



Full wwPDB EM Validation Report ⓘ

Mar 24, 2026 – 07:05 PM UTC

PDB ID : 3IYF / pdb_00003iyf
EMDB ID : EMD-5140
Title : Atomic Model of the Lidless Mm-cpn in the Open State
Authors : Zhang, J.; Baker, M.L.; Schroeder, G.; Douglas, N.R.; Reissmann, S.; Jakana, J.; Dougherty, M.; Fu, C.J.; Levitt, M.; Ludtke, S.J.; Frydman, J.; Chiu, W.
Deposited on : 2009-10-23
Resolution : 8.00 Å(reported)

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

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

A user guide is available at

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

The types of validation reports are described at

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

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

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

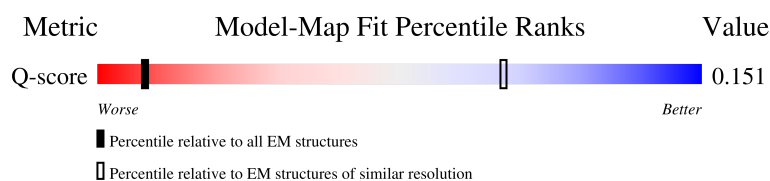
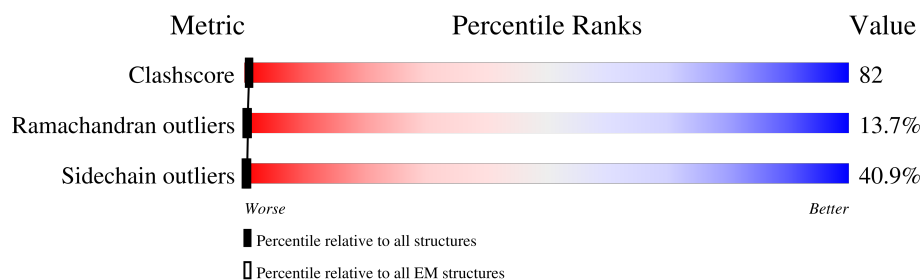
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 8.00 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	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	361 (7.50 - 8.50)

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	A	521	
1	B	521	
1	C	521	
1	D	521	

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Mol	Chain	Length	Quality of chain
1	E	521	
1	F	521	
1	G	521	
1	H	521	
1	I	521	
1	J	521	
1	K	521	
1	L	521	
1	M	521	
1	N	521	
1	O	521	
1	P	521	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 58624 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 Chaperonin.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	491	Total	C	N	O	S	0	0
			3664	2272	635	733	24		
1	B	491	Total	C	N	O	S	0	0
			3664	2272	635	733	24		
1	C	491	Total	C	N	O	S	0	0
			3664	2272	635	733	24		
1	D	491	Total	C	N	O	S	0	0
			3664	2272	635	733	24		
1	E	491	Total	C	N	O	S	0	0
			3664	2272	635	733	24		
1	F	491	Total	C	N	O	S	0	0
			3664	2272	635	733	24		
1	G	491	Total	C	N	O	S	0	0
			3664	2272	635	733	24		
1	H	491	Total	C	N	O	S	0	0
			3664	2272	635	733	24		
1	I	491	Total	C	N	O	S	0	0
			3664	2272	635	733	24		
1	J	491	Total	C	N	O	S	0	0
			3664	2272	635	733	24		
1	K	491	Total	C	N	O	S	0	0
			3664	2272	635	733	24		
1	L	491	Total	C	N	O	S	0	0
			3664	2272	635	733	24		
1	M	491	Total	C	N	O	S	0	0
			3664	2272	635	733	24		
1	N	491	Total	C	N	O	S	0	0
			3664	2272	635	733	24		
1	O	491	Total	C	N	O	S	0	0
			3664	2272	635	733	24		
1	P	491	Total	C	N	O	S	0	0
			3664	2272	635	733	24		

There are 80 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	241	GLU	-	linker	UNP Q877G8
A	242	THR	-	linker	UNP Q877G8
A	243	ALA	-	linker	UNP Q877G8
A	244	SER	-	linker	UNP Q877G8
A	245	GLU	-	linker	UNP Q877G8
B	241	GLU	-	linker	UNP Q877G8
B	242	THR	-	linker	UNP Q877G8
B	243	ALA	-	linker	UNP Q877G8
B	244	SER	-	linker	UNP Q877G8
B	245	GLU	-	linker	UNP Q877G8
C	241	GLU	-	linker	UNP Q877G8
C	242	THR	-	linker	UNP Q877G8
C	243	ALA	-	linker	UNP Q877G8
C	244	SER	-	linker	UNP Q877G8
C	245	GLU	-	linker	UNP Q877G8
D	241	GLU	-	linker	UNP Q877G8
D	242	THR	-	linker	UNP Q877G8
D	243	ALA	-	linker	UNP Q877G8
D	244	SER	-	linker	UNP Q877G8
D	245	GLU	-	linker	UNP Q877G8
E	241	GLU	-	linker	UNP Q877G8
E	242	THR	-	linker	UNP Q877G8
E	243	ALA	-	linker	UNP Q877G8
E	244	SER	-	linker	UNP Q877G8
E	245	GLU	-	linker	UNP Q877G8
F	241	GLU	-	linker	UNP Q877G8
F	242	THR	-	linker	UNP Q877G8
F	243	ALA	-	linker	UNP Q877G8
F	244	SER	-	linker	UNP Q877G8
F	245	GLU	-	linker	UNP Q877G8
G	241	GLU	-	linker	UNP Q877G8
G	242	THR	-	linker	UNP Q877G8
G	243	ALA	-	linker	UNP Q877G8
G	244	SER	-	linker	UNP Q877G8
G	245	GLU	-	linker	UNP Q877G8
H	241	GLU	-	linker	UNP Q877G8
H	242	THR	-	linker	UNP Q877G8
H	243	ALA	-	linker	UNP Q877G8
H	244	SER	-	linker	UNP Q877G8
H	245	GLU	-	linker	UNP Q877G8
I	241	GLU	-	linker	UNP Q877G8
I	242	THR	-	linker	UNP Q877G8
I	243	ALA	-	linker	UNP Q877G8

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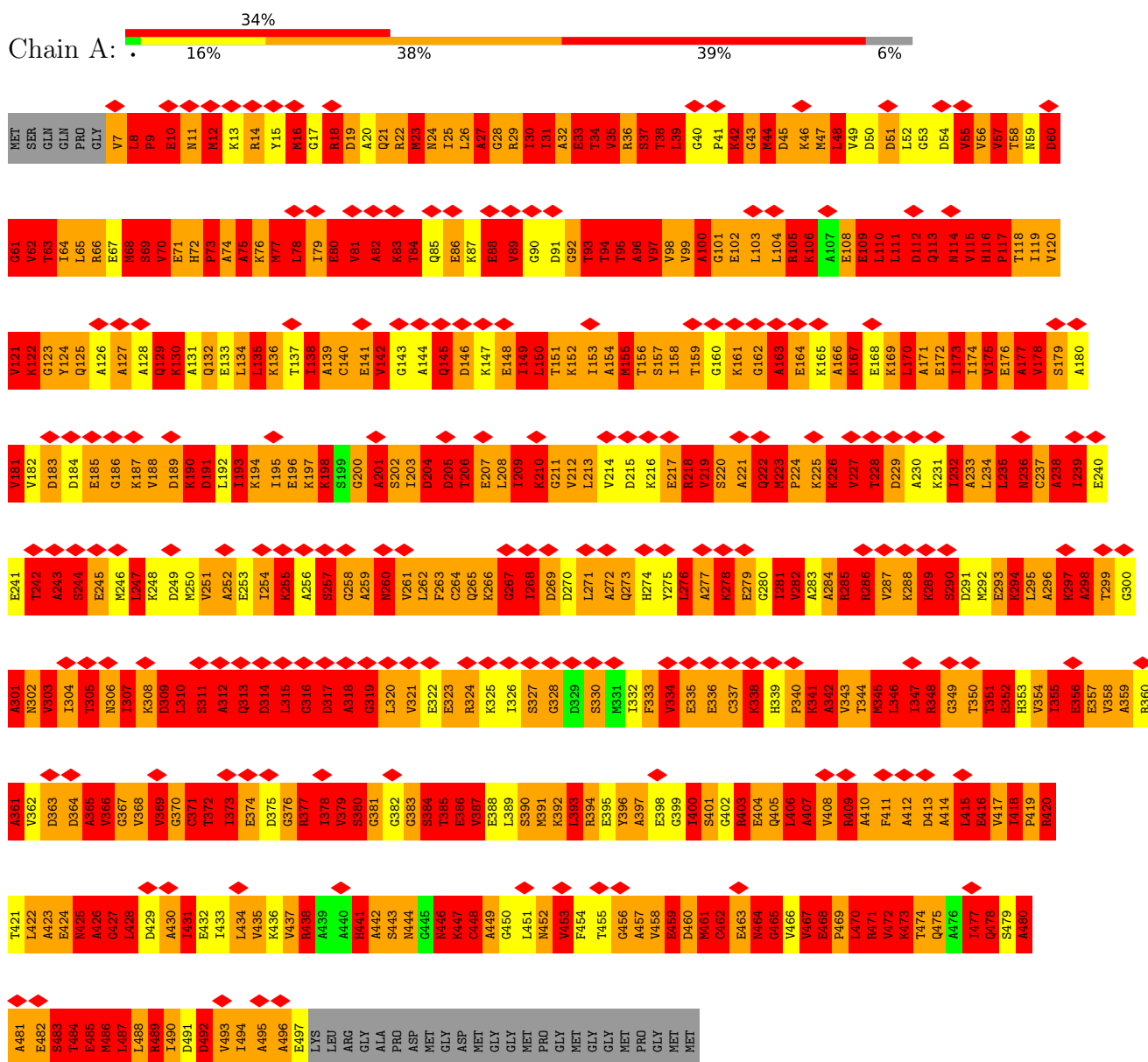
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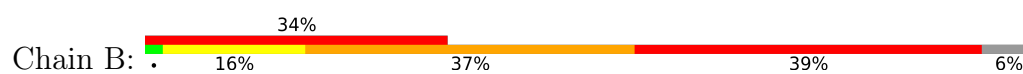
Chain	Residue	Modelled	Actual	Comment	Reference
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I	245	GLU	-	linker	UNP Q877G8
J	241	GLU	-	linker	UNP Q877G8
J	242	THR	-	linker	UNP Q877G8
J	243	ALA	-	linker	UNP Q877G8
J	244	SER	-	linker	UNP Q877G8
J	245	GLU	-	linker	UNP Q877G8
K	241	GLU	-	linker	UNP Q877G8
K	242	THR	-	linker	UNP Q877G8
K	243	ALA	-	linker	UNP Q877G8
K	244	SER	-	linker	UNP Q877G8
K	245	GLU	-	linker	UNP Q877G8
L	241	GLU	-	linker	UNP Q877G8
L	242	THR	-	linker	UNP Q877G8
L	243	ALA	-	linker	UNP Q877G8
L	244	SER	-	linker	UNP Q877G8
L	245	GLU	-	linker	UNP Q877G8
M	241	GLU	-	linker	UNP Q877G8
M	242	THR	-	linker	UNP Q877G8
M	243	ALA	-	linker	UNP Q877G8
M	244	SER	-	linker	UNP Q877G8
M	245	GLU	-	linker	UNP Q877G8
N	241	GLU	-	linker	UNP Q877G8
N	242	THR	-	linker	UNP Q877G8
N	243	ALA	-	linker	UNP Q877G8
N	244	SER	-	linker	UNP Q877G8
N	245	GLU	-	linker	UNP Q877G8
O	241	GLU	-	linker	UNP Q877G8
O	242	THR	-	linker	UNP Q877G8
O	243	ALA	-	linker	UNP Q877G8
O	244	SER	-	linker	UNP Q877G8
O	245	GLU	-	linker	UNP Q877G8
P	241	GLU	-	linker	UNP Q877G8
P	242	THR	-	linker	UNP Q877G8
P	243	ALA	-	linker	UNP Q877G8
P	244	SER	-	linker	UNP Q877G8
P	245	GLU	-	linker	UNP Q877G8

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.

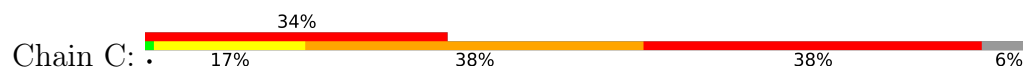
• Molecule 1: Chaperonin



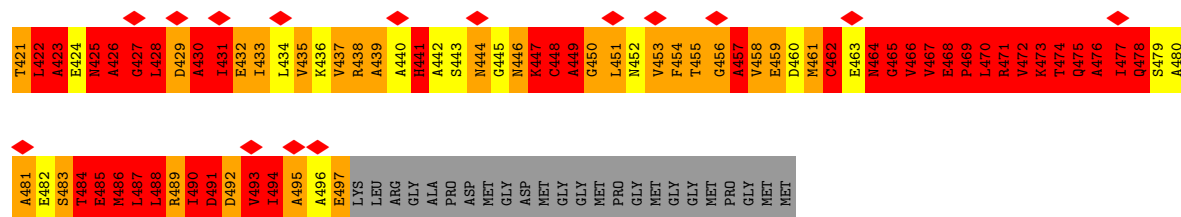


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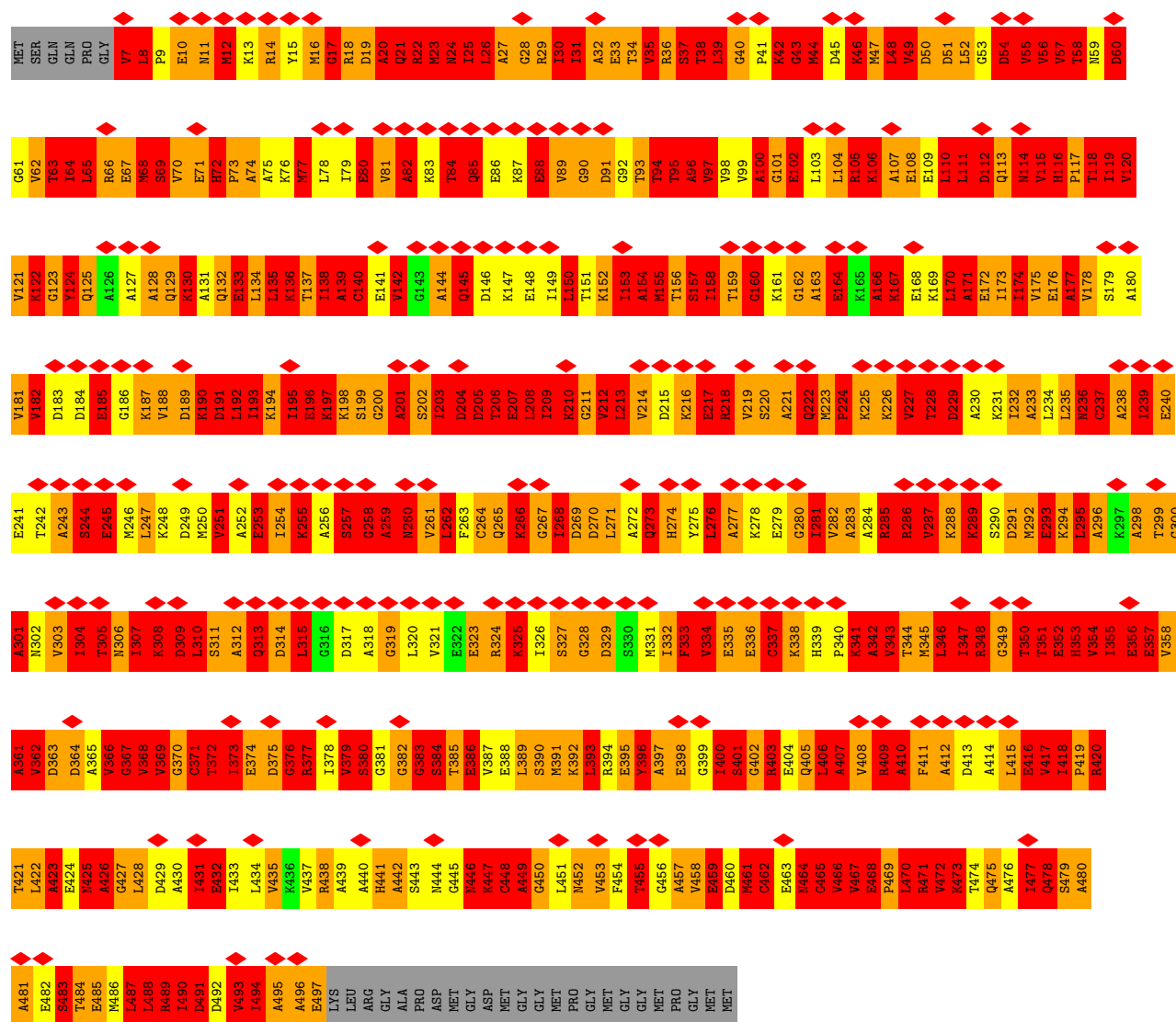
• Molecule 1: Chaperonin



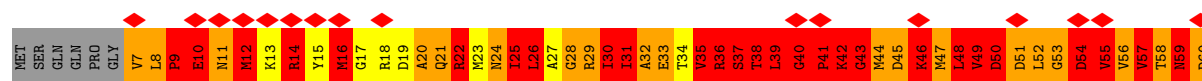
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G61	V62	T63	I64	L65	R66	E67	M68	S69	V70	E71	H72	P73	A74	K75	M76	M77	L78	I79	E80	V81	A82	K83	T84	Q85	E86	K87	E88	V89	G90	D91	E92	T93	T94	R95	A96	S97	V98	V99	A100	G101	E102	L103	L104	R105	K106	A107	E108	E109	L110	L111	D112	Q113	N114	V115	H116	P117	T118	I119	V120
V121	K122	G123	Y124	Q125	A126	A127	A128	Q129	K130	A131	Q132	E133	L134	L135	K136	T137	I138	A139	C140	E141	V142	G143	A144	Q145	D146	K147	E148	I149	L150	T151	D152	I153	A154	M155	T156	S157	I158	T159	G160	K161	G162	A163	E164	K165	A166	K167	E168	K169	L170	L171	E172	A173	I174	V175	E176	A177	V178	S179	A180

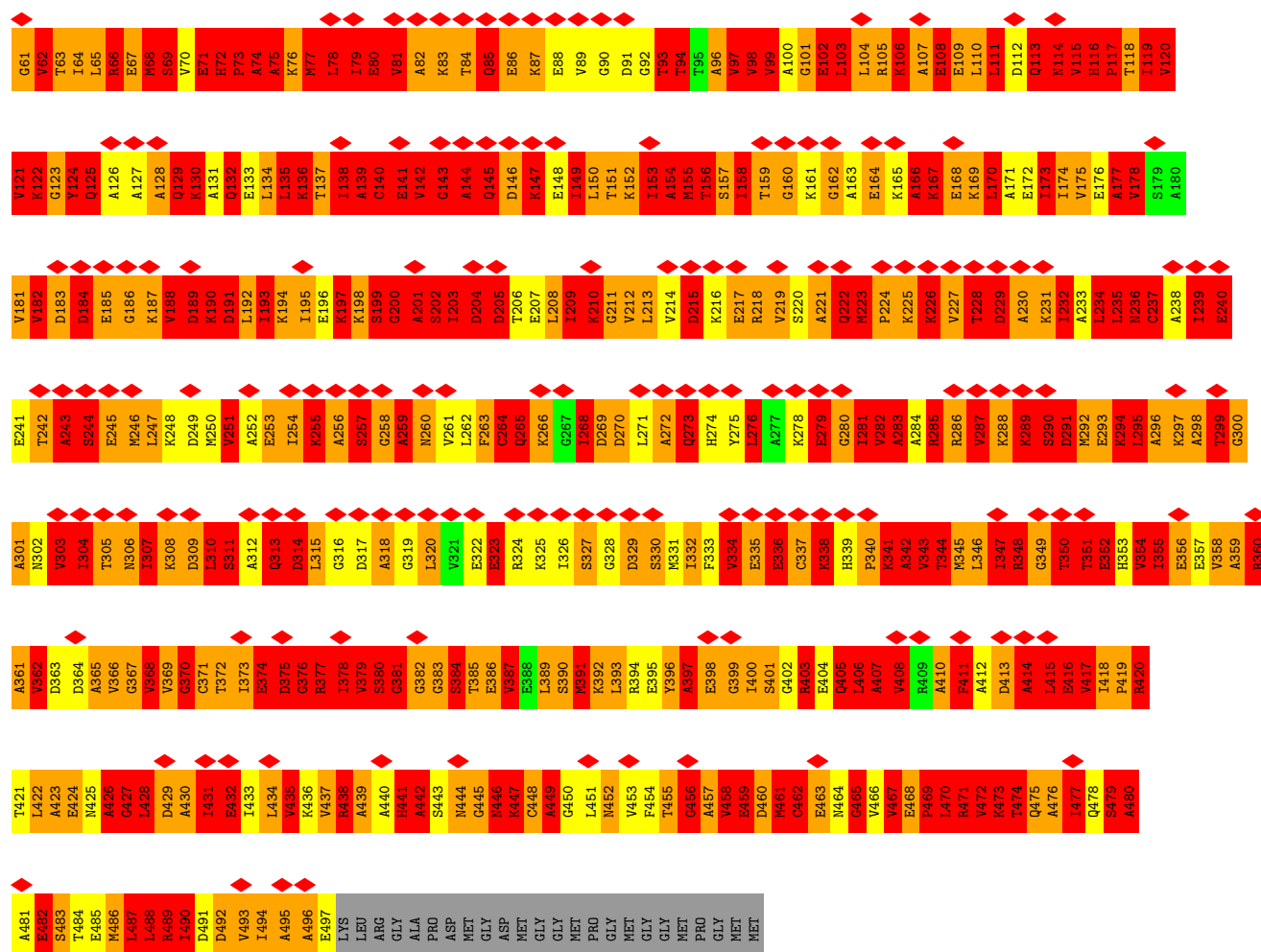


• Molecule 1: Chaperonin

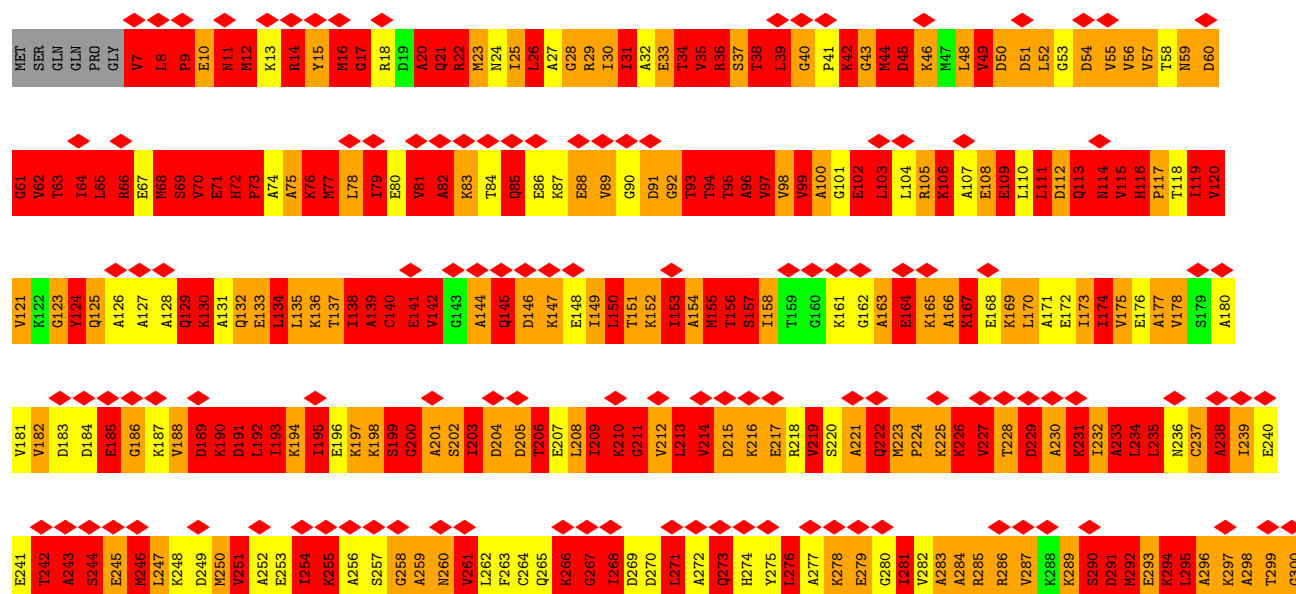
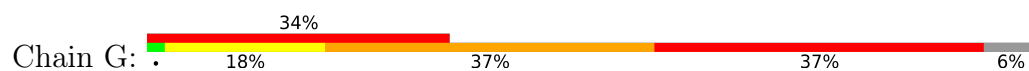


