS:O	4:J:1490:GLU:C	2.45	0.57
4:J:1489:HIS:O	4:J:1491:ILE:N	2.38	0.57
4:D:1662:CYS:CA	6:C:446:GLU:CA	2.81	0.57
5:K:1056:ALA:CA	6:C:430:SER:HA	2.35	0.57
1:L:493:HIS:CB	1:L:493:HIS:C	2.61	0.57
4:P:1671:GLN:CA	6:O:449:GLY:O	2.52	0.57
4:P:1489:HIS:O	4:P:1490:GLU:C	2.44	0.57
1:F:453:TYR:O	1:F:455:ILE:CA	2.53	0.57
1:L:450:GLU:C	1:L:451:GLU:C	2.73	0.57
4:P:166:LEU:O	4:V:792:GLY:CA	2.51	0.57
4:V:1429:LEU:N	5:W:1338:PRO:O	2.37	0.57
4:J:1664:ASP:O	4:J:1667:ALA:HB3	2.04	0.57
6:I:303:ALA:HB1	6:I:306:PRO:HA	1.87	0.57
1:R:381:ASP:CB	4:P:886:ILE:CA	2.83	0.56
4:D:1489:HIS:O	4:D:1491:ILE:N	2.38	0.56
1:R:450:GLU:C	1:R:451:GLU:C	2.73	0.56
4:V:1489:HIS:O	4:V:1490:GLU:C	2.45	0.56
4:D:1664:ASP:C	4:D:1667:ALA:H	2.12	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:303:ALA:HB1	6:O:306:PRO:HA	1.87	0.56
1:F:399:SER:O	1:F:400:GLY:HA3	2.00	0.56
1:R:329:GLY:N	1:R:329:GLY:C	2.62	0.56
4:P:1466:ASN:CB	6:O:173:PRO:CA	2.66	0.56
4:V:1407:ILE:H	5:W:1371:VAL:N	2.03	0.56
4:V:1427:TYR:CB	5:W:1331:LEU:C	2.78	0.56
4:V:1429:LEU:CA	5:W:1342:LEU:N	2.67	0.56
4:V:1664:ASP:C	4:V:1667:ALA:H	2.12	0.56
6:C:303:ALA:HB1	6:C:306:PRO:HA	1.87	0.56
1:F:329:GLY:N	1:F:329:GLY:C	2.61	0.56
1:L:453:TYR:O	1:L:455:ILE:CA	2.53	0.56
3:T:380:GLU:C	3:T:381:LYS:CA	2.72	0.56
4:D:1661:ARG:CB	6:C:446:GLU:C	2.78	0.56
6:C:483:GLU:HA	6:C:484:ARG:N	2.21	0.56
1:F:450:GLU:C	1:F:451:GLU:C	2.73	0.56
1:L:449:SER:O	1:L:452:ARG:N	2.39	0.56
1:R:449:SER:O	1:R:452:ARG:N	2.38	0.56
4:P:166:LEU:O	4:V:792:GLY:O	2.20	0.56
4:J:744:PHE:C	4:J:746:ARG:HA	2.31	0.56
1:F:447:VAL:CB	1:F:447:VAL:N	2.62	0.56
1:F:449:SER:O	1:F:452:ARG:N	2.39	0.56
4:P:1489:HIS:O	4:P:1491:ILE:N	2.38	0.56
4:V:66:LYS:CB	5:W:1182:LEU:C	2.77	0.56
5:K:205:LEU:O	5:K:207:SER:HA	2.06	0.56
6:O:483:GLU:HA	6:O:484:ARG:N	2.20	0.56
2:G:345:TYR:C	2:G:348:ILE:H	2.14	0.56
1:X:449:SER:O	1:X:452:ARG:N	2.39	0.56
1:L:329:GLY:N	1:L:329:GLY:C	2.62	0.56
4:P:1489:HIS:C	4:P:1491:ILE:N	2.61	0.56
4:P:1674:ALA:O	6:O:410:THR:CB	2.53	0.56
5:E:205:LEU:O	5:E:207:SER:HA	2.06	0.56
2:Y:345:TYR:C	2:Y:348:ILE:H	2.14	0.56
4:P:744:PHE:C	4:P:746:ARG:HA	2.30	0.56
4:P:1441:LEU:CB	6:O:178:LEU:C	2.75	0.56
4:V:1395:SER:O	5:W:1375:ALA:N	2.38	0.56
1:F:452:ARG:C	1:F:453:TYR:C	2.74	0.56
6:U:483:GLU:HA	6:U:484:ARG:N	2.21	0.56
2:S:345:TYR:C	2:S:348:ILE:H	2.14	0.55
4:V:60:ASN:CB	5:W:1180:SER:CB	2.83	0.55
4:V:64:HIS:CA	5:W:1177:GLN:CB	2.84	0.55
6:I:483:GLU:HA	6:I:484:ARG:N	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:328:VAL:C	1:R:328:VAL:CB	2.67	0.55
1:R:452:ARG:C	1:R:453:TYR:C	2.74	0.55
5:W:205:LEU:O	5:W:207:SER:HA	2.06	0.55
2:M:325:ALA:C	2:M:325:ALA:CB	2.77	0.55
4:V:1497:LEU:CB	5:W:1365:GLN:H	2.19	0.55
4:J:1489:HIS:C	4:J:1491:ILE:N	2.61	0.55
6:U:303:ALA:HB1	6:U:306:PRO:HA	1.87	0.55
1:F:382:LEU:HA	4:D:884:GLN:CB	2.36	0.55
1:R:381:ASP:CB	4:P:882:LEU:O	2.54	0.55
1:R:392:LYS:CB	4:P:878:PRO:N	2.69	0.55
4:D:744:PHE:C	4:D:746:ARG:HA	2.31	0.55
4:D:1489:HIS:C	4:D:1491:ILE:N	2.61	0.55
1:R:384:HIS:CA	4:P:883:LEU:CB	2.84	0.55
3:T:406:LEU:HA	3:T:409:PRO:N	2.22	0.55
3:H:406:LEU:HA	3:H:409:PRO:N	2.22	0.55
1:X:329:GLY:N	1:X:329:GLY:C	2.62	0.55
1:L:447:VAL:CB	1:L:447:VAL:N	2.62	0.55
2:M:345:TYR:C	2:M:348:ILE:H	2.14	0.55
4:V:744:PHE:C	4:V:746:ARG:HA	2.31	0.55
5:Q:205:LEU:O	5:Q:207:SER:HA	2.06	0.55
1:X:450:GLU:C	1:X:451:GLU:C	2.73	0.55
1:X:452:ARG:C	1:X:453:TYR:C	2.74	0.55
1:L:404:GLN:O	1:L:405:ALA:CB	2.55	0.55
4:V:1499:LEU:CB	5:W:1368:SER:HA	2.37	0.55
2:G:313:ILE:O	2:G:316:ALA:HB3	2.07	0.55
1:X:404:GLN:O	1:X:405:ALA:CB	2.55	0.55
2:M:313:ILE:O	2:M:316:ALA:HB3	2.07	0.55
1:R:381:ASP:CB	4:P:886:ILE:N	2.69	0.55
3:H:411:GLU:CB	4:D:812:GLU:N	2.67	0.55
1:R:404:GLN:O	1:R:405:ALA:CB	2.55	0.55
2:S:313:ILE:O	2:S:316:ALA:HB3	2.07	0.55
4:D:70:ALA:HB1	4:D:86:LEU:O	2.07	0.55
6:C:483:GLU:N	6:C:484:ARG:N	2.55	0.55
3:Z:406:LEU:HA	3:Z:409:PRO:N	2.22	0.54
4:P:1671:GLN:H	6:O:449:GLY:N	2.05	0.54
4:J:70:ALA:HB1	4:J:86:LEU:O	2.07	0.54
1:L:399:SER:O	1:L:400:GLY:HA3	2.01	0.54
1:L:452:ARG:C	1:L:453:TYR:C	2.74	0.54
4:V:1400:LEU:HA	5:W:1372:ALA:HB1	1.89	0.54
6:I:447:ASP:C	6:I:448:TYR:HA	2.32	0.54
1:F:457:ALA:C	1:F:459:LEU:N	2.66	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:457:ALA:C	1:X:459:LEU:N	2.66	0.54
1:R:376:LYS:O	4:P:888:PRO:HA	2.07	0.54
6:C:447:ASP:C	6:C:448:TYR:HA	2.33	0.54
1:F:458:ASP:O	1:F:459:LEU:C	2.45	0.54
3:N:406:LEU:HA	3:N:409:PRO:N	2.22	0.54
1:R:378:LYS:O	4:P:885:GLY:C	2.50	0.54
4:P:1440:THR:O	6:O:183:MET:N	2.31	0.54
4:D:1662:CYS:HA	6:C:446:GLU:CA	2.31	0.54
1:F:381:ASP:C	4:D:888:PRO:N	2.65	0.54
1:L:458:ASP:O	1:L:459:LEU:C	2.45	0.54
1:R:378:LYS:CB	4:P:892:LYS:O	2.52	0.54
1:R:379:LEU:C	4:P:884:GLN:HA	2.27	0.54
4:P:70:ALA:HB1	4:P:86:LEU:O	2.07	0.54
6:C:234:LEU:C	6:C:252:MET:HA	2.33	0.54
6:U:483:GLU:N	6:U:484:ARG:N	2.56	0.54
1:F:404:GLN:O	1:F:405:ALA:CB	2.55	0.54
3:N:380:GLU:C	3:N:381:LYS:CA	2.72	0.54
4:P:1441:LEU:CB	6:O:178:LEU:CA	2.85	0.54
4:J:1397:TYR:H	5:K:1340:GLN:N	2.04	0.54
5:K:181:ALA:O	5:K:196:GLY:HA2	2.08	0.54
6:I:234:LEU:C	6:I:252:MET:HA	2.33	0.54
6:U:234:LEU:C	6:U:252:MET:HA	2.33	0.54
2:Y:313:ILE:O	2:Y:316:ALA:HB3	2.07	0.54
1:L:483:ASP:CB	1:L:483:ASP:N	2.60	0.54
1:R:457:ALA:C	1:R:459:LEU:N	2.66	0.54
6:U:447:ASP:C	6:U:448:TYR:HA	2.32	0.54
5:Q:22:ALA:HB1	5:Q:780:ALA:CA	2.38	0.54
1:R:458:ASP:O	1:R:459:LEU:C	2.45	0.54
4:V:1509:GLN:O	4:V:1510:GLN:C	2.45	0.54
4:V:61:VAL:CB	5:W:1179:ASP:N	2.68	0.54
4:V:70:ALA:HB1	4:V:86:LEU:O	2.07	0.54
4:V:1486:CYS:O	4:V:1487:ASP:C	2.50	0.54
4:V:1489:HIS:C	4:V:1491:ILE:N	2.61	0.54
4:D:1662:CYS:N	6:C:446:GLU:CA	2.69	0.54
2:G:325:ALA:C	2:G:325:ALA:HA	2.15	0.53
1:X:404:GLN:O	1:X:405:ALA:HB2	2.08	0.53
2:Y:325:ALA:C	2:Y:325:ALA:HA	2.15	0.53
3:Z:462:GLY:CA	3:Z:462:GLY:O	2.51	0.53
1:L:457:ALA:C	1:L:459:LEU:N	2.66	0.53
5:W:73:LEU:O	6:O:684:PHE:HA	2.08	0.53
6:I:807:THR:C	6:I:809:ALA:H	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:404:GLN:O	1:R:405:ALA:HB2	2.09	0.53
4:P:43:LEU:CA	4:V:778:PRO:C	2.81	0.53
6:I:483:GLU:N	6:I:484:ARG:N	2.56	0.53
6:O:483:GLU:N	6:O:484:ARG:N	2.55	0.53
4:P:169:MET:CA	4:V:795:ILE:N	2.69	0.53
4:P:1670:LEU:CB	6:O:448:TYR:CA	2.87	0.53
1:F:485:LEU:HA	1:F:488:ILE:CB	2.39	0.53
1:X:367:THR:C	1:X:367:THR:CB	2.78	0.53
4:P:1444:ALA:CA	6:O:183:MET:CB	2.84	0.53
5:W:22:ALA:HB1	5:W:780:ALA:CA	2.38	0.53
5:E:1352:LEU:C	5:E:1354:LEU:H	2.17	0.53
5:Q:181:ALA:O	5:Q:196:GLY:HA2	2.09	0.53
1:X:485:LEU:HA	1:X:488:ILE:CB	2.38	0.53
1:L:404:GLN:O	1:L:405:ALA:HB2	2.08	0.53
3:N:462:GLY:CA	3:N:462:GLY:O	2.50	0.53
4:V:62:GLN:O	5:W:1181:GLU:C	2.51	0.53
4:J:1393:ASP:CB	5:K:1342:LEU:O	2.57	0.53
5:K:22:ALA:HB1	5:K:780:ALA:CA	2.38	0.53
4:P:170:THR:HA	4:V:793:GLU:CB	2.39	0.53
5:W:181:ALA:O	5:W:196:GLY:HA2	2.08	0.53
5:K:1352:LEU:C	5:K:1354:LEU:H	2.17	0.53
5:Q:1352:LEU:C	5:Q:1354:LEU:H	2.17	0.53
3:Z:490:GLN:CB	3:Z:490:GLN:N	2.58	0.53
4:P:1666:SER:O	6:O:448:TYR:O	2.26	0.53
5:W:1352:LEU:C	5:W:1354:LEU:H	2.17	0.53
6:O:234:LEU:C	6:O:252:MET:HA	2.33	0.53
2:Y:378:SER:CA	2:Y:378:SER:O	2.51	0.53
1:L:458:ASP:C	1:L:460:LEU:N	2.66	0.53
1:R:485:LEU:HA	1:R:488:ILE:CB	2.39	0.52
4:P:1673:LEU:CA	6:O:454:THR:CB	2.82	0.52
4:V:1395:SER:O	5:W:1375:ALA:O	2.27	0.52
5:W:370:PHE:HA	5:W:386:THR:O	2.10	0.52
6:U:231:THR:C	6:U:233:VAL:H	2.17	0.52
1:L:485:LEU:HA	1:L:488:ILE:CB	2.38	0.52
5:W:22:ALA:HB1	5:W:780:ALA:CB	2.39	0.52
6:I:231:THR:C	6:I:233:VAL:H	2.17	0.52
5:K:370:PHE:HA	5:K:386:THR:O	2.10	0.52
5:E:22:ALA:HB1	5:E:780:ALA:CA	2.38	0.52
5:Q:22:ALA:HB1	5:Q:780:ALA:CB	2.39	0.52
1:X:458:ASP:C	1:X:460:LEU:N	2.66	0.52
2:S:325:ALA:C	2:S:325:ALA:HA	2.15	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:1675:LEU:CB	6:O:462:TYR:CA	2.86	0.52
5:E:181:ALA:O	5:E:196:GLY:HA2	2.09	0.52
2:G:326:LEU:N	2:G:326:LEU:CB	2.72	0.52
4:J:1539:LEU:O	4:J:1540:LEU:C	2.40	0.52
6:O:807:THR:C	6:O:809:ALA:H	2.16	0.52
6:U:807:THR:C	6:U:809:ALA:H	2.16	0.52
1:F:404:GLN:O	1:F:405:ALA:HB2	2.09	0.52
1:X:447:VAL:CB	1:X:447:VAL:N	2.62	0.52
2:Y:325:ALA:C	2:Y:325:ALA:CB	2.77	0.52
2:S:379:HIS:N	2:S:379:HIS:HA	2.05	0.52
4:J:1513:LEU:O	4:J:1514:LEU:C	2.50	0.52
5:E:22:ALA:HB1	5:E:780:ALA:CB	2.40	0.52
4:P:1667:ALA:CB	6:O:443:GLN:O	2.57	0.52
4:V:1422:TYR:HA	5:W:1368:SER:CB	2.39	0.52
4:D:1447:THR:O	4:D:1448:MET:C	2.53	0.52
5:K:340:LYS:C	5:K:342:ILE:HA	2.35	0.52
1:R:367:THR:C	1:R:367:THR:CB	2.78	0.52
4:D:1658:ALA:O	6:C:447:ASP:CB	2.57	0.52
5:E:370:PHE:HA	5:E:386:THR:O	2.10	0.52
1:F:458:ASP:C	1:F:460:LEU:N	2.66	0.51
1:F:458:ASP:O	1:F:460:LEU:CA	2.58	0.51
6:C:807:THR:C	6:C:809:ALA:H	2.17	0.51
5:E:340:LYS:C	5:E:342:ILE:HA	2.35	0.51
1:F:490:LEU:O	1:F:493:HIS:N	2.44	0.51
3:H:408:SER:CA	3:H:410:LEU:N	2.68	0.51
1:L:458:ASP:O	1:L:460:LEU:CA	2.58	0.51
5:K:22:ALA:HB1	5:K:780:ALA:CB	2.40	0.51
5:Q:370:PHE:HA	5:Q:386:THR:O	2.10	0.51
1:R:458:ASP:C	1:R:459:LEU:C	2.79	0.51
5:W:340:LYS:C	5:W:342:ILE:HA	2.36	0.51
1:X:455:ILE:C	1:X:457:ALA:H	2.15	0.51
1:R:374:GLN:CA	4:P:897:VAL:H	2.22	0.51
4:P:1509:GLN:O	4:P:1510:GLN:C	2.45	0.51
4:P:1517:SER:O	4:P:1518:ASN:C	2.51	0.51
4:V:1447:THR:O	4:V:1448:MET:C	2.53	0.51
3:Z:425:HIS:O	3:Z:426:ALA:HB2	2.11	0.51
4:P:1448:MET:O	4:P:1451:ARG:N	2.44	0.51
6:O:231:THR:C	6:O:233:VAL:H	2.18	0.51
1:F:399:SER:CA	1:F:401:TYR:N	2.74	0.51
1:X:447:VAL:CB	1:X:447:VAL:C	2.77	0.51
4:V:1432:ALA:CA	5:W:1336:GLU:CA	2.69	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:376:ARG:O	5:Q:380:ALA:HA	2.11	0.51
1:F:458:ASP:C	1:F:459:LEU:C	2.78	0.51
1:X:399:SER:CA	1:X:401:TYR:N	2.74	0.51
1:X:458:ASP:C	1:X:459:LEU:C	2.79	0.51
3:Z:380:GLU:C	3:Z:381:LYS:CA	2.72	0.51
1:L:399:SER:CA	1:L:401:TYR:N	2.73	0.51
1:R:384:HIS:O	4:P:880:GLU:CB	2.57	0.51
4:V:644:ALA:HB2	4:V:702:PRO:C	2.36	0.51
4:V:1513:LEU:O	4:V:1514:LEU:C	2.50	0.51
4:D:1448:MET:O	4:D:1451:ARG:N	2.44	0.51
5:Q:340:LYS:C	5:Q:342:ILE:HA	2.35	0.51
1:R:399:SER:CA	1:R:401:TYR:N	2.74	0.51
4:P:1447:THR:O	4:P:1448:MET:C	2.53	0.51
5:K:1016:ALA:H	6:I:814:MET:C	2.18	0.51
1:R:447:VAL:CB	1:R:447:VAL:N	2.62	0.51
4:P:1466:ASN:CB	6:O:173:PRO:C	2.84	0.51
4:P:1486:CYS:O	4:P:1487:ASP:C	2.50	0.51
4:J:1448:MET:O	4:J:1451:ARG:N	2.44	0.51
1:X:492:GLU:C	1:X:493:HIS:CA	2.84	0.50
2:Y:326:LEU:N	2:Y:326:LEU:CB	2.72	0.50
4:P:49:ASP:C	4:P:51:ILE:H	2.19	0.50
4:V:1427:TYR:CB	5:W:1331:LEU:HA	2.41	0.50
4:D:1504:VAL:O	4:D:1505:SER:C	2.39	0.50
2:S:325:ALA:C	2:S:325:ALA:CB	2.77	0.50
3:T:425:HIS:O	3:T:426:ALA:HB2	2.11	0.50
4:P:1666:SER:N	6:O:446:GLU:O	2.31	0.50
4:V:1504:VAL:O	4:V:1505:SER:C	2.39	0.50
4:D:49:ASP:C	4:D:51:ILE:H	2.19	0.50
4:J:644:ALA:HB2	4:J:702:PRO:C	2.36	0.50
1:F:453:TYR:N	1:F:453:TYR:C	2.70	0.50
3:H:425:HIS:O	3:H:426:ALA:HB2	2.11	0.50
1:L:492:GLU:C	1:L:493:HIS:CA	2.84	0.50
2:M:341:ALA:N	2:M:341:ALA:C	2.68	0.50
4:P:644:ALA:HB2	4:P:702:PRO:C	2.36	0.50
4:V:1424:SER:CB	5:W:1296:LEU:H	2.22	0.50
4:V:1448:MET:O	4:V:1451:ARG:N	2.44	0.50
4:D:1542:PRO:C	4:D:1544:PRO:N	2.68	0.50
5:W:376:ARG:O	5:W:380:ALA:HA	2.11	0.50
4:J:1518:ASN:O	4:J:1519:SER:C	2.55	0.50
5:W:565:VAL:H	6:O:632:ALA:CB	2.12	0.50
1:F:367:THR:C	1:F:367:THR:CB	2.78	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:458:ASP:C	1:L:459:LEU:C	2.78	0.50
4:P:1675:LEU:N	6:O:453:PHE:HA	2.13	0.50
4:V:1494:MET:O	5:W:1357:VAL:O	2.29	0.50
5:K:376:ARG:O	5:K:380:ALA:HA	2.11	0.50
1:F:377:ARG:O	4:D:887:ASN:O	2.29	0.50
1:F:486:GLU:C	1:F:488:ILE:N	2.70	0.50
1:X:450:GLU:O	1:X:451:GLU:CA	2.33	0.50
2:Y:379:HIS:N	2:Y:379:HIS:HA	2.06	0.50
2:M:326:LEU:N	2:M:326:LEU:CB	2.72	0.50
3:N:425:HIS:O	3:N:426:ALA:HB2	2.11	0.50
4:D:644:ALA:HB2	4:D:702:PRO:C	2.36	0.50
4:D:1662:CYS:CB	6:C:446:GLU:HA	2.41	0.50
5:W:565:VAL:CB	6:O:632:ALA:CB	2.89	0.50
5:K:1056:ALA:HA	6:C:430:SER:CB	2.42	0.50
3:H:406:LEU:C	3:H:408:SER:N	2.62	0.50
1:R:486:GLU:C	1:R:488:ILE:N	2.70	0.50
4:J:49:ASP:C	4:J:51:ILE:H	2.19	0.50
1:X:490:LEU:O	1:X:493:HIS:N	2.43	0.50
1:R:458:ASP:C	1:R:460:LEU:N	2.66	0.50
5:E:215:LEU:HA	5:E:230:GLY:HA2	1.94	0.50
1:L:367:THR:CA	1:L:367:THR:O	2.53	0.50
1:R:388:GLN:CA	4:P:880:GLU:N	2.58	0.50
3:T:408:SER:CA	3:T:410:LEU:N	2.68	0.50
5:Q:215:LEU:HA	5:Q:230:GLY:HA2	1.94	0.50
2:G:339:TYR:CB	2:G:341:ALA:N	2.75	0.49
2:Y:339:TYR:CB	2:Y:341:ALA:N	2.75	0.49
4:P:170:THR:CA	4:V:793:GLU:CB	2.89	0.49
4:P:1660:LEU:CB	6:O:413:TYR:CB	2.90	0.49
4:V:1423:GLY:H	5:W:1297:PRO:HA	1.77	0.49
6:C:231:THR:C	6:C:233:VAL:H	2.18	0.49
6:C:469:THR:O	6:C:470:ALA:HB3	2.12	0.49
3:N:408:SER:CA	3:N:410:LEU:N	2.68	0.49
3:N:409:PRO:CA	3:N:410:LEU:N	2.72	0.49
1:R:458:ASP:O	1:R:460:LEU:CA	2.58	0.49
4:V:49:ASP:C	4:V:51:ILE:H	2.19	0.49
4:V:1407:ILE:CB	5:W:1371:VAL:N	2.72	0.49
4:V:1491:ILE:O	4:V:1492:GLY:C	2.53	0.49
4:V:1497:LEU:C	5:W:1361:LEU:N	2.70	0.49
4:V:1554:GLU:N	5:W:1362:VAL:CB	2.72	0.49
4:D:1491:ILE:O	4:D:1492:GLY:C	2.53	0.49
3:H:463:ALA:N	3:H:463:ALA:C	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:1518:ASN:O	4:V:1519:SER:C	2.55	0.49
4:J:1472:SER:O	4:J:1473:TYR:C	2.55	0.49
1:X:453:TYR:N	1:X:453:TYR:C	2.70	0.49
2:S:339:TYR:CB	2:S:341:ALA:N	2.75	0.49
4:D:1518:ASN:O	4:D:1519:SER:C	2.55	0.49
6:O:469:THR:O	6:O:470:ALA:HB3	2.12	0.49
1:X:491:VAL:C	1:X:492:GLU:C	2.81	0.49
3:T:463:ALA:N	3:T:463:ALA:C	2.65	0.49
4:P:166:LEU:CA	4:V:792:GLY:O	2.59	0.49
4:P:1504:VAL:O	4:P:1505:SER:C	2.38	0.49
4:J:69:LYS:O	4:J:70:ALA:HB3	2.13	0.49
5:K:215:LEU:HA	5:K:230:GLY:HA2	1.94	0.49
3:H:462:GLY:CA	3:H:462:GLY:O	2.50	0.49
2:M:325:ALA:C	2:M:325:ALA:HA	2.15	0.49
2:M:339:TYR:CB	2:M:341:ALA:N	2.75	0.49
1:R:453:TYR:N	1:R:453:TYR:C	2.70	0.49
1:R:491:VAL:C	1:R:492:GLU:C	2.81	0.49
4:V:1407:ILE:N	5:W:1371:VAL:N	2.58	0.49
2:G:339:TYR:CA	2:G:340:ALA:N	2.68	0.49
1:X:486:GLU:C	1:X:488:ILE:N	2.70	0.49
2:Y:378:SER:CB	2:Y:378:SER:O	2.61	0.49
4:P:1518:ASN:O	4:P:1519:SER:C	2.55	0.49
4:P:1537:GLN:C	4:P:1539:LEU:N	2.69	0.49
4:D:1472:SER:O	4:D:1473:TYR:C	2.55	0.49
4:D:1537:GLN:C	4:D:1539:LEU:N	2.69	0.49