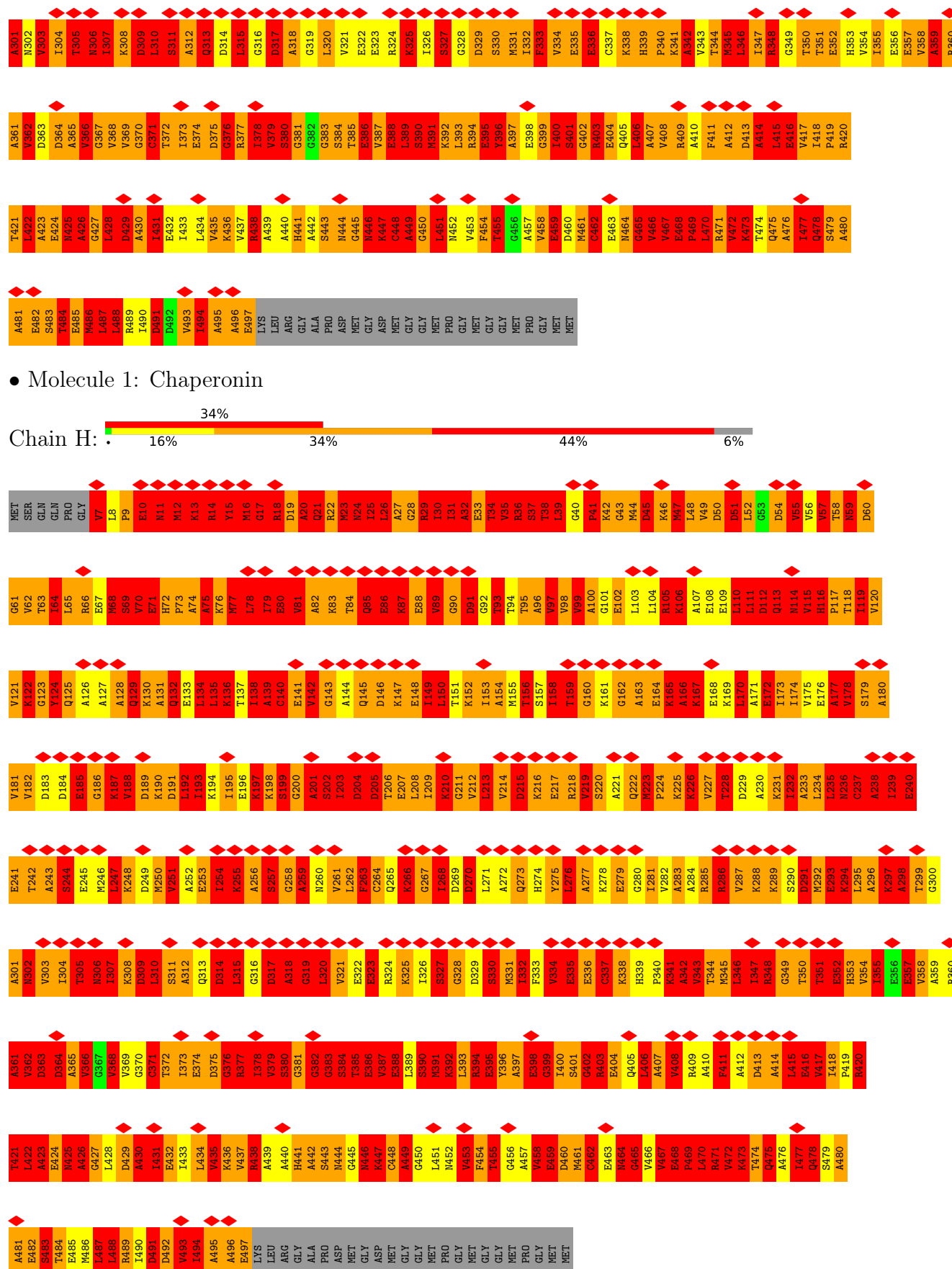
• Molecule 1: Chaperonin





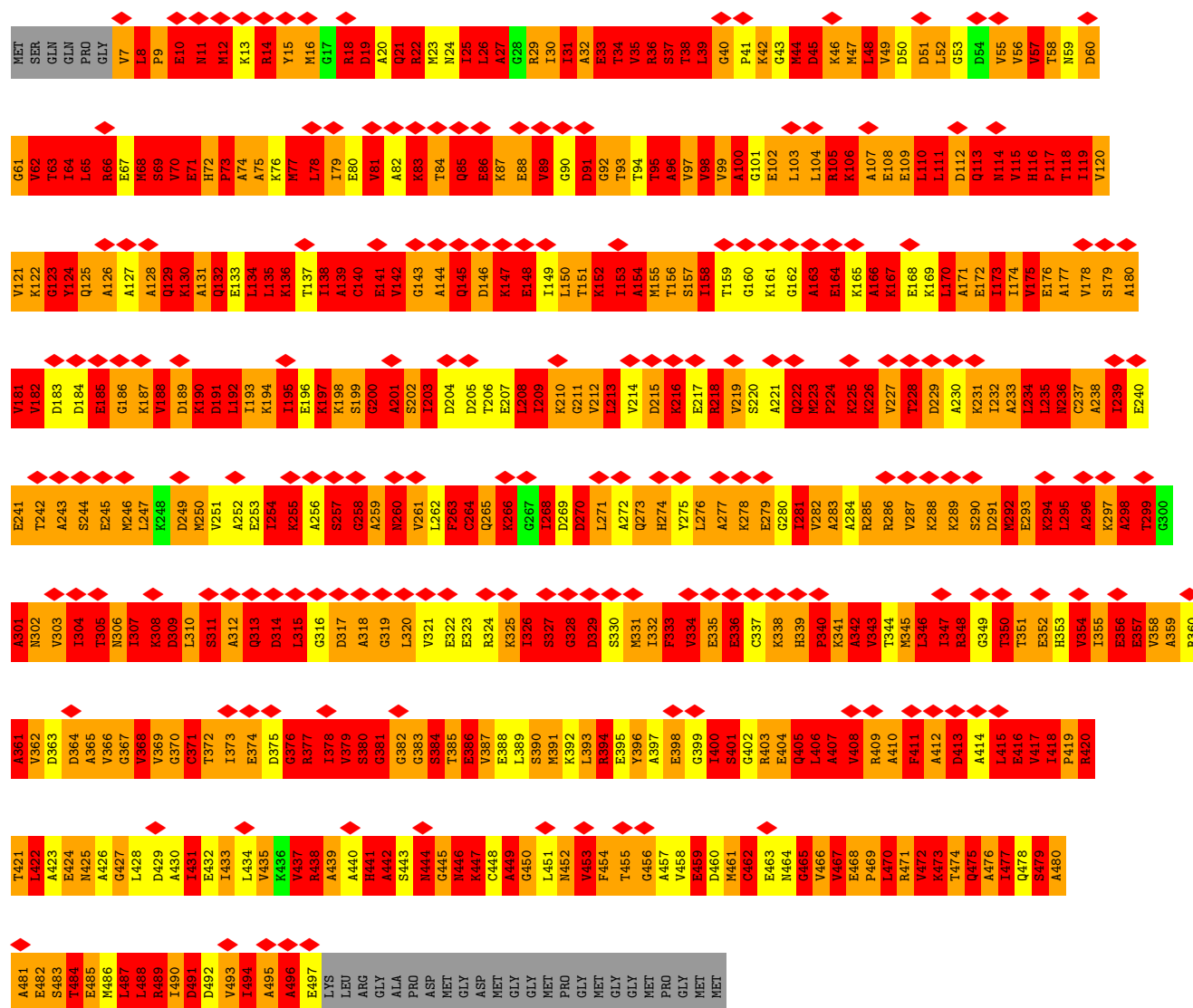
• Molecule 1: Chaperonin



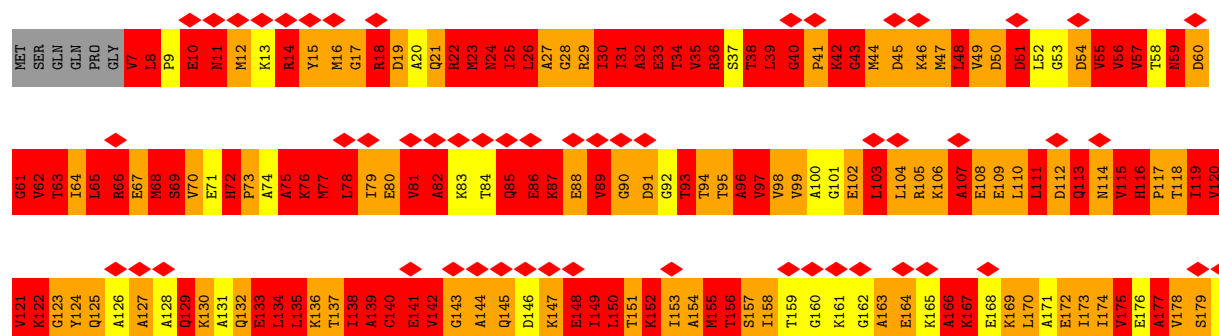


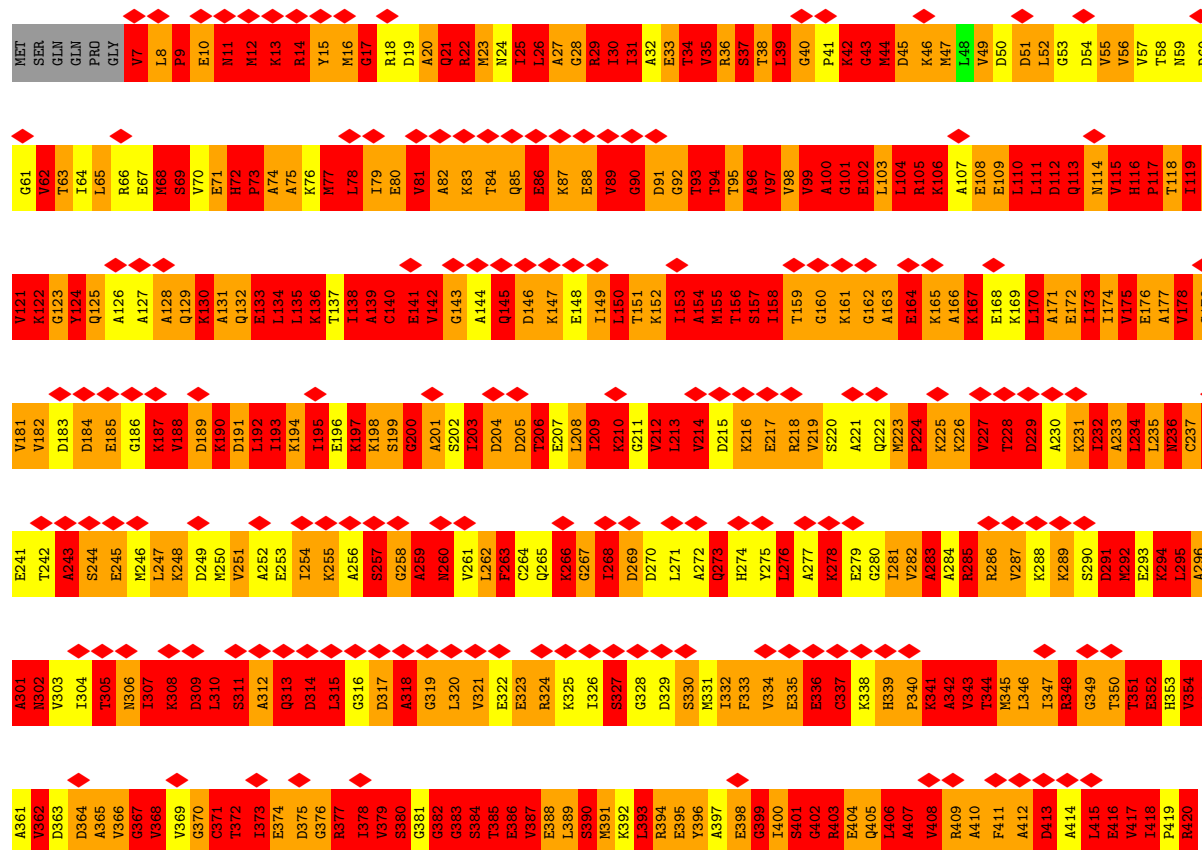
• Molecule 1: Chaperonin

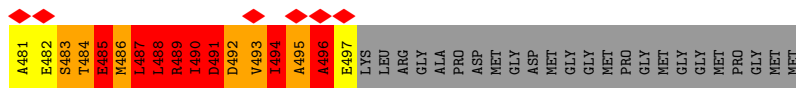
Chain I:



Chain J: 34% 16% 37% 40% 6%





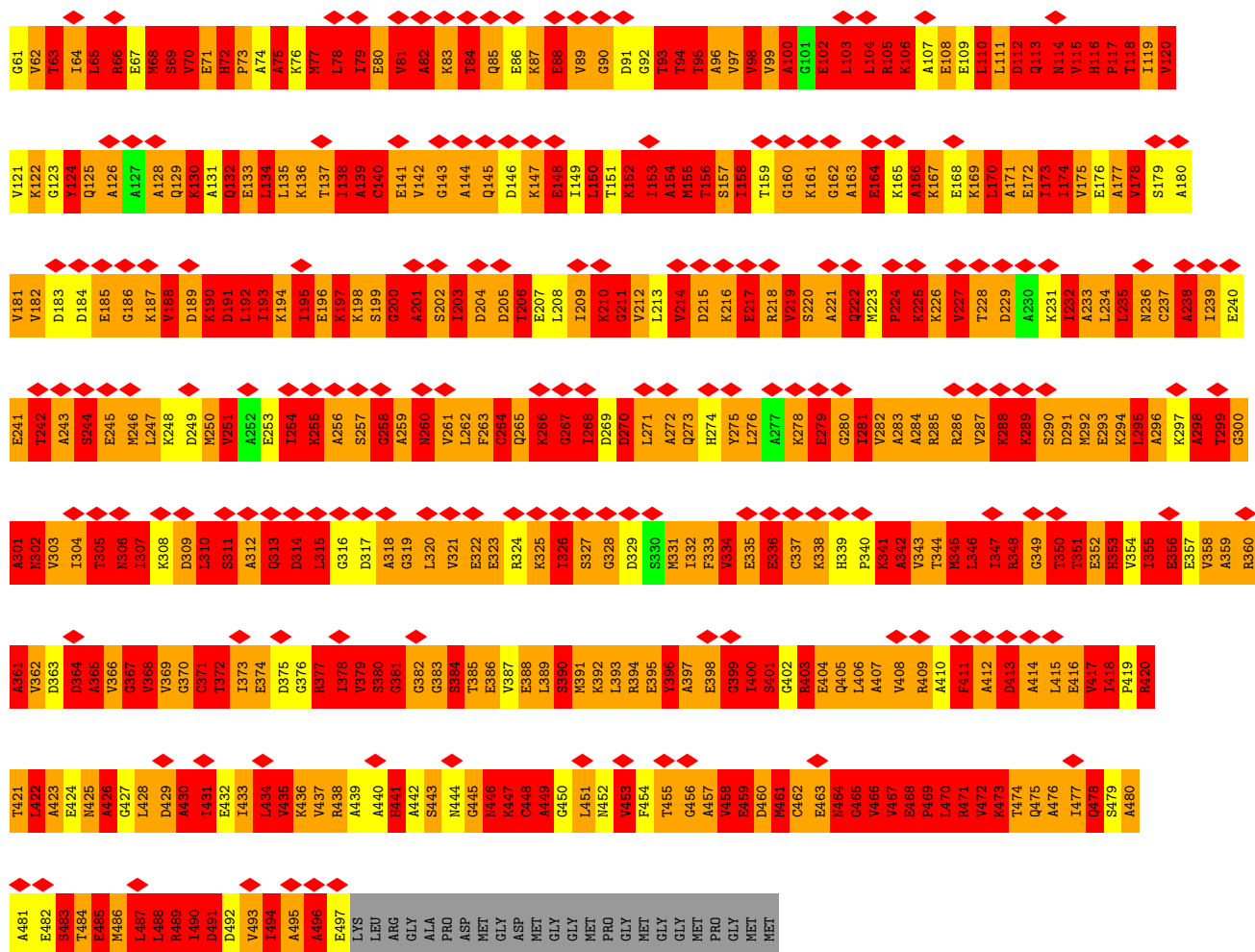


Chain L:

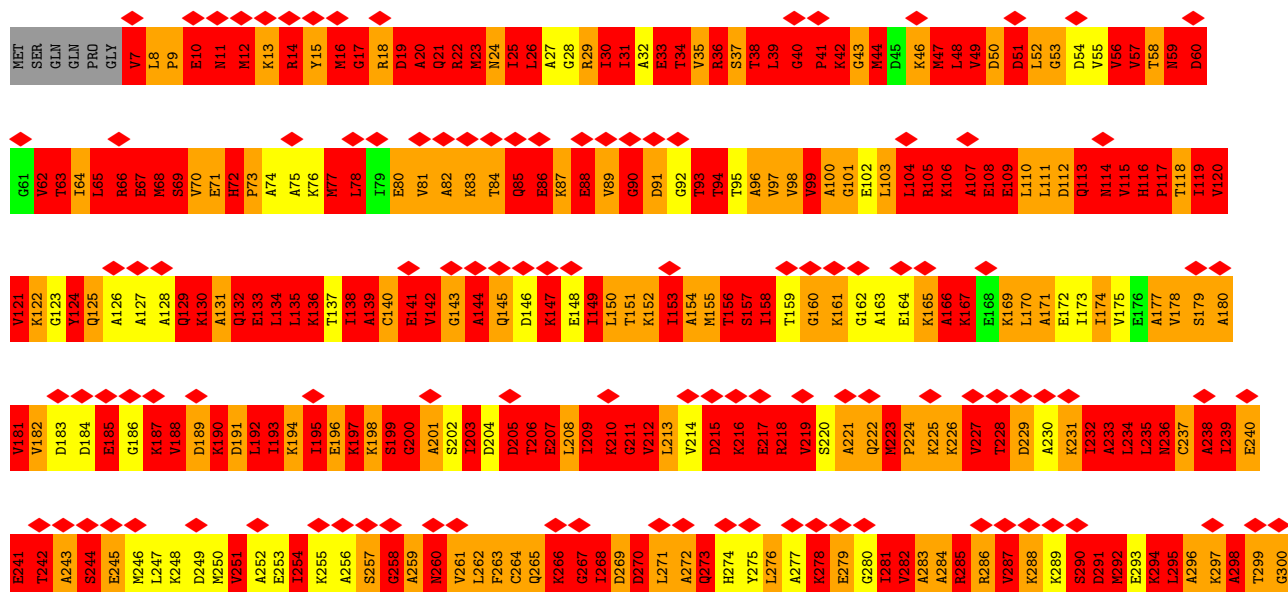


Chain M: 35% 14% 39% 40% 6%

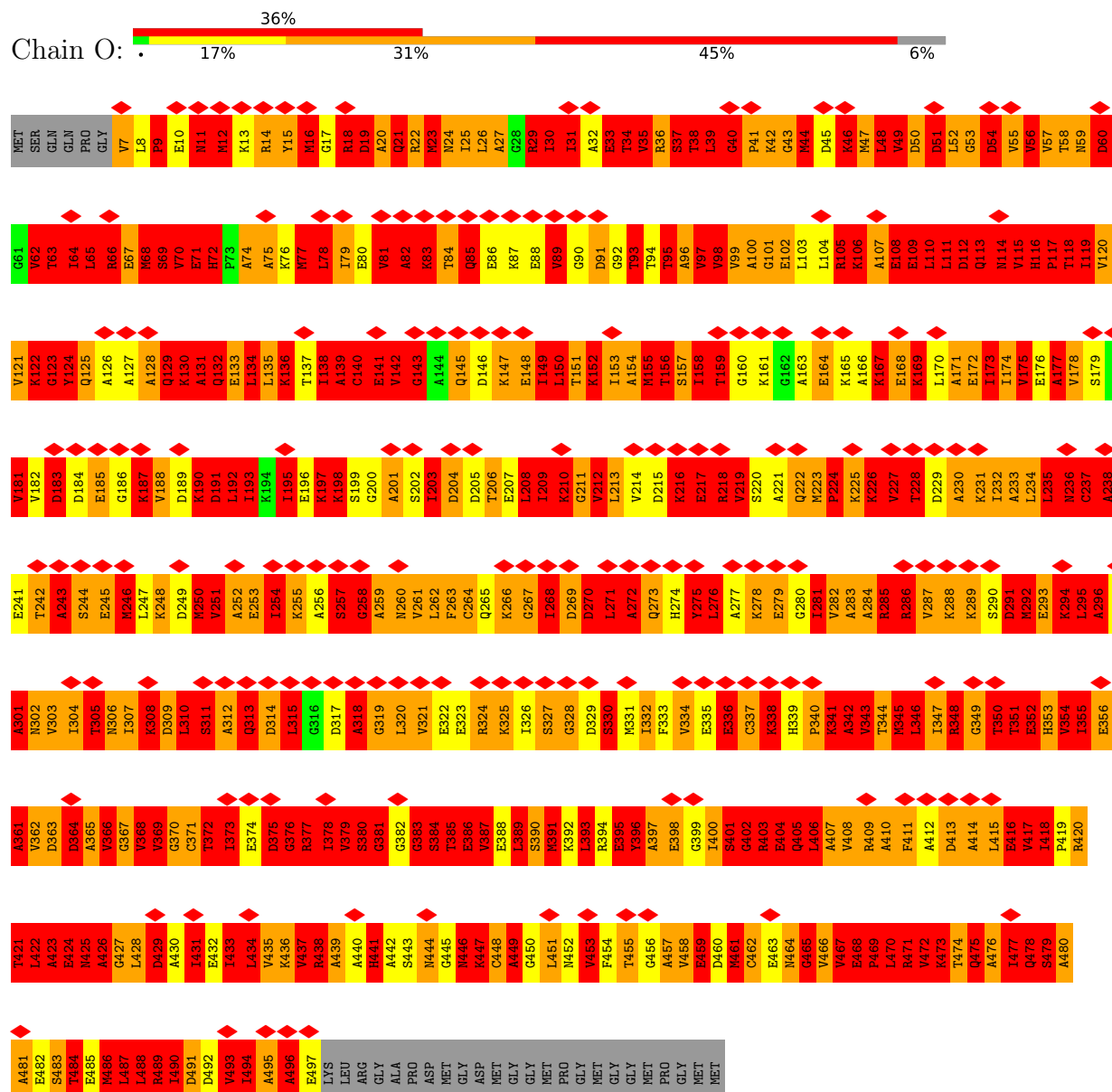




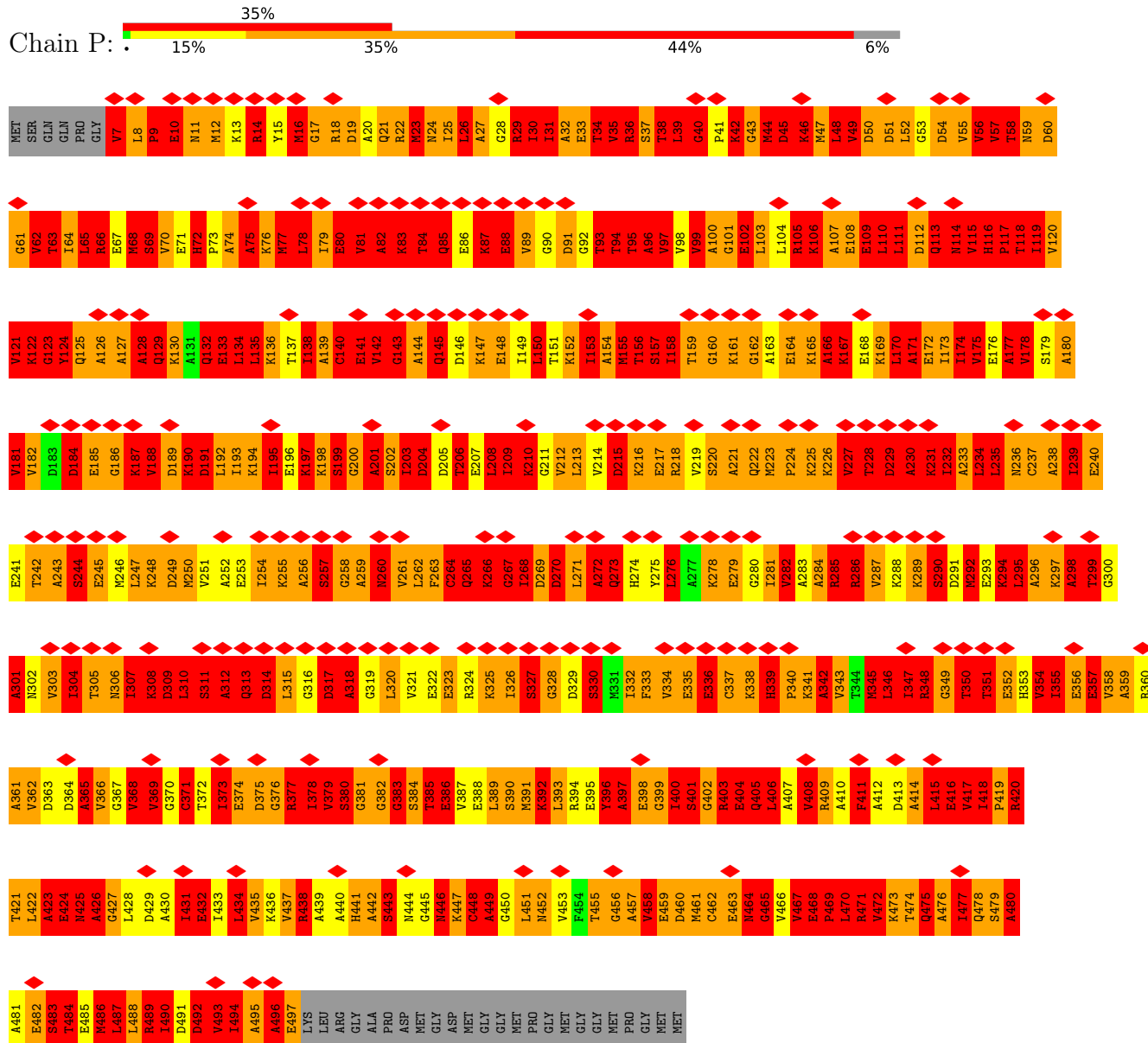
• Molecule 1: Chaperonin



- Molecule 1: Chaperonin



● Molecule 1: Chaperonin



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, D8	Depositor
Number of particles used	Not provided	
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	Each micrograph	Depositor
Microscope	JEOL 3200FSC	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	20	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	112000	Depositor
Image detector	GATAN ULTRASCAN 4000 (4k x 4k)	Depositor
Maximum map value	2.477	Depositor
Minimum map value	-1.784	Depositor
Average map value	0.034	Depositor
Map value standard deviation	0.191	Depositor
Recommended contour level	0.95	Depositor
Map size ($\text{\AA}$)	319.2, 319.2, 319.2	wwPDB
Map dimensions	240, 240, 240	wwPDB
Map angles ($^\circ$)	90, 90, 90	wwPDB
Pixel spacing ($\text{\AA}$)	1.33, 1.33, 1.33	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	A	2.82	321/3685 (8.7%)	4.35	1139/4961 (23.0%)
1	B	2.85	333/3685 (9.0%)	4.31	1111/4961 (22.4%)
1	C	2.81	304/3685 (8.2%)	4.31	1078/4961 (21.7%)
1	D	2.80	310/3685 (8.4%)	4.30	1078/4961 (21.7%)
1	E	2.82	309/3685 (8.4%)	4.20	1045/4961 (21.1%)
1	F	2.85	325/3685 (8.8%)	4.35	1137/4961 (22.9%)
1	G	2.79	298/3685 (8.1%)	4.35	1102/4961 (22.2%)
1	H	2.84	325/3685 (8.8%)	4.28	1086/4961 (21.9%)
1	I	2.85	337/3685 (9.1%)	4.38	1164/4961 (23.5%)
1	J	2.84	339/3685 (9.2%)	4.32	1111/4961 (22.4%)
1	K	2.84	320/3685 (8.7%)	4.35	1114/4961 (22.5%)
1	L	2.80	305/3685 (8.3%)	4.31	1102/4961 (22.2%)
1	M	2.90	331/3685 (9.0%)	4.30	1102/4961 (22.2%)
1	N	2.81	299/3685 (8.1%)	4.28	1069/4961 (21.5%)
1	O	2.77	306/3685 (8.3%)	4.35	1124/4961 (22.7%)
1	P	2.87	321/3685 (8.7%)	4.43	1185/4961 (23.9%)
All	All	2.83	5083/58960 (8.6%)	4.32	17747/79376 (22.4%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	71	243
1	B	55	257
1	C	57	264
1	D	60	284
1	E	51	259
1	F	58	270
1	G	63	258
1	H	61	282
1	I	60	252

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	J	53	260
1	K	57	267
1	L	44	284
1	M	54	279
1	N	50	292
1	O	63	275
1	P	67	288
All	All	924	4314