4:J:1504:VAL:O	4:J:1505:SER:C	2.38	0.49
4:J:1447:THR:O	4:J:1448:MET:C	2.53	0.49
1:L:453:TYR:N	1:L:453:TYR:C	2.70	0.49
2:S:341:ALA:N	2:S:341:ALA:C	2.68	0.49
4:J:1491:ILE:O	4:J:1492:GLY:C	2.53	0.49
2:G:378:SER:CB	2:G:378:SER:O	2.61	0.49
2:S:378:SER:CB	2:S:378:SER:O	2.61	0.49
3:T:409:PRO:CA	3:T:410:LEU:N	2.72	0.49
4:P:1539:LEU:O	4:P:1540:LEU:C	2.40	0.49
5:E:376:ARG:O	5:E:380:ALA:HA	2.11	0.49
1:F:488:ILE:N	1:F:488:ILE:CB	2.66	0.48
1:F:491:VAL:C	1:F:492:GLU:C	2.81	0.48
1:F:492:GLU:C	1:F:493:HIS:CA	2.84	0.48
1:X:458:ASP:O	1:X:460:LEU:CA	2.58	0.48
1:L:486:GLU:C	1:L:488:ILE:N	2.70	0.48
2:M:378:SER:CB	2:M:378:SER:O	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:490:LEU:O	1:R:493:HIS:N	2.43	0.48
2:S:326:LEU:N	2:S:326:LEU:CB	2.72	0.48
3:T:374:SER:CB	3:T:374:SER:H	2.25	0.48
4:P:1472:SER:O	4:P:1473:TYR:C	2.55	0.48
5:W:215:LEU:HA	5:W:230:GLY:HA2	1.94	0.48
5:K:312:MET:CB	5:K:313:SER:CA	2.91	0.48
1:L:491:VAL:C	1:L:492:GLU:C	2.81	0.48
4:D:1657:GLN:HA	6:C:451:SER:C	2.38	0.48
6:I:469:THR:O	6:I:470:ALA:HB3	2.12	0.48
1:L:490:LEU:O	1:L:493:HIS:N	2.43	0.48
4:V:1423:GLY:HA3	5:W:1300:LEU:CB	2.44	0.48
5:W:312:MET:CB	5:W:313:SER:CA	2.91	0.48
5:E:312:MET:CB	5:E:313:SER:CA	2.91	0.48
1:L:447:VAL:CB	1:L:447:VAL:C	2.77	0.48
1:R:492:GLU:C	1:R:493:HIS:CA	2.84	0.48
4:P:1491:ILE:O	4:P:1492:GLY:C	2.53	0.48
4:J:1517:SER:O	4:J:1518:ASN:C	2.51	0.48
5:Q:312:MET:CB	5:Q:313:SER:CA	2.91	0.48
3:H:418:SER:CB	4:D:876:VAL:O	2.61	0.48
4:D:69:LYS:O	4:D:70:ALA:HB3	2.12	0.48
4:D:1661:ARG:C	6:C:447:ASP:HA	2.39	0.48
4:J:1486:CYS:O	4:J:1487:ASP:C	2.50	0.48
4:J:1537:GLN:C	4:J:1539:LEU:N	2.69	0.48
6:U:469:THR:O	6:U:470:ALA:HB3	2.12	0.48
1:L:455:ILE:C	1:L:457:ALA:H	2.15	0.48
3:T:406:LEU:C	3:T:408:SER:N	2.61	0.48
4:P:69:LYS:O	4:P:70:ALA:HB3	2.13	0.48
4:V:1428:TYR:C	5:W:1337:ASN:N	2.72	0.48
4:D:1509:GLN:O	4:D:1510:GLN:C	2.45	0.48
4:D:1537:GLN:O	4:D:1538:SER:C	2.56	0.48
4:P:41:LYS:C	4:V:777:GLU:N	2.58	0.48
2:Y:322:ALA:O	2:Y:325:ALA:HB3	2.14	0.48
1:L:367:THR:C	1:L:367:THR:CB	2.78	0.48
1:R:483:ASP:C	1:R:486:GLU:H	2.22	0.48
4:P:1493:ARG:O	4:P:1494:MET:C	2.47	0.48
2:G:325:ALA:C	2:G:325:ALA:CB	2.77	0.47
3:N:406:LEU:C	3:N:408:SER:N	2.61	0.47
4:V:1472:SER:O	4:V:1473:TYR:C	2.55	0.47
4:J:1542:PRO:C	4:J:1544:PRO:N	2.68	0.47
2:S:322:ALA:O	2:S:325:ALA:HB3	2.14	0.47
4:V:341:SER:C	4:V:343:LEU:H	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:341:SER:C	4:D:343:LEU:H	2.22	0.47
5:W:73:LEU:CB	6:O:683:LYS:C	2.87	0.47
2:M:339:TYR:CA	2:M:340:ALA:N	2.68	0.47
4:V:1498:ALA:N	5:W:1361:LEU:N	2.62	0.47
6:U:480:PHE:C	6:U:484:ARG:CB	2.87	0.47
1:F:483:ASP:C	1:F:486:GLU:H	2.22	0.47
2:G:340:ALA:O	2:G:341:ALA:CB	2.63	0.47
4:P:1537:GLN:O	4:P:1538:SER:C	2.56	0.47
4:D:1486:CYS:O	4:D:1487:ASP:C	2.50	0.47
6:O:480:PHE:C	6:O:484:ARG:CB	2.87	0.47
1:F:140:LYS:HA	1:F:149:GLY:CA	2.44	0.47
2:G:378:SER:CA	2:G:378:SER:O	2.51	0.47
1:L:140:LYS:HA	1:L:149:GLY:CA	2.45	0.47
2:M:340:ALA:O	2:M:341:ALA:CB	2.62	0.47
1:R:489:LYS:O	1:R:492:GLU:N	2.48	0.47
2:S:340:ALA:O	2:S:341:ALA:CB	2.63	0.47
2:S:378:SER:CA	2:S:378:SER:O	2.51	0.47
4:J:1489:HIS:O	4:J:1492:GLY:N	2.48	0.47
1:R:140:LYS:HA	1:R:149:GLY:CA	2.45	0.47
1:R:381:ASP:CB	4:P:887:ASN:H	2.28	0.47
3:T:477:ILE:O	3:T:480:ALA:HB3	2.14	0.47
4:V:1489:HIS:O	4:V:1492:GLY:N	2.48	0.47
4:V:1544:PRO:C	4:V:1546:LEU:N	2.72	0.47
4:J:1493:ARG:O	4:J:1494:MET:C	2.47	0.47
6:I:480:PHE:C	6:I:484:ARG:CB	2.87	0.47
1:F:489:LYS:O	1:F:492:GLU:N	2.48	0.47
3:H:477:ILE:O	3:H:480:ALA:HB3	2.15	0.47
1:X:140:LYS:HA	1:X:149:GLY:CA	2.44	0.47
1:X:158:ASN:CA	1:X:321:LYS:O	2.62	0.47
1:X:492:GLU:CB	1:X:492:GLU:O	2.63	0.47
3:Z:408:SER:CA	3:Z:410:LEU:N	2.68	0.47
1:L:405:ALA:HB3	1:L:406:ASP:H	1.16	0.47
1:L:483:ASP:C	1:L:486:GLU:H	2.22	0.47
2:M:322:ALA:O	2:M:325:ALA:HB3	2.14	0.47
4:P:341:SER:C	4:P:343:LEU:H	2.22	0.47
4:P:1502:ARG:O	4:P:1503:ILE:C	2.57	0.47
4:P:1542:PRO:C	4:P:1544:PRO:N	2.68	0.47
4:V:1430:GLN:HA	5:W:1342:LEU:HA	1.96	0.47
4:V:1491:ILE:C	4:V:1493:ARG:N	2.72	0.47
4:J:341:SER:C	4:J:343:LEU:H	2.22	0.47
6:C:480:PHE:C	6:C:484:ARG:CB	2.87	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:140:LYS:CA	1:F:149:GLY:HA2	2.45	0.47
3:Z:477:ILE:O	3:Z:480:ALA:HB3	2.14	0.47
1:L:140:LYS:CA	1:L:149:GLY:HA2	2.45	0.47
1:L:459:LEU:C	1:L:459:LEU:N	2.63	0.47
4:V:1502:ARG:O	5:W:1340:GLN:O	2.29	0.47
2:Y:340:ALA:O	2:Y:341:ALA:CB	2.62	0.47
1:L:488:ILE:N	1:L:488:ILE:CB	2.66	0.47
2:M:378:SER:CA	2:M:378:SER:O	2.51	0.47
3:N:463:ALA:N	3:N:463:ALA:C	2.65	0.47
3:N:477:ILE:O	3:N:480:ALA:HB3	2.14	0.47
4:P:1515:TYR:O	4:P:1516:LEU:C	2.57	0.47
4:V:69:LYS:CB	5:W:1183:MET:C	2.86	0.47
4:D:1515:TYR:O	4:D:1516:LEU:C	2.57	0.47
6:O:724:GLN:C	6:O:726:SER:H	2.23	0.47
4:V:1428:TYR:H	5:W:1334:TYR:CB	2.24	0.47
1:F:447:VAL:CB	1:F:447:VAL:C	2.77	0.46
1:L:492:GLU:CB	1:L:492:GLU:O	2.63	0.46
2:S:326:LEU:C	2:S:327:ARG:HA	2.28	0.46
4:V:1537:GLN:C	4:V:1539:LEU:N	2.69	0.46
6:C:234:LEU:C	6:C:252:MET:N	2.73	0.46
6:C:724:GLN:C	6:C:726:SER:H	2.22	0.46
1:F:492:GLU:CB	1:F:492:GLU:O	2.63	0.46
1:X:460:LEU:CB	3:Z:470:PRO:C	2.89	0.46
1:R:140:LYS:CA	1:R:149:GLY:HA2	2.45	0.46
4:V:1428:TYR:N	5:W:1334:TYR:CB	2.53	0.46
4:J:1544:PRO:C	4:J:1546:LEU:N	2.72	0.46
6:I:234:LEU:C	6:I:252:MET:N	2.73	0.46
6:O:234:LEU:C	6:O:252:MET:N	2.73	0.46
6:U:234:LEU:C	6:U:252:MET:N	2.73	0.46
5:Q:942:PRO:HA	5:Q:943:GLN:HA	1.48	0.46
4:V:69:LYS:O	4:V:70:ALA:HB3	2.12	0.46
4:D:1489:HIS:O	4:D:1492:GLY:N	2.48	0.46
6:I:724:GLN:C	6:I:726:SER:H	2.23	0.46
5:E:404:LYS:HA	5:E:405:PRO:HA	1.70	0.46
1:X:140:LYS:CA	1:X:149:GLY:HA2	2.44	0.46
1:R:460:LEU:CB	3:T:470:PRO:C	2.89	0.46
4:P:168:SER:CB	4:V:795:ILE:CB	2.93	0.46
4:V:1517:SER:O	4:V:1518:ASN:C	2.51	0.46
1:F:455:ILE:C	1:F:457:ALA:H	2.15	0.46
2:G:325:ALA:CA	2:G:326:LEU:N	2.69	0.46
1:L:460:LEU:CB	3:N:470:PRO:C	2.89	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:492:GLU:C	1:L:492:GLU:N	2.66	0.46
1:R:376:LYS:O	4:P:888:PRO:CA	2.61	0.46
4:P:1489:HIS:O	4:P:1492:GLY:N	2.48	0.46
4:P:1673:LEU:CB	6:O:452:HIS:N	2.71	0.46
2:G:322:ALA:O	2:G:325:ALA:HB3	2.14	0.46
1:X:483:ASP:C	1:X:486:GLU:H	2.22	0.46
3:N:408:SER:C	3:N:410:LEU:N	2.74	0.46
1:R:459:LEU:C	1:R:459:LEU:N	2.63	0.46
4:P:1446:LYS:H	6:O:183:MET:CB	2.28	0.46
4:V:1494:MET:CB	5:W:1358:CYS:HA	2.45	0.46
4:D:1544:PRO:C	4:D:1546:LEU:N	2.72	0.46
4:D:1661:ARG:CB	6:C:446:GLU:N	2.78	0.46
5:K:38:ARG:HA	5:K:484:THR:CB	2.45	0.46
5:E:38:ARG:HA	5:E:484:THR:CB	2.45	0.46
1:R:405:ALA:HB3	1:R:406:ASP:H	1.17	0.46
1:R:492:GLU:CB	1:R:492:GLU:O	2.63	0.46
4:P:1442:GLU:H	6:O:182:GLU:CA	2.24	0.46
4:P:1669:SER:N	6:O:448:TYR:O	2.39	0.46
4:P:1692:LEU:C	6:O:297:LEU:O	2.58	0.46
4:V:812:GLU:C	4:V:814:PRO:N	2.74	0.46
4:V:1502:ARG:O	4:V:1503:ILE:C	2.57	0.46
4:V:1539:LEU:O	4:V:1540:LEU:C	2.40	0.46
4:P:812:GLU:C	4:P:814:PRO:N	2.74	0.46
1:F:140:LYS:CA	1:F:149:GLY:CA	2.94	0.46
1:F:367:THR:CA	1:F:367:THR:O	2.53	0.46
2:G:318:GLU:C	2:G:320:LYS:N	2.71	0.46
2:G:374:GLN:HA	2:G:377:ASN:CB	2.46	0.46
1:X:489:LYS:O	1:X:492:GLU:N	2.48	0.46
1:R:140:LYS:CA	1:R:149:GLY:CA	2.94	0.46
4:V:1487:ASP:O	4:V:1490:GLU:N	2.49	0.46
6:C:303:ALA:HB1	6:C:306:PRO:CA	2.46	0.46
1:F:460:LEU:CB	3:H:470:PRO:C	2.89	0.46
2:M:326:LEU:C	2:M:327:ARG:HA	2.28	0.46
3:T:462:GLY:CA	3:T:462:GLY:O	2.51	0.46
4:D:812:GLU:C	4:D:814:PRO:N	2.74	0.46
4:J:812:GLU:C	4:J:814:PRO:N	2.74	0.46
4:J:1482:CYS:O	4:J:1485:ALA:HB3	2.16	0.46
5:W:1170:SER:C	5:W:1172:GLN:H	2.24	0.46
6:U:724:GLN:C	6:U:726:SER:H	2.22	0.46
5:E:1170:SER:C	5:E:1172:GLN:H	2.24	0.46
3:H:374:SER:CB	3:H:374:SER:H	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:Z:408:SER:C	3:Z:410:LEU:N	2.74	0.45
2:M:374:GLN:HA	2:M:377:ASN:CB	2.46	0.45
1:R:378:LYS:O	4:P:883:LEU:O	2.33	0.45
4:P:1441:LEU:O	6:O:180:ASN:O	2.20	0.45
4:V:1544:PRO:C	4:V:1546:LEU:H	2.24	0.45
5:W:38:ARG:HA	5:W:484:THR:CB	2.45	0.45
1:F:375:TYR:HA	4:D:893:ALA:HB1	1.96	0.45
3:H:408:SER:C	3:H:410:LEU:N	2.74	0.45
2:S:374:GLN:HA	2:S:377:ASN:CB	2.46	0.45
4:V:1537:GLN:O	4:V:1538:SER:C	2.56	0.45
4:D:1494:MET:CB	4:D:1551:TYR:CB	2.95	0.45
4:J:1487:ASP:O	4:J:1490:GLU:N	2.49	0.45
4:J:1515:TYR:O	4:J:1516:LEU:C	2.57	0.45
6:C:503:LEU:O	6:C:504:LYS:CB	2.64	0.45
6:I:303:ALA:HB1	6:I:306:PRO:CA	2.46	0.45
5:Q:38:ARG:HA	5:Q:484:THR:CB	2.46	0.45
2:Y:374:GLN:HA	2:Y:377:ASN:CB	2.46	0.45
1:L:489:LYS:O	1:L:492:GLU:N	2.48	0.45
4:P:1437:GLU:CB	6:O:487:CYS:H	2.29	0.45
4:P:1491:ILE:C	4:P:1493:ARG:N	2.72	0.45
4:P:1494:MET:CB	4:P:1551:TYR:CB	2.95	0.45
4:D:1487:ASP:O	4:D:1490:GLU:N	2.49	0.45
4:D:1513:LEU:O	4:D:1514:LEU:C	2.50	0.45
4:J:1544:PRO:C	4:J:1546:LEU:H	2.24	0.45
6:U:234:LEU:CB	6:U:250:VAL:O	2.65	0.45
2:Y:342:PRO:C	2:Y:344:ASP:H	2.25	0.45
4:D:1482:CYS:O	4:D:1485:ALA:HB3	2.17	0.45
6:C:234:LEU:C	6:C:252:MET:CA	2.90	0.45
2:M:342:PRO:O	2:M:344:ASP:N	2.50	0.45
4:P:1668:GLY:H	6:O:446:GLU:C	2.24	0.45
4:D:1517:SER:O	4:D:1518:ASN:C	2.51	0.45
4:J:1494:MET:CB	4:J:1551:TYR:CB	2.95	0.45
5:K:1170:SER:C	5:K:1172:GLN:H	2.24	0.45
1:X:140:LYS:CA	1:X:149:GLY:CA	2.94	0.45
1:L:328:VAL:C	1:L:328:VAL:N	2.68	0.45
2:M:342:PRO:C	2:M:344:ASP:H	2.25	0.45
1:R:371:LYS:HA	4:P:894:ASP:HA	1.98	0.45
3:T:408:SER:C	3:T:410:LEU:N	2.74	0.45
4:V:1515:TYR:O	4:V:1516:LEU:C	2.57	0.45
6:I:503:LEU:O	6:I:504:LYS:CB	2.64	0.45
6:O:234:LEU:C	6:O:252:MET:CA	2.90	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:395:GLY:N	5:Q:400:SER:CB	2.80	0.45
2:Y:339:TYR:C	2:Y:340:ALA:C	2.50	0.45
4:J:1537:GLN:O	4:J:1538:SER:C	2.56	0.45
6:I:234:LEU:CB	6:I:250:VAL:O	2.65	0.45
6:U:503:LEU:O	6:U:504:LYS:CB	2.64	0.45
1:F:492:GLU:CA	1:F:492:GLU:O	2.53	0.45
1:L:447:VAL:O	1:L:450:GLU:CA	2.65	0.45
1:R:447:VAL:O	1:R:450:GLU:CA	2.65	0.45
4:P:1487:ASP:O	4:P:1490:GLU:N	2.50	0.45
4:V:1494:MET:CB	4:V:1551:TYR:CB	2.95	0.45
4:V:1542:PRO:C	4:V:1544:PRO:N	2.68	0.45
4:D:1491:ILE:C	4:D:1493:ARG:N	2.73	0.45
5:W:395:GLY:N	5:W:400:SER:CB	2.80	0.45
5:K:395:GLY:N	5:K:400:SER:CB	2.80	0.45
6:U:234:LEU:C	6:U:252:MET:CA	2.90	0.45
5:Q:1170:SER:C	5:Q:1172:GLN:H	2.25	0.45
1:F:158:ASN:CA	1:F:321:LYS:O	2.62	0.45
2:Y:325:ALA:CA	2:Y:326:LEU:N	2.68	0.45
1:L:140:LYS:CA	1:L:149:GLY:CA	2.94	0.45
1:L:158:ASN:CA	1:L:321:LYS:O	2.62	0.45
2:S:318:GLU:C	2:S:320:LYS:N	2.71	0.45
4:P:169:MET:C	4:V:792:GLY:N	2.71	0.45
4:P:1513:LEU:O	4:P:1514:LEU:C	2.50	0.45
4:V:1403:LEU:CA	5:W:1372:ALA:C	2.62	0.45
4:D:1539:LEU:O	4:D:1540:LEU:C	2.40	0.45
5:E:395:GLY:N	5:E:400:SER:CB	2.80	0.45
1:F:140:LYS:CB	1:F:149:GLY:HA2	2.47	0.45
1:F:486:GLU:O	1:F:487:ASP:C	2.60	0.45
1:R:158:ASN:CA	1:R:321:LYS:O	2.62	0.45
4:V:1493:ARG:N	5:W:1366:SER:CB	2.80	0.45
4:D:1439:ASP:CB	6:C:539:PHE:HA	2.46	0.45
5:K:1056:ALA:HA	6:C:430:SER:HA	1.99	0.45
6:O:231:THR:C	6:O:233:VAL:N	2.75	0.45
6:O:303:ALA:HB1	6:O:306:PRO:CA	2.46	0.45
6:O:503:LEU:O	6:O:504:LYS:CB	2.64	0.45
6:O:806:ASP:C	6:O:808:ASN:H	2.25	0.45
1:F:447:VAL:O	1:F:450:GLU:CA	2.65	0.44
2:G:332:PRO:O	2:G:335:LEU:HA	2.17	0.44
2:Y:332:PRO:O	2:Y:335:LEU:HA	2.17	0.44
2:Y:339:TYR:CA	2:Y:340:ALA:N	2.68	0.44
3:Z:463:ALA:N	3:Z:463:ALA:C	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:140:LYS:CB	1:L:149:GLY:HA2	2.47	0.44
2:M:332:PRO:O	2:M:335:LEU:HA	2.17	0.44
1:R:455:ILE:C	1:R:457:ALA:H	2.15	0.44
4:P:1482:CYS:O	4:P:1485:ALA:HB3	2.17	0.44
4:P:1692:LEU:O	6:O:302:PRO:N	2.47	0.44
4:V:1482:CYS:O	4:V:1485:ALA:HB3	2.17	0.44
1:F:459:LEU:C	1:F:459:LEU:N	2.63	0.44
1:X:447:VAL:O	1:X:450:GLU:CA	2.65	0.44
4:P:1669:SER:C	6:O:449:GLY:O	2.61	0.44
4:V:61:VAL:C	5:W:1179:ASP:N	2.62	0.44
4:V:62:GLN:CA	5:W:1179:ASP:N	2.73	0.44
4:D:1544:PRO:C	4:D:1546:LEU:H	2.24	0.44
5:W:404:LYS:HA	5:W:405:PRO:HA	1.70	0.44
6:C:234:LEU:CB	6:C:250:VAL:O	2.65	0.44
6:C:806:ASP:C	6:C:808:ASN:H	2.25	0.44
2:G:342:PRO:O	2:G:344:ASP:N	2.50	0.44
2:S:342:PRO:O	2:S:344:ASP:N	2.50	0.44
4:D:1511:GLN:O	4:D:1512:TRP:C	2.56	0.44
4:J:1502:ARG:O	4:J:1503:ILE:C	2.58	0.44
5:K:404:LYS:HA	5:K:405:PRO:HA	1.70	0.44
6:U:303:ALA:HB1	6:U:306:PRO:CA	2.46	0.44
1:R:447:VAL:CB	1:R:447:VAL:C	2.77	0.44
1:R:486:GLU:O	1:R:487:ASP:C	2.60	0.44
1:R:492:GLU:C	1:R:492:GLU:N	2.66	0.44
4:P:1544:PRO:C	4:P:1546:LEU:H	2.24	0.44
5:W:1355:ASP:CB	5:W:1358:CYS:CB	2.96	0.44
6:I:234:LEU:C	6:I:252:MET:CA	2.90	0.44
6:O:588:GLU:HA	6:O:592:SER:O	2.18	0.44
6:U:231:THR:C	6:U:233:VAL:N	2.75	0.44
3:Z:374:SER:CB	3:Z:374:SER:H	2.26	0.44
2:S:332:PRO:O	2:S:335:LEU:HA	2.17	0.44
4:D:1502:ARG:O	4:D:1503:ILE:C	2.58	0.44
6:U:588:GLU:HA	6:U:592:SER:O	2.18	0.44
1:F:458:ASP:CB	1:F:458:ASP:C	2.91	0.44
1:X:140:LYS:CB	1:X:149:GLY:HA2	2.47	0.44
1:R:383:SER:N	4:P:884:GLN:CB	2.60	0.44
1:R:458:ASP:CB	1:R:458:ASP:C	2.91	0.44
6:C:230:MET:HA	6:C:233:VAL:CB	2.47	0.44
6:C:588:GLU:HA	6:C:592:SER:O	2.18	0.44
6:O:230:MET:HA	6:O:233:VAL:CB	2.48	0.44
6:U:806:ASP:C	6:U:808:ASN:H	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:1355:ASP:CB	5:Q:1358:CYS:CB	2.96	0.44
1:F:405:ALA:HB3	1:F:406:ASP:H	1.17	0.44
2:Y:318:GLU:C	2:Y:320:LYS:N	2.71	0.44
2:Y:342:PRO:O	2:Y:344:ASP:N	2.50	0.44
2:Y:379:HIS:N	2:Y:379:HIS:CB	2.72	0.44
5:K:565:VAL:CB	6:C:732:ALA:C	2.91	0.44
6:U:230:MET:HA	6:U:233:VAL:CB	2.48	0.44
1:R:140:LYS:CB	1:R:149:GLY:HA2	2.47	0.44
1:R:396:GLN:O	1:R:397:ARG:C	2.61	0.44
4:D:1536:LEU:O	4:D:1539:LEU:CB	2.66	0.44
6:O:234:LEU:CB	6:O:250:VAL:O	2.65	0.44
1:X:450:GLU:O	1:X:451:GLU:O	2.36	0.44
1:X:459:LEU:C	1:X:459:LEU:N	2.63	0.44
1:X:486:GLU:O	1:X:487:ASP:C	2.60	0.44
1:R:367:THR:CA	1:R:367:THR:O	2.53	0.44
4:P:454:PRO:C	4:P:458:GLU:N	2.76	0.44
4:P:1663:GLN:C	6:O:447:ASP:N	2.76	0.44
4:D:454:PRO:C	4:D:458:GLU:N	2.76	0.44
4:J:454:PRO:C	4:J:458:GLU:N	2.76	0.44
5:K:1355:ASP:CB	5:K:1358:CYS:CB	2.96	0.44
1:X:458:ASP:CB	1:X:458:ASP:C	2.91	0.43
2:Y:374:GLN:O	2:Y:377:ASN:CB	2.66	0.43
1:R:465:GLN:O	1:R:466:HIS:C	2.57	0.43
4:P:1512:TRP:O	4:P:1515:TYR:N	2.51	0.43
4:P:1544:PRO:C	4:P:1546:LEU:N	2.72	0.43
4:D:1678:GLY:CA	6:C:459:PRO:CB	2.96	0.43
4:J:1506:VAL:O	4:J:1508:LYS:N	2.47	0.43
4:J:1512:TRP:O	4:J:1515:TYR:N	2.51	0.43
5:K:1056:ALA:HB3	6:C:428:THR:C	2.43	0.43
6:I:230:MET:HA	6:I:233:VAL:CB	2.47	0.43
1:L:458:ASP:CB	1:L:458:ASP:C	2.91	0.43
4:J:1536:LEU:O	4:J:1539:LEU:CB	2.66	0.43
6:I:588:GLU:HA	6:I:592:SER:O	2.18	0.43
1:L:396:GLN:O	1:L:397:ARG:C	2.61	0.43
1:R:450:GLU:O	1:R:451:GLU:CA	2.33	0.43
4:V:1407:ILE:C	5:W:1370:SER:CB	2.90	0.43
4:V:1512:TRP:O	4:V:1515:TYR:N	2.51	0.43
4:D:1664:ASP:N	4:D:1667:ALA:CB	2.82	0.43
1:F:396:GLN:O	1:F:397:ARG:C	2.61	0.43
1:L:486:GLU:O	1:L:487:ASP:C	2.60	0.43
2:S:374:GLN:O	2:S:377:ASN:CB	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:1675:LEU:HA	6:O:461:LEU:CB	2.39	0.43
4:J:1509:GLN:O	4:J:1510:GLN:C	2.45	0.43
6:I:725:GLU:C	6:I:727:VAL:N	2.76	0.43
5:E:1355:ASP:CB	5:E:1358:CYS:CB	2.96	0.43
2:G:342:PRO:C	2:G:344:ASP:H	2.25	0.43
1:X:488:ILE:N	1:X:488:ILE:CB	2.66	0.43
4:V:1664:ASP:N	4:V:1667:ALA:CB	2.82	0.43
1:X:148:TRP:C	1:X:150:THR:N	2.74	0.43
1:L:148:TRP:C	1:L:150:THR:N	2.74	0.43
1:R:148:TRP:C	1:R:150:THR:N	2.74	0.43
1:R:374:GLN:CA	4:P:897:VAL:N	2.81	0.43
4:P:1441:LEU:O	6:O:183:MET:CB	2.66	0.43
4:V:869:GLU:HA	4:V:872:LEU:O	2.18	0.43
4:V:1536:LEU:O	4:V:1539:LEU:CB	2.66	0.43
4:D:774:ARG:C	4:D:776:TYR:H	2.27	0.43
4:D:1512:TRP:O	4:D:1515:TYR:N	2.51	0.43
4:D:1660:LEU:CA	6:C:451:SER:H	2.32	0.43
6:C:231:THR:C	6:C:233:VAL:N	2.75	0.43
1:R:488:ILE:N	1:R:488:ILE:CB	2.66	0.43
2:S:366:GLU:CB	2:S:367:LEU:N	2.81	0.43
4:P:1542:PRO:O	4:P:1544:PRO:N	2.52	0.43
4:V:454:PRO:C	4:V:458:GLU:N	2.76	0.43
4:V:1542:PRO:O	4:V:1544:PRO:N	2.51	0.43
4:D:1485:ALA:O	4:D:1487:ASP:N	2.52	0.43
5:Q:958:ASP:C	5:Q:960:VAL:CA	2.92	0.43
2:M:374:GLN:O	2:M:377:ASN:CB	2.66	0.43
4:P:166:LEU:HA	4:V:792:GLY:O	2.18	0.43
4:P:1664:ASP:N	4:P:1667:ALA:CB	2.82	0.43
4:P:1675:LEU:CB	6:O:453:PHE:CB	2.97	0.43
4:V:620:GLU:C	4:V:625:THR:HA	2.44	0.43
4:V:1427:TYR:CB	5:W:1331:LEU:CA	2.97	0.43
4:V:1430:GLN:CA	5:W:1342:LEU:HA	2.49	0.43
4:D:1449:TRP:O	4:D:1450:GLU:C	2.62	0.43
5:W:958:ASP:C	5:W:960:VAL:CA	2.92	0.43
6:I:806:ASP:C	6:I:808:ASN:H	2.25	0.43
1:F:148:TRP:C	1:F:150:THR:N	2.74	0.43
2:G:374:GLN:O	2:G:377:ASN:CB	2.66	0.43
3:H:361:TRP:C	3:H:363:ARG:N	2.75	0.43
1:X:447:VAL:O	1:X:450:GLU:N	2.52	0.43
4:P:1449:TRP:O	4:P:1450:GLU:C	2.62	0.43
4:P:1489:HIS:CB	4:P:1492:GLY:N	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:1536:LEU:O	4:P:1539:LEU:CB	2.66	0.43
4:D:1653:SER:C	4:D:1655:THR:H	2.27	0.43
4:J:670:THR:C	4:J:672:ILE:N	2.77	0.43
4:J:869:GLU:HA	4:J:872:LEU:O	2.19	0.43
6:C:725:GLU:C	6:C:727:VAL:N	2.76	0.43
5:E:958:ASP:C	5:E:960:VAL:CA	2.92	0.43
1:X:140:LYS:O	1:X:149:GLY:HA3	2.19	0.43
3:Z:406:LEU:C	3:Z:408:SER:N	2.62	0.43
1:R:328:VAL:C	1:R:328:VAL:N	2.68	0.43
4:P:1439:ASP:C	6:O:181:ILE:O	2.61	0.43
4:P:1472:SER:C	4:P:1474:GLY:N	2.75	0.43
4:P:1653:SER:C	4:P:1655:THR:H	2.27	0.43
4:D:620:GLU:C	4:D:625:THR:HA	2.44	0.43
4:D:1542:PRO:O	4:D:1544:PRO:N	2.51	0.43
4:J:620:GLU:C	4:J:625:THR:HA	2.44	0.43
4:J:1542:PRO:O	4:J:1544:PRO:N	2.51	0.43
1:R:140:LYS:O	1:R:149:GLY:HA3	2.19	0.42
3:T:361:TRP:C	3:T:363:ARG:N	2.75	0.42
6:I:231:THR:C	6:I:233:VAL:N	2.75	0.42
1:X:405:ALA:HB3	1:X:406:ASP:H	1.16	0.42
1:X:489:LYS:O	1:X:492:GLU:CB	2.67	0.42
3:N:374:SER:CB	3:N:374:SER:H	2.26	0.42
4:V:69:LYS:CB	5:W:1183:MET:O	2.67	0.42
4:V:1432:ALA:CA	5:W:1336:GLU:CB	2.96	0.42
4:V:1472:SER:C	4:V:1474:GLY:N	2.75	0.42
4:D:1661:ARG:CB	6:C:447:ASP:CA	2.97	0.42
4:J:1491:ILE:C	4:J:1493:ARG:N	2.72	0.42
4:J:1653:SER:C	4:J:1655:THR:H	2.27	0.42
1:F:450:GLU:O	1:F:451:GLU:O	2.36	0.42
4:P:1506:VAL:O	4:P:1508:LYS:N	2.47	0.42
4:V:670:THR:C	4:V:672:ILE:N	2.77	0.42
4:D:1493:ARG:O	4:D:1494:MET:C	2.47	0.42
5:K:958:ASP:C	5:K:960:VAL:CA	2.92	0.42
1:R:450:GLU:O	1:R:451:GLU:O	2.36	0.42
4:V:61:VAL:CB	5:W:1178:LEU:CB	2.97	0.42
4:V:69:LYS:O	5:W:1185:ILE:N	2.49	0.42
4:V:774:ARG:C	4:V:776:TYR:H	2.27	0.42
1:X:328:VAL:C	1:X:328:VAL:N	2.68	0.42
1:X:367:THR:CA	1:X:367:THR:O	2.53	0.42
1:X:396:GLN:O	1:X:397:ARG:C	2.61	0.42
1:L:447:VAL:O	1:L:450:GLU:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:450:GLU:O	1:L:451:GLU:O	2.36	0.42
4:P:620:GLU:C	4:P:625:THR:HA	2.44	0.42
4:P:869:GLU:HA	4:P:872:LEU:O	2.19	0.42
4:P:1442:GLU:N	6:O:181:ILE:O	2.22	0.42
4:V:1511:GLN:O	4:V:1512:TRP:C	2.56	0.42
4:D:1487:ASP:O	4:D:1488:GLY:C	2.59	0.42
4:J:774:ARG:C	4:J:776:TYR:H	2.27	0.42
5:K:1016:ALA:H	6:I:814:MET:CA	2.30	0.42
5:E:221:THR:C	5:E:223:ASN:H	2.28	0.42
5:Q:205:LEU:C	5:Q:207:SER:CA	2.93	0.42
1:F:422:ASN:CB	1:F:423:ALA:CB	2.94	0.42
2:G:339:TYR:C	2:G:340:ALA:C	2.50	0.42
3:Z:409:PRO:CA	3:Z:410:LEU:N	2.71	0.42
1:L:489:LYS:O	1:L:492:GLU:CB	2.67	0.42
2:M:325:ALA:CA	2:M:326:LEU:N	2.68	0.42
2:M:366:GLU:CB	2:M:367:LEU:N	2.81	0.42
4:V:1544:PRO:O	4:V:1546:LEU:N	2.52	0.42
1:F:447:VAL:O	1:F:450:GLU:N	2.52	0.42
2:G:375:ALA:HB1	5:E:1090:SER:HA	2.00	0.42
1:L:451:GLU:O	1:L:452:ARG:C	2.63	0.42
4:P:783:PHE:HA	5:Q:1093:ASN:N	2.26	0.42
4:D:644:ALA:O	4:D:706:ALA:HB2	2.19	0.42
4:J:1393:ASP:HA	5:K:1341:VAL:N	2.33	0.42
4:J:1485:ALA:O	4:J:1487:ASP:N	2.52	0.42
4:J:1544:PRO:O	4:J:1546:LEU:N	2.52	0.42
5:K:1029:ARG:C	5:K:1034:LEU:N	2.78	0.42
6:O:480:PHE:O	6:O:484:ARG:CB	2.68	0.42
5:Q:1029:ARG:C	5:Q:1034:LEU:N	2.78	0.42
1:F:140:LYS:O	1:F:149:GLY:HA3	2.19	0.42
1:F:332:GLU:O	1:F:335:ARG:CB	2.68	0.42
2:G:366:GLU:CB	2:G:367:LEU:N	2.81	0.42
3:H:409:PRO:CA	3:H:410:LEU:N	2.72	0.42
1:X:451:GLU:O	1:X:452:ARG:C	2.63	0.42
3:Z:494:LEU:O	3:Z:498:LYS:CB	2.68	0.42
1:L:140:LYS:O	1:L:149:GLY:HA3	2.19	0.42
1:R:447:VAL:O	1:R:450:GLU:N	2.52	0.42
4:V:644:ALA:O	4:V:706:ALA:HB2	2.19	0.42
4:V:1424:SER:CB	5:W:1296:LEU:N	2.39	0.42
4:V:1485:ALA:O	4:V:1487:ASP:N	2.52	0.42
4:D:869:GLU:HA	4:D:872:LEU:O	2.19	0.42
4:D:1472:SER:C	4:D:1474:GLY:N	2.75	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1657:GLN:CA	6:C:451:SER:CB	2.94	0.42
4:D:1660:LEU:CB	6:C:448:TYR:O	2.68	0.42
6:U:480:PHE:O	6:U:484:ARG:CB	2.68	0.42
5:E:1029:ARG:C	5:E:1034:LEU:N	2.78	0.42
5:Q:221:THR:C	5:Q:223:ASN:H	2.28	0.42
1:F:492:GLU:C	1:F:492:GLU:N	2.66	0.42
1:X:492:GLU:C	1:X:492:GLU:N	2.66	0.42
1:R:451:GLU:O	1:R:452:ARG:C	2.63	0.42
2:S:342:PRO:C	2:S:344:ASP:H	2.25	0.42
3:T:494:LEU:O	3:T:498:LYS:CB	2.68	0.42
4:P:670:THR:C	4:P:672:ILE:N	2.77	0.42
4:V:1653:SER:C	4:V:1655:THR:H	2.27	0.42
4:D:1544:PRO:O	4:D:1546:LEU:N	2.52	0.42
6:C:303:ALA:CB	6:C:306:PRO:HA	2.50	0.42
4:P:774:ARG:C	4:P:776:TYR:H	2.27	0.42
4:P:1492:GLY:O	4:P:1495:LEU:N	2.53	0.42
4:D:670:THR:C	4:D:672:ILE:N	2.77	0.42
6:C:214:GLU:O	6:C:215:LEU:CB	2.68	0.42
6:U:214:GLU:O	6:U:215:LEU:CB	2.68	0.42
1:X:492:GLU:CA	1:X:492:GLU:O	2.52	0.41
4:P:1443:ALA:CB	6:O:182:GLU:O	2.68	0.41
4:P:1544:PRO:O	4:P:1546:LEU:N	2.52	0.41
4:J:61:VAL:CB	5:K:1208:CYS:O	2.68	0.41
5:K:441:PHE:C	5:K:443:LYS:N	2.76	0.41
5:Q:584:PHE:C	5:Q:586:THR:CA	2.93	0.41
1:R:489:LYS:O	1:R:492:GLU:CB	2.67	0.41
4:P:644:ALA:O	4:P:706:ALA:HB2	2.19	0.41
4:P:1537:GLN:C	4:P:1539:LEU:H	2.28	0.41
4:D:1489:HIS:CB	4:D:1492:GLY:N	2.81	0.41
4:D:1537:GLN:C	4:D:1539:LEU:H	2.29	0.41
4:J:1472:SER:C	4:J:1474:GLY:N	2.75	0.41
5:W:1029:ARG:C	5:W:1034:LEU:N	2.78	0.41
6:C:480:PHE:O	6:C:484:ARG:CB	2.68	0.41
5:E:584:PHE:C	5:E:586:THR:CA	2.93	0.41
5:Q:68:GLN:C	5:Q:74:SER:CB	2.93	0.41
1:F:451:GLU:O	1:F:452:ARG:C	2.63	0.41
1:L:332:GLU:O	1:L:335:ARG:CB	2.68	0.41
2:M:318:GLU:C	2:M:320:LYS:N	2.71	0.41
3:N:493:ALA:O	3:N:497:ARG:CB	2.68	0.41
3:N:494:LEU:O	3:N:498:LYS:CB	2.68	0.41
2:S:339:TYR:CA	2:S:340:ALA:N	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1661:ARG:CB	6:C:447:ASP:HA	2.50	0.41
4:J:644:ALA:O	4:J:706:ALA:HB2	2.19	0.41
4:J:1474:GLY:O	4:J:1475:ALA:C	2.55	0.41
5:W:584:PHE:C	5:W:586:THR:CA	2.93	0.41
5:K:584:PHE:C	5:K:586:THR:CA	2.93	0.41
6:O:214:GLU:O	6:O:215:LEU:CB	2.68	0.41
1:F:489:LYS:O	1:F:492:GLU:CB	2.67	0.41
3:H:493:ALA:O	3:H:497:ARG:CB	2.68	0.41
3:H:494:LEU:O	3:H:498:LYS:CB	2.68	0.41
1:X:460:LEU:O	1:X:461:ARG:O	2.39	0.41
3:Z:493:ALA:O	3:Z:497:ARG:CB	2.68	0.41
1:L:460:LEU:O	1:L:461:ARG:C	2.63	0.41
4:P:1544:PRO:O	4:P:1545:PRO:C	2.63	0.41
4:V:1421:LEU:CB	5:W:1371:VAL:CB	2.96	0.41
4:J:1537:GLN:C	4:J:1539:LEU:H	2.28	0.41
6:C:279:HIS:HA	6:C:283:LEU:HA	2.02	0.41
5:Q:404:LYS:HA	5:Q:405:PRO:HA	1.70	0.41
1:X:332:GLU:O	1:X:335:ARG:CB	2.68	0.41
3:Z:361:TRP:C	3:Z:363:ARG:N	2.75	0.41
4:D:744:PHE:C	4:D:746:ARG:CA	2.94	0.41
1:X:453:TYR:O	1:X:455:ILE:N	2.54	0.41
1:X:460:LEU:O	1:X:461:ARG:C	2.63	0.41
1:R:460:LEU:O	1:R:461:ARG:O	2.39	0.41
4:D:1544:PRO:O	4:D:1545:PRO:C	2.63	0.41
4:J:1394:SER:N	5:K:1342:LEU:CB	2.83	0.41
4:J:1449:TRP:O	4:J:1450:GLU:C	2.62	0.41
5:W:221:THR:C	5:W:223:ASN:H	2.28	0.41
5:K:68:GLN:C	5:K:74:SER:CB	2.93	0.41
5:Q:376:ARG:C	5:Q:380:ALA:CA	2.94	0.41
1:F:381:ASP:O	4:D:884:GLN:HA	2.20	0.41
1:F:489:LYS:O	1:F:490:LEU:C	2.63	0.41
1:L:422:ASN:CB	1:L:423:ALA:CB	2.94	0.41
1:R:332:GLU:O	1:R:335:ARG:CB	2.68	0.41
1:R:384:HIS:O	4:P:880:GLU:N	2.47	0.41
4:P:41:LYS:CB	4:V:776:TYR:HA	2.51	0.41
4:P:1670:LEU:C	6:O:453:PHE:N	2.76	0.41
6:I:480:PHE:O	6:I:484:ARG:CB	2.68	0.41
5:Q:230:GLY:C	5:Q:232:ASP:H	2.29	0.41
1:F:465:GLN:O	1:F:466:HIS:C	2.57	0.41
1:R:450:GLU:C	5:Q:1375:ALA:CB	2.94	0.41
4:V:1544:PRO:O	4:V:1545:PRO:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:V:1549:ALA:O	5:W:1362:VAL:CB	2.68	0.41
4:J:744:PHE:C	4:J:746:ARG:CA	2.94	0.41
4:J:1511:GLN:O	4:J:1512:TRP:C	2.57	0.41
4:J:1664:ASP:N	4:J:1667:ALA:CB	2.82	0.41
5:W:68:GLN:C	5:W:74:SER:CB	2.93	0.41
6:C:648:PRO:C	6:C:650:VAL:H	2.29	0.41
2:G:379:HIS:N	2:G:379:HIS:CB	2.72	0.41
1:L:421:LEU:O	1:L:422:ASN:C	2.63	0.41
1:L:453:TYR:O	1:L:455:ILE:N	2.54	0.41
1:L:465:GLN:O	1:L:466:HIS:C	2.57	0.41
3:N:361:TRP:C	3:N:363:ARG:N	2.75	0.41
3:T:493:ALA:O	3:T:497:ARG:CB	2.68	0.41
4:P:744:PHE:C	4:P:746:ARG:CA	2.94	0.41
4:P:1563:VAL:O	4:P:1569:GLY:HA3	2.21	0.41
4:V:1496:ALA:CB	5:W:1368:SER:H	2.31	0.41
4:D:1492:GLY:O	4:D:1495:LEU:N	2.53	0.41
4:J:1492:GLY:O	4:J:1495:LEU:N	2.53	0.41
5:K:205:LEU:C	5:K:207:SER:CA	2.93	0.41
6:I:214:GLU:O	6:I:215:LEU:CB	2.68	0.41
6:I:279:HIS:HA	6:I:283:LEU:HA	2.02	0.41
5:E:68:GLN:C	5:E:74:SER:CB	2.93	0.41
1:F:422:ASN:O	1:F:423:ALA:O	2.39	0.41
1:L:449:SER:C	1:L:451:GLU:N	2.79	0.41
4:P:1669:SER:O	6:O:451:SER:N	2.45	0.41
4:V:744:PHE:C	4:V:746:ARG:CA	2.94	0.41
4:V:1431:ILE:O	5:W:1336:GLU:CB	2.60	0.41
4:D:1474:GLY:O	4:D:1475:ALA:C	2.55	0.41
6:U:648:PRO:C	6:U:650:VAL:H	2.29	0.41
5:E:230:GLY:C	5:E:232:ASP:H	2.29	0.41
5:E:350:ASN:HA	5:E:353:SER:O	2.21	0.41
3:H:360:ALA:O	3:H:363:ARG:CB	2.69	0.40
3:H:490:GLN:HA	3:H:493:ALA:H	1.87	0.40
1:X:422:ASN:O	1:X:423:ALA:O	2.39	0.40
1:L:422:ASN:O	1:L:423:ALA:O	2.39	0.40
2:M:344:ASP:O	2:M:348:ILE:N	2.54	0.40
3:T:404:GLU:O	3:T:405:ASP:C	2.64	0.40
4:P:1485:ALA:O	4:P:1487:ASP:N	2.52	0.40
4:V:1492:GLY:O	4:V:1495:LEU:N	2.53	0.40
4:V:1537:GLN:C	4:V:1539:LEU:H	2.28	0.40
5:W:350:ASN:HA	5:W:353:SER:O	2.21	0.40
1:F:449:SER:C	1:F:451:GLU:N	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:460:LEU:O	1:F:461:ARG:C	2.63	0.40
3:Z:360:ALA:O	3:Z:363:ARG:CB	2.69	0.40
2:S:325:ALA:CA	2:S:326:LEU:N	2.68	0.40
4:P:1690:SER:O	6:O:301:LEU:N	2.54	0.40
4:V:1563:VAL:O	4:V:1569:GLY:HA3	2.21	0.40
5:K:350:ASN:HA	5:K:353:SER:O	2.21	0.40
6:I:234:LEU:CB	6:I:250:VAL:C	2.95	0.40
6:I:303:ALA:CB	6:I:306:PRO:HA	2.50	0.40
6:O:648:PRO:C	6:O:650:VAL:H	2.29	0.40
2:Y:344:ASP:O	2:Y:348:ILE:N	2.54	0.40
1:L:460:LEU:O	1:L:461:ARG:O	2.38	0.40
1:R:460:LEU:O	1:R:461:ARG:C	2.63	0.40
4:V:1489:HIS:CB	4:V:1492:GLY:N	2.81	0.40
5:K:230:GLY:C	5:K:232:ASP:H	2.29	0.40
6:I:648:PRO:C	6:I:650:VAL:H	2.29	0.40
2:G:344:ASP:O	2:G:348:ILE:N	2.54	0.40
2:S:344:ASP:O	2:S:348:ILE:N	2.54	0.40
3:T:360:ALA:O	3:T:363:ARG:CB	2.69	0.40
4:P:888:PRO:C	4:P:892:LYS:N	2.80	0.40
4:V:1428:TYR:C	5:W:1338:PRO:N	2.79	0.40
5:W:205:LEU:C	5:W:207:SER:CA	2.93	0.40
5:K:221:THR:C	5:K:223:ASN:H	2.28	0.40
5:K:326:ALA:CB	5:K:387:LEU:CB	2.95	0.40
5:K:542:HIS:O	5:K:543:GLN:CB	2.69	0.40
6:O:234:LEU:CB	6:O:250:VAL:C	2.95	0.40
6:O:303:ALA:CB	6:O:306:PRO:HA	2.50	0.40
5:E:326:ALA:CB	5:E:387:LEU:CB	2.95	0.40
1:F:460:LEU:O	1:F:461:ARG:O	2.39	0.40
2:G:333:PRO:O	2:G:334:GLY:C	2.62	0.40
3:H:404:GLU:O	3:H:405:ASP:C	2.64	0.40
2:S:320:LYS:C	2:S:322:ALA:N	2.78	0.40
4:V:888:PRO:C	4:V:892:LYS:N	2.80	0.40
4:V:1426:LEU:CA	5:W:1341:VAL:CB	2.99	0.40
4:J:1520:GLY:O	4:J:1521:TYR:C	2.62	0.40
6:I:455:VAL:C	6:I:460:PHE:CB	2.95	0.40
6:U:447:ASP:C	6:U:448:TYR:CA	2.94	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	F	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
1	L	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
1	R	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
1	X	329/507 (65%)	295 (90%)	16 (5%)	18 (6%)	1	15
2	G	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
2	M	169/599 (28%)	153 (90%)	11 (6%)	5 (3%)	3	23
2	S	169/599 (28%)	153 (90%)	10 (6%)	6 (4%)	2	20
2	Y	169/599 (28%)	153 (90%)	10 (6%)	6 (4%)	2	20
3	H	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
3	N	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
3	T	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
3	Z	167/522 (32%)	152 (91%)	8 (5%)	7 (4%)	2	17
4	D	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
4	J	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
4	P	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
4	V	972/2012 (48%)	911 (94%)	46 (5%)	15 (2%)	8	40
5	E	1027/1391 (74%)	947 (92%)	58 (6%)	22 (2%)	5	30
5	K	1027/1391 (74%)	947 (92%)	58 (6%)	22 (2%)	5	30
5	Q	1027/1391 (74%)	947 (92%)	58 (6%)	22 (2%)	5	30
5	W	1027/1391 (74%)	947 (92%)	58 (6%)	22 (2%)	5	30
6	C	578/819 (71%)	486 (84%)	53 (9%)	39 (7%)	1	12
6	I	578/819 (71%)	486 (84%)	53 (9%)	39 (7%)	1	12
6	O	578/819 (71%)	486 (84%)	52 (9%)	40 (7%)	1	11
6	U	578/819 (71%)	486 (84%)	53 (9%)	39 (7%)	1	12
All	All	12968/23400 (55%)	11776 (91%)	765 (6%)	427 (3%)	5	21