All (5083) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	450	GLY	N-CA	15.10	1.56	1.44
1	N	200	GLY	CA-C	13.10	1.61	1.52
1	M	195	ILE	CA-C	12.10	1.63	1.53
1	P	193	ILE	CA-CB	11.62	1.66	1.53
1	J	59	ASN	CA-C	10.63	1.60	1.52
1	G	402	GLY	C-O	-10.52	1.18	1.24
1	P	71	GLU	CA-C	10.48	1.62	1.52
1	B	214	VAL	C-O	10.25	1.33	1.23
1	F	189	ASP	N-CA	10.23	1.58	1.46
1	O	208	LEU	C-N	-10.23	1.24	1.33
1	J	72	HIS	ND1-CE1	10.20	1.42	1.32
1	J	353	HIS	CG-ND1	10.17	1.49	1.38
1	E	98	VAL	CA-CB	10.05	1.65	1.54
1	J	18	ARG	NE-CZ	10.05	1.44	1.33
1	K	275	TYR	C-O	-9.99	1.12	1.24
1	O	55	VAL	CA-C	-9.99	1.43	1.53
1	F	326	ILE	CA-C	9.93	1.64	1.52
1	G	105	ARG	NE-CZ	9.89	1.44	1.33
1	I	441	HIS	CD2-NE2	-9.84	1.27	1.37
1	M	71	GLU	CA-C	9.84	1.62	1.52
1	E	22	ARG	NE-CZ	9.83	1.43	1.33
1	F	9	PRO	CA-C	9.79	1.64	1.52
1	H	216	LYS	C-O	9.77	1.33	1.24
1	D	116	HIS	CG-ND1	-9.75	1.27	1.38
1	I	444	ASN	C-N	-9.71	1.25	1.33
1	J	133	GLU	CA-C	-9.70	1.42	1.53
1	I	115	VAL	CA-C	9.68	1.62	1.53
1	P	418	ILE	CA-CB	9.64	1.59	1.54
1	D	113	GLN	CA-C	9.61	1.61	1.52
1	M	37	SER	N-CA	9.58	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	81	VAL	N-CA	-9.57	1.34	1.46
1	I	233	ALA	CA-C	9.55	1.63	1.52
1	H	15	TYR	CA-C	9.52	1.64	1.52
1	P	332	ILE	CA-CB	9.52	1.66	1.54
1	B	30	ILE	CA-CB	9.51	1.64	1.54
1	O	213	LEU	N-CA	9.50	1.57	1.46
1	A	347	ILE	C-O	-9.48	1.13	1.24
1	A	367	GLY	CA-C	-9.48	1.42	1.52
1	F	269	ASP	C-O	9.47	1.34	1.23
1	K	49	VAL	C-O	9.44	1.33	1.23
1	O	322	GLU	CA-C	9.43	1.64	1.52
1	A	466	VAL	C-O	-9.43	1.12	1.24
1	M	232	ILE	N-CA	9.43	1.57	1.46
1	C	339	HIS	C-O	9.38	1.34	1.24
1	M	489	ARG	NE-CZ	9.38	1.43	1.33
1	I	338	LYS	CA-C	9.37	1.65	1.52
1	J	116	HIS	CG-CD2	9.37	1.46	1.35
1	E	418	ILE	C-O	-9.35	1.16	1.24
1	M	303	VAL	CA-C	9.34	1.63	1.52
1	M	353	HIS	ND1-CE1	9.34	1.41	1.32
1	L	339	HIS	CA-C	9.33	1.64	1.52
1	G	68	MET	CA-C	9.30	1.64	1.52
1	A	417	VAL	C-O	-9.29	1.13	1.24
1	A	55	VAL	C-O	9.28	1.34	1.24
1	C	247	LEU	N-CA	-9.26	1.35	1.46
1	G	421	THR	C-O	-9.26	1.13	1.24
1	A	354	VAL	C-O	-9.24	1.13	1.24
1	K	342	ALA	C-N	9.24	1.43	1.33
1	E	409	ARG	NE-CZ	9.22	1.43	1.33
1	M	257	SER	C-O	9.21	1.34	1.24
1	P	116	HIS	CG-CD2	-9.19	1.25	1.35
1	E	18	ARG	NE-CZ	9.18	1.43	1.33
1	N	209	ILE	N-CA	-9.18	1.36	1.46
1	E	55	VAL	N-CA	9.16	1.56	1.46
1	F	313	GLN	C-O	9.15	1.31	1.23
1	B	340	PRO	C-O	9.14	1.31	1.24
1	A	14	ARG	NE-CZ	9.13	1.43	1.33
1	B	343	VAL	N-CA	9.12	1.56	1.46
1	I	58	THR	N-CA	9.11	1.57	1.46
1	E	107	ALA	CA-C	-9.06	1.41	1.52
1	A	246	MET	C-O	9.05	1.35	1.24
1	B	59	ASN	CA-C	-9.05	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	274	HIS	CG-ND1	9.04	1.48	1.38
1	A	152	LYS	C-N	-9.02	1.22	1.34
1	H	445	GLY	N-CA	9.02	1.53	1.45
1	J	78	LEU	C-N	9.01	1.43	1.33
1	I	369	VAL	CA-C	8.99	1.64	1.52
1	I	317	ASP	N-CA	8.98	1.56	1.46
1	K	110	LEU	C-O	8.96	1.34	1.24
1	N	418	ILE	CA-CB	8.95	1.65	1.54
1	G	121	VAL	C-O	-8.95	1.14	1.24
1	E	470	LEU	C-N	-8.95	1.22	1.33
1	I	14	ARG	CA-C	8.95	1.62	1.52
1	P	234	LEU	N-CA	8.95	1.56	1.46
1	E	446	ASN	CA-C	8.93	1.64	1.52
1	M	287	VAL	C-O	-8.93	1.14	1.24
1	O	60	ASP	CA-C	8.93	1.63	1.52
1	J	450	GLY	N-CA	8.90	1.52	1.44
1	C	312	ALA	C-O	8.89	1.33	1.24
1	M	358	VAL	CA-C	8.88	1.62	1.52
1	N	177	ALA	C-N	-8.88	1.22	1.33
1	D	34	THR	N-CA	-8.88	1.35	1.46
1	M	340	PRO	C-O	-8.86	1.13	1.23
1	E	71	GLU	CA-C	8.86	1.63	1.53
1	G	424	GLU	C-O	8.85	1.34	1.24
1	C	208	LEU	C-N	-8.84	1.23	1.33
1	H	116	HIS	CD2-NE2	-8.82	1.28	1.37
1	A	491	ASP	C-O	8.80	1.31	1.24
1	M	317	ASP	C-O	8.80	1.33	1.24
1	J	368	VAL	C-N	-8.79	1.23	1.33
1	D	113	GLN	N-CA	-8.79	1.36	1.47
1	E	13	LYS	N-CA	8.79	1.56	1.46
1	E	136	LYS	CA-C	8.79	1.64	1.52
1	N	50	ASP	N-CA	8.79	1.56	1.45
1	K	40	GLY	C-N	8.78	1.42	1.34
1	L	72	HIS	CD2-NE2	-8.78	1.28	1.37
1	L	128	ALA	N-CA	-8.77	1.36	1.46
1	P	494	ILE	CA-CB	8.77	1.66	1.54
1	M	207	GLU	CA-C	8.74	1.63	1.52
1	N	338	LYS	CA-C	8.73	1.64	1.52
1	P	97	VAL	CA-CB	-8.73	1.45	1.55
1	F	141	GLU	C-N	8.72	1.38	1.33
1	H	237	CYS	C-O	-8.72	1.12	1.24
1	L	346	LEU	C-O	-8.70	1.13	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	18	ARG	NE-CZ	8.69	1.42	1.33
1	L	298	ALA	C-N	-8.69	1.22	1.33
1	L	115	VAL	C-O	8.68	1.33	1.24
1	C	381	GLY	C-N	8.68	1.42	1.33
1	N	490	ILE	C-O	8.67	1.32	1.24
1	P	420	ARG	C-O	8.67	1.34	1.24
1	H	473	LYS	N-CA	-8.65	1.35	1.46
1	M	55	VAL	C-O	8.65	1.33	1.24
1	O	18	ARG	N-CA	8.65	1.56	1.46
1	D	470	LEU	N-CA	-8.65	1.34	1.46
1	K	72	HIS	CE1-NE2	8.65	1.41	1.32
1	K	100	ALA	N-CA	-8.65	1.35	1.46
1	C	142	VAL	C-O	8.63	1.34	1.24
1	N	148	GLU	C-O	8.62	1.33	1.24
1	K	487	LEU	C-O	8.61	1.34	1.24
1	E	91	ASP	C-O	-8.59	1.13	1.23
1	A	23	MET	C-O	8.58	1.34	1.24
1	P	267	GLY	C-N	8.58	1.41	1.33
1	I	98	VAL	CA-CB	8.57	1.64	1.54
1	I	197	LYS	CA-C	8.56	1.62	1.52
1	N	245	GLU	C-O	-8.56	1.15	1.23
1	I	494	ILE	C-O	8.55	1.33	1.24
1	E	317	ASP	CA-C	8.55	1.61	1.53
1	N	209	ILE	C-O	8.54	1.31	1.23
1	H	468	GLU	N-CA	8.54	1.58	1.45
1	I	191	ASP	C-O	8.54	1.33	1.24
1	C	384	SER	C-O	8.54	1.34	1.24
1	I	150	LEU	C-O	-8.54	1.13	1.24
1	K	375	ASP	C-O	8.53	1.33	1.24
1	H	110	LEU	N-CA	-8.53	1.36	1.46
1	E	347	ILE	CA-C	-8.51	1.43	1.52
1	D	213	LEU	N-CA	8.50	1.56	1.46
1	N	466	VAL	C-O	-8.50	1.14	1.24
1	C	72	HIS	CE1-NE2	8.50	1.41	1.32
1	J	83	LYS	CA-C	8.50	1.63	1.52
1	N	212	VAL	C-O	-8.49	1.15	1.23
1	I	174	ILE	CA-C	8.48	1.63	1.52
1	J	261	VAL	CA-CB	8.48	1.66	1.54
1	C	288	LYS	C-N	8.47	1.45	1.33
1	D	303	VAL	CA-C	8.47	1.63	1.52
1	N	455	THR	CA-C	8.46	1.64	1.52
1	J	141	GLU	C-N	8.45	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	70	VAL	N-CA	-8.45	1.35	1.46
1	G	468	GLU	C-N	8.44	1.43	1.33
1	H	262	LEU	CA-C	8.45	1.62	1.52
1	K	55	VAL	C-O	8.44	1.33	1.24
1	M	419	PRO	N-CA	8.44	1.58	1.47
1	N	472	VAL	CA-CB	8.44	1.65	1.54
1	P	400	ILE	CA-C	8.44	1.62	1.52
1	B	38	THR	C-N	-8.44	1.22	1.33
1	N	378	ILE	C-O	8.43	1.32	1.24
1	P	245	GLU	C-O	-8.43	1.13	1.24
1	F	121	VAL	N-CA	8.42	1.57	1.46
1	E	135	LEU	N-CA	8.41	1.57	1.46
1	L	302	ASN	C-N	-8.41	1.23	1.33
1	P	155	MET	CA-C	8.41	1.64	1.52
1	O	324	ARG	C-O	8.40	1.33	1.23
1	C	31	ILE	C-O	8.39	1.34	1.24
1	G	212	VAL	C-O	-8.39	1.15	1.24
1	L	64	ILE	C-O	-8.38	1.14	1.24
1	F	191	ASP	C-O	8.38	1.33	1.24
1	A	339	HIS	ND1-CE1	-8.38	1.24	1.32
1	L	29	ARG	NE-CZ	8.37	1.42	1.33
1	L	44	MET	CA-C	8.37	1.62	1.52
1	D	36	ARG	C-O	8.37	1.34	1.23
1	H	303	VAL	CA-CB	8.36	1.63	1.53
1	C	25	ILE	N-CA	8.35	1.56	1.46
1	P	257	SER	N-CA	-8.35	1.37	1.46
1	D	193	ILE	CA-C	8.34	1.61	1.53
1	B	214	VAL	CA-C	-8.34	1.45	1.52
1	B	378	ILE	N-CA	8.34	1.56	1.46
1	L	377	ARG	NE-CZ	-8.34	1.23	1.33
1	G	441	HIS	CD2-NE2	-8.33	1.28	1.37
1	P	138	ILE	CA-C	8.33	1.63	1.52
1	N	135	LEU	C-N	-8.32	1.22	1.33
1	P	457	ALA	C-O	8.32	1.32	1.23
1	L	151	THR	N-CA	-8.32	1.35	1.46
1	L	417	VAL	C-O	-8.32	1.14	1.24
1	C	78	LEU	C-N	8.31	1.43	1.34
1	A	402	GLY	N-CA	8.31	1.57	1.45
1	G	254	ILE	C-O	8.31	1.33	1.24
1	A	246	MET	N-CA	8.30	1.56	1.46
1	J	206	THR	CA-CB	8.30	1.63	1.53
1	O	195	ILE	CA-CB	8.30	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	374	GLU	CA-C	8.30	1.63	1.52
1	I	94	THR	CA-C	8.30	1.63	1.52
1	P	14	ARG	N-CA	-8.29	1.36	1.46
1	P	269	ASP	CA-C	8.30	1.62	1.52
1	C	324	ARG	NE-CZ	8.29	1.42	1.33
1	D	269	ASP	N-CA	8.29	1.55	1.45
1	H	407	ALA	C-N	-8.29	1.24	1.33
1	B	140	CYS	C-O	-8.29	1.14	1.24
1	G	214	VAL	C-O	8.27	1.33	1.24
1	M	418	ILE	CA-CB	-8.27	1.49	1.54
1	G	485	GLU	N-CA	8.26	1.56	1.46
1	F	120	VAL	N-CA	8.26	1.56	1.46
1	P	253	GLU	C-N	-8.26	1.23	1.33
1	E	131	ALA	N-CA	-8.26	1.36	1.46
1	C	226	LYS	N-CA	8.25	1.56	1.46
1	G	212	VAL	CA-C	8.24	1.62	1.52
1	I	30	ILE	N-CA	8.23	1.56	1.46
1	I	286	ARG	CA-C	8.23	1.63	1.52
1	N	353	HIS	CE1-NE2	-8.23	1.24	1.32
1	I	297	LYS	N-CA	-8.23	1.36	1.46
1	P	278	LYS	C-O	8.22	1.33	1.24
1	G	425	ASN	C-N	-8.22	1.24	1.33
1	H	60	ASP	N-CA	8.22	1.56	1.46
1	E	159	THR	CA-C	8.22	1.64	1.53
1	D	176	GLU	C-O	-8.21	1.14	1.24
1	I	29	ARG	NE-CZ	-8.21	1.24	1.33
1	L	56	VAL	N-CA	8.21	1.56	1.46
1	E	324	ARG	N-CA	8.21	1.56	1.46
1	J	247	LEU	N-CA	-8.21	1.36	1.46
1	K	368	VAL	CA-CB	8.21	1.65	1.54
1	O	30	ILE	CA-C	-8.20	1.42	1.52
1	D	66	ARG	C-O	8.20	1.33	1.24
1	F	332	ILE	C-O	-8.19	1.14	1.24
1	D	441	HIS	CE1-NE2	8.19	1.40	1.32
1	B	373	ILE	C-O	8.19	1.32	1.24
1	O	457	ALA	CA-C	8.18	1.62	1.53
1	J	328	GLY	C-O	8.18	1.34	1.23
1	E	410	ALA	C-N	8.18	1.45	1.33
1	B	445	GLY	N-CA	8.17	1.54	1.44
1	F	317	ASP	C-O	-8.17	1.14	1.23
1	B	240	GLU	N-CA	8.16	1.56	1.46
1	M	108	GLU	C-O	-8.16	1.14	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	493	VAL	N-CA	-8.15	1.36	1.46
1	E	72	HIS	ND1-CE1	8.15	1.40	1.32
1	N	104	LEU	N-CA	8.15	1.56	1.46
1	E	15	TYR	N-CA	8.15	1.56	1.46
1	E	49	VAL	CA-CB	8.15	1.65	1.54
1	H	250	MET	CA-C	8.15	1.63	1.52
1	B	160	GLY	C-N	8.14	1.43	1.33
1	K	255	LYS	N-CA	8.14	1.56	1.46
1	L	150	LEU	C-O	8.14	1.33	1.24
1	O	250	MET	C-N	8.14	1.43	1.33
1	A	297	LYS	C-O	8.13	1.33	1.24
1	B	157	SER	N-CA	-8.12	1.35	1.46
1	M	278	LYS	N-CA	8.12	1.56	1.46
1	I	66	ARG	C-O	8.12	1.34	1.24
1	E	372	THR	C-O	-8.12	1.13	1.24
1	A	281	ILE	CA-CB	8.11	1.63	1.54
1	C	227	VAL	C-O	8.11	1.32	1.24
1	J	343	VAL	CA-C	-8.11	1.42	1.52
1	L	441	HIS	ND1-CE1	8.10	1.40	1.32
1	A	339	HIS	CD2-NE2	8.10	1.46	1.37
1	H	471	ARG	C-O	-8.10	1.13	1.24
1	J	8	LEU	C-N	8.09	1.43	1.33
1	M	89	VAL	N-CA	-8.09	1.36	1.46
1	P	441	HIS	CE1-NE2	8.08	1.40	1.32
1	F	178	VAL	CA-C	-8.07	1.42	1.52
1	O	256	ALA	CA-C	-8.07	1.42	1.52
1	B	255	LYS	C-O	8.07	1.33	1.24
1	D	326	ILE	C-O	8.07	1.32	1.24
1	M	469	PRO	C-O	-8.07	1.13	1.24
1	C	141	GLU	C-O	8.06	1.34	1.24
1	C	257	SER	N-CA	-8.06	1.36	1.46
1	J	394	ARG	C-N	-8.05	1.22	1.33
1	N	357	GLU	N-CA	-8.05	1.36	1.46
1	A	14	ARG	N-CA	8.04	1.55	1.46
1	G	293	GLU	N-CA	-8.04	1.36	1.46
1	J	86	GLU	C-O	8.04	1.34	1.24
1	E	281	ILE	C-O	-8.03	1.16	1.24
1	P	376	GLY	N-CA	8.03	1.55	1.45
1	J	489	ARG	CD-NE	-8.03	1.35	1.46
1	D	259	ALA	CA-C	8.03	1.63	1.52
1	D	449	ALA	CA-CB	-8.03	1.42	1.52
1	F	50	ASP	C-N	8.03	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	377	ARG	CA-C	-8.03	1.42	1.52
1	N	91	ASP	CA-C	8.02	1.63	1.52
1	F	212	VAL	CA-C	8.02	1.62	1.52
1	C	468	GLU	C-O	8.02	1.33	1.24
1	C	52	LEU	C-O	8.02	1.34	1.24
1	N	223	MET	C-O	-8.01	1.14	1.24
1	J	215	ASP	N-CA	-8.01	1.35	1.46
1	E	181	VAL	CA-CB	8.01	1.65	1.54
1	E	342	ALA	N-CA	-8.01	1.36	1.46
1	J	339	HIS	CG-ND1	-8.00	1.29	1.38
1	L	93	THR	C-N	-8.00	1.22	1.33
1	L	109	GLU	C-O	-8.00	1.14	1.24
1	H	128	ALA	C-O	8.00	1.33	1.23
1	D	312	ALA	C-O	8.00	1.33	1.24
1	J	389	LEU	N-CA	-8.00	1.36	1.46
1	M	348	ARG	NE-CZ	-8.00	1.24	1.33
1	P	264	CYS	N-CA	-8.00	1.36	1.46
1	M	160	GLY	C-O	-8.00	1.13	1.23
1	B	8	LEU	N-CA	-7.99	1.36	1.45
1	H	221	ALA	CA-C	7.99	1.63	1.52
1	C	170	LEU	N-CA	7.98	1.55	1.46
1	E	287	VAL	CA-C	7.98	1.62	1.52
1	E	371	CYS	CA-C	7.98	1.63	1.52
1	K	353	HIS	C-O	7.98	1.33	1.24
1	G	210	LYS	C-O	-7.98	1.14	1.24
1	O	488	LEU	CA-C	7.97	1.63	1.52
1	O	362	VAL	N-CA	-7.97	1.36	1.46
1	B	341	LYS	N-CA	7.97	1.56	1.46
1	B	344	THR	N-CA	7.97	1.55	1.45
1	E	147	LYS	C-O	7.97	1.33	1.24
1	B	466	VAL	CA-CB	7.97	1.65	1.54
1	O	375	ASP	N-CA	-7.97	1.36	1.46
1	F	188	VAL	CA-C	7.96	1.63	1.52
1	B	43	GLY	CA-C	7.96	1.58	1.52
1	H	105	ARG	C-N	-7.96	1.23	1.34
1	C	339	HIS	N-CA	7.96	1.54	1.46
1	K	289	LYS	C-O	7.95	1.33	1.24
1	B	238	ALA	C-O	7.95	1.33	1.24
1	P	373	ILE	C-O	7.94	1.32	1.23
1	J	481	ALA	N-CA	7.94	1.56	1.46
1	L	478	GLN	C-O	-7.94	1.14	1.24
1	K	72	HIS	ND1-CE1	-7.93	1.24	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	332	ILE	CA-CB	7.93	1.63	1.54
1	K	371	CYS	C-O	-7.92	1.14	1.24
1	E	479	SER	C-O	-7.92	1.14	1.24
1	A	81	VAL	C-O	-7.92	1.16	1.24
1	C	56	VAL	C-O	7.92	1.32	1.24
1	L	85	GLN	C-O	7.92	1.33	1.24
1	M	187	LYS	CA-C	7.92	1.62	1.52
1	F	464	ASN	C-O	7.92	1.33	1.24
1	P	225	LYS	N-CA	7.91	1.57	1.46
1	J	199	SER	N-CA	7.91	1.55	1.46
1	P	195	ILE	C-O	-7.91	1.14	1.24
1	D	475	GLN	N-CA	7.90	1.55	1.46
1	M	110	LEU	N-CA	-7.90	1.36	1.46
1	L	363	ASP	N-CA	7.90	1.55	1.46
1	B	446	ASN	CA-C	7.89	1.62	1.52
1	D	423	ALA	C-N	-7.89	1.24	1.33
1	C	494	ILE	CA-C	-7.88	1.43	1.52
1	K	174	ILE	CA-CB	-7.88	1.45	1.54
1	A	471	ARG	CD-NE	-7.88	1.35	1.46
1	I	287	VAL	C-O	7.88	1.31	1.24
1	J	420	ARG	CZ-NH1	7.88	1.43	1.32
1	M	218	ARG	C-O	-7.87	1.14	1.24
1	M	334	VAL	N-CA	7.87	1.56	1.46
1	J	54	ASP	C-O	7.87	1.33	1.23
1	C	327	SER	C-O	7.87	1.33	1.24
1	L	331	MET	CA-C	7.87	1.62	1.52
1	H	259	ALA	CA-CB	7.87	1.63	1.53
1	F	75	ALA	C-O	7.86	1.33	1.24
1	N	418	ILE	CA-C	7.86	1.61	1.52
1	D	41	PRO	CA-C	7.85	1.63	1.52
1	I	239	ILE	C-N	7.85	1.44	1.33
1	O	146	ASP	CA-C	-7.85	1.42	1.52
1	L	89	VAL	N-CA	-7.84	1.37	1.46
1	D	177	ALA	CA-C	7.84	1.63	1.52
1	J	43	GLY	C-O	-7.84	1.13	1.23
1	B	437	VAL	N-CA	7.84	1.56	1.46
1	M	250	MET	N-CA	-7.84	1.36	1.46
1	C	201	ALA	N-CA	7.84	1.56	1.46
1	E	199	SER	C-O	-7.84	1.14	1.23
1	I	438	ARG	C-O	7.84	1.33	1.24
1	N	206	THR	N-CA	7.84	1.55	1.46
1	P	70	VAL	N-CA	7.84	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	213	LEU	C-N	7.83	1.40	1.33
1	K	138	ILE	N-CA	7.83	1.54	1.46
1	D	460	ASP	CA-C	7.83	1.62	1.52
1	E	278	LYS	N-CA	-7.83	1.36	1.46
1	O	139	ALA	C-O	7.83	1.33	1.24
1	C	72	HIS	CD2-NE2	7.83	1.46	1.37
1	P	124	TYR	N-CA	7.83	1.56	1.46
1	F	181	VAL	N-CA	7.82	1.56	1.46
1	C	21	GLN	N-CA	-7.82	1.36	1.46
1	O	347	ILE	C-O	-7.82	1.16	1.24
1	F	424	GLU	C-O	7.81	1.33	1.24
1	M	374	GLU	C-N	7.81	1.43	1.33
1	I	218	ARG	NE-CZ	-7.81	1.24	1.33
1	I	127	ALA	CA-C	7.81	1.63	1.52
1	F	238	ALA	N-CA	7.81	1.55	1.46
1	K	462	CYS	N-CA	-7.81	1.36	1.46
1	B	374	GLU	CA-C	7.80	1.63	1.52
1	J	142	VAL	N-CA	7.80	1.55	1.46
1	I	390	SER	C-O	-7.79	1.15	1.24
1	P	22	ARG	CD-NE	7.79	1.57	1.46
1	F	43	GLY	C-O	7.79	1.35	1.23
1	G	333	PHE	CA-C	7.79	1.61	1.52
1	N	426	ALA	N-CA	-7.79	1.36	1.46
1	B	26	LEU	C-N	-7.79	1.23	1.33
1	F	79	ILE	C-N	7.79	1.44	1.33
1	P	70	VAL	CA-CB	7.79	1.65	1.54
1	F	188	VAL	C-O	7.78	1.32	1.24
1	H	233	ALA	C-O	-7.78	1.15	1.24
1	M	30	ILE	CA-C	-7.78	1.42	1.52
1	E	247	LEU	C-O	7.78	1.34	1.24
1	P	111	LEU	N-CA	-7.78	1.36	1.46
1	A	474	THR	N-CA	7.78	1.55	1.46
1	K	326	ILE	CA-CB	7.78	1.64	1.54
1	I	295	LEU	C-N	7.77	1.43	1.33
1	F	149	ILE	N-CA	-7.77	1.36	1.46
1	G	244	SER	C-N	7.77	1.44	1.33
1	M	29	ARG	CZ-NH1	-7.77	1.21	1.32
1	P	9	PRO	N-CA	7.77	1.57	1.47
1	N	163	ALA	C-N	-7.77	1.22	1.33
1	E	112	ASP	N-CA	-7.76	1.37	1.46
1	F	223	MET	N-CA	7.76	1.54	1.46
1	L	447	LYS	C-O	-7.76	1.14	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	293	GLU	C-O	7.75	1.33	1.24
1	K	335	GLU	N-CA	7.75	1.55	1.45
1	M	189	ASP	N-CA	7.75	1.55	1.46
1	I	14	ARG	NE-CZ	-7.75	1.24	1.33
1	M	417	VAL	N-CA	-7.74	1.38	1.46
1	B	193	ILE	C-N	7.74	1.43	1.33
1	H	377	ARG	NE-CZ	7.74	1.41	1.33
1	D	313	GLN	N-CA	-7.74	1.36	1.46
1	G	460	ASP	CA-CB	7.74	1.64	1.52
1	K	177	ALA	C-O	-7.73	1.15	1.24
1	N	234	LEU	N-CA	-7.73	1.36	1.46
1	P	138	ILE	CA-CB	7.73	1.63	1.54
1	L	234	LEU	N-CA	-7.73	1.36	1.46
1	H	463	GLU	C-O	7.72	1.33	1.24
1	M	80	GLU	CA-C	-7.72	1.42	1.52