All (427) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	F	148	TRP
1	F	318	ASP
1	F	403	ILE
1	F	405	ALA
1	F	451	GLU
1	F	453	TYR
1	F	454	TYR
1	F	458	ASP
1	F	464	LYS
2	G	276	SER
2	G	327	ARG
2	G	335	LEU
3	H	426	ALA
3	H	466	ASP
1	X	148	TRP
1	X	318	ASP
1	X	403	ILE
1	X	405	ALA
1	X	451	GLU
1	X	453	TYR
1	X	454	TYR
1	X	458	ASP
1	X	464	LYS
2	Y	276	SER
2	Y	327	ARG
2	Y	335	LEU
3	Z	426	ALA
3	Z	466	ASP
1	L	148	TRP
1	L	318	ASP
1	L	403	ILE
1	L	405	ALA
1	L	451	GLU
1	L	453	TYR
1	L	454	TYR
1	L	458	ASP
1	L	464	LYS
2	M	276	SER
2	M	327	ARG
2	M	335	LEU
3	N	426	ALA
3	N	466	ASP

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Mol	Chain	Res	Type
1	R	148	TRP
1	R	318	ASP
1	R	403	ILE
1	R	405	ALA
1	R	451	GLU
1	R	453	TYR
1	R	454	TYR
1	R	458	ASP
1	R	464	LYS
2	S	276	SER
2	S	327	ARG
2	S	335	LEU
3	T	426	ALA
3	T	466	ASP
4	P	47	LYS
4	P	52	SER
4	P	1451	ARG
4	P	1637	GLN
4	P	1662	CYS
4	P	1664	ASP
4	V	47	LYS
4	V	52	SER
4	V	1451	ARG
4	V	1637	GLN
4	V	1662	CYS
4	V	1664	ASP
4	D	47	LYS
4	D	52	SER
4	D	1451	ARG
4	D	1637	GLN
4	D	1662	CYS
4	D	1664	ASP
4	J	47	LYS
4	J	52	SER
4	J	1451	ARG
4	J	1637	GLN
4	J	1662	CYS
4	J	1664	ASP
5	W	332	ARG
5	W	443	LYS
5	W	543	GLN
5	W	802	GLN

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Mol	Chain	Res	Type
5	W	1320	PRO
5	W	1343	ASN
5	W	1351	ASN
5	W	1369	SER
5	K	260	SER
5	K	332	ARG
5	K	443	LYS
5	K	543	GLN
5	K	802	GLN
5	K	1320	PRO
5	K	1343	ASN
5	K	1351	ASN
5	K	1369	SER
6	C	252	MET
6	C	278	LEU
6	C	301	LEU
6	C	382	ASN
6	C	383	THR
6	C	587	LEU
6	C	592	SER
6	C	603	SER
6	C	623	GLU
6	C	652	GLN
6	C	655	ALA
6	C	656	PRO
6	C	661	GLU
6	C	662	ARG
6	C	723	ASN
6	C	764	LYS
6	I	252	MET
6	I	278	LEU
6	I	301	LEU
6	I	382	ASN
6	I	383	THR
6	I	587	LEU
6	I	592	SER
6	I	603	SER
6	I	623	GLU
6	I	652	GLN
6	I	655	ALA
6	I	656	PRO
6	I	661	GLU

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Mol	Chain	Res	Type
6	I	662	ARG
6	I	723	ASN
6	I	764	LYS
6	O	252	MET
6	O	278	LEU
6	O	301	LEU
6	O	382	ASN
6	O	383	THR
6	O	587	LEU
6	O	592	SER
6	O	603	SER
6	O	623	GLU
6	O	652	GLN
6	O	655	ALA
6	O	656	PRO
6	O	661	GLU
6	O	662	ARG
6	O	723	ASN
6	O	764	LYS
6	U	252	MET
6	U	278	LEU
6	U	301	LEU
6	U	382	ASN
6	U	383	THR
6	U	587	LEU
6	U	592	SER
6	U	603	SER
6	U	623	GLU
6	U	652	GLN
6	U	655	ALA
6	U	656	PRO
6	U	661	GLU
6	U	662	ARG
6	U	723	ASN
6	U	764	LYS
5	E	332	ARG
5	E	443	LYS
5	E	543	GLN
5	E	802	GLN
5	E	1320	PRO
5	E	1343	ASN
5	E	1351	ASN