1	I	324	ARG	CZ-NH2	-7.72	1.23	1.33
1	N	266	LYS	C-O	7.72	1.33	1.23
1	B	337	CYS	C-O	-7.72	1.14	1.24
1	F	284	ALA	C-N	-7.72	1.22	1.33
1	K	158	ILE	C-N	-7.72	1.23	1.33
1	G	217	GLU	CA-CB	7.71	1.65	1.53
1	B	55	VAL	CA-CB	7.71	1.64	1.54
1	I	356	GLU	N-CA	-7.71	1.37	1.46
1	F	335	GLU	CA-C	7.71	1.62	1.52
1	K	312	ALA	C-O	7.71	1.33	1.23
1	M	291	ASP	N-CA	-7.71	1.36	1.46
1	I	148	GLU	C-N	7.71	1.43	1.33
1	J	113	GLN	N-CA	-7.71	1.37	1.46
1	C	58	THR	CA-CB	7.70	1.66	1.53
1	A	441	HIS	CE1-NE2	7.69	1.40	1.32
1	H	46	LYS	C-N	7.69	1.42	1.33
1	F	332	ILE	C-N	7.69	1.43	1.33
1	J	419	PRO	C-N	7.69	1.44	1.33
1	K	294	LYS	C-O	7.69	1.33	1.24
1	L	321	VAL	CA-C	7.69	1.62	1.52
1	F	119	ILE	CA-CB	7.68	1.63	1.55
1	G	268	ILE	N-CA	-7.68	1.36	1.46
1	K	100	ALA	C-O	-7.68	1.15	1.24
1	P	490	ILE	C-O	-7.68	1.15	1.24
1	E	39	LEU	C-O	-7.68	1.14	1.24
1	J	484	THR	N-CA	-7.68	1.36	1.45
1	O	237	CYS	C-N	7.68	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	172	GLU	N-CA	7.68	1.55	1.46
1	F	360	ARG	C-O	7.68	1.32	1.24
1	N	425	ASN	N-CA	-7.68	1.37	1.46
1	B	348	ARG	C-O	7.67	1.33	1.24
1	L	356	GLU	N-CA	-7.67	1.36	1.46
1	G	55	VAL	N-CA	7.67	1.56	1.46
1	D	47	MET	N-CA	7.67	1.57	1.46
1	E	22	ARG	C-O	7.66	1.33	1.24
1	M	272	ALA	C-O	7.66	1.34	1.24
1	E	157	SER	CA-C	-7.66	1.42	1.52
1	H	72	HIS	CE1-NE2	-7.66	1.24	1.32
1	H	363	ASP	C-O	7.65	1.33	1.24
1	J	192	LEU	N-CA	-7.65	1.36	1.46
1	P	170	LEU	C-O	7.65	1.33	1.24
1	D	195	ILE	C-N	-7.65	1.22	1.33
1	P	362	VAL	N-CA	7.65	1.56	1.46
1	D	276	LEU	N-CA	7.65	1.56	1.46
1	B	161	LYS	C-O	7.64	1.32	1.23
1	A	415	LEU	C-O	7.64	1.34	1.24
1	H	380	SER	CA-C	7.64	1.62	1.52
1	K	120	VAL	C-N	7.64	1.43	1.33
1	E	171	ALA	N-CA	7.64	1.56	1.46
1	K	42	LYS	C-O	7.64	1.32	1.23
1	C	285	ARG	N-CA	-7.63	1.37	1.46
1	B	400	ILE	N-CA	7.63	1.55	1.46
1	O	152	LYS	C-N	7.63	1.43	1.33
1	A	24	ASN	N-CA	-7.63	1.37	1.46
1	D	475	GLN	CA-C	7.63	1.62	1.52
1	P	110	LEU	C-O	-7.63	1.14	1.24
1	N	303	VAL	C-O	-7.63	1.15	1.24
1	D	271	LEU	C-O	-7.62	1.14	1.24
1	M	54	ASP	C-N	7.62	1.43	1.33
1	A	74	ALA	C-O	7.62	1.32	1.24
1	K	446	ASN	N-CA	7.61	1.55	1.46
1	H	409	ARG	C-N	-7.61	1.23	1.34
1	A	458	VAL	CA-CB	-7.60	1.44	1.54
1	A	182	VAL	N-CA	-7.59	1.36	1.46
1	B	116	HIS	CD2-NE2	7.59	1.46	1.37
1	E	201	ALA	N-CA	7.59	1.55	1.46
1	A	421	THR	C-O	-7.59	1.15	1.24
1	G	237	CYS	CA-C	-7.59	1.43	1.52
1	I	328	GLY	N-CA	7.59	1.56	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	479	SER	C-O	7.59	1.33	1.24
1	I	464	ASN	N-CA	-7.58	1.36	1.46
1	I	116	HIS	N-CA	-7.58	1.35	1.46
1	A	330	SER	C-O	-7.58	1.14	1.24
1	P	441	HIS	CD2-NE2	-7.58	1.29	1.37
1	G	55	VAL	C-O	7.57	1.32	1.24
1	I	57	VAL	CA-CB	7.57	1.63	1.54
1	A	460	ASP	C-O	-7.56	1.14	1.24
1	H	368	VAL	CA-C	-7.56	1.43	1.52
1	I	57	VAL	C-O	-7.56	1.15	1.24
1	D	441	HIS	CG-CD2	-7.56	1.27	1.35
1	H	384	SER	C-O	7.56	1.32	1.24
1	I	271	LEU	C-O	7.56	1.33	1.24
1	G	468	GLU	CA-C	7.56	1.62	1.52
1	L	53	GLY	CA-C	7.56	1.59	1.52
1	M	14	ARG	C-O	7.56	1.33	1.24
1	L	83	LYS	C-O	7.55	1.32	1.24
1	E	324	ARG	CA-C	-7.55	1.43	1.52
1	J	305	THR	C-O	-7.55	1.14	1.24
1	J	307	ILE	C-O	7.55	1.33	1.24
1	L	138	ILE	N-CA	7.55	1.56	1.46
1	J	122	LYS	N-CA	7.55	1.56	1.46
1	I	220	SER	N-CA	-7.54	1.36	1.46
1	M	36	ARG	CZ-NH1	-7.54	1.22	1.32
1	A	9	PRO	N-CA	7.54	1.56	1.47
1	F	13	LYS	CA-C	7.54	1.61	1.52
1	M	285	ARG	CZ-NH2	7.54	1.43	1.33
1	B	345	MET	CA-C	7.53	1.62	1.53
1	B	437	VAL	CA-C	-7.53	1.42	1.52
1	G	14	ARG	N-CA	7.53	1.55	1.46
1	M	222	GLN	N-CA	-7.53	1.37	1.46
1	F	415	LEU	N-CA	-7.53	1.36	1.46
1	B	378	ILE	C-O	7.52	1.31	1.24
1	B	50	ASP	CA-C	7.52	1.62	1.52
1	I	193	ILE	CA-C	-7.52	1.45	1.53
1	N	26	LEU	N-CA	-7.52	1.37	1.46
1	N	280	GLY	C-O	7.52	1.34	1.23
1	C	161	LYS	N-CA	-7.52	1.37	1.46
1	P	489	ARG	N-CA	-7.52	1.37	1.46
1	K	106	LYS	C-O	7.52	1.33	1.24
1	A	96	ALA	C-N	-7.51	1.24	1.33
1	M	205	ASP	C-N	7.51	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	190	LYS	C-O	-7.51	1.15	1.24
1	K	217	GLU	N-CA	7.51	1.55	1.46
1	I	27	ALA	N-CA	7.51	1.55	1.46
1	J	471	ARG	CZ-NH2	-7.51	1.23	1.33
1	O	353	HIS	ND1-CE1	7.51	1.40	1.32
1	J	98	VAL	CA-C	7.51	1.62	1.52
1	O	93	THR	CA-C	7.51	1.62	1.52
1	I	333	PHE	C-O	7.51	1.32	1.23
1	J	406	LEU	C-N	-7.51	1.24	1.33
1	L	466	VAL	CA-CB	7.51	1.64	1.54
1	C	383	GLY	C-N	-7.50	1.24	1.33
1	A	75	ALA	C-N	7.50	1.44	1.33
1	A	133	GLU	N-CA	-7.50	1.37	1.46
1	P	70	VAL	C-N	7.50	1.44	1.33
1	M	358	VAL	N-CA	-7.50	1.37	1.46
1	M	453	VAL	CA-CB	7.49	1.64	1.54
1	C	459	GLU	CA-C	7.49	1.61	1.52
1	N	199	SER	C-N	7.49	1.41	1.33
1	A	354	VAL	N-CA	-7.48	1.37	1.46
1	M	448	CYS	CA-C	-7.48	1.43	1.52
1	F	353	HIS	CG-CD2	7.48	1.44	1.35
1	K	448	CYS	CA-C	-7.48	1.43	1.53
1	M	163	ALA	C-O	7.48	1.33	1.24
1	D	140	CYS	CA-C	7.48	1.61	1.52
1	M	436	LYS	N-CA	7.48	1.55	1.46
1	P	150	LEU	C-N	-7.47	1.23	1.34
1	K	353	HIS	CG-ND1	7.47	1.46	1.38
1	G	339	HIS	C-O	7.47	1.32	1.24
1	K	223	MET	C-O	-7.47	1.15	1.24
1	J	291	ASP	C-O	7.46	1.33	1.24
1	H	365	ALA	C-O	7.46	1.33	1.24
1	G	387	VAL	CA-C	-7.46	1.43	1.52
1	I	353	HIS	ND1-CE1	7.46	1.40	1.32
1	H	419	PRO	C-O	-7.45	1.14	1.24
1	A	358	VAL	N-CA	7.45	1.55	1.46
1	A	489	ARG	C-N	7.45	1.43	1.33
1	D	287	VAL	N-CA	7.45	1.55	1.46
1	H	60	ASP	C-O	7.45	1.32	1.24
1	K	429	ASP	CA-CB	-7.45	1.42	1.52
1	K	470	LEU	CA-C	7.45	1.62	1.52
1	A	18	ARG	CZ-NH2	-7.45	1.23	1.33
1	C	116	HIS	N-CA	-7.45	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	106	LYS	N-CA	-7.45	1.37	1.46
1	N	371	CYS	N-CA	-7.44	1.36	1.46
1	M	88	GLU	CA-C	-7.44	1.42	1.52
1	M	260	ASN	C-O	7.44	1.33	1.24
1	M	316	GLY	C-N	-7.44	1.24	1.33
1	A	258	GLY	C-N	7.44	1.44	1.33
1	N	230	ALA	N-CA	7.44	1.54	1.45
1	K	238	ALA	C-N	7.44	1.43	1.33
1	O	232	ILE	N-CA	-7.44	1.36	1.46
1	P	116	HIS	CE1-NE2	-7.44	1.25	1.32
1	G	142	VAL	C-O	7.43	1.32	1.24
1	L	453	VAL	CA-CB	7.43	1.64	1.54
1	N	118	THR	N-CA	7.43	1.56	1.46
1	J	359	ALA	CA-C	7.43	1.62	1.52
1	L	272	ALA	N-CA	-7.43	1.37	1.46
1	G	63	THR	CB-OG1	7.42	1.55	1.43
1	M	225	LYS	C-O	7.42	1.33	1.24
1	H	166	ALA	C-O	7.42	1.33	1.24
1	L	316	GLY	CA-C	7.42	1.60	1.52
1	P	268	ILE	N-CA	7.41	1.55	1.46
1	N	339	HIS	CG-CD2	-7.41	1.27	1.35
1	K	236	ASN	C-N	-7.41	1.23	1.33
1	M	151	THR	N-CA	-7.41	1.36	1.46
1	N	242	THR	C-O	7.41	1.32	1.23
1	H	415	LEU	CA-C	-7.41	1.42	1.52
1	E	315	LEU	C-O	7.41	1.33	1.24
1	I	452	ASN	C-O	7.41	1.33	1.24
1	J	419	PRO	C-O	-7.40	1.15	1.24
1	C	432	GLU	C-N	-7.40	1.24	1.33
1	F	147	LYS	C-O	7.40	1.33	1.24
1	A	486	MET	C-N	-7.40	1.23	1.33
1	F	8	LEU	C-N	-7.40	1.25	1.33
1	H	303	VAL	C-O	7.40	1.31	1.23
1	N	493	VAL	CA-C	-7.40	1.43	1.52
1	H	448	CYS	N-CA	-7.40	1.37	1.46
1	L	291	ASP	C-O	7.40	1.34	1.24
1	A	293	GLU	C-N	-7.40	1.23	1.33
1	N	412	ALA	CA-C	7.40	1.62	1.52
1	A	262	LEU	N-CA	-7.39	1.37	1.46
1	E	287	VAL	CA-CB	-7.39	1.44	1.54
1	P	374	GLU	N-CA	-7.39	1.36	1.46
1	P	469	PRO	N-CA	7.39	1.56	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	420	ARG	NE-CZ	7.39	1.41	1.33
1	M	315	LEU	N-CA	-7.39	1.36	1.45
1	A	206	THR	CA-C	7.38	1.62	1.52
1	E	370	GLY	CA-C	7.38	1.61	1.51
1	L	115	VAL	CA-C	-7.38	1.43	1.52
1	I	46	LYS	N-CA	7.38	1.54	1.46
1	F	8	LEU	CA-C	7.38	1.58	1.52
1	M	319	GLY	C-N	-7.38	1.24	1.33
1	D	494	ILE	C-O	7.38	1.32	1.24
1	B	426	ALA	C-N	-7.38	1.22	1.33
1	P	475	GLN	C-N	-7.38	1.23	1.33
1	D	491	ASP	C-O	7.38	1.32	1.24
1	L	297	LYS	N-CA	-7.37	1.36	1.46
1	A	212	VAL	C-O	7.37	1.32	1.24
1	B	196	GLU	C-N	7.37	1.43	1.33
1	H	374	GLU	C-O	7.37	1.33	1.24
1	K	10	GLU	N-CA	-7.37	1.36	1.46
1	A	280	GLY	C-N	7.37	1.42	1.33
1	G	16	MET	N-CA	7.37	1.55	1.45
1	M	430	ALA	CA-C	-7.37	1.43	1.52
1	I	339	HIS	CG-CD2	-7.37	1.27	1.35
1	P	154	ALA	N-CA	-7.37	1.37	1.46
1	J	348	ARG	NE-CZ	7.36	1.41	1.33
1	J	401	SER	C-O	-7.36	1.14	1.24
1	D	420	ARG	CZ-NH2	7.36	1.43	1.33
1	D	112	ASP	N-CA	-7.36	1.36	1.46
1	A	47	MET	C-N	-7.36	1.23	1.33
1	G	388	GLU	C-O	7.35	1.32	1.24
1	H	312	ALA	C-O	7.35	1.33	1.24
1	N	13	LYS	N-CA	-7.35	1.37	1.46
1	A	477	ILE	C-O	-7.35	1.15	1.24
1	B	177	ALA	C-O	7.34	1.33	1.24
1	I	274	HIS	C-O	7.34	1.32	1.24
1	G	136	LYS	C-O	7.34	1.33	1.24
1	L	318	ALA	CA-C	7.34	1.61	1.52
1	I	226	LYS	C-O	7.33	1.33	1.24
1	A	327	SER	C-O	7.33	1.33	1.24
1	B	423	ALA	CA-C	7.33	1.62	1.52
1	P	105	ARG	C-O	-7.33	1.15	1.24
1	C	217	GLU	C-O	7.33	1.33	1.23
1	D	352	GLU	C-O	7.33	1.33	1.24
1	E	182	VAL	CA-CB	7.33	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	342	ALA	CA-CB	-7.33	1.41	1.53
1	N	159	THR	N-CA	-7.33	1.37	1.45
1	P	389	LEU	N-CA	7.33	1.55	1.46
1	A	67	GLU	N-CA	-7.33	1.37	1.46
1	F	377	ARG	CZ-NH2	-7.33	1.24	1.33
1	G	213	LEU	N-CA	7.32	1.54	1.46
1	I	471	ARG	N-CA	-7.32	1.36	1.46
1	N	82	ALA	C-O	7.32	1.33	1.24
1	A	233	ALA	CA-C	-7.32	1.43	1.52
1	F	447	LYS	C-O	-7.32	1.15	1.24
1	K	325	LYS	N-CA	-7.32	1.36	1.46
1	M	314	ASP	CA-C	7.32	1.62	1.52
1	D	144	ALA	C-O	-7.32	1.14	1.24
1	M	386	GLU	C-N	-7.31	1.25	1.34
1	G	368	VAL	CA-C	-7.31	1.43	1.52
1	P	298	ALA	N-CA	-7.31	1.36	1.46
1	K	150	LEU	C-O	-7.31	1.14	1.24
1	L	303	VAL	C-O	7.31	1.32	1.24
1	O	356	GLU	CA-C	-7.31	1.43	1.52
1	O	423	ALA	CA-C	7.31	1.62	1.52
1	P	466	VAL	CA-CB	7.31	1.64	1.54
1	K	104	LEU	C-N	7.31	1.44	1.33
1	I	484	THR	N-CA	7.31	1.55	1.46
1	C	146	ASP	C-O	7.31	1.32	1.24
1	E	468	GLU	CA-C	7.31	1.59	1.52
1	B	314	ASP	C-O	7.30	1.33	1.24
1	C	365	ALA	C-O	-7.30	1.15	1.24
1	E	212	VAL	C-O	7.30	1.31	1.24
1	H	146	ASP	C-O	7.30	1.32	1.23
1	I	275	TYR	N-CA	-7.30	1.37	1.46
1	D	108	GLU	C-O	7.30	1.33	1.24
1	I	468	GLU	C-O	-7.30	1.18	1.24
1	P	48	LEU	N-CA	-7.30	1.36	1.46
1	E	301	ALA	C-O	-7.29	1.14	1.24
1	O	18	ARG	CZ-NH1	7.29	1.43	1.32
1	J	34	THR	N-CA	-7.29	1.36	1.46
1	J	324	ARG	CA-C	7.29	1.61	1.52
1	K	414	ALA	C-O	-7.29	1.14	1.24
1	M	239	ILE	CA-C	7.29	1.62	1.52
1	D	340	PRO	C-O	7.29	1.33	1.24
1	I	328	GLY	CA-C	7.29	1.62	1.51
1	F	278	LYS	C-N	7.28	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	59	ASN	CA-C	7.28	1.60	1.53
1	O	323	GLU	CA-C	7.28	1.62	1.52
1	E	458	VAL	CA-C	7.28	1.60	1.52
1	I	53	GLY	C-N	-7.27	1.24	1.33
1	J	173	ILE	C-N	-7.27	1.24	1.33
1	B	142	VAL	CA-CB	7.27	1.64	1.54
1	D	356	GLU	N-CA	-7.27	1.36	1.46
1	F	19	ASP	N-CA	7.27	1.55	1.46
1	I	202	SER	C-O	7.27	1.32	1.24
1	D	246	MET	C-O	7.27	1.33	1.24
1	C	285	ARG	CA-CB	7.27	1.63	1.52
1	F	279	GLU	N-CA	-7.27	1.36	1.46
1	P	64	ILE	CA-C	7.27	1.61	1.52
1	C	49	VAL	C-O	7.27	1.32	1.23
1	C	293	GLU	C-N	-7.27	1.24	1.34
1	G	495	ALA	C-N	7.27	1.40	1.33
1	B	362	VAL	CA-CB	7.27	1.64	1.54
1	I	333	PHE	N-CA	7.27	1.54	1.45
1	D	76	LYS	C-O	7.26	1.33	1.24
1	G	441	HIS	CG-ND1	-7.26	1.30	1.38
1	H	159	THR	N-CA	7.26	1.54	1.46
1	E	70	VAL	N-CA	-7.26	1.37	1.46
1	K	45	ASP	C-N	-7.26	1.24	1.33
1	P	358	VAL	N-CA	-7.26	1.37	1.46
1	P	7	VAL	C-N	-7.26	1.25	1.33
1	B	430	ALA	C-N	-7.26	1.24	1.34
1	K	351	THR	N-CA	-7.26	1.35	1.46
1	M	153	ILE	N-CA	-7.26	1.37	1.46
1	L	286	ARG	NE-CZ	7.26	1.41	1.33
1	E	360	ARG	CZ-NH1	7.25	1.43	1.32
1	B	237	CYS	N-CA	-7.25	1.37	1.46
1	M	258	GLY	CA-C	7.25	1.62	1.51
1	B	29	ARG	C-O	7.25	1.32	1.24
1	K	166	ALA	C-N	-7.25	1.24	1.34
1	K	148	GLU	N-CA	7.25	1.54	1.46
1	M	416	GLU	N-CA	-7.25	1.36	1.46
1	H	41	PRO	C-N	-7.25	1.24	1.33
1	O	135	LEU	N-CA	-7.25	1.37	1.46
1	P	267	GLY	N-CA	-7.25	1.34	1.45
1	E	58	THR	CA-C	-7.25	1.43	1.52
1	L	316	GLY	C-O	7.24	1.30	1.23
1	C	198	LYS	C-N	-7.24	1.23	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	74	ALA	N-CA	7.24	1.55	1.46
1	D	274	HIS	ND1-CE1	7.24	1.39	1.32
1	E	472	VAL	CA-C	-7.24	1.43	1.52
1	G	327	SER	N-CA	7.24	1.55	1.46
1	J	334	VAL	CA-CB	7.24	1.64	1.54
1	C	428	LEU	C-O	7.24	1.32	1.24
1	F	286	ARG	N-CA	-7.24	1.35	1.46
1	J	97	VAL	N-CA	-7.24	1.37	1.46
1	M	379	VAL	CA-C	7.24	1.61	1.52
1	I	325	LYS	CA-C	7.23	1.62	1.52
1	C	192	LEU	C-O	-7.23	1.14	1.24
1	M	348	ARG	C-O	7.23	1.32	1.23
1	G	61	GLY	C-O	7.23	1.33	1.23
1	M	164	GLU	N-CA	-7.23	1.36	1.46
1	A	344	THR	C-N	-7.23	1.24	1.33
1	P	46	LYS	C-N	-7.23	1.23	1.33
1	A	370	GLY	N-CA	-7.23	1.36	1.45
1	P	200	GLY	N-CA	7.23	1.55	1.45
1	G	310	LEU	C-N	7.22	1.43	1.33
1	E	445	GLY	C-N	7.22	1.43	1.33
1	J	26	LEU	C-O	7.22	1.33	1.24
1	K	138	ILE	CA-CB	7.22	1.62	1.54
1	E	212	VAL	N-CA	-7.22	1.37	1.46
1	F	355	ILE	CA-CB	7.22	1.62	1.54
1	F	104	LEU	C-O	-7.22	1.15	1.24
1	I	252	ALA	N-CA	7.21	1.55	1.46
1	F	379	VAL	C-O	7.21	1.32	1.24
1	F	418	ILE	CA-CB	-7.21	1.44	1.54
1	H	119	ILE	C-O	-7.21	1.16	1.23
1	I	311	SER	CA-C	7.21	1.61	1.52
1	J	342	ALA	CA-C	7.21	1.62	1.52
1	P	72	HIS	CG-CD2	-7.21	1.27	1.35
1	K	427	GLY	CA-C	-7.21	1.41	1.51
1	O	494	ILE	C-N	7.21	1.43	1.33
1	F	403	ARG	NE-CZ	7.21	1.41	1.33
1	A	252	ALA	C-O	7.20	1.33	1.24
1	J	144	ALA	C-O	-7.20	1.14	1.24
1	B	416	GLU	N-CA	-7.20	1.36	1.46
1	M	423	ALA	C-O	7.20	1.32	1.24
1	M	202	SER	C-O	-7.20	1.15	1.24
1	N	268	ILE	CA-C	7.20	1.61	1.52
1	F	274	HIS	CG-ND1	7.19	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	197	LYS	N-CA	-7.19	1.37	1.46
1	O	377	ARG	CD-NE	7.19	1.56	1.46
1	D	356	GLU	C-O	7.19	1.33	1.24
1	H	35	VAL	C-O	-7.19	1.15	1.24
1	M	480	ALA	N-CA	-7.19	1.38	1.46
1	L	361	ALA	C-N	-7.18	1.24	1.33
1	M	29	ARG	N-CA	-7.18	1.37	1.46
1	N	318	ALA	CA-C	7.18	1.61	1.52
1	A	121	VAL	CA-CB	7.18	1.62	1.54
1	H	198	LYS	N-CA	-7.18	1.37	1.46
1	O	299	THR	C-N	7.18	1.44	1.33
1	I	453	VAL	C-N	7.18	1.43	1.33
1	O	455	THR	C-N	7.18	1.44	1.33
1	K	25	ILE	N-CA	7.18	1.55	1.46
1	M	168	GLU	N-CA	-7.18	1.36	1.46
1	E	452	ASN	C-N	-7.18	1.24	1.33
1	I	120	VAL	C-O	-7.18	1.15	1.24
1	F	70	VAL	CA-C	7.18	1.60	1.52
1	I	431	ILE	N-CA	-7.18	1.38	1.46
1	J	72	HIS	CA-CB	7.18	1.64	1.53
1	H	292	MET	C-N	-7.17	1.24	1.33
1	L	47	MET	C-N	7.17	1.42	1.33
1	N	303	VAL	CA-C	7.17	1.60	1.52
1	E	232	ILE	N-CA	7.17	1.55	1.46
1	M	339	HIS	CG-ND1	7.17	1.46	1.38
1	E	364	ASP	C-O	-7.17	1.15	1.24
1	P	72	HIS	C-O	-7.17	1.15	1.24
1	F	237	CYS	N-CA	-7.17	1.36	1.45
1	E	295	LEU	C-N	-7.16	1.24	1.33
1	A	392	LYS	CA-C	-7.16	1.43	1.52
1	E	192	LEU	C-N	7.16	1.40	1.33
1	E	374	GLU	CA-CB	7.16	1.65	1.53
1	J	486	MET	C-N	7.16	1.43	1.33
1	K	476	ALA	N-CA	-7.16	1.37	1.46
1	L	441	HIS	CG-ND1	-7.16	1.30	1.38
1	B	16	MET	C-N	7.16	1.44	1.33
1	C	177	ALA	C-N	7.16	1.43	1.33
1	K	62	VAL	CA-C	7.16	1.61	1.52
1	E	64	ILE	C-O	7.16	1.32	1.24
1	H	74	ALA	CA-CB	-7.16	1.42	1.53
1	I	49	VAL	CA-C	7.15	1.61	1.52
1	L	287	VAL	N-CA	7.15	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	325	LYS	C-N	-7.15	1.24	1.33
1	P	274	HIS	CA-CB	-7.15	1.42	1.53
1	M	47	MET	N-CA	7.15	1.55	1.46
1	B	186	GLY	C-N	-7.15	1.24	1.33
1	H	495	ALA	N-CA	-7.15	1.36	1.45
1	J	418	ILE	C-O	-7.15	1.15	1.24
1	C	360	ARG	CD-NE	-7.14	1.36	1.46
1	D	316	GLY	C-O	7.14	1.30	1.24
1	I	195	ILE	CA-C	7.14	1.61	1.52
1	H	256	ALA	CA-C	7.14	1.62	1.52
1	B	372	THR	CA-C	7.14	1.62	1.52
1	B	285	ARG	CA-CB	-7.14	1.43	1.53
1	J	382	GLY	N-CA	7.13	1.55	1.45
1	N	51	ASP	N-CA	7.13	1.55	1.46
1	O	142	VAL	C-O	7.13	1.32	1.24
1	G	22	ARG	C-O	7.13	1.32	1.24
1	I	33	GLU	CA-C	-7.13	1.43	1.52
1	N	258	GLY	C-O	7.13	1.33	1.23
1	F	227	VAL	C-O	-7.13	1.16	1.23
1	A	355	ILE	C-O	7.13	1.32	1.24
1	D	467	VAL	C-O	-7.13	1.16	1.23
1	L	460	ASP	C-O	7.13	1.32	1.24
1	O	257	SER	CA-C	-7.12	1.43	1.52
1	I	458	VAL	CA-CB	-7.12	1.45	1.54
1	J	244	SER	C-N	7.12	1.43	1.33
1	D	98	VAL	CA-C	-7.12	1.44	1.52
1	L	233	ALA	C-O	7.12	1.32	1.23
1	L	362	VAL	C-O	7.12	1.31	1.24
1	N	96	ALA	C-O	-7.12	1.15	1.24
1	K	489	ARG	N-CA	-7.12	1.37	1.46
1	O	74	ALA	N-CA	-7.12	1.37	1.46
1	I	188	VAL	C-O	7.12	1.32	1.24
1	O	11	ASN	C-O	7.12	1.32	1.24
1	C	134	LEU	CA-CB	-7.11	1.42	1.53
1	O	132	GLN	CA-C	7.11	1.61	1.52
1	O	160	GLY	C-N	-7.11	1.23	1.33
1	N	113	GLN	CA-C	7.11	1.62	1.52
1	N	165	LYS	C-O	7.11	1.32	1.24
1	O	70	VAL	C-N	7.11	1.43	1.33
1	C	359	ALA	C-O	-7.11	1.15	1.24
1	E	404	GLU	C-N	7.11	1.43	1.33
1	H	20	ALA	C-O	7.11	1.31	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	195	ILE	CA-CB	7.10	1.64	1.54
1	D	401	SER	N-CA	7.10	1.55	1.46
1	E	457	ALA	C-O	7.10	1.31	1.23
1	G	370	GLY	N-CA	7.10	1.55	1.45
1	I	286	ARG	C-O	-7.10	1.15	1.24
1	K	297	LYS	CA-C	7.10	1.61	1.52
1	E	358	VAL	CA-C	7.09	1.60	1.52
1	J	409	ARG	C-O	-7.09	1.15	1.24
1	A	62	VAL	C-O	7.09	1.32	1.24
1	P	116	HIS	CG-ND1	-7.09	1.30	1.38
1	F	294	LYS	C-O	-7.09	1.15	1.24
1	I	18	ARG	C-N	7.09	1.43	1.33
1	K	347	ILE	CA-CB	7.09	1.63	1.54
1	M	440	ALA	CA-C	7.09	1.62	1.52
1	B	200	GLY	C-O	7.08	1.33	1.23
1	A	343	VAL	C-O	7.08	1.31	1.24
1	J	189	ASP	C-O	-7.08	1.15	1.24
1	P	386	GLU	N-CA	7.08	1.55	1.46
1	G	29	ARG	CD-NE	-7.08	1.36	1.46
1	O	77	MET	N-CA	-7.08	1.37	1.46
1	P	313	GLN	C-O	7.08	1.32	1.24
1	M	306	ASN	N-CA	-7.08	1.37	1.46
1	F	477	ILE	CA-C	7.08	1.61	1.52
1	J	63	THR	CB-OG1	7.08	1.55	1.43
1	K	276	LEU	C-O	7.08	1.33	1.24
1	P	285	ARG	CZ-NH2	7.08	1.42	1.33
1	B	420	ARG	C-N	7.08	1.43	1.33
1	B	377	ARG	CZ-NH1	7.08	1.42	1.32
1	H	201	ALA	C-N	-7.08	1.26	1.33
1	J	33	GLU	N-CA	-7.07	1.38	1.46
1	K	492	ASP	C-O	7.07	1.32	1.23
1	N	328	GLY	C-N	-7.07	1.23	1.33
1	P	161	LYS	N-CA	7.07	1.55	1.45
1	H	279	GLU	CA-C	7.07	1.61	1.53
1	M	107	ALA	C-N	-7.07	1.24	1.33
1	B	66	ARG	NE-CZ	-7.07	1.25	1.33
1	C	364	ASP	C-N	-7.07	1.24	1.34
1	F	139	ALA	C-N	-7.07	1.23	1.33
1	F	294	LYS	C-N	7.07	1.44	1.33
1	N	357	GLU	CA-CB	7.06	1.64	1.53
1	E	384	SER	C-O	-7.06	1.14	1.23
1	O	471	ARG	N-CA	7.06	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	283	ALA	N-CA	7.06	1.54	1.46
1	C	148	GLU	C-O	7.06	1.32	1.24
1	K	88	GLU	CA-C	7.06	1.59	1.53
1	F	406	LEU	C-O	7.06	1.33	1.24
1	J	67	GLU	CA-C	7.05	1.62	1.52
1	O	15	TYR	C-O	-7.05	1.15	1.23
1	H	324	ARG	NE-CZ	7.05	1.40	1.33
1	I	342	ALA	CA-CB	-7.05	1.41	1.53
1	D	96	ALA	N-CA	-7.05	1.37	1.46
1	H	255	LYS	C-N	7.05	1.43	1.33
1	A	129	GLN	C-O	-7.05	1.15	1.24
1	F	284	ALA	C-O	7.05	1.32	1.24
1	I	330	SER	CA-CB	-7.05	1.43	1.53
1	A	190	LYS	N-CA	7.05	1.54	1.46
1	C	431	ILE	CA-CB	7.05	1.66	1.54
1	D	404	GLU	CA-C	-7.04	1.43	1.52
1	N	353	HIS	CB-CG	-7.04	1.40	1.50
1	M	198	LYS	C-O	7.04	1.31	1.24
1	P	83	LYS	C-O	7.04	1.32	1.24
1	N	98	VAL	CA-CB	-7.04	1.44	1.54
1	A	67	GLU	C-O	-7.04	1.15	1.24
1	H	383	GLY	C-N	-7.04	1.24	1.33
1	M	170	LEU	CA-C	7.04	1.62	1.52
1	A	249	ASP	N-CA	7.04	1.55	1.46
1	C	322	GLU	C-O	7.04	1.31	1.24
1	G	70	VAL	CA-C	-7.04	1.43	1.52
1	O	340	PRO	N-CA	-7.04	1.40	1.47
1	J	471	ARG	NE-CZ	7.03	1.40	1.33
1	O	475	GLN	CA-C	7.03	1.59	1.53
1	I	370	GLY	C-O	-7.03	1.14	1.23
1	K	69	SER	C-O	7.03	1.32	1.24
1	N	275	TYR	C-N	7.03	1.43	1.34
1	O	394	ARG	N-CA	-7.03	1.38	1.46
1	F	186	GLY	C-N	-7.02	1.23	1.33
1	F	365	ALA	N-CA	7.02	1.55	1.46
1	J	199	SER	CA-C	-7.02	1.44	1.52
1	B	108	GLU	C-O	7.02	1.32	1.24
1	J	135	LEU	C-N	-7.02	1.24	1.33
1	K	174	ILE	C-N	7.02	1.41	1.34
1	L	137	THR	C-N	-7.02	1.26	1.33
1	P	271	LEU	N-CA	-7.02	1.37	1.46
1	B	447	LYS	N-CA	-7.02	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	100	ALA	C-O	-7.02	1.15	1.24
1	P	324	ARG	CZ-NH2	-7.02	1.24	1.33
1	M	144	ALA	C-O	-7.02	1.16	1.24
1	O	420	ARG	CZ-NH2	-7.02	1.24	1.33
1	H	332	ILE	C-O	7.02	1.31	1.24
1	B	31	ILE	CA-CB	-7.01	1.45	1.54
1	L	70	VAL	C-N	7.01	1.43	1.33
1	P	93	THR	C-N	-7.01	1.24	1.33
1	I	446	ASN	CA-C	7.01	1.62	1.52
1	M	11	ASN	C-O	7.01	1.32	1.24
1	G	315	LEU	C-O	7.01	1.33	1.23
1	H	156	THR	CB-OG1	-7.00	1.32	1.43
1	M	489	ARG	CZ-NH2	7.00	1.42	1.33
1	O	81	VAL	C-O	-7.00	1.15	1.24
1	D	476	ALA	CA-CB	-7.00	1.41	1.53
1	I	155	MET	N-CA	7.00	1.54	1.46
1	A	385	THR	N-CA	-7.00	1.37	1.46
1	G	167	LYS	C-N	-7.00	1.25	1.33
1	O	409	ARG	C-O	7.00	1.32	1.24
1	A	457	ALA	N-CA	7.00	1.55	1.46
1	N	356	GLU	C-O	-7.00	1.15	1.24
1	J	179	SER	C-O	7.00	1.33	1.24
1	B	127	ALA	CA-C	6.99	1.62	1.52
1	K	112	ASP	CA-CB	-6.99	1.44	1.54
1	A	39	LEU	CA-CB	-6.99	1.42	1.53
1	L	282	VAL	C-O	-6.99	1.14	1.24
1	M	61	GLY	CA-C	6.99	1.60	1.52
1	D	260	ASN	N-CA	-6.99	1.37	1.46
1	M	451	LEU	CA-C	-6.99	1.46	1.53
1	K	366	VAL	C-O	6.99	1.33	1.24
1	A	444	ASN	C-O	-6.98	1.16	1.23
1	I	483	SER	N-CA	-6.98	1.36	1.46
1	J	195	ILE	N-CA	6.98	1.55	1.46
1	M	60	ASP	CA-CB	-6.98	1.42	1.53
1	M	158	ILE	C-O	6.98	1.32	1.24
1	N	406	LEU	CA-CB	6.98	1.64	1.53
1	E	26	LEU	CA-C	6.98	1.61	1.52
1	I	333	PHE	C-N	6.98	1.43	1.33
1	A	36	ARG	CZ-NH1	-6.97	1.23	1.32
1	D	87	LYS	C-O	6.97	1.32	1.24
1	G	267	GLY	N-CA	6.97	1.54	1.44
1	A	159	THR	C-O	-6.97	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	423	ALA	N-CA	6.97	1.54	1.46
1	D	287	VAL	C-O	6.97	1.32	1.24
1	N	161	LYS	C-O	-6.97	1.13	1.23
1	O	403	ARG	CA-C	-6.97	1.45	1.53
1	F	285	ARG	CZ-NH2	6.97	1.42	1.33
1	P	182	VAL	CA-CB	-6.97	1.45	1.54
1	M	113	GLN	C-O	-6.96	1.14	1.24
1	M	446	ASN	C-N	-6.96	1.24	1.33
1	J	92	GLY	CA-C	-6.96	1.42	1.51
1	N	196	GLU	CA-C	-6.96	1.44	1.52
1	A	122	LYS	CA-C	-6.96	1.42	1.52
1	J	463	GLU	CA-C	6.96	1.62	1.52
1	L	342	ALA	CA-C	6.96	1.62	1.52
1	P	35	VAL	CA-C	6.96	1.61	1.53
1	A	200	GLY	C-O	6.96	1.33	1.23
1	A	310	LEU	N-CA	6.96	1.55	1.46
1	G	336	GLU	C-N	-6.96	1.24	1.33
1	H	164	GLU	C-O	-6.96	1.15	1.24
1	G	320	LEU	C-O	6.96	1.31	1.23
1	B	350	THR	C-N	6.95	1.43	1.33
1	D	363	ASP	CA-C	6.95	1.62	1.52
1	M	140	CYS	C-N	6.95	1.43	1.33
1	D	20	ALA	N-CA	6.95	1.54	1.46
1	M	315	LEU	C-O	-6.95	1.15	1.23
1	H	99	VAL	C-O	-6.95	1.15	1.24
1	E	427	GLY	C-O	-6.95	1.14	1.23
1	F	174	ILE	C-N	6.94	1.42	1.33
1	F	286	ARG	NE-CZ	6.94	1.40	1.33
1	F	420	ARG	CZ-NH2	-6.94	1.24	1.33
1	I	307	ILE	N-CA	-6.94	1.37	1.46
1	K	43	GLY	N-CA	6.94	1.55	1.45
1	A	394	ARG	NE-CZ	-6.94	1.25	1.33
1	I	268	ILE	N-CA	-6.94	1.38	1.46
1	G	436	LYS	C-O	6.94	1.32	1.24
1	G	249	ASP	C-O	6.93	1.33	1.24
1	N	452	ASN	C-O	6.93	1.32	1.23
1	B	224	PRO	C-O	6.93	1.32	1.24
1	B	273	GLN	N-CA	-6.93	1.38	1.46
1	N	210	LYS	N-CA	-6.93	1.37	1.46
1	C	345	MET	C-O	6.93	1.31	1.24
1	F	489	ARG	C-O	6.93	1.32	1.24
1	I	270	ASP	C-N	-6.93	1.24	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	338	LYS	CA-C	6.93	1.61	1.52
1	J	369	VAL	CA-C	6.93	1.62	1.52
1	K	101	GLY	N-CA	-6.93	1.35	1.45
1	N	13	LYS	CA-C	6.93	1.61	1.52
1	A	298	ALA	C-O	6.93	1.32	1.24
1	P	167	LYS	CA-C	-6.93	1.43	1.52
1	B	203	ILE	N-CA	-6.92	1.37	1.46
1	N	127	ALA	C-O	6.92	1.33	1.24
1	I	18	ARG	N-CA	-6.92	1.38	1.46
1	F	281	ILE	N-CA	-6.92	1.37	1.46
1	L	370	GLY	CA-C	6.92	1.61	1.51
1	H	306	ASN	N-CA	-6.92	1.37	1.46
1	K	154	ALA	C-O	6.92	1.32	1.24
1	E	361	ALA	C-O	6.92	1.32	1.24
1	C	142	VAL	C-N	6.91	1.44	1.33
1	D	328	GLY	C-N	-6.91	1.24	1.33
1	F	355	ILE	C-O	6.91	1.31	1.24
1	O	46	LYS	C-N	-6.91	1.23	1.33
1	L	222	GLN	C-O	6.91	1.32	1.24
1	H	141	GLU	C-O	6.91	1.32	1.23
1	J	373	ILE	N-CA	-6.91	1.37	1.46
1	N	23	MET	C-N	6.91	1.43	1.33
1	J	438	ARG	NE-CZ	6.90	1.40	1.33
1	B	117	PRO	N-CA	-6.90	1.38	1.47
1	D	394	ARG	CD-NE	6.90	1.55	1.46
1	J	181	VAL	C-N	6.90	1.40	1.33
1	D	373	ILE	N-CA	-6.90	1.38	1.46
1	G	225	LYS	N-CA	-6.90	1.38	1.46
1	H	251	VAL	C-N	6.90	1.43	1.33
1	I	442	ALA	CA-CB	6.90	1.63	1.53
1	J	410	ALA	C-N	-6.90	1.23	1.33
1	M	468	GLU	CA-C	6.90	1.59	1.52
1	I	361	ALA	C-N	-6.89	1.25	1.33
1	F	445	GLY	N-CA	6.89	1.52	1.45
1	L	26	LEU	C-N	-6.89	1.25	1.33
1	J	311	SER	C-O	6.89	1.32	1.24
1	C	214	VAL	CA-CB	6.88	1.63	1.54
1	E	373	ILE	C-N	6.88	1.42	1.33
1	L	213	LEU	N-CA	6.88	1.54	1.46
1	C	140	CYS	C-O	-6.88	1.16	1.23
1	F	9	PRO	N-CA	6.88	1.55	1.47
1	I	21	GLN	N-CA	6.88	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	419	PRO	CA-CB	-6.88	1.44	1.53
1	K	217	GLU	C-O	6.88	1.32	1.24
1	H	294	LYS	N-CA	-6.88	1.37	1.46
1	K	388	GLU	C-O	-6.88	1.16	1.24
1	H	423	ALA	C-O	6.88	1.32	1.24
1	P	461	MET	C-N	6.88	1.42	1.33
1	A	447	LYS	N-CA	-6.87	1.38	1.46
1	H	409	ARG	C-O	-6.87	1.16	1.24
1	K	209	ILE	N-CA	6.87	1.54	1.46
1	N	478	GLN	C-O	-6.87	1.16	1.24
1	C	493	VAL	CA-CB	-6.87	1.45	1.53
1	O	338	LYS	CA-C	6.87	1.60	1.53
1	P	201	ALA	CA-C	6.87	1.61	1.52
1	A	65	LEU	CA-C	6.87	1.61	1.52
1	A	359	ALA	CA-C	-6.87	1.43	1.52
1	C	231	LYS	C-O	-6.87	1.14	1.23
1	L	198	LYS	N-CA	6.87	1.54	1.45
1	O	367	GLY	C-O	6.87	1.32	1.23
1	E	219	VAL	N-CA	-6.87	1.37	1.46
1	F	442	ALA	N-CA	-6.87	1.37	1.46
1	I	484	THR	C-O	-6.87	1.14	1.24
1	L	239	ILE	CA-C	6.87	1.61	1.53
1	M	433	ILE	CA-CB	6.87	1.63	1.54
1	C	150	LEU	CA-C	-6.86	1.44	1.52
1	E	264	CYS	CA-C	-6.86	1.44	1.52
1	G	377	ARG	CZ-NH1	-6.86	1.23	1.32
1	K	183	ASP	CA-CB	6.86	1.63	1.53
1	E	26	LEU	N-CA	6.86	1.54	1.46
1	H	340	PRO	C-O	6.85	1.32	1.23
1	A	227	VAL	C-N	6.85	1.43	1.33
1	C	78	LEU	N-CA	-6.85	1.37	1.46
1	D	172	GLU	CA-C	-6.85	1.43	1.52
1	F	158	ILE	CA-C	6.85	1.61	1.52
1	N	197	LYS	C-O	6.85	1.32	1.24
1	H	221	ALA	C-N	-6.85	1.24	1.34
1	C	217	GLU	N-CA	-6.85	1.37	1.45
1	E	396	TYR	N-CA	-6.85	1.37	1.46
1	H	8	LEU	C-N	6.85	1.42	1.33
1	H	126	ALA	C-N	6.85	1.43	1.33
1	C	238	ALA	C-N	6.85	1.42	1.33
1	E	18	ARG	CZ-NH2	6.85	1.42	1.33
1	L	330	SER	CA-C	6.85	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	330	SER	N-CA	6.85	1.54	1.45
1	A	468	GLU	CA-C	6.84	1.61	1.52
1	E	455	THR	CA-C	6.84	1.61	1.52
1	H	14	ARG	C-N	6.84	1.42	1.33
1	J	402	GLY	C-O	-6.84	1.14	1.23
1	M	100	ALA	CA-C	6.84	1.61	1.52
1	M	393	LEU	N-CA	-6.84	1.37	1.46
1	O	191	ASP	CA-C	-6.84	1.43	1.52
1	C	190	LYS	C-O	6.84	1.32	1.24
1	J	253	GLU	C-O	6.84	1.31	1.24
1	A	109	GLU	C-N	6.84	1.42	1.33
1	P	285	ARG	CD-NE	-6.84	1.36	1.46
1	F	423	ALA	N-CA	-6.84	1.37	1.46
1	K	271	LEU	C-O	6.84	1.33	1.24
1	D	243	ALA	C-O	6.84	1.32	1.24
1	K	96	ALA	CA-C	-6.84	1.43	1.52
1	D	274	HIS	CD2-NE2	-6.83	1.30	1.37
1	E	285	ARG	CD-NE	-6.83	1.36	1.46
1	G	144	ALA	CA-C	-6.83	1.44	1.52
1	B	342	ALA	N-CA	-6.83	1.37	1.45
1	G	301	ALA	CA-C	6.83	1.61	1.52
1	J	351	THR	C-N	6.83	1.43	1.33
1	L	429	ASP	CA-C	-6.83	1.44	1.52
1	C	63	THR	N-CA	-6.83	1.37	1.46
1	F	296	ALA	CA-C	-6.83	1.43	1.52
1	K	118	THR	C-N	-6.83	1.25	1.33
1	B	216	LYS	CA-C	6.83	1.60	1.52
1	I	135	LEU	C-N	6.83	1.42	1.33
1	J	48	LEU	C-N	6.83	1.43	1.33
1	N	202	SER	C-N	-6.83	1.24	1.33
1	M	351	THR	N-CA	-6.82	1.36	1.45
1	N	429	ASP	CA-CB	-6.82	1.44	1.53
1	O	192	LEU	C-O	-6.82	1.15	1.24
1	G	409	ARG	NE-CZ	-6.82	1.25	1.33
1	M	434	LEU	C-O	6.82	1.31	1.24
1	B	7	VAL	C-N	-6.82	1.23	1.33
1	E	374	GLU	C-N	6.82	1.43	1.33
1	G	197	LYS	CA-CB	6.82	1.62	1.53
1	N	34	THR	N-CA	6.82	1.54	1.46
1	N	146	ASP	C-O	-6.82	1.15	1.24
1	O	386	GLU	C-O	6.82	1.32	1.24
1	E	461	MET	C-N	-6.81	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	83	LYS	C-O	6.81	1.32	1.24
1	O	466	VAL	CA-CB	6.81	1.63	1.53
1	P	123	GLY	C-O	6.81	1.33	1.23
1	P	279	GLU	C-N	-6.81	1.24	1.33
1	D	370	GLY	C-O	6.81	1.31	1.24
1	D	476	ALA	C-O	6.81	1.32	1.24
1	E	225	LYS	C-N	6.81	1.43	1.33
1	E	416	GLU	N-CA	6.81	1.54	1.46
1	B	302	ASN	C-N	-6.81	1.23	1.33
1	A	148	GLU	C-N	-6.80	1.25	1.33
1	E	66	ARG	CA-C	6.80	1.61	1.52
1	I	371	CYS	C-N	-6.80	1.24	1.33
1	O	445	GLY	CA-C	-6.80	1.42	1.51
1	A	291	ASP	N-CA	-6.80	1.37	1.46
1	B	66	ARG	CZ-NH2	6.80	1.42	1.33
1	B	254	ILE	C-O	6.80	1.31	1.24
1	B	288	LYS	N-CA	6.80	1.54	1.45
1	H	189	ASP	CA-CB	6.80	1.63	1.53
1	H	292	MET	CA-C	6.80	1.61	1.52
1	M	441	HIS	ND1-CE1	6.80	1.39	1.32
1	J	143	GLY	C-O	-6.80	1.15	1.23
1	O	148	GLU	N-CA	6.80	1.54	1.46
1	P	465	GLY	N-CA	-6.80	1.35	1.45
1	A	141	GLU	CA-C	-6.80	1.44	1.52
1	G	471	ARG	CZ-NH2	-6.80	1.24	1.33
1	A	10	GLU	C-O	6.79	1.32	1.24
1	E	345	MET	CA-C	-6.79	1.44	1.53
1	I	133	GLU	C-N	-6.79	1.24	1.33
1	N	456	GLY	CA-C	6.79	1.61	1.51
1	B	56	VAL	C-N	-6.79	1.24	1.33
1	B	224	PRO	CA-CB	-6.79	1.44	1.53
1	J	18	ARG	CZ-NH2	-6.79	1.24	1.33
1	J	22	ARG	C-N	-6.79	1.24	1.33
1	O	264	CYS	CA-CB	-6.79	1.44	1.53
1	I	273	GLN	C-O	-6.79	1.16	1.24
1	F	359	ALA	N-CA	-6.79	1.37	1.46
1	I	243	ALA	C-N	6.79	1.43	1.33
1	M	378	ILE	CA-C	6.79	1.61	1.52
1	A	15	TYR	CA-C	-6.78	1.43	1.52
1	C	32	ALA	CA-C	6.78	1.61	1.52
1	E	421	THR	CB-OG1	6.78	1.54	1.43
1	P	230	ALA	C-N	-6.78	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	38	THR	CA-CB	6.78	1.65	1.53
1	G	324	ARG	CD-NE	6.78	1.55	1.46
1	I	291	ASP	C-O	6.78	1.32	1.24
1	E	193	ILE	C-N	6.78	1.42	1.33
1	P	231	LYS	C-N	6.78	1.42	1.33
1	C	289	LYS	CA-C	-6.77	1.43	1.52
1	F	358	VAL	N-CA	6.77	1.54	1.46
1	H	477	ILE	C-N	6.77	1.43	1.33
1	L	205	ASP	N-CA	6.77	1.54	1.46
1	B	42	LYS	CA-C	6.77	1.61	1.52
1	D	377	ARG	C-O	6.77	1.31	1.23
1	O	441	HIS	ND1-CE1	6.77	1.39	1.32
1	A	181	VAL	N-CA	6.77	1.54	1.46
1	C	400	ILE	C-O	6.77	1.32	1.24
1	D	52	LEU	CA-C	6.77	1.61	1.52
1	E	241	GLU	CA-CB	6.77	1.63	1.53
1	F	366	VAL	N-CA	6.77	1.55	1.46
1	J	249	ASP	N-CA	6.77	1.55	1.46
1	J	281	ILE	CA-C	6.77	1.61	1.52
1	L	101	GLY	N-CA	6.76	1.55	1.45
1	M	339	HIS	N-CA	6.76	1.53	1.46
1	H	489	ARG	C-O	-6.76	1.16	1.24
1	K	440	ALA	C-N	-6.76	1.24	1.33
1	M	214	VAL	C-O	6.76	1.32	1.24
1	F	62	VAL	CA-CB	-6.76	1.45	1.54
1	L	153	ILE	CA-CB	-6.76	1.47	1.54
1	B	105	ARG	N-CA	6.76	1.54	1.46
1	I	32	ALA	N-CA	6.76	1.54	1.46
1	C	242	THR	CA-C	6.76	1.61	1.52
1	P	342	ALA	CA-C	6.76	1.60	1.52
1	C	385	THR	C-N	-6.75	1.25	1.33
1	B	461	MET	N-CA	-6.75	1.38	1.46
1	G	419	PRO	CA-CB	-6.75	1.43	1.53
1	F	64	ILE	C-O	6.75	1.32	1.24
1	G	317	ASP	N-CA	-6.75	1.38	1.46
1	N	420	ARG	N-CA	-6.75	1.38	1.46
1	K	339	HIS	CG-ND1	-6.75	1.30	1.38
1	P	427	GLY	N-CA	-6.75	1.35	1.45
1	K	272	ALA	CA-CB	-6.75	1.42	1.53
1	N	251	VAL	N-CA	6.75	1.54	1.46
1	P	471	ARG	NE-CZ	6.75	1.40	1.33
1	E	107	ALA	C-N	6.74	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	43	GLY	N-CA	6.74	1.55	1.45
1	G	266	LYS	C-N	-6.74	1.25	1.33
1	I	190	LYS	N-CA	-6.74	1.38	1.46
1	M	431	ILE	CA-C	6.74	1.62	1.52
1	N	163	ALA	C-O	6.74	1.32	1.24
1	O	286	ARG	CZ-NH2	6.74	1.42	1.33
1	B	301	ALA	N-CA	-6.74	1.36	1.45
1	H	164	GLU	N-CA	-6.74	1.37	1.46
1	P	462	CYS	N-CA	-6.74	1.38	1.46
1	B	490	ILE	C-N	-6.74	1.23	1.33
1	I	281	ILE	CA-CB	6.74	1.61	1.53
1	K	285	ARG	NE-CZ	6.74	1.40	1.33
1	D	374	GLU	N-CA	-6.73	1.38	1.46
1	F	310	LEU	CA-C	6.73	1.62	1.53
1	E	349	GLY	N-CA	-6.73	1.38	1.45
1	G	353	HIS	CG-CD2	-6.73	1.28	1.35
1	A	31	ILE	CA-CB	-6.73	1.47	1.54
1	F	274	HIS	CE1-NE2	6.73	1.39	1.32
1	H	46	LYS	N-CA	-6.73	1.38	1.46
1	K	105	ARG	C-N	-6.73	1.24	1.33
1	E	53	GLY	CA-C	6.73	1.61	1.51
1	L	181	VAL	C-O	-6.73	1.16	1.24
1	M	60	ASP	C-O	6.73	1.32	1.24
1	P	73	PRO	CA-C	6.73	1.61	1.52
1	J	274	HIS	CD2-NE2	-6.73	1.30	1.37