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Mol	Chain	Res	Type
5	E	1369	SER
5	Q	332	ARG
5	Q	443	LYS
5	Q	543	GLN
5	Q	802	GLN
5	Q	1320	PRO
5	Q	1343	ASN
5	Q	1351	ASN
5	Q	1369	SER
1	F	301	PRO
1	F	461	ARG
1	F	492	GLU
2	G	326	LEU
2	G	378	SER
3	H	411	GLU
3	H	494	LEU
1	X	301	PRO
1	X	461	ARG
1	X	492	GLU
2	Y	326	LEU
2	Y	378	SER
3	Z	411	GLU
3	Z	494	LEU
1	L	301	PRO
1	L	461	ARG
1	L	492	GLU
2	M	326	LEU
2	M	378	SER
3	N	411	GLU
3	N	494	LEU
1	R	301	PRO
1	R	461	ARG
1	R	492	GLU
2	S	326	LEU
2	S	378	SER
3	T	411	GLU
3	T	494	LEU
4	P	39	LEU
4	P	718	SER
4	V	39	LEU
4	V	718	SER
4	D	39	LEU

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Mol	Chain	Res	Type
4	D	718	SER
4	J	39	LEU
4	J	718	SER
5	W	260	SER
5	W	312	MET
5	W	415	LYS
5	W	961	GLY
5	W	1235	LEU
5	W	1346	ARG
5	K	312	MET
5	K	415	LYS
5	K	961	GLY
5	K	1235	LEU
5	K	1346	ARG
6	C	179	ASP
6	C	215	LEU
6	C	219	SER
6	C	354	GLU
6	C	368	GLU
6	C	402	ASN
6	C	404	SER
6	C	559	ASP
6	C	602	THR
6	C	649	VAL
6	C	726	SER
6	C	754	ASN
6	I	179	ASP
6	I	215	LEU
6	I	219	SER
6	I	354	GLU
6	I	368	GLU
6	I	402	ASN
6	I	404	SER
6	I	559	ASP
6	I	602	THR
6	I	649	VAL
6	I	679	ILE
6	I	726	SER
6	I	754	ASN
6	O	179	ASP
6	O	215	LEU
6	O	219	SER

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Mol	Chain	Res	Type
6	O	354	GLU
6	O	368	GLU
6	O	402	ASN
6	O	404	SER
6	O	559	ASP
6	O	602	THR
6	O	649	VAL
6	O	726	SER
6	O	754	ASN
6	U	179	ASP
6	U	215	LEU
6	U	219	SER
6	U	354	GLU
6	U	368	GLU
6	U	402	ASN
6	U	404	SER
6	U	559	ASP
6	U	602	THR
6	U	649	VAL
6	U	679	ILE
6	U	726	SER
6	U	754	ASN
5	E	260	SER
5	E	312	MET
5	E	415	LYS
5	E	961	GLY
5	E	1235	LEU
5	E	1346	ARG
5	Q	260	SER
5	Q	312	MET
5	Q	415	LYS
5	Q	961	GLY
5	Q	1235	LEU
5	Q	1346	ARG
1	F	299	ASN
3	H	465	ALA
1	X	299	ASN
3	Z	465	ALA
1	L	299	ASN
1	L	459	LEU
3	N	465	ALA
1	R	299	ASN

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Mol	Chain	Res	Type
3	T	465	ALA
4	P	775	ASP
4	V	775	ASP
4	D	775	ASP
4	J	775	ASP
5	W	204	PRO
5	W	1365	GLN
5	K	204	PRO
5	K	1365	GLN
6	C	308	LEU
6	C	482	MET
6	C	679	ILE
6	C	734	PHE
6	I	308	LEU
6	I	482	MET
6	I	734	PHE
6	O	308	LEU
6	O	482	MET
6	O	679	ILE
6	O	734	PHE
6	U	308	LEU
6	U	482	MET
6	U	734	PHE
5	E	204	PRO
5	E	1365	GLN
5	Q	204	PRO
5	Q	1365	GLN
1	F	234	PRO
1	F	450	GLU
1	F	459	LEU
3	H	497	ARG
1	X	234	PRO
1	X	450	GLU
1	X	459	LEU
1	L	234	PRO
1	L	450	GLU
3	N	497	ARG
1	R	234	PRO
1	R	450	GLU
1	R	459	LEU
3	T	497	ARG
4	P	58	PRO