1	N	37	SER	CA-C	-6.73	1.43	1.52
1	C	220	SER	C-O	-6.72	1.15	1.23
1	F	162	GLY	C-O	6.72	1.32	1.23
1	K	47	MET	C-O	6.72	1.31	1.24
1	P	181	VAL	N-CA	6.72	1.55	1.46
1	C	250	MET	C-O	6.72	1.32	1.24
1	E	226	LYS	C-O	-6.72	1.15	1.24
1	E	383	GLY	N-CA	6.72	1.55	1.45
1	J	323	GLU	N-CA	6.72	1.54	1.46
1	H	455	THR	CA-C	6.72	1.61	1.52
1	I	110	LEU	CA-C	-6.72	1.44	1.52
1	M	79	ILE	C-O	6.72	1.31	1.24
1	O	100	ALA	CA-C	-6.72	1.43	1.52
1	O	135	LEU	C-N	-6.72	1.25	1.34
1	O	217	GLU	N-CA	6.72	1.54	1.45
1	C	404	GLU	N-CA	-6.72	1.36	1.46
1	P	294	LYS	CA-CB	-6.72	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	353	HIS	CD2-NE2	-6.72	1.30	1.37
1	O	171	ALA	C-O	6.72	1.33	1.24
1	O	394	ARG	CZ-NH2	6.72	1.42	1.33
1	D	139	ALA	C-O	-6.71	1.15	1.24
1	G	302	ASN	N-CA	-6.71	1.38	1.46
1	G	431	ILE	N-CA	-6.71	1.38	1.46
1	L	135	LEU	C-N	6.71	1.43	1.33
1	L	441	HIS	C-N	-6.71	1.25	1.33
1	K	420	ARG	CA-CB	-6.71	1.42	1.53
1	D	142	VAL	C-O	-6.71	1.16	1.24
1	J	263	PHE	C-O	6.71	1.31	1.24
1	P	139	ALA	N-CA	6.71	1.54	1.46
1	G	242	THR	CA-C	6.71	1.60	1.52
1	L	289	LYS	CA-C	6.71	1.61	1.52
1	P	339	HIS	CA-CB	6.71	1.62	1.53
1	B	138	ILE	CA-C	6.71	1.62	1.52
1	C	305	THR	N-CA	-6.71	1.37	1.46
1	A	35	VAL	C-N	-6.70	1.25	1.33
1	C	22	ARG	CZ-NH1	-6.70	1.23	1.32
1	H	450	GLY	C-O	6.70	1.30	1.24
1	A	37	SER	C-N	6.70	1.42	1.33
1	C	409	ARG	C-O	-6.70	1.16	1.24
1	O	131	ALA	CA-CB	-6.70	1.42	1.53
1	G	280	GLY	N-CA	-6.70	1.36	1.45
1	L	47	MET	C-O	-6.70	1.15	1.23
1	L	411	PHE	N-CA	-6.70	1.37	1.46
1	L	470	LEU	CA-C	-6.70	1.43	1.52
1	H	384	SER	N-CA	6.70	1.54	1.46
1	B	448	CYS	CA-CB	-6.70	1.44	1.53
1	B	82	ALA	C-N	-6.70	1.24	1.33
1	C	436	LYS	C-N	6.70	1.42	1.33
1	F	111	LEU	C-O	-6.70	1.15	1.24
1	G	96	ALA	N-CA	-6.70	1.37	1.46
1	J	407	ALA	C-O	-6.70	1.16	1.24
1	K	478	GLN	N-CA	6.70	1.54	1.46
1	E	467	VAL	C-N	6.69	1.41	1.32
1	C	38	THR	C-O	6.69	1.32	1.24
1	I	303	VAL	C-N	6.69	1.43	1.33
1	L	275	TYR	C-O	6.69	1.32	1.23
1	F	178	VAL	C-O	6.69	1.32	1.24
1	N	287	VAL	CA-CB	-6.69	1.45	1.54
1	O	281	ILE	N-CA	-6.69	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	467	VAL	C-O	-6.69	1.17	1.24
1	B	209	ILE	N-CA	6.69	1.54	1.46
1	N	345	MET	C-N	6.69	1.42	1.33
1	O	454	PHE	N-CA	-6.69	1.37	1.46
1	P	354	VAL	N-CA	-6.69	1.36	1.46
1	D	136	LYS	CA-C	6.68	1.62	1.52
1	I	188	VAL	CA-CB	-6.68	1.45	1.54
1	N	104	LEU	C-O	6.68	1.32	1.23
1	O	147	LYS	CA-C	-6.68	1.44	1.52
1	D	457	ALA	N-CA	6.68	1.54	1.46
1	E	332	ILE	CA-C	6.68	1.60	1.52
1	J	58	THR	N-CA	-6.68	1.37	1.45
1	M	99	VAL	CA-CB	6.68	1.63	1.54
1	N	53	GLY	CA-C	6.68	1.61	1.52
1	A	100	ALA	C-O	6.68	1.32	1.24
1	G	353	HIS	C-O	-6.68	1.16	1.24
1	P	9	PRO	CA-CB	6.68	1.63	1.53
1	L	192	LEU	N-CA	6.68	1.55	1.46
1	K	29	ARG	CZ-NH2	-6.68	1.24	1.33
1	C	218	ARG	C-N	-6.67	1.24	1.33
1	K	197	LYS	CA-CB	6.67	1.63	1.53
1	O	471	ARG	CZ-NH1	6.67	1.42	1.32
1	B	342	ALA	C-N	-6.67	1.25	1.33
1	C	284	ALA	C-N	6.67	1.43	1.33
1	A	164	GLU	CA-C	-6.67	1.43	1.52
1	I	340	PRO	C-O	6.67	1.32	1.24
1	L	247	LEU	C-O	-6.67	1.15	1.24
1	F	235	LEU	CA-C	-6.67	1.44	1.52
1	P	281	ILE	CA-CB	6.67	1.61	1.54
1	M	105	ARG	CZ-NH2	-6.66	1.24	1.33
1	E	102	GLU	CA-C	6.66	1.61	1.52
1	E	471	ARG	CD-NE	-6.66	1.36	1.46
1	H	304	ILE	C-O	6.66	1.31	1.24
1	P	296	ALA	CA-C	-6.66	1.44	1.52
1	P	396	TYR	CA-C	6.66	1.61	1.52
1	F	328	GLY	N-CA	6.66	1.55	1.45
1	G	416	GLU	CA-C	6.66	1.60	1.52
1	H	127	ALA	C-O	-6.66	1.15	1.24
1	I	60	ASP	C-N	-6.66	1.25	1.33
1	J	278	LYS	C-O	6.66	1.31	1.24
1	E	127	ALA	CA-C	-6.66	1.43	1.52
1	N	197	LYS	N-CA	6.66	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	273	GLN	C-O	6.66	1.32	1.24
1	D	400	ILE	C-O	6.65	1.31	1.24
1	H	39	LEU	CA-C	-6.65	1.44	1.52
1	B	83	LYS	CA-C	6.65	1.61	1.52
1	G	138	ILE	CA-CB	6.65	1.63	1.54
1	K	130	LYS	C-N	6.65	1.43	1.33
1	B	290	SER	N-CA	-6.65	1.37	1.46
1	K	25	ILE	C-N	6.65	1.43	1.33
1	M	438	ARG	NE-CZ	-6.65	1.25	1.33
1	N	294	LYS	N-CA	-6.65	1.37	1.46
1	B	31	ILE	N-CA	-6.65	1.38	1.46
1	M	434	LEU	N-CA	-6.65	1.38	1.46
1	C	15	TYR	N-CA	6.64	1.54	1.46
1	B	420	ARG	NE-CZ	6.64	1.40	1.33
1	F	146	ASP	C-O	-6.64	1.16	1.23
1	F	241	GLU	C-O	-6.64	1.14	1.23
1	G	355	ILE	CA-CB	6.64	1.61	1.54
1	H	119	ILE	C-N	6.64	1.42	1.34
1	H	85	GLN	CA-C	-6.64	1.43	1.52
1	C	494	ILE	C-O	6.64	1.31	1.24
1	D	35	VAL	N-CA	6.64	1.54	1.46
1	E	18	ARG	N-CA	-6.64	1.37	1.46
1	N	474	THR	CB-OG1	-6.64	1.33	1.43
1	E	99	VAL	CA-CB	6.64	1.63	1.54
1	F	72	HIS	CD2-NE2	6.64	1.45	1.37
1	M	49	VAL	N-CA	6.64	1.54	1.46
1	O	167	LYS	CA-C	6.64	1.61	1.52
1	A	353	HIS	C-O	-6.63	1.16	1.24
1	H	268	ILE	C-N	6.63	1.42	1.33
1	N	143	GLY	CA-C	6.63	1.61	1.51
1	N	124	TYR	C-O	6.63	1.32	1.24
1	H	75	ALA	C-O	6.63	1.33	1.24
1	L	488	LEU	CA-C	-6.63	1.43	1.52
1	A	189	ASP	N-CA	6.63	1.54	1.46
1	F	419	PRO	N-CA	6.63	1.56	1.47
1	F	422	LEU	N-CA	6.63	1.54	1.46
1	A	93	THR	N-CA	-6.63	1.38	1.46
1	D	292	MET	N-CA	-6.62	1.38	1.46
1	C	358	VAL	C-O	6.62	1.32	1.24
1	K	25	ILE	C-O	-6.62	1.16	1.24
1	N	112	ASP	CA-C	6.62	1.61	1.53
1	F	305	THR	CA-C	-6.62	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	151	THR	N-CA	6.62	1.54	1.46
1	L	122	LYS	N-CA	-6.62	1.37	1.46
1	F	479	SER	N-CA	-6.62	1.38	1.46
1	E	372	THR	N-CA	-6.62	1.37	1.46
1	M	106	LYS	CA-C	6.62	1.61	1.52
1	M	329	ASP	CA-C	6.62	1.61	1.52
1	M	428	LEU	C-O	-6.62	1.15	1.23
1	D	220	SER	C-O	6.61	1.32	1.24
1	F	36	ARG	CD-NE	6.61	1.55	1.46
1	L	197	LYS	N-CA	-6.61	1.38	1.46
1	N	94	THR	N-CA	-6.61	1.37	1.46
1	P	66	ARG	CZ-NH1	6.61	1.42	1.32
1	C	173	ILE	C-N	-6.61	1.25	1.33
1	D	89	VAL	N-CA	-6.61	1.38	1.46
1	O	49	VAL	C-N	-6.61	1.23	1.33
1	P	287	VAL	C-O	-6.61	1.16	1.24
1	B	167	LYS	CA-C	6.61	1.61	1.52
1	I	20	ALA	C-O	6.61	1.32	1.24
1	H	410	ALA	C-N	6.60	1.43	1.33
1	M	175	VAL	C-O	6.60	1.31	1.24
1	A	29	ARG	C-O	6.60	1.31	1.24
1	C	486	MET	C-O	6.60	1.32	1.24
1	N	277	ALA	C-N	6.60	1.42	1.34
1	D	287	VAL	CA-C	-6.60	1.44	1.52
1	M	321	VAL	C-N	6.60	1.42	1.33
1	P	30	ILE	C-N	-6.60	1.24	1.33
1	P	348	ARG	CZ-NH1	6.60	1.42	1.32
1	A	444	ASN	CA-CB	-6.60	1.45	1.53
1	C	111	LEU	CA-C	-6.59	1.44	1.52
1	K	14	ARG	C-O	6.59	1.31	1.24
1	H	288	LYS	C-O	6.59	1.31	1.23
1	K	90	GLY	C-N	-6.59	1.24	1.33
1	I	257	SER	C-O	6.59	1.32	1.24
1	K	231	LYS	CA-CB	6.59	1.63	1.53
1	B	370	GLY	C-O	6.59	1.31	1.23
1	E	338	LYS	CA-C	6.59	1.61	1.52
1	O	225	LYS	N-CA	6.59	1.53	1.46
1	F	12	MET	CA-C	-6.59	1.44	1.52
1	P	489	ARG	C-O	-6.59	1.16	1.24
1	E	244	SER	CA-CB	-6.59	1.42	1.53
1	G	29	ARG	C-O	-6.59	1.16	1.24
1	I	448	CYS	CA-C	-6.59	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	207	GLU	N-CA	-6.59	1.37	1.45
1	H	54	ASP	N-CA	-6.58	1.38	1.46
1	L	298	ALA	C-O	-6.58	1.15	1.24
1	N	59	ASN	C-N	6.58	1.43	1.33
1	C	441	HIS	CE1-NE2	6.58	1.39	1.32
1	O	247	LEU	C-O	6.58	1.32	1.24
1	H	245	GLU	N-CA	6.58	1.53	1.46
1	O	84	THR	N-CA	-6.58	1.38	1.46
1	C	122	LYS	CA-C	6.58	1.61	1.52
1	C	181	VAL	CA-CB	6.58	1.62	1.54
1	J	79	ILE	CA-C	6.58	1.61	1.53
1	P	256	ALA	C-O	6.58	1.31	1.24
1	I	41	PRO	N-CD	6.58	1.56	1.47
1	M	356	GLU	CA-C	-6.58	1.44	1.52
1	D	174	ILE	CA-CB	6.58	1.63	1.54
1	C	411	PHE	N-CA	-6.57	1.37	1.46
1	H	448	CYS	C-N	6.57	1.42	1.33
1	K	8	LEU	CA-C	-6.57	1.46	1.52
1	M	22	ARG	NE-CZ	6.57	1.40	1.33
1	N	256	ALA	C-O	6.57	1.31	1.24
1	D	107	ALA	CA-C	-6.57	1.43	1.52
1	J	359	ALA	CA-CB	-6.57	1.42	1.53
1	P	63	THR	CA-C	6.57	1.61	1.52
1	O	64	ILE	C-O	6.57	1.30	1.24
1	E	201	ALA	CA-C	6.57	1.61	1.52
1	E	359	ALA	C-O	-6.57	1.15	1.24
1	F	22	ARG	NE-CZ	6.57	1.40	1.33
1	H	426	ALA	C-O	6.57	1.33	1.24
1	J	161	LYS	N-CA	-6.57	1.37	1.45
1	K	481	ALA	C-O	6.56	1.31	1.24
1	F	229	ASP	C-O	6.56	1.31	1.23
1	G	320	LEU	N-CA	6.56	1.54	1.46
1	I	165	LYS	C-O	6.56	1.31	1.24
1	D	23	MET	N-CA	6.56	1.54	1.46
1	F	138	ILE	CA-CB	6.56	1.62	1.54
1	K	359	ALA	N-CA	-6.56	1.38	1.46
1	C	288	LYS	N-CA	-6.56	1.37	1.46
1	D	303	VAL	CA-CB	-6.56	1.45	1.54
1	H	491	ASP	CA-C	6.56	1.62	1.53
1	L	483	SER	N-CA	-6.56	1.38	1.46
1	A	272	ALA	CA-C	-6.55	1.44	1.52
1	I	36	ARG	NE-CZ	-6.55	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	34	THR	CA-C	6.55	1.61	1.52
1	G	107	ALA	C-N	-6.55	1.25	1.33
1	I	138	ILE	N-CA	6.55	1.55	1.46
1	N	377	ARG	C-O	6.55	1.31	1.23
1	O	234	LEU	CA-CB	-6.55	1.44	1.53
1	B	453	VAL	C-N	6.55	1.42	1.33
1	A	405	GLN	CA-C	6.55	1.60	1.52
1	B	39	LEU	C-O	-6.55	1.16	1.23
1	D	142	VAL	CA-CB	6.55	1.63	1.54
1	P	447	LYS	CA-CB	-6.55	1.43	1.53
1	J	359	ALA	C-N	-6.55	1.23	1.33
1	K	98	VAL	C-O	-6.55	1.16	1.24
1	N	148	GLU	CA-C	-6.55	1.44	1.52
1	O	226	LYS	N-CA	6.55	1.54	1.46
1	D	249	ASP	N-CA	6.54	1.54	1.46
1	D	348	ARG	NE-CZ	-6.54	1.25	1.33
1	J	155	MET	CA-C	-6.54	1.44	1.52
1	N	424	GLU	CA-C	6.54	1.61	1.52
1	L	340	PRO	CA-C	6.54	1.61	1.52
1	C	54	ASP	CA-CB	6.54	1.64	1.53
1	G	388	GLU	C-N	-6.54	1.25	1.34
1	J	120	VAL	CA-C	-6.54	1.44	1.52
1	L	334	VAL	C-N	6.54	1.44	1.33
1	L	336	GLU	N-CA	6.54	1.54	1.46
1	D	338	LYS	CA-CB	6.54	1.64	1.53
1	J	365	ALA	C-N	-6.54	1.26	1.34
1	K	159	THR	CA-CB	6.54	1.65	1.53
1	H	35	VAL	N-CA	-6.54	1.38	1.46
1	N	279	GLU	C-N	-6.54	1.24	1.33
1	N	316	GLY	C-N	6.54	1.42	1.33
1	B	469	PRO	CA-C	6.54	1.60	1.52
1	F	339	HIS	C-O	-6.54	1.15	1.24
1	I	254	ILE	CA-C	-6.54	1.44	1.52
1	G	59	ASN	CA-C	6.53	1.61	1.52
1	G	220	SER	N-CA	6.53	1.53	1.45
1	H	144	ALA	C-O	-6.53	1.16	1.24
1	N	41	PRO	CA-CB	6.53	1.64	1.53
1	D	378	ILE	CA-C	-6.53	1.44	1.52
1	H	161	LYS	C-O	-6.53	1.15	1.23
1	C	90	GLY	CA-C	6.53	1.61	1.51
1	N	458	VAL	CA-CB	-6.53	1.46	1.54
1	O	23	MET	C-O	6.53	1.32	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	113	GLN	C-O	6.53	1.32	1.24
1	I	256	ALA	C-O	6.53	1.32	1.24
1	D	405	GLN	N-CA	6.53	1.54	1.46
1	I	481	ALA	C-O	-6.53	1.16	1.24
1	J	97	VAL	C-O	-6.53	1.16	1.24
1	K	71	GLU	CA-CB	6.53	1.63	1.53
1	E	192	LEU	CA-C	6.52	1.61	1.52
1	D	221	ALA	C-N	-6.52	1.25	1.34
1	L	66	ARG	NE-CZ	-6.52	1.25	1.33
1	L	330	SER	C-O	-6.52	1.16	1.24
1	B	284	ALA	N-CA	-6.52	1.38	1.46
1	B	403	ARG	C-N	6.52	1.43	1.33
1	N	121	VAL	CA-CB	6.52	1.62	1.54
1	B	303	VAL	CA-CB	6.52	1.62	1.54
1	B	466	VAL	C-O	-6.52	1.16	1.24
1	F	476	ALA	C-N	-6.52	1.25	1.33
1	L	237	CYS	CA-C	-6.52	1.44	1.52
1	E	414	ALA	C-N	-6.52	1.24	1.33
1	J	484	THR	CA-C	6.52	1.60	1.52
1	L	362	VAL	CA-C	6.51	1.61	1.52
1	E	25	ILE	CA-CB	6.51	1.63	1.54
1	H	439	ALA	C-O	6.51	1.32	1.24
1	O	476	ALA	CA-C	6.51	1.61	1.52
1	E	215	ASP	C-O	-6.51	1.15	1.24
1	A	228	THR	CA-C	-6.51	1.44	1.52
1	J	129	GLN	C-N	6.51	1.42	1.33
1	M	210	LYS	C-O	6.51	1.32	1.24
1	P	306	ASN	C-O	6.51	1.32	1.23
1	F	9	PRO	C-O	6.50	1.31	1.23
1	F	351	THR	N-CA	6.50	1.54	1.45
1	I	376	GLY	C-O	6.50	1.32	1.23
1	G	270	ASP	N-CA	-6.50	1.38	1.46
1	L	14	ARG	N-CA	6.50	1.54	1.46
1	O	68	MET	CA-C	6.50	1.61	1.52
1	H	98	VAL	C-O	-6.50	1.17	1.24
1	L	72	HIS	ND1-CE1	-6.50	1.26	1.32
1	J	474	THR	CA-C	6.50	1.61	1.52
1	K	353	HIS	N-CA	-6.50	1.38	1.46
1	D	163	ALA	CA-CB	-6.49	1.47	1.53
1	H	34	THR	CA-C	6.49	1.61	1.52
1	H	314	ASP	CA-C	-6.49	1.44	1.52
1	F	440	ALA	C-O	-6.49	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	345	MET	CA-C	6.49	1.60	1.53
1	D	436	LYS	CA-CB	-6.49	1.43	1.53
1	H	136	LYS	CA-CB	-6.49	1.42	1.53
1	I	72	HIS	CG-ND1	-6.49	1.31	1.38
1	L	45	ASP	CA-CB	6.49	1.62	1.53
1	N	364	ASP	C-O	6.49	1.32	1.23
1	O	91	ASP	CA-CB	6.49	1.64	1.53
1	C	151	THR	C-N	6.49	1.42	1.33
1	J	269	ASP	C-O	6.49	1.32	1.24
1	K	145	GLN	N-CA	6.49	1.55	1.46
1	B	94	THR	CA-C	6.48	1.62	1.52
1	P	227	VAL	C-O	6.48	1.30	1.24
1	C	271	LEU	N-CA	-6.48	1.37	1.46
1	F	391	MET	N-CA	6.48	1.54	1.46
1	G	370	GLY	C-O	-6.48	1.15	1.23
1	H	343	VAL	C-N	6.48	1.42	1.33
1	O	270	ASP	CA-C	6.48	1.61	1.52
1	B	246	MET	C-N	-6.48	1.25	1.34
1	C	121	VAL	C-O	-6.48	1.16	1.24
1	N	349	GLY	N-CA	6.48	1.54	1.45
1	K	88	GLU	C-O	6.48	1.29	1.23
1	K	254	ILE	C-O	-6.48	1.16	1.24
1	M	86	GLU	CA-C	6.48	1.61	1.52
1	G	151	THR	N-CA	6.48	1.54	1.46
1	J	213	LEU	C-O	-6.47	1.16	1.24
1	K	99	VAL	C-N	6.47	1.42	1.33
1	L	398	GLU	N-CA	6.47	1.54	1.46
1	O	188	VAL	CA-CB	6.47	1.62	1.54
1	O	403	ARG	CA-CB	-6.47	1.45	1.53
1	D	191	ASP	CA-C	6.47	1.61	1.52
1	G	153	ILE	N-CA	-6.47	1.38	1.46
1	G	295	LEU	C-O	-6.47	1.16	1.24
1	G	395	GLU	CA-C	-6.47	1.44	1.52
1	N	279	GLU	CA-C	6.47	1.61	1.52
1	F	90	GLY	C-O	-6.47	1.15	1.23
1	L	58	THR	C-N	-6.47	1.25	1.33
1	A	243	ALA	C-O	6.47	1.32	1.24
1	J	494	ILE	CA-CB	-6.47	1.46	1.53
1	J	299	THR	CA-CB	6.47	1.63	1.53
1	A	495	ALA	N-CA	6.47	1.54	1.45
1	I	96	ALA	C-N	-6.47	1.27	1.33
1	A	313	GLN	N-CA	-6.46	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	21	GLN	N-CA	-6.46	1.38	1.46
1	F	57	VAL	C-N	6.46	1.41	1.33
1	H	54	ASP	C-N	6.46	1.41	1.33
1	A	451	LEU	CA-C	6.46	1.61	1.53
1	B	183	ASP	C-O	-6.46	1.16	1.23
1	E	309	ASP	C-O	-6.46	1.15	1.24
1	F	142	VAL	C-O	6.46	1.32	1.24
1	K	339	HIS	ND1-CE1	6.46	1.39	1.32
1	L	196	GLU	CA-CB	6.46	1.62	1.53
1	A	228	THR	CB-OG1	6.46	1.54	1.43
1	F	192	LEU	C-O	6.46	1.32	1.24
1	O	462	CYS	CA-CB	-6.46	1.43	1.53
1	B	9	PRO	C-N	-6.46	1.24	1.33
1	A	487	LEU	N-CA	-6.45	1.37	1.46
1	I	128	ALA	N-CA	6.45	1.54	1.46
1	J	286	ARG	C-O	6.45	1.32	1.24
1	K	75	ALA	C-N	6.45	1.43	1.33
1	L	305	THR	C-N	6.45	1.43	1.33
1	F	150	LEU	CA-C	6.45	1.61	1.52
1	A	178	VAL	C-O	6.45	1.32	1.24
1	C	197	LYS	C-N	-6.45	1.24	1.33
1	C	273	GLN	CA-CB	-6.45	1.43	1.53
1	G	41	PRO	CA-C	6.45	1.62	1.52
1	I	495	ALA	C-O	6.45	1.31	1.23
1	J	288	LYS	N-CA	6.45	1.54	1.45
1	L	62	VAL	C-N	6.45	1.42	1.33
1	A	118	THR	C-O	6.45	1.32	1.24
1	D	456	GLY	C-O	-6.45	1.15	1.23
1	B	479	SER	N-CA	-6.45	1.37	1.46
1	C	241	GLU	N-CA	6.45	1.54	1.45
1	E	324	ARG	C-O	6.45	1.31	1.24
1	H	328	GLY	C-N	6.45	1.42	1.33
1	B	422	LEU	N-CA	6.44	1.54	1.46
1	B	26	LEU	C-O	6.44	1.31	1.24
1	J	149	ILE	N-CA	6.44	1.54	1.46
1	O	328	GLY	CA-C	6.44	1.60	1.51
1	B	97	VAL	N-CA	-6.44	1.38	1.46
1	H	283	ALA	C-O	-6.44	1.15	1.23
1	H	197	LYS	CA-C	6.44	1.60	1.53
1	C	201	ALA	CA-C	-6.44	1.44	1.52
1	C	364	ASP	CA-C	6.44	1.60	1.52
1	H	465	GLY	C-N	-6.44	1.24	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	159	THR	CA-C	6.43	1.60	1.52
1	C	142	VAL	CA-C	-6.43	1.44	1.52
1	J	316	GLY	C-O	6.43	1.31	1.23
1	K	80	GLU	C-O	-6.43	1.15	1.24
1	D	150	LEU	C-N	-6.43	1.25	1.34
1	E	354	VAL	C-O	6.43	1.32	1.24
1	C	360	ARG	NE-CZ	-6.43	1.25	1.33
1	D	492	ASP	CA-C	-6.43	1.44	1.52
1	I	398	GLU	C-O	-6.43	1.15	1.24
1	J	456	GLY	CA-C	6.43	1.60	1.51
1	N	439	ALA	C-N	6.43	1.43	1.33
1	P	318	ALA	C-N	6.43	1.42	1.34
1	M	377	ARG	NE-CZ	-6.43	1.25	1.33
1	O	303	VAL	CA-CB	6.43	1.61	1.53
1	A	386	GLU	N-CA	-6.43	1.38	1.46
1	D	167	LYS	CA-C	-6.43	1.44	1.52
1	D	374	GLU	C-O	-6.43	1.16	1.24
1	I	406	LEU	N-CA	-6.43	1.37	1.46
1	B	132	GLN	CA-C	-6.42	1.44	1.52
1	H	10	GLU	N-CA	-6.42	1.38	1.46
1	H	18	ARG	NE-CZ	-6.42	1.25	1.33
1	I	482	GLU	CA-C	6.42	1.61	1.52
1	O	446	ASN	CA-C	-6.42	1.44	1.52
1	D	116	HIS	CB-CG	6.42	1.59	1.50
1	E	179	SER	C-N	6.42	1.43	1.33
1	E	474	THR	CB-OG1	-6.42	1.33	1.43
1	G	491	ASP	C-O	6.42	1.33	1.23
1	F	470	LEU	CA-CB	6.42	1.63	1.54
1	A	151	THR	C-N	-6.42	1.25	1.33
1	A	291	ASP	C-N	-6.42	1.25	1.34