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Mol	Chain	Res	Type
4	P	536	VAL
4	P	1450	GLU
4	V	58	PRO
4	V	536	VAL
4	V	1450	GLU
4	D	58	PRO
4	D	536	VAL
4	D	1450	GLU
4	J	58	PRO
4	J	536	VAL
4	J	1450	GLU
5	W	40	TYR
5	K	40	TYR
6	C	446	GLU
6	C	561	GLN
6	I	446	GLU
6	I	561	GLN
6	O	446	GLU
6	O	561	GLN
6	U	446	GLU
6	U	561	GLN
5	E	40	TYR
5	Q	40	TYR
3	H	464	PRO
3	Z	464	PRO
3	Z	497	ARG
3	N	464	PRO
3	T	464	PRO
4	P	319	LEU
4	P	1519	SER
4	V	319	LEU
4	V	1519	SER
4	D	319	LEU
4	D	1519	SER
4	J	319	LEU
4	J	1519	SER
5	W	278	PRO
5	W	910	GLN
5	K	278	PRO
5	K	910	GLN
6	C	460	PHE
6	C	800	PRO

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Mol	Chain	Res	Type
6	I	460	PHE
6	I	800	PRO
6	O	460	PHE
6	O	800	PRO
6	U	460	PHE
6	U	800	PRO
5	E	278	PRO
5	E	910	GLN
5	Q	278	PRO
5	Q	910	GLN
1	F	145	GLN
1	X	145	GLN
2	Y	377	ASN
1	L	145	GLN
1	R	145	GLN
2	S	377	ASN
5	W	158	GLN
5	K	158	GLN
6	C	429	SER
6	I	429	SER
6	O	429	SER
6	U	429	SER
5	E	158	GLN
5	Q	158	GLN
4	P	195	VAL
4	V	195	VAL
4	D	195	VAL
4	J	195	VAL
6	C	430	SER
6	I	430	SER
6	O	430	SER
6	U	430	SER
5	W	942	PRO
5	K	942	PRO
5	E	942	PRO
5	Q	942	PRO
5	W	76	PRO
5	K	76	PRO
6	C	276	GLY
6	I	276	GLY
6	O	276	GLY
6	U	276	GLY

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Mol	Chain	Res	Type
5	E	76	PRO
5	Q	76	PRO
1	F	424	PRO
1	X	424	PRO
1	L	424	PRO
1	R	424	PRO
6	O	346	GLY

5.3.2 Protein sidechains [i](#)

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

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [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](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	F	5

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Mol	Chain	Number of breaks
1	X	5
1	L	5
1	R	5
2	G	3
2	S	3
2	Y	3
2	M	3
3	H	3
3	Z	3
3	N	3
3	T	3
6	C	2
6	I	2
6	O	2
6	U	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	C	483:GLU	C	484:ARG	N	4.02
1	I	483:GLU	C	484:ARG	N	4.02
1	O	483:GLU	C	484:ARG	N	4.02
1	U	483:GLU	C	484:ARG	N	4.02
1	C	447:ASP	C	448:TYR	N	3.63
1	I	447:ASP	C	448:TYR	N	3.63
1	O	447:ASP	C	448:TYR	N	3.63
1	U	447:ASP	C	448:TYR	N	3.63
1	G	379:HIS	C	380:ILE	N	1.99
1	S	379:HIS	C	380:ILE	N	1.99
1	Y	379:HIS	C	380:ILE	N	1.98
1	M	379:HIS	C	380:ILE	N	1.98
1	F	458:ASP	C	459:LEU	N	1.82
1	X	458:ASP	C	459:LEU	N	1.82
1	L	458:ASP	C	459:LEU	N	1.82
1	R	458:ASP	C	459:LEU	N	1.82
1	G	339:TYR	C	340:ALA	N	1.72
1	Y	339:TYR	C	340:ALA	N	1.72
1	M	339:TYR	C	340:ALA	N	1.72
1	S	339:TYR	C	340:ALA	N	1.72
1	F	492:GLU	C	493:HIS	N	1.69
1	H	411:GLU	C	412:GLU	N	1.69
1	X	492:GLU	C	493:HIS	N	1.69
1	Z	411:GLU	C	412:GLU	N	1.69

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	L	492:GLU	C	493:HIS	N	1.69
1	N	411:GLU	C	412:GLU	N	1.69
1	R	492:GLU	C	493:HIS	N	1.69
1	T	411:GLU	C	412:GLU	N	1.69
1	F	454:TYR	C	455:ILE	N	1.64
1	R	454:TYR	C	455:ILE	N	1.64
1	X	454:TYR	C	455:ILE	N	1.63
1	L	454:TYR	C	455:ILE	N	1.63
1	G	378:SER	C	379:HIS	N	1.60
1	Y	378:SER	C	379:HIS	N	1.60
1	M	378:SER	C	379:HIS	N	1.60
1	S	378:SER	C	379:HIS	N	1.60
1	H	412:GLU	C	413:LEU	N	1.16
1	Z	412:GLU	C	413:LEU	N	1.16
1	N	412:GLU	C	413:LEU	N	1.16
1	T	412:GLU	C	413:LEU	N	1.15
1	H	408:SER	C	409:PRO	N	1.13
1	Z	408:SER	C	409:PRO	N	1.13
1	N	408:SER	C	409:PRO	N	1.13
1	T	408:SER	C	409:PRO	N	1.13
1	F	455:ILE	C	456:ASP	N	0.99
1	X	455:ILE	C	456:ASP	N	0.99
1	L	455:ILE	C	456:ASP	N	0.99
1	R	455:ILE	C	456:ASP	N	0.99
1	F	459:LEU	C	460:LEU	N	0.98
1	X	459:LEU	C	460:LEU	N	0.98
1	L	459:LEU	C	460:LEU	N	0.98
1	R	459:LEU	C	460:LEU	N	0.98

6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-12814. 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](#)

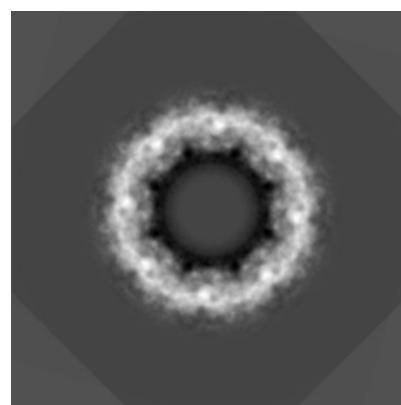
6.1.1 Primary map



X



Y



Z

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

6.2 Central slices [i](#)

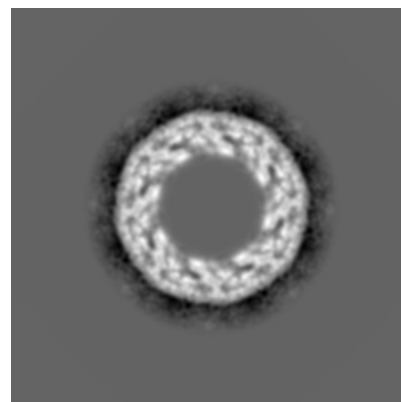
6.2.1 Primary map



X Index: 160



Y Index: 160



Z Index: 160

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

6.3 Largest variance slices [i](#)

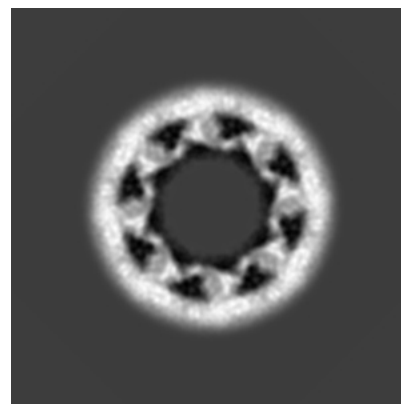
6.3.1 Primary map



X Index: 100



Y Index: 220

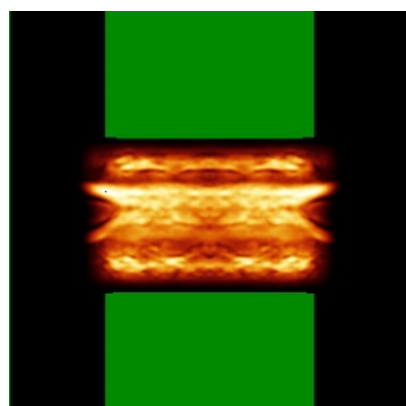


Z Index: 174

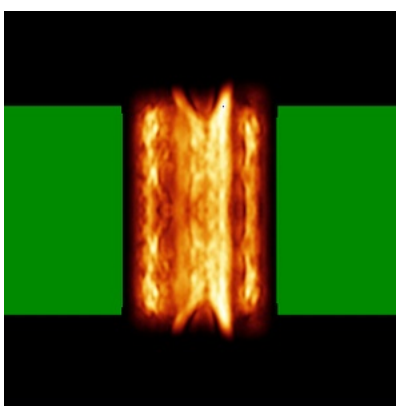
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

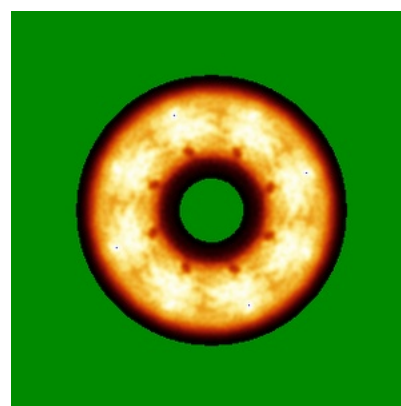
6.4.1 Primary map



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 [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.44. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

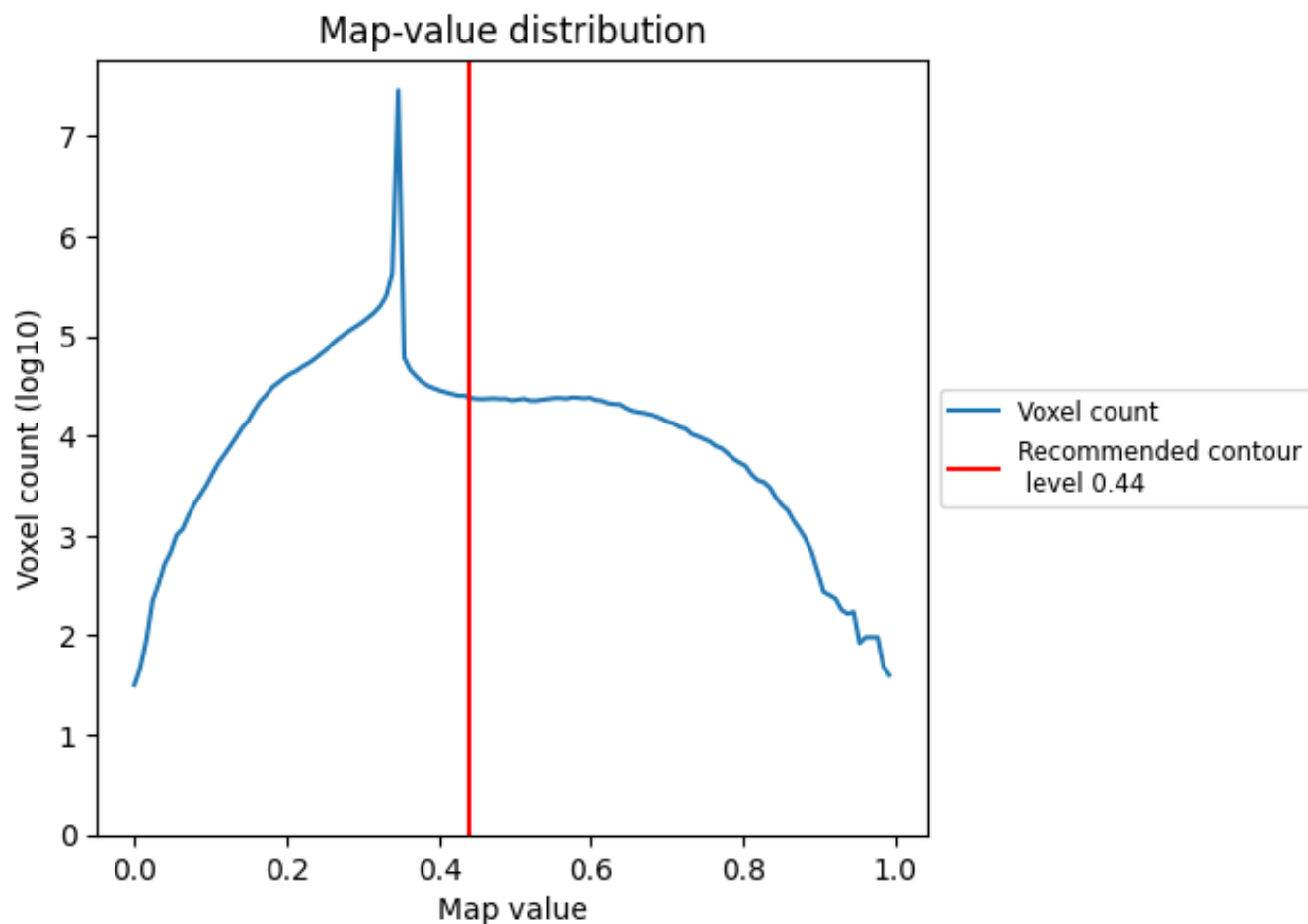
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