1	H	306	ASN	C-O	6.42	1.32	1.24
1	L	401	SER	CA-C	6.42	1.61	1.52
1	B	374	GLU	C-O	6.42	1.32	1.24
1	K	461	MET	C-O	6.42	1.32	1.24
1	M	233	ALA	C-O	6.42	1.31	1.23
1	N	209	ILE	CA-C	6.42	1.60	1.53
1	O	158	ILE	N-CA	-6.42	1.38	1.46
1	O	418	ILE	N-CA	-6.42	1.38	1.46
1	B	72	HIS	CE1-NE2	6.42	1.39	1.32
1	M	318	ALA	CA-C	6.42	1.60	1.52
1	G	131	ALA	CA-CB	-6.41	1.43	1.53
1	P	273	GLN	N-CA	-6.41	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	431	ILE	N-CA	-6.41	1.39	1.46
1	C	208	LEU	N-CA	6.41	1.55	1.46
1	B	441	HIS	CB-CG	6.41	1.59	1.50
1	E	342	ALA	C-O	6.41	1.31	1.23
1	J	117	PRO	C-O	6.41	1.32	1.24
1	K	180	ALA	N-CA	-6.41	1.38	1.46
1	P	261	VAL	N-CA	-6.41	1.38	1.46
1	C	462	CYS	N-CA	6.41	1.54	1.46
1	O	339	HIS	CG-ND1	6.41	1.45	1.38
1	A	34	THR	CA-CB	6.41	1.64	1.53
1	D	280	GLY	N-CA	-6.41	1.36	1.45
1	F	209	ILE	CA-C	6.41	1.60	1.52
1	G	364	ASP	C-O	6.41	1.31	1.24
1	G	239	ILE	C-O	6.40	1.31	1.24
1	M	317	ASP	CA-C	-6.40	1.45	1.52
1	M	454	PHE	N-CA	-6.40	1.39	1.47
1	B	380	SER	N-CA	-6.40	1.38	1.46
1	K	171	ALA	N-CA	-6.40	1.37	1.46
1	J	164	GLU	C-O	6.40	1.32	1.24
1	N	181	VAL	N-CA	-6.40	1.38	1.46
1	P	56	VAL	CA-C	6.40	1.60	1.52
1	A	7	VAL	C-N	-6.39	1.24	1.33
1	C	158	ILE	N-CA	-6.39	1.38	1.46
1	E	466	VAL	N-CA	6.39	1.54	1.46
1	K	232	ILE	N-CA	-6.39	1.37	1.46
1	K	121	VAL	CA-C	-6.39	1.45	1.52
1	K	356	GLU	CA-C	-6.39	1.44	1.52
1	M	187	LYS	C-O	6.39	1.32	1.23
1	P	485	GLU	C-O	-6.39	1.15	1.24
1	A	299	THR	C-O	6.39	1.31	1.24
1	O	271	LEU	CA-C	-6.39	1.44	1.52
1	P	109	GLU	C-N	-6.39	1.24	1.33
1	I	466	VAL	CA-CB	6.39	1.63	1.54
1	K	185	GLU	C-O	6.39	1.32	1.24
1	G	203	ILE	C-O	6.39	1.31	1.24
1	H	283	ALA	N-CA	-6.39	1.38	1.46
1	M	464	ASN	CA-C	6.39	1.61	1.52
1	N	466	VAL	CA-CB	6.39	1.63	1.54
1	H	207	GLU	C-O	6.39	1.30	1.23
1	B	448	CYS	N-CA	-6.38	1.38	1.46
1	D	360	ARG	CA-CB	-6.38	1.43	1.53
1	G	225	LYS	CA-C	6.38	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	167	LYS	N-CA	-6.38	1.38	1.46
1	L	180	ALA	C-N	6.38	1.41	1.33
1	L	270	ASP	N-CA	-6.38	1.39	1.47
1	P	216	LYS	N-CA	-6.38	1.38	1.46
1	P	227	VAL	CA-C	-6.38	1.45	1.52
1	O	206	THR	CB-OG1	6.38	1.53	1.43
1	B	468	GLU	CA-CB	6.38	1.61	1.54
1	E	188	VAL	C-O	6.38	1.30	1.24
1	G	435	VAL	CA-CB	-6.38	1.45	1.54
1	K	7	VAL	N-CA	6.38	1.58	1.46
1	K	312	ALA	C-N	-6.38	1.24	1.33
1	M	405	GLN	N-CA	6.38	1.53	1.46
1	D	91	ASP	CA-C	6.38	1.61	1.52
1	E	97	VAL	C-N	6.38	1.41	1.33
1	H	212	VAL	N-CA	6.38	1.53	1.46
1	H	291	ASP	C-O	6.38	1.32	1.24
1	O	289	LYS	C-N	6.38	1.43	1.33
1	J	76	LYS	C-N	6.37	1.42	1.33
1	K	287	VAL	N-CA	6.37	1.54	1.46
1	E	228	THR	N-CA	6.37	1.53	1.45
1	F	354	VAL	C-N	6.37	1.41	1.33
1	K	417	VAL	C-O	-6.37	1.17	1.24
1	F	213	LEU	N-CA	6.37	1.54	1.46
1	L	321	VAL	CA-CB	6.37	1.63	1.54
1	L	108	GLU	C-N	6.37	1.42	1.33
1	N	217	GLU	CA-C	-6.37	1.45	1.52
1	B	464	ASN	C-N	6.37	1.42	1.33
1	E	46	LYS	C-O	6.37	1.31	1.23
1	J	111	LEU	N-CA	-6.37	1.38	1.46
1	L	456	GLY	C-O	-6.37	1.15	1.23
1	B	348	ARG	CD-NE	6.36	1.55	1.46
1	I	358	VAL	CA-CB	6.36	1.61	1.54
1	M	178	VAL	N-CA	-6.36	1.37	1.46
1	P	437	VAL	N-CA	-6.36	1.38	1.46
1	P	126	ALA	C-N	6.36	1.42	1.33
1	C	243	ALA	CA-CB	-6.36	1.42	1.53
1	H	426	ALA	C-N	-6.36	1.24	1.33
1	K	41	PRO	C-N	-6.36	1.25	1.33
1	H	245	GLU	C-N	6.36	1.42	1.33
1	K	307	ILE	CA-CB	-6.36	1.46	1.54
1	A	472	VAL	CA-C	-6.36	1.44	1.52
1	B	357	GLU	C-N	6.36	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	471	ARG	C-N	-6.36	1.25	1.33
1	D	458	VAL	CA-CB	-6.35	1.47	1.54
1	D	373	ILE	CA-C	6.35	1.60	1.52
1	D	490	ILE	C-O	-6.35	1.16	1.24
1	L	458	VAL	CA-C	-6.35	1.46	1.53
1	E	105	ARG	NE-CZ	6.35	1.40	1.33
1	G	404	GLU	N-CA	6.35	1.54	1.46
1	H	449	ALA	C-O	6.35	1.31	1.24
1	A	111	LEU	N-CA	-6.35	1.38	1.46
1	C	25	ILE	CA-C	6.35	1.60	1.52
1	M	30	ILE	C-N	6.35	1.42	1.33
1	O	402	GLY	CA-C	6.35	1.60	1.51
1	P	159	THR	C-O	-6.35	1.16	1.24
1	A	115	VAL	N-CA	-6.35	1.38	1.46
1	E	203	ILE	CA-CB	6.34	1.63	1.54
1	H	442	ALA	C-O	-6.34	1.15	1.24
1	L	198	LYS	C-O	6.34	1.31	1.23
1	A	94	THR	C-N	-6.34	1.24	1.33
1	F	193	ILE	C-O	-6.34	1.15	1.23
1	G	318	ALA	C-O	-6.34	1.16	1.23
1	G	335	GLU	C-N	-6.34	1.24	1.33
1	I	137	THR	C-O	6.34	1.32	1.24
1	N	165	LYS	CA-C	-6.34	1.44	1.52
1	B	117	PRO	C-N	-6.34	1.25	1.34
1	H	453	VAL	CA-C	6.34	1.60	1.52
1	I	230	ALA	CA-C	-6.34	1.44	1.52
1	L	293	GLU	CA-CB	-6.34	1.42	1.53
1	M	414	ALA	C-N	-6.34	1.25	1.33
1	D	24	ASN	N-CA	6.34	1.54	1.46
1	G	117	PRO	CA-CB	-6.34	1.44	1.53
1	M	40	GLY	N-CA	6.34	1.53	1.44
1	C	122	LYS	N-CA	-6.33	1.38	1.46
1	G	27	ALA	C-O	6.33	1.32	1.24
1	B	472	VAL	CA-CB	-6.33	1.45	1.54
1	C	110	LEU	C-O	6.33	1.31	1.24
1	H	272	ALA	N-CA	6.33	1.53	1.46
1	M	450	GLY	C-N	-6.33	1.26	1.33
1	N	18	ARG	CZ-NH2	6.33	1.41	1.33
1	F	103	LEU	C-N	6.33	1.42	1.33
1	J	188	VAL	C-N	6.33	1.42	1.33
1	L	352	GLU	C-O	-6.33	1.16	1.24
1	P	469	PRO	C-N	6.33	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	336	GLU	N-CA	6.33	1.54	1.46
1	J	33	GLU	C-N	6.33	1.42	1.33
1	C	265	GLN	C-N	6.33	1.42	1.33
1	M	36	ARG	CA-C	6.33	1.60	1.52
1	G	284	ALA	C-N	6.33	1.41	1.33
1	O	33	GLU	CA-C	6.33	1.61	1.52
1	O	210	LYS	N-CA	-6.33	1.38	1.46
1	P	451	LEU	C-O	-6.33	1.16	1.23
1	D	83	LYS	C-O	6.32	1.31	1.24
1	D	134	LEU	N-CA	-6.32	1.38	1.46
1	D	170	LEU	C-N	-6.32	1.25	1.34
1	H	30	ILE	C-N	-6.32	1.25	1.33
1	N	194	LYS	CA-C	-6.32	1.44	1.53
1	H	320	LEU	N-CA	6.32	1.53	1.46
1	M	454	PHE	C-O	-6.32	1.18	1.23
1	A	293	GLU	N-CA	-6.32	1.37	1.46
1	J	42	LYS	C-O	6.32	1.32	1.24
1	J	196	GLU	CA-CB	6.32	1.63	1.53
1	L	334	VAL	C-O	-6.32	1.16	1.24
1	L	493	VAL	CA-CB	-6.32	1.45	1.54
1	A	335	GLU	CA-C	-6.32	1.44	1.52
1	F	122	LYS	C-O	-6.32	1.14	1.24
1	H	286	ARG	CA-C	-6.32	1.44	1.52
1	K	201	ALA	N-CA	-6.32	1.38	1.46
1	B	139	ALA	C-O	6.32	1.31	1.24
1	C	455	THR	CA-C	6.32	1.61	1.52
1	J	431	ILE	C-O	-6.32	1.16	1.24
1	N	208	LEU	C-O	6.32	1.31	1.23
1	A	14	ARG	CZ-NH1	6.31	1.41	1.32
1	C	110	LEU	CA-C	-6.31	1.45	1.52
1	E	243	ALA	C-N	-6.31	1.24	1.33
1	J	130	LYS	CA-C	6.31	1.60	1.52
1	M	368	VAL	N-CA	-6.31	1.38	1.46
1	O	203	ILE	N-CA	6.31	1.54	1.46
1	O	342	ALA	N-CA	-6.31	1.38	1.45
1	D	8	LEU	N-CA	-6.31	1.37	1.46
1	D	244	SER	C-O	6.31	1.31	1.24
1	E	188	VAL	C-N	6.31	1.41	1.33
1	H	94	THR	CA-C	-6.31	1.44	1.52
1	P	448	CYS	N-CA	-6.31	1.37	1.46
1	D	102	GLU	C-O	6.31	1.31	1.24
1	F	288	LYS	C-N	-6.30	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	386	GLU	N-CA	6.30	1.54	1.46
1	A	82	ALA	C-O	6.30	1.32	1.23
1	K	429	ASP	CA-C	-6.30	1.44	1.52
1	A	60	ASP	CA-C	-6.30	1.44	1.52
1	B	237	CYS	C-N	-6.30	1.24	1.33
1	I	314	ASP	C-N	-6.30	1.24	1.33
1	C	422	LEU	C-O	6.30	1.32	1.24
1	F	53	GLY	C-O	6.30	1.33	1.24
1	I	477	ILE	CA-CB	-6.30	1.45	1.54
1	N	233	ALA	C-N	6.30	1.42	1.33
1	B	248	LYS	N-CA	-6.30	1.38	1.46
1	C	245	GLU	N-CA	6.30	1.54	1.46
1	K	457	ALA	C-O	-6.30	1.16	1.24
1	L	112	ASP	C-O	6.30	1.32	1.24
1	C	447	LYS	CA-CB	6.29	1.64	1.53
1	K	443	SER	CA-C	6.29	1.57	1.52
1	O	46	LYS	C-O	6.29	1.31	1.23
1	H	378	ILE	CA-CB	6.29	1.62	1.54
1	M	64	ILE	N-CA	-6.29	1.38	1.46
1	E	211	GLY	C-O	6.29	1.28	1.24
1	L	117	PRO	C-O	6.29	1.32	1.24
1	O	335	GLU	C-N	-6.29	1.24	1.33
1	P	57	VAL	C-O	6.29	1.31	1.24
1	C	489	ARG	N-CA	-6.29	1.38	1.46
1	I	315	LEU	N-CA	-6.29	1.38	1.46
1	J	38	THR	C-O	6.29	1.32	1.24
1	K	378	ILE	C-N	-6.29	1.25	1.33
1	L	24	ASN	C-O	6.29	1.31	1.24
1	M	183	ASP	N-CA	-6.29	1.38	1.46
1	D	244	SER	CA-C	-6.28	1.44	1.52
1	F	334	VAL	N-CA	6.28	1.54	1.46
1	K	286	ARG	CZ-NH1	6.28	1.41	1.32
1	O	279	GLU	CA-C	6.28	1.60	1.52
1	E	90	GLY	CA-C	6.28	1.60	1.51
1	B	200	GLY	CA-C	6.28	1.60	1.51
1	C	105	ARG	CZ-NH1	-6.28	1.24	1.32
1	D	339	HIS	CA-CB	-6.28	1.46	1.53
1	E	129	GLN	CA-CB	-6.28	1.43	1.53
1	H	13	LYS	C-N	6.28	1.42	1.33
1	M	226	LYS	N-CA	6.28	1.54	1.46
1	L	332	ILE	C-N	6.28	1.42	1.33
1	L	372	THR	N-CA	-6.28	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	220	SER	N-CA	-6.28	1.38	1.45
1	C	29	ARG	NE-CZ	6.28	1.40	1.33
1	L	351	THR	CA-C	6.28	1.62	1.53
1	M	285	ARG	CZ-NH1	-6.28	1.24	1.32
1	B	310	LEU	C-O	6.28	1.31	1.23
1	F	116	HIS	ND1-CE1	-6.28	1.26	1.32
1	I	455	THR	CA-CB	6.28	1.63	1.53
1	K	224	PRO	CA-CB	-6.28	1.44	1.53
1	L	261	VAL	C-N	6.28	1.41	1.33
1	B	448	CYS	C-O	-6.27	1.16	1.24
1	C	240	GLU	N-CA	-6.27	1.39	1.46
1	K	417	VAL	N-CA	-6.27	1.39	1.46
1	F	259	ALA	C-O	6.27	1.31	1.23
1	O	351	THR	C-O	6.27	1.31	1.23
1	C	98	VAL	N-CA	-6.27	1.39	1.46
1	K	451	LEU	C-O	6.27	1.31	1.24
1	D	79	ILE	C-O	-6.27	1.16	1.24
1	D	126	ALA	N-CA	6.27	1.54	1.46
1	J	21	GLN	N-CA	6.27	1.53	1.46
1	J	101	GLY	C-N	6.27	1.42	1.33
1	K	403	ARG	C-N	-6.27	1.25	1.33
1	A	438	ARG	CZ-NH1	6.27	1.41	1.32
1	B	376	GLY	C-N	6.27	1.41	1.33
1	A	328	GLY	N-CA	6.26	1.54	1.45
1	C	41	PRO	N-CD	-6.26	1.39	1.47
1	D	489	ARG	CA-C	6.26	1.59	1.53
1	I	13	LYS	CA-CB	6.26	1.64	1.53
1	P	247	LEU	N-CA	-6.26	1.38	1.46
1	B	264	CYS	N-CA	6.26	1.53	1.46
1	F	347	ILE	CA-C	6.26	1.60	1.52
1	K	199	SER	CA-C	6.26	1.60	1.52
1	I	259	ALA	C-O	6.26	1.31	1.23
1	E	347	ILE	C-O	6.26	1.31	1.24
1	C	235	LEU	CA-C	-6.26	1.44	1.53
1	M	276	LEU	CA-C	6.25	1.61	1.52
1	A	311	SER	C-O	6.25	1.31	1.24
1	I	296	ALA	C-N	6.25	1.41	1.33
1	M	313	GLN	C-O	6.25	1.31	1.24
1	C	274	HIS	N-CA	6.25	1.54	1.46
1	F	281	ILE	C-O	6.25	1.31	1.24
1	G	494	ILE	CA-C	6.25	1.60	1.52
1	P	112	ASP	C-O	6.25	1.32	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	285	ARG	C-N	6.25	1.42	1.33
1	G	95	THR	C-O	6.25	1.31	1.24
1	I	482	GLU	C-N	6.25	1.42	1.33
1	O	350	THR	N-CA	6.25	1.54	1.46
1	M	222	GLN	C-N	6.25	1.42	1.32
1	C	85	GLN	C-O	6.24	1.31	1.24
1	F	311	SER	C-O	6.24	1.31	1.24
1	I	268	ILE	CA-C	6.24	1.60	1.52
1	I	289	LYS	N-CA	-6.24	1.38	1.46
1	K	408	VAL	CA-CB	-6.24	1.45	1.54
1	D	441	HIS	N-CA	-6.24	1.38	1.46
1	P	164	GLU	N-CA	-6.24	1.37	1.46
1	B	379	VAL	CA-CB	6.24	1.65	1.55
1	C	362	VAL	CA-CB	6.24	1.61	1.54
1	D	396	TYR	N-CA	6.24	1.54	1.46
1	J	197	LYS	N-CA	6.24	1.53	1.46
1	N	169	LYS	C-N	6.24	1.42	1.33
1	D	496	ALA	CA-CB	6.24	1.62	1.53
1	E	333	PHE	C-O	6.24	1.31	1.23
1	I	289	LYS	C-N	6.24	1.41	1.33
1	I	475	GLN	C-O	-6.23	1.16	1.24
1	D	279	GLU	C-O	6.23	1.32	1.24
1	E	10	GLU	CA-C	6.23	1.60	1.52
1	J	405	GLN	C-O	6.23	1.31	1.24
1	K	455	THR	C-N	-6.23	1.24	1.33
1	L	379	VAL	CA-CB	-6.23	1.46	1.55
1	F	353	HIS	CG-ND1	-6.23	1.31	1.38
1	G	285	ARG	CZ-NH2	-6.23	1.25	1.33
1	N	418	ILE	C-N	6.23	1.41	1.34
1	B	381	GLY	C-N	6.23	1.42	1.33
1	C	38	THR	CA-CB	6.23	1.63	1.54
1	G	10	GLU	C-N	-6.23	1.25	1.33
1	B	140	CYS	N-CA	6.23	1.54	1.46
1	G	249	ASP	CA-C	-6.23	1.44	1.52
1	I	182	VAL	N-CA	-6.23	1.38	1.46
1	P	425	ASN	C-N	6.23	1.42	1.33
1	B	212	VAL	C-N	6.22	1.43	1.33
1	C	167	LYS	C-O	-6.22	1.16	1.24
1	G	321	VAL	C-O	-6.22	1.17	1.24
1	H	250	MET	C-N	-6.22	1.26	1.33
1	A	253	GLU	C-N	6.22	1.41	1.34
1	B	36	ARG	N-CA	-6.22	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	190	LYS	C-N	-6.22	1.26	1.33
1	D	213	LEU	CA-C	6.22	1.60	1.52
1	L	218	ARG	NE-CZ	-6.22	1.26	1.33
1	M	72	HIS	CE1-NE2	-6.22	1.26	1.32
1	O	152	LYS	N-CA	-6.22	1.38	1.46
1	J	225	LYS	N-CA	-6.22	1.38	1.46
1	K	353	HIS	CD2-NE2	-6.22	1.31	1.37
1	L	430	ALA	C-O	-6.22	1.16	1.24
1	O	45	ASP	CA-C	-6.22	1.44	1.53
1	G	82	ALA	CA-C	-6.22	1.44	1.52
1	I	483	SER	C-N	6.22	1.42	1.33
1	L	302	ASN	N-CA	-6.22	1.38	1.46
1	P	229	ASP	CA-CB	6.22	1.64	1.53
1	E	466	VAL	CA-CB	6.22	1.62	1.54
1	I	330	SER	C-O	6.22	1.31	1.24
1	J	420	ARG	CA-C	6.22	1.60	1.52
1	M	353	HIS	C-N	6.22	1.41	1.33
1	M	388	GLU	N-CA	6.22	1.53	1.46
1	A	191	ASP	CA-CB	6.21	1.64	1.53
1	E	284	ALA	CA-C	6.21	1.59	1.52
1	H	131	ALA	C-N	6.21	1.43	1.33
1	K	80	GLU	N-CA	-6.21	1.37	1.46
1	H	471	ARG	N-CA	-6.21	1.38	1.46
1	L	175	VAL	C-O	6.21	1.32	1.24
1	D	111	LEU	C-O	-6.21	1.15	1.24
1	F	339	HIS	CG-ND1	6.21	1.45	1.38
1	H	404	GLU	N-CA	-6.21	1.38	1.46
1	J	407	ALA	CA-C	6.21	1.60	1.53
1	L	433	ILE	C-O	6.21	1.30	1.24
1	D	195	ILE	CA-C	6.21	1.58	1.53
1	J	264	CYS	C-O	6.21	1.31	1.23
1	M	187	LYS	N-CA	6.21	1.53	1.46
1	F	110	LEU	C-O	-6.21	1.17	1.24
1	F	175	VAL	C-O	-6.21	1.16	1.24
1	J	241	GLU	C-O	6.21	1.31	1.23
1	P	119	ILE	CA-CB	6.21	1.61	1.54
1	C	270	ASP	N-CA	-6.21	1.38	1.46
1	F	232	ILE	C-O	6.21	1.31	1.24
1	L	81	VAL	N-CA	-6.21	1.38	1.46
1	D	25	ILE	CA-CB	6.21	1.62	1.54
1	D	44	MET	C-O	-6.21	1.15	1.23
1	J	270	ASP	CA-C	6.21	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	400	ILE	C-O	-6.20	1.16	1.24
1	B	9	PRO	C-O	6.20	1.30	1.23
1	I	289	LYS	C-O	6.20	1.31	1.24
1	J	28	GLY	C-O	6.20	1.31	1.23
1	M	179	SER	N-CA	-6.20	1.38	1.46
1	O	409	ARG	CZ-NH2	6.20	1.41	1.33
1	B	183	ASP	N-CA	6.20	1.53	1.46
1	K	111	LEU	C-O	6.20	1.31	1.24
1	F	421	THR	CB-OG1	6.20	1.53	1.43
1	G	81	VAL	CA-CB	-6.20	1.46	1.54
1	K	342	ALA	CA-C	-6.20	1.44	1.52
1	L	39	LEU	N-CA	-6.20	1.38	1.46
1	L	84	THR	C-N	6.20	1.42	1.33
1	C	25	ILE	C-O	-6.20	1.17	1.24
1	C	417	VAL	N-CA	-6.20	1.39	1.46
1	E	392	LYS	CA-C	-6.20	1.45	1.53
1	F	48	LEU	C-N	6.20	1.40	1.33
1	K	421	THR	CA-C	6.20	1.61	1.52
1	P	268	ILE	C-O	6.20	1.31	1.23
1	A	449	ALA	N-CA	-6.20	1.38	1.46
1	B	120	VAL	N-CA	6.20	1.54	1.46
1	B	357	GLU	N-CA	6.20	1.53	1.46
1	P	132	GLN	C-O	6.20	1.31	1.24
1	P	245	GLU	N-CA	6.19	1.54	1.46
1	A	91	ASP	N-CA	6.19	1.54	1.46
1	E	419	PRO	N-CD	-6.19	1.39	1.47
1	F	69	SER	CA-C	-6.19	1.44	1.52
1	F	227	VAL	C-N	6.19	1.42	1.33
1	H	285	ARG	CA-CB	-6.19	1.42	1.53
1	H	354	VAL	CA-C	-6.19	1.44	1.52
1	K	332	ILE	N-CA	6.19	1.53	1.46
1	N	50	ASP	C-O	-6.19	1.15	1.23
1	A	34	THR	N-CA	6.19	1.54	1.46
1	H	16	MET	C-O	6.19	1.31	1.24
1	I	472	VAL	N-CA	-6.19	1.39	1.46
1	J	66	ARG	CA-C	6.19	1.61	1.52
1	N	207	GLU	C-O	6.19	1.31	1.23
1	P	84	THR	C-N	6.19	1.42	1.33
1	J	194	LYS	N-CA	6.19	1.54	1.45
1	K	455	THR	N-CA	-6.19	1.38	1.46
1	A	33	GLU	N-CA	6.19	1.53	1.46
1	C	210	LYS	CA-CB	-6.19	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	116	HIS	C-O	6.19	1.32	1.24
1	K	491	ASP	CA-C	6.19	1.60	1.52
1	N	245	GLU	CA-C	6.19	1.59	1.53
1	N	268	ILE	N-CA	-6.19	1.38	1.46
1	P	217	GLU	C-N	6.19	1.42	1.33
1	A	418	ILE	CA-CB	-6.19	1.46	1.54
1	F	303	VAL	C-O	6.19	1.31	1.24
1	K	200	GLY	C-O	6.18	1.32	1.23
1	M	51	ASP	C-O	6.18	1.31	1.24
1	M	153	ILE	C-O	6.18	1.31	1.24
1	B	55	VAL	C-O	6.18	1.30	1.24
1	P	458	VAL	C-O	6.18	1.31	1.24
1	L	254	ILE	C-O	6.18	1.31	1.24
1	N	237	CYS	CA-C	-6.17	1.45	1.52
1	B	324	ARG	C-O	-6.17	1.16	1.24
1	J	166	ALA	N-CA	-6.17	1.37	1.46
1	D	471	ARG	CZ-NH2	-6.17	1.25	1.33
1	E	71	GLU	C-O	-6.17	1.17	1.24
1	G	72	HIS	C-N	6.17	1.41	1.34
1	H	309	ASP	CA-C	6.17	1.61	1.52
1	I	179	SER	CA-C	6.17	1.61	1.52
1	L	57	VAL	CA-CB	6.17	1.60	1.53
1	O	358	VAL	CA-C	-6.17	1.45	1.52
1	A	343	VAL	CA-CB	6.17	1.61	1.54
1	D	264	CYS	N-CA	6.17	1.53	1.46
1	G	312	ALA	C-O	-6.17	1.16	1.24
1	N	148	GLU	C-N	6.17	1.41	1.34
1	O	107	ALA	CA-CB	-6.17	1.43	1.53
1	O	467	VAL	C-O	-6.17	1.17	1.23
1	C	429	ASP	N-CA	-6.17	1.38	1.46
1	G	290	SER	C-O	6.17	1.31	1.24
1	I	139	ALA	C-N	6.17	1.43	1.33
1	J	133	GLU	C-O	6.17	1.30	1.23
1	M	412	ALA	C-O	-6.17	1.17	1.24
1	B	71	GLU	C-O	6.17	1.31	1.24
1	D	151	THR	N-CA	-6.17	1.38	1.46