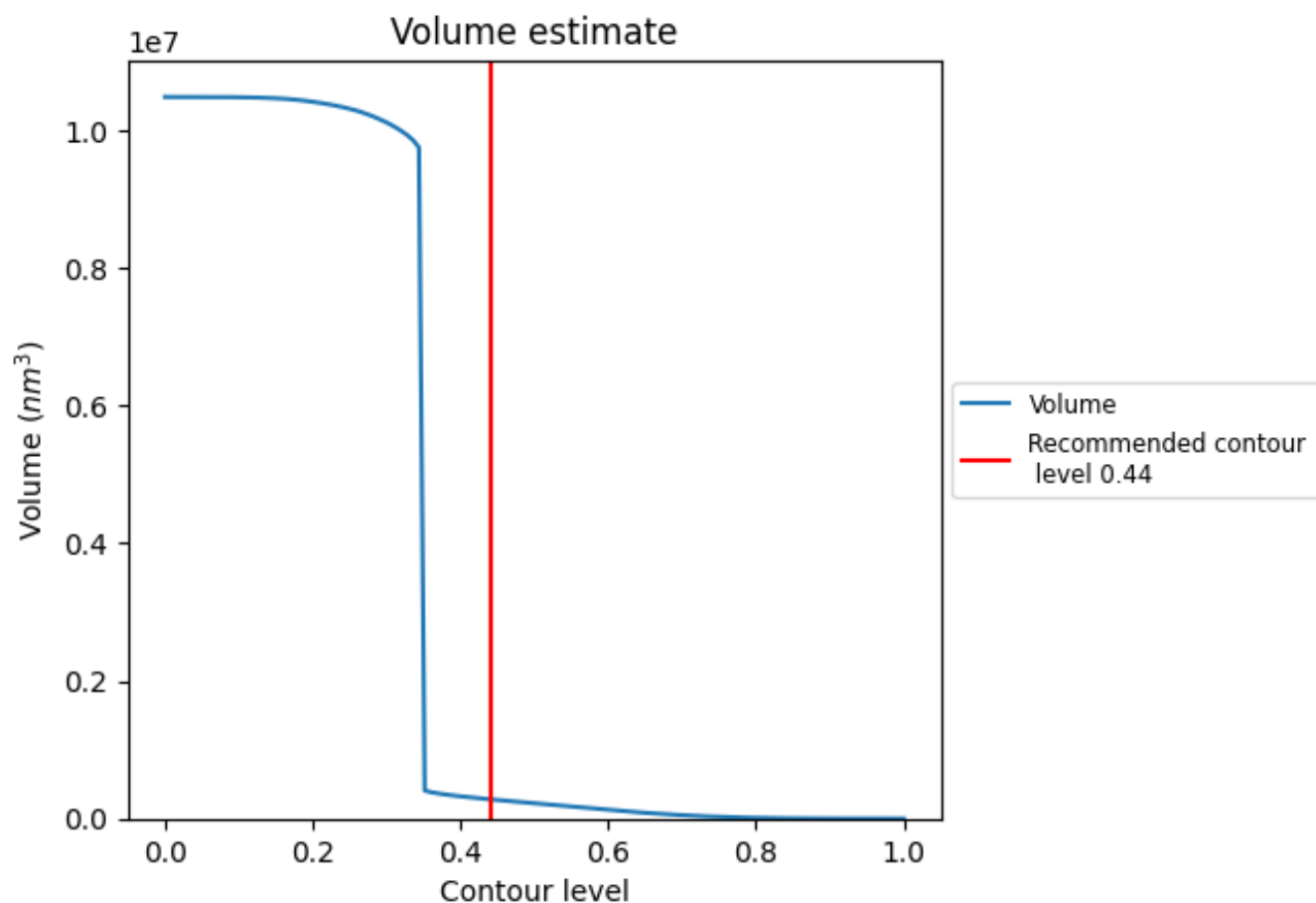
This section contains the results of statistical analysis of the map.

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.

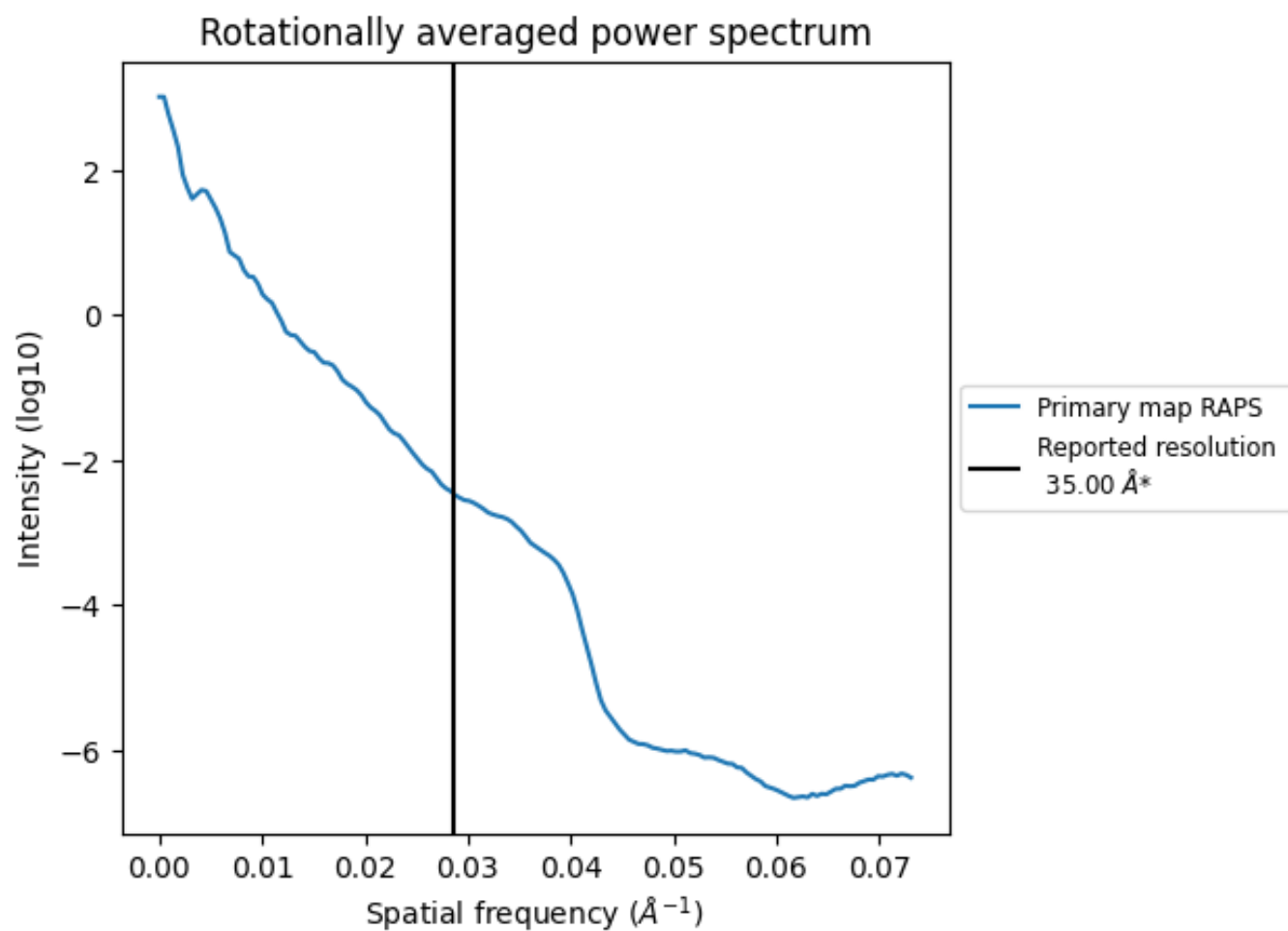
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 280168 nm^3 ; this corresponds to an approximate mass of 253083 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.029 Å⁻¹

8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-12814 and PDB model 7PER. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlays

9.1.1 Map-model overlay [i](#)

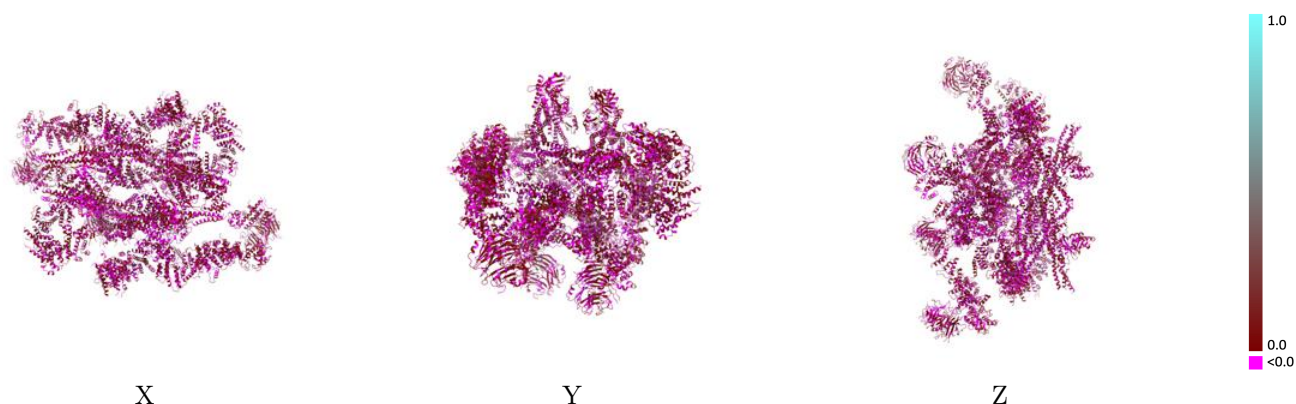


9.1.2 Map-model assembly overlay [i](#)



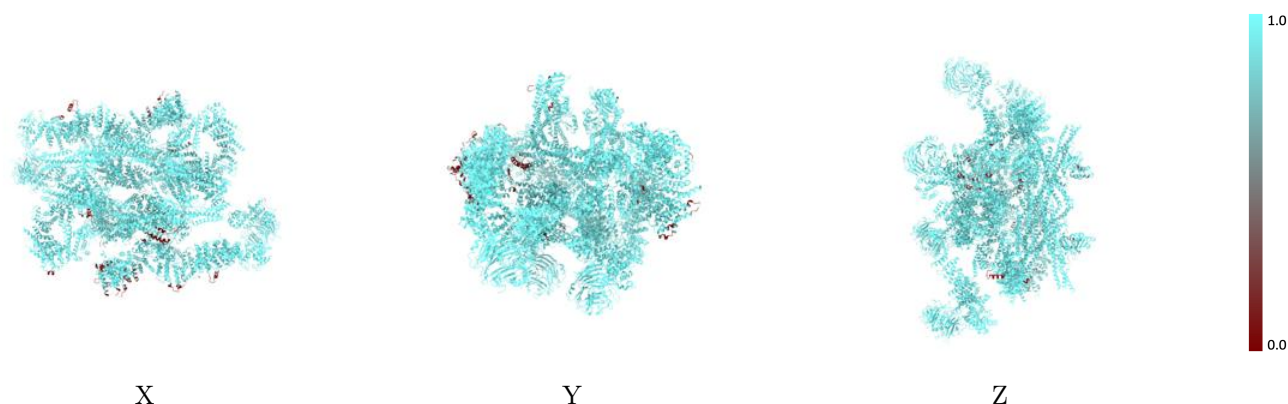
The images above show the 3D surface view of the map at the recommended contour level 0.44 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



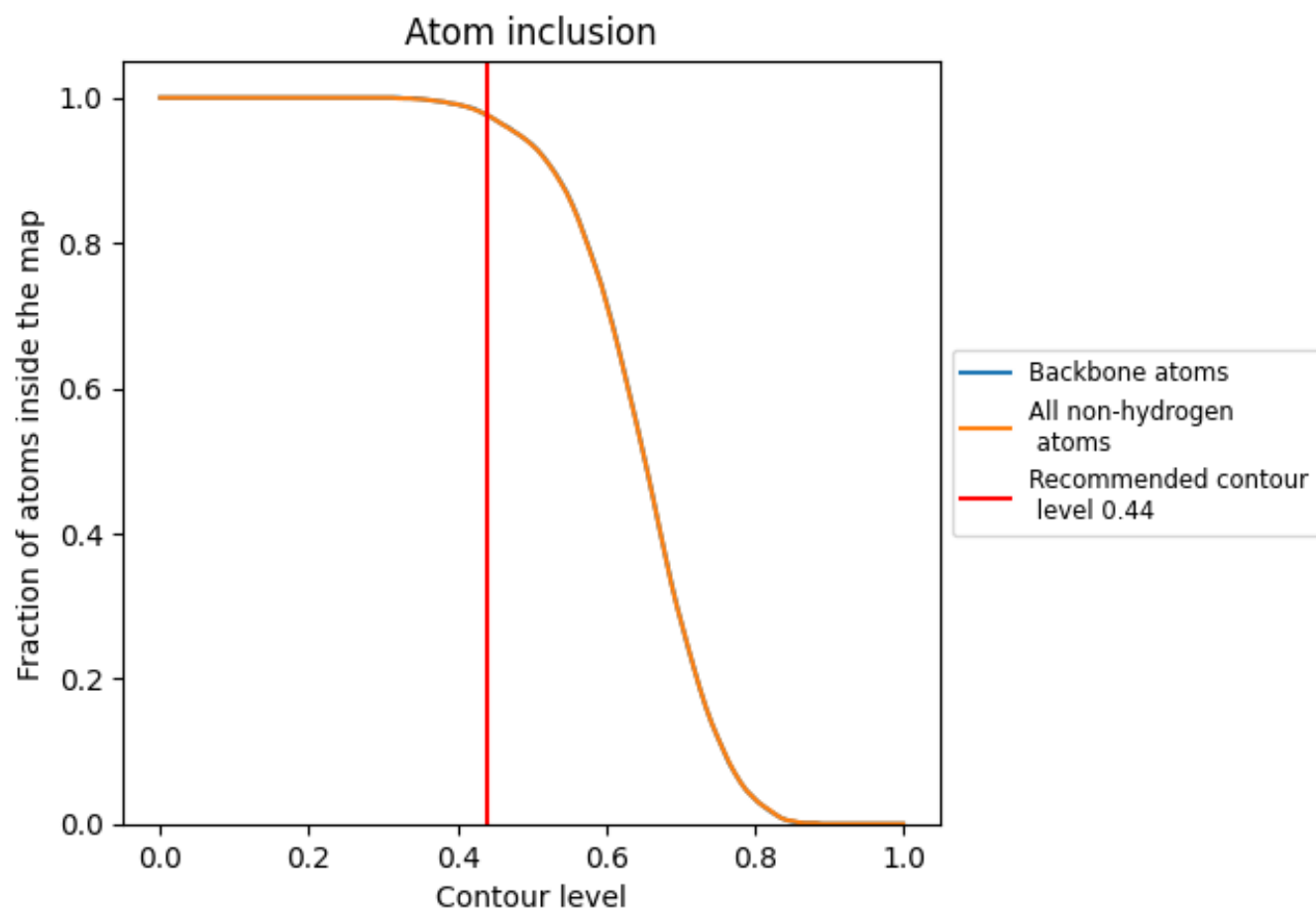
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.44).

9.4 Atom inclusion [i](#)



At the recommended contour level, 98% of all backbone atoms, 98% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.44) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9760	 0.0340
C	 0.9770	 0.0310
D	 0.9850	 0.0360
E	 1.0000	 0.0310
F	 0.9600	 0.0070
G	 0.9980	 0.0190
H	 1.0000	 0.0000
I	 0.9990	 0.0460
J	 0.8800	 0.0370
K	 0.9770	 0.0300
L	 0.9040	 0.0160
M	 0.9190	 -0.0030
N	 0.9810	 0.0550
O	 1.0000	 0.0250
P	 0.9990	 0.0450
Q	 0.9920	 0.0430
R	 0.9930	 0.0330
S	 1.0000	 0.0350
T	 1.0000	 0.0340
U	 0.9980	 0.0350
V	 0.9320	 0.0440
W	 0.9990	 0.0320
X	 0.9920	 0.0320
Y	 1.0000	 0.0160
Z	 1.0000	 0.0670