1	I	246	MET	C-O	6.17	1.31	1.24
1	J	420	ARG	CD-NE	6.17	1.54	1.46
1	M	171	ALA	CA-C	6.17	1.60	1.52
1	P	118	THR	CB-OG1	-6.17	1.33	1.43
1	A	105	ARG	C-O	6.17	1.31	1.24
1	A	413	ASP	N-CA	-6.17	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	306	ASN	CA-C	6.17	1.61	1.53
1	O	378	ILE	C-O	6.17	1.30	1.24
1	E	144	ALA	CA-C	6.16	1.60	1.52
1	P	18	ARG	CD-NE	6.16	1.54	1.46
1	C	418	ILE	CA-C	6.16	1.59	1.52
1	G	50	ASP	C-O	6.16	1.31	1.23
1	H	31	ILE	CA-CB	-6.16	1.46	1.54
1	L	395	GLU	CA-CB	6.16	1.64	1.53
1	P	432	GLU	CA-C	6.16	1.61	1.52
1	C	96	ALA	C-N	-6.16	1.26	1.33
1	J	322	GLU	CA-CB	6.16	1.64	1.53
1	M	69	SER	CA-C	6.16	1.61	1.52
1	N	464	ASN	N-CA	6.16	1.54	1.46
1	P	320	LEU	N-CA	6.16	1.53	1.46
1	P	381	GLY	N-CA	6.16	1.53	1.45
1	A	347	ILE	N-CA	-6.15	1.38	1.46
1	I	94	THR	C-O	-6.15	1.17	1.24
1	M	167	LYS	C-O	6.15	1.31	1.24
1	M	360	ARG	NE-CZ	-6.15	1.26	1.33
1	N	24	ASN	C-N	-6.15	1.26	1.33
1	N	339	HIS	CD2-NE2	-6.15	1.31	1.37
1	E	197	LYS	CA-CB	6.15	1.63	1.53
1	K	372	THR	N-CA	-6.15	1.38	1.46
1	M	309	ASP	C-O	6.15	1.32	1.24
1	M	494	ILE	C-O	-6.15	1.14	1.23
1	O	76	LYS	N-CA	6.15	1.54	1.46
1	J	166	ALA	CA-CB	6.15	1.63	1.53
1	O	219	VAL	N-CA	6.15	1.54	1.46
1	D	152	LYS	C-N	-6.14	1.26	1.33
1	G	480	ALA	C-O	6.14	1.32	1.24
1	J	62	VAL	C-O	6.14	1.31	1.24
1	D	462	CYS	CA-C	6.14	1.60	1.52
1	F	108	GLU	C-O	6.14	1.31	1.24
1	M	21	GLN	N-CA	-6.14	1.38	1.46
1	N	12	MET	C-O	6.14	1.31	1.23
1	C	179	SER	N-CA	-6.14	1.38	1.46
1	F	243	ALA	C-N	6.14	1.42	1.33
1	I	147	LYS	C-O	6.14	1.31	1.24
1	K	158	ILE	CA-CB	6.14	1.62	1.54
1	K	33	GLU	CA-CB	-6.14	1.43	1.53
1	L	187	LYS	N-CA	6.14	1.53	1.46
1	P	32	ALA	CA-C	6.14	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	244	SER	N-CA	-6.13	1.38	1.46
1	E	152	LYS	C-O	6.13	1.31	1.24
1	F	310	LEU	CA-CB	6.13	1.63	1.53
1	H	272	ALA	CA-CB	-6.13	1.43	1.53
1	P	232	ILE	C-O	-6.13	1.16	1.24
1	A	484	THR	CB-OG1	6.13	1.53	1.43
1	B	353	HIS	CG-ND1	-6.13	1.31	1.38
1	E	48	LEU	C-N	-6.13	1.25	1.33
1	D	48	LEU	C-N	-6.13	1.26	1.33
1	E	364	ASP	N-CA	-6.13	1.38	1.46
1	K	419	PRO	C-O	6.13	1.31	1.24
1	K	420	ARG	C-O	6.13	1.31	1.24
1	L	16	MET	C-O	-6.13	1.15	1.23
1	M	189	ASP	CA-CB	6.13	1.61	1.53
1	N	21	GLN	CA-C	-6.13	1.44	1.52
1	H	400	ILE	N-CA	-6.13	1.38	1.46
1	G	472	VAL	CA-CB	-6.13	1.46	1.54
1	J	116	HIS	CB-CG	-6.13	1.41	1.50
1	K	78	LEU	N-CA	6.13	1.54	1.45
1	N	138	ILE	C-O	6.13	1.31	1.24
1	A	159	THR	CA-C	6.13	1.59	1.52
1	A	173	ILE	C-O	6.13	1.32	1.24
1	B	102	GLU	N-CA	6.13	1.54	1.46
1	B	280	GLY	N-CA	-6.13	1.37	1.45
1	F	156	THR	CA-C	-6.13	1.44	1.52
1	F	360	ARG	C-N	-6.13	1.25	1.33
1	L	135	LEU	CA-C	6.13	1.61	1.52
1	O	140	CYS	N-CA	-6.13	1.38	1.46
1	P	142	VAL	N-CA	-6.13	1.38	1.46
1	P	248	LYS	CA-C	-6.12	1.45	1.52
1	D	355	ILE	N-CA	-6.12	1.38	1.46
1	E	309	ASP	N-CA	-6.12	1.38	1.46
1	A	122	LYS	C-N	6.12	1.42	1.33
1	D	437	VAL	C-O	-6.12	1.16	1.23
1	E	488	LEU	N-CA	-6.12	1.38	1.46
1	B	165	LYS	CA-CB	6.12	1.63	1.53
1	D	488	LEU	C-N	6.12	1.41	1.33
1	L	357	GLU	N-CA	6.12	1.53	1.46
1	H	238	ALA	C-O	-6.12	1.16	1.24
1	J	311	SER	CA-C	-6.12	1.44	1.52
1	K	286	ARG	CZ-NH2	-6.12	1.25	1.33
1	I	378	ILE	C-N	-6.11	1.24	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	378	ILE	C-O	-6.11	1.16	1.24
1	J	381	GLY	C-O	-6.11	1.15	1.23
1	L	87	LYS	CA-C	-6.11	1.44	1.52
1	L	329	ASP	N-CA	-6.11	1.38	1.46
1	O	36	ARG	N-CA	-6.11	1.38	1.46
1	N	429	ASP	C-O	6.11	1.31	1.24
1	O	349	GLY	C-N	-6.11	1.25	1.33
1	I	359	ALA	N-CA	-6.11	1.39	1.46
1	J	110	LEU	C-N	6.11	1.42	1.33
1	K	109	GLU	C-O	-6.11	1.16	1.24
1	O	42	LYS	CA-C	-6.11	1.45	1.53
1	P	313	GLN	N-CA	-6.11	1.38	1.46
1	C	324	ARG	CZ-NH2	-6.11	1.25	1.33
1	E	299	THR	N-CA	-6.11	1.39	1.46
1	K	281	ILE	CA-C	6.11	1.60	1.52
1	O	116	HIS	CA-CB	-6.11	1.43	1.53
1	B	32	ALA	C-O	6.11	1.31	1.24
1	C	246	MET	C-O	-6.11	1.16	1.24
1	C	458	VAL	C-N	6.11	1.42	1.33
1	L	342	ALA	CA-CB	-6.11	1.43	1.53
1	O	345	MET	CA-C	6.11	1.60	1.53
1	E	304	ILE	C-O	6.10	1.31	1.23
1	H	461	MET	N-CA	-6.10	1.38	1.46
1	O	324	ARG	CA-CB	-6.10	1.45	1.53
1	E	298	ALA	CA-C	-6.10	1.45	1.52
1	P	369	VAL	C-O	-6.10	1.17	1.24
1	C	211	GLY	C-O	6.10	1.32	1.23
1	H	70	VAL	CA-C	6.10	1.59	1.53
1	I	363	ASP	C-N	-6.10	1.25	1.33
1	N	348	ARG	N-CA	-6.10	1.38	1.45
1	O	268	ILE	CA-C	6.10	1.59	1.52
1	C	160	GLY	C-N	6.10	1.38	1.33
1	C	403	ARG	N-CA	-6.10	1.38	1.46
1	G	89	VAL	N-CA	-6.10	1.38	1.46
1	G	318	ALA	N-CA	6.10	1.54	1.46
1	A	79	ILE	CA-CB	-6.09	1.46	1.54
1	A	140	CYS	N-CA	6.09	1.53	1.46
1	B	18	ARG	CA-CB	6.09	1.62	1.53
1	B	48	LEU	C-O	-6.09	1.16	1.23
1	B	342	ALA	C-O	6.09	1.31	1.23
1	B	346	LEU	CA-C	6.09	1.60	1.52
1	B	445	GLY	C-O	-6.09	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	393	LEU	CA-C	-6.09	1.44	1.52
1	K	377	ARG	C-N	6.09	1.41	1.33
1	O	220	SER	C-O	-6.09	1.16	1.24
1	G	418	ILE	N-CA	-6.09	1.39	1.46
1	J	88	GLU	CA-C	-6.09	1.46	1.52
1	A	455	THR	C-O	6.09	1.32	1.24
1	C	286	ARG	CA-C	6.09	1.60	1.52
1	H	102	GLU	C-N	6.09	1.42	1.33
1	H	307	ILE	CA-C	-6.09	1.45	1.52
1	J	347	ILE	CA-CB	-6.09	1.46	1.53
1	L	379	VAL	N-CA	6.09	1.52	1.46
1	E	225	LYS	C-O	-6.09	1.16	1.24
1	E	389	LEU	N-CA	-6.09	1.38	1.46
1	F	161	LYS	CA-C	-6.09	1.44	1.52
1	H	172	GLU	N-CA	-6.09	1.39	1.46
1	J	240	GLU	C-O	6.09	1.31	1.24
1	F	460	ASP	N-CA	6.09	1.54	1.46
1	H	438	ARG	NE-CZ	-6.09	1.26	1.33
1	K	98	VAL	CA-CB	-6.09	1.47	1.54
1	K	433	ILE	CA-CB	-6.09	1.45	1.54
1	M	459	GLU	N-CA	6.09	1.53	1.46
1	A	248	LYS	CA-C	6.08	1.59	1.52
1	C	351	THR	N-CA	-6.08	1.38	1.46
1	D	451	LEU	C-N	6.08	1.42	1.33
1	E	353	HIS	ND1-CE1	-6.08	1.26	1.32
1	A	350	THR	C-N	6.08	1.42	1.33
1	G	276	LEU	CA-CB	-6.08	1.43	1.53
1	H	481	ALA	C-O	-6.08	1.16	1.24
1	N	76	LYS	CA-C	-6.08	1.44	1.52
1	E	24	ASN	C-N	-6.08	1.25	1.33
1	O	22	ARG	CZ-NH2	6.08	1.41	1.33
1	P	272	ALA	CA-C	-6.08	1.45	1.52
1	H	414	ALA	CA-C	-6.08	1.44	1.52
1	D	164	GLU	CA-C	6.08	1.60	1.52
1	F	314	ASP	C-O	6.08	1.31	1.24
1	E	227	VAL	C-N	6.07	1.41	1.33
1	G	494	ILE	C-O	6.07	1.30	1.24
1	J	241	GLU	C-N	-6.07	1.25	1.33
1	K	39	LEU	C-O	6.07	1.31	1.23
1	P	95	THR	CA-C	6.07	1.60	1.52
1	H	224	PRO	CA-C	-6.07	1.43	1.52
1	J	72	HIS	CE1-NE2	-6.07	1.26	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	307	ILE	N-CA	-6.07	1.38	1.46
1	A	408	VAL	C-N	6.07	1.41	1.33
1	J	392	LYS	C-N	6.07	1.42	1.33
1	N	155	MET	C-O	-6.07	1.16	1.24
1	E	282	VAL	C-O	6.06	1.31	1.23
1	G	428	LEU	N-CA	-6.06	1.38	1.46
1	P	115	VAL	N-CA	-6.06	1.39	1.46
1	P	342	ALA	C-O	6.06	1.31	1.23
1	I	276	LEU	C-N	-6.06	1.24	1.33
1	G	442	ALA	C-N	-6.06	1.25	1.33
1	O	428	LEU	CA-CB	-6.06	1.43	1.53
1	B	272	ALA	C-O	6.06	1.31	1.24
1	K	72	HIS	C-N	6.06	1.41	1.33
1	M	470	LEU	N-CA	-6.06	1.37	1.46
1	P	369	VAL	CA-CB	-6.06	1.47	1.54
1	I	343	VAL	CA-C	-6.06	1.45	1.52
1	L	107	ALA	N-CA	-6.06	1.38	1.46
1	N	491	ASP	CA-C	6.06	1.61	1.53
1	F	477	ILE	C-N	-6.06	1.25	1.33
1	E	319	GLY	C-N	-6.05	1.26	1.33
1	H	181	VAL	C-N	-6.05	1.25	1.33
1	I	212	VAL	CA-C	-6.05	1.44	1.52
1	J	31	ILE	CA-C	-6.05	1.45	1.52
1	L	430	ALA	CA-C	-6.05	1.45	1.52
1	O	399	GLY	N-CA	-6.05	1.38	1.45
1	B	421	THR	C-O	-6.05	1.16	1.24
1	G	22	ARG	CZ-NH1	6.05	1.41	1.32
1	J	461	MET	C-O	6.05	1.31	1.24
1	M	45	ASP	N-CA	6.05	1.53	1.45
1	N	487	LEU	CA-C	-6.05	1.44	1.52
1	D	236	ASN	N-CA	6.05	1.53	1.45
1	M	65	LEU	CA-CB	-6.05	1.45	1.54
1	M	468	GLU	N-CA	6.05	1.50	1.45
1	P	449	ALA	C-N	6.05	1.41	1.33
1	B	285	ARG	N-CA	6.04	1.53	1.46
1	J	188	VAL	C-O	6.04	1.30	1.24
1	L	429	ASP	C-N	6.04	1.42	1.33
1	C	378	ILE	C-O	6.04	1.31	1.24
1	D	424	GLU	N-CA	6.04	1.53	1.46
1	M	318	ALA	N-CA	-6.04	1.38	1.46
1	N	437	VAL	C-N	6.04	1.42	1.33
1	P	201	ALA	CA-CB	6.04	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	38	THR	N-CA	-6.04	1.39	1.46
1	C	289	LYS	C-O	6.04	1.31	1.24
1	B	272	ALA	CA-C	-6.04	1.45	1.52
1	G	42	LYS	N-CA	6.04	1.53	1.46
1	M	360	ARG	CZ-NH2	-6.04	1.25	1.33
1	A	141	GLU	C-O	6.04	1.31	1.23
1	E	463	GLU	CA-CB	6.04	1.62	1.53
1	G	157	SER	N-CA	-6.04	1.38	1.46
1	J	178	VAL	CA-CB	-6.04	1.47	1.54
1	A	361	ALA	C-N	-6.04	1.26	1.33
1	H	158	ILE	N-CA	-6.04	1.38	1.46
1	H	353	HIS	CG-ND1	-6.04	1.31	1.38
1	I	156	THR	CA-C	-6.04	1.44	1.52
1	J	281	ILE	N-CA	6.04	1.53	1.46
1	L	432	GLU	CA-CB	-6.04	1.44	1.53
1	O	65	LEU	CA-CB	-6.04	1.43	1.53
1	F	441	HIS	C-O	6.03	1.31	1.24
1	I	317	ASP	CA-C	-6.03	1.45	1.52
1	L	244	SER	CA-C	-6.03	1.44	1.52
1	O	197	LYS	C-O	6.03	1.30	1.24
1	A	206	THR	N-CA	6.03	1.53	1.46
1	C	189	ASP	CG-OD2	6.03	1.36	1.25
1	H	475	GLN	N-CA	-6.03	1.38	1.46
1	I	160	GLY	C-N	6.03	1.40	1.33
1	J	60	ASP	C-O	6.03	1.31	1.24
1	P	152	LYS	CA-CB	-6.03	1.43	1.53
1	D	357	GLU	N-CA	-6.03	1.38	1.46
1	J	223	MET	N-CA	-6.03	1.37	1.46
1	M	156	THR	C-O	-6.03	1.16	1.24
1	D	424	GLU	CA-C	6.03	1.60	1.52
1	F	66	ARG	CD-NE	6.03	1.54	1.46
1	I	394	ARG	CD-NE	6.03	1.54	1.46
1	I	69	SER	C-N	-6.03	1.25	1.33
1	M	15	TYR	N-CA	-6.03	1.39	1.47
1	M	293	GLU	N-CA	6.03	1.53	1.46
1	C	84	THR	C-O	-6.02	1.16	1.24
1	B	361	ALA	C-N	6.02	1.40	1.33
1	I	222	GLN	CA-C	6.02	1.61	1.52
1	I	230	ALA	N-CA	6.02	1.53	1.46
1	N	210	LYS	C-O	6.02	1.31	1.24
1	H	381	GLY	C-O	-6.02	1.15	1.23
1	I	155	MET	C-N	6.02	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	443	SER	C-N	-6.02	1.26	1.33
1	P	395	GLU	CA-C	-6.02	1.44	1.52
1	B	126	ALA	C-N	-6.02	1.24	1.33
1	D	122	LYS	CA-C	-6.02	1.44	1.52
1	F	215	ASP	CG-OD2	6.02	1.36	1.25
1	G	387	VAL	CA-CB	6.02	1.61	1.54
1	N	16	MET	N-CA	6.02	1.53	1.46
1	F	234	LEU	C-O	6.02	1.31	1.24
1	G	178	VAL	C-O	-6.02	1.16	1.24
1	J	96	ALA	CA-CB	6.02	1.62	1.53
1	L	491	ASP	C-O	-6.02	1.18	1.24
1	P	163	ALA	C-N	-6.02	1.25	1.33
1	I	181	VAL	CA-CB	6.02	1.61	1.54
1	A	298	ALA	C-N	-6.01	1.25	1.33
1	K	197	LYS	CA-C	6.01	1.59	1.52
1	L	435	VAL	CA-C	6.01	1.62	1.52
1	O	327	SER	C-O	-6.01	1.16	1.23
1	P	205	ASP	C-N	-6.01	1.25	1.33
1	B	422	LEU	CA-C	6.01	1.61	1.52
1	C	14	ARG	NE-CZ	6.01	1.39	1.33
1	C	403	ARG	NE-CZ	6.01	1.39	1.33
1	E	274	HIS	N-CA	-6.01	1.38	1.46
1	E	55	VAL	C-N	-6.01	1.25	1.33
1	N	304	ILE	CA-C	-6.01	1.45	1.52
1	N	317	ASP	C-N	6.01	1.41	1.33
1	E	360	ARG	NE-CZ	-6.01	1.26	1.33
1	I	301	ALA	N-CA	6.01	1.53	1.45
1	P	324	ARG	CD-NE	-6.01	1.37	1.46
1	P	341	LYS	C-N	6.01	1.42	1.33
1	F	174	ILE	CA-C	-6.00	1.44	1.52
1	P	98	VAL	CA-CB	-6.00	1.48	1.54
1	A	475	GLN	C-O	6.00	1.32	1.24
1	F	142	VAL	CA-CB	6.00	1.60	1.55
1	J	18	ARG	CZ-NH1	6.00	1.41	1.32
1	H	133	GLU	CA-CB	-6.00	1.43	1.53
1	O	390	SER	C-O	6.00	1.31	1.24
1	B	167	LYS	C-N	6.00	1.42	1.33
1	B	172	GLU	C-N	-6.00	1.26	1.34
1	D	125	GLN	N-CA	6.00	1.53	1.46
1	F	85	GLN	N-CA	-6.00	1.38	1.46
1	G	200	GLY	C-N	6.00	1.42	1.33
1	H	254	ILE	C-O	-6.00	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	335	GLU	C-O	6.00	1.30	1.23
1	M	257	SER	C-N	6.00	1.42	1.33
1	M	388	GLU	C-O	-6.00	1.17	1.24
1	N	464	ASN	C-N	6.00	1.42	1.33
1	B	239	ILE	N-CA	6.00	1.53	1.46
1	D	157	SER	CA-CB	-6.00	1.44	1.54
1	I	161	LYS	CA-C	6.00	1.60	1.53
1	L	107	ALA	C-O	6.00	1.31	1.24
1	L	140	CYS	CA-C	6.00	1.60	1.53
1	M	418	ILE	C-O	-6.00	1.19	1.24
1	N	317	ASP	CA-CB	6.00	1.62	1.53
1	E	72	HIS	CA-C	6.00	1.60	1.53
1	I	184	ASP	C-O	6.00	1.30	1.23
1	P	77	MET	CA-CB	-6.00	1.44	1.53
1	D	106	LYS	C-O	5.99	1.30	1.24
1	I	167	LYS	C-N	5.99	1.42	1.34
1	I	448	CYS	C-N	-5.99	1.25	1.33
1	J	20	ALA	C-O	5.99	1.31	1.24
1	P	463	GLU	C-N	5.99	1.42	1.33
1	J	339	HIS	CB-CG	5.99	1.58	1.50
1	E	291	ASP	CA-CB	-5.99	1.44	1.53
1	E	432	GLU	N-CA	-5.99	1.39	1.46
1	J	45	ASP	C-O	5.99	1.31	1.24
1	N	98	VAL	N-CA	5.99	1.54	1.46
1	F	246	MET	N-CA	-5.99	1.37	1.46
1	G	40	GLY	C-N	5.99	1.41	1.34
1	O	124	TYR	C-O	-5.99	1.16	1.24
1	O	175	VAL	N-CA	5.99	1.54	1.46
1	J	432	GLU	CA-C	-5.99	1.44	1.52
1	P	428	LEU	N-CA	-5.99	1.38	1.45
1	B	383	GLY	N-CA	-5.98	1.36	1.45
1	G	22	ARG	NE-CZ	-5.98	1.26	1.33
1	A	20	ALA	C-O	-5.98	1.17	1.24
1	G	84	THR	CB-OG1	-5.98	1.34	1.43
1	H	88	GLU	C-O	5.98	1.31	1.24
1	L	207	GLU	C-O	5.98	1.31	1.23
1	M	218	ARG	CA-C	5.98	1.60	1.52
1	N	244	SER	C-N	-5.98	1.26	1.33
1	N	245	GLU	CD-OE1	5.98	1.36	1.25
1	A	252	ALA	CA-CB	-5.98	1.42	1.53
1	D	426	ALA	CA-CB	-5.98	1.43	1.53
1	E	325	LYS	C-O	5.98	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	215	ASP	N-CA	-5.98	1.37	1.46
1	J	130	LYS	C-O	-5.98	1.17	1.24
1	G	246	MET	CA-C	-5.98	1.44	1.52
1	H	403	ARG	CZ-NH2	5.98	1.41	1.33
1	M	473	LYS	C-N	-5.98	1.26	1.33
1	O	238	ALA	C-O	5.98	1.31	1.24
1	P	134	LEU	CA-C	-5.98	1.47	1.52
1	G	71	GLU	CA-C	5.98	1.60	1.52
1	H	346	LEU	N-CA	-5.98	1.38	1.46
1	A	464	ASN	N-CA	5.97	1.53	1.46
1	C	67	GLU	N-CA	5.97	1.53	1.46
1	O	22	ARG	CZ-NH1	5.97	1.41	1.32
1	O	428	LEU	C-N	-5.97	1.25	1.33
1	F	177	ALA	N-CA	-5.97	1.38	1.46
1	K	346	LEU	CA-CB	5.97	1.63	1.53
1	L	18	ARG	NE-CZ	5.97	1.39	1.33
1	M	489	ARG	C-N	-5.97	1.26	1.33
1	O	334	VAL	CA-C	5.97	1.60	1.52
1	D	341	LYS	N-CA	-5.97	1.38	1.46
1	K	457	ALA	C-N	5.97	1.41	1.33
1	O	448	CYS	N-CA	-5.97	1.39	1.46
1	B	173	ILE	CA-C	5.97	1.60	1.52
1	D	350	THR	CA-C	5.97	1.58	1.52
1	J	274	HIS	C-N	5.97	1.42	1.33
1	K	181	VAL	N-CA	5.97	1.54	1.46
1	L	145	GLN	C-O	5.97	1.32	1.24
1	M	313	GLN	CA-C	-5.97	1.45	1.52
1	P	22	ARG	C-N	-5.97	1.25	1.34
1	E	279	GLU	CA-C	5.97	1.60	1.52
1	F	258	GLY	CA-C	5.97	1.60	1.51
1	L	144	ALA	N-CA	5.97	1.53	1.46
1	M	8	LEU	CA-C	-5.97	1.45	1.52
1	C	202	SER	CA-C	5.97	1.60	1.52
1	O	274	HIS	N-CA	5.97	1.53	1.46
1	A	188	VAL	C-N	5.96	1.41	1.33
1	B	37	SER	CA-C	-5.96	1.44	1.52
1	D	194	LYS	C-O	-5.96	1.16	1.23
1	E	489	ARG	CA-C	-5.96	1.44	1.52
1	F	112	ASP	C-O	-5.96	1.16	1.24
1	F	226	LYS	N-CA	5.96	1.53	1.46
1	K	128	ALA	N-CA	-5.96	1.38	1.46
1	L	161	LYS	C-O	5.96	1.31	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	239	ILE	N-CA	-5.96	1.36	1.46
1	L	66	ARG	CD-NE	-5.96	1.38	1.46
1	B	316	GLY	C-O	5.96	1.29	1.23
1	B	372	THR	N-CA	5.96	1.53	1.46
1	E	390	SER	N-CA	5.96	1.53	1.46
1	F	323	GLU	C-O	5.96	1.31	1.23
1	K	143	GLY	CA-C	5.96	1.60	1.51
1	M	427	GLY	C-N	-5.96	1.24	1.33
1	N	268	ILE	C-N	-5.96	1.24	1.33
1	N	382	GLY	N-CA	-5.96	1.37	1.45
1	O	102	GLU	N-CA	5.96	1.53	1.46
1	A	328	GLY	C-O	-5.96	1.15	1.23
1	B	98	VAL	CA-CB	5.96	1.61	1.54
1	E	14	ARG	CA-CB	-5.96	1.44	1.53
1	E	243	ALA	C-O	5.96	1.31	1.24
1	G	198	LYS	C-N	-5.96	1.25	1.33
1	H	269	ASP	CA-C	5.96	1.60	1.52
1	L	116	HIS	CG-CD2	-5.96	1.29	1.35
1	O	57	VAL	CA-CB	5.96	1.60	1.53
1	P	201	ALA	C-O	5.96	1.31	1.24
1	P	450	GLY	CA-C	5.96	1.60	1.52
1	F	42	LYS	N-CA	5.96	1.52	1.46
1	F	279	GLU	C-N	5.96	1.40	1.33
1	K	402	GLY	C-N	-5.96	1.26	1.33
1	O	339	HIS	CD2-NE2	5.96	1.44	1.37
1	O	363	ASP	C-O	-5.96	1.16	1.24
1	A	334	VAL	CA-CB	-5.95	1.46	1.54
1	C	251	VAL	N-CA	5.95	1.53	1.46
1	D	84	THR	N-CA	-5.95	1.39	1.46
1	D	236	ASN	CA-C	5.95	1.60	1.52
1	K	60	ASP	N-CA	5.95	1.53	1.46
1	K	140	CYS	N-CA	5.95	1.54	1.46
1	B	266	LYS	N-CA	5.95	1.53	1.45
1	H	397	ALA	N-CA	-5.95	1.39	1.46
1	J	246	MET	N-CA	-5.95	1.39	1.46
1	L	312	ALA	C-O	-5.95	1.16	1.24
1	F	54	ASP	C-O	5.95	1.31	1.24
1	F	224	PRO	N-CD	5.95	1.56	1.47
1	J	437	VAL	N-CA	-5.95	1.39	1.46
1	L	245	GLU	C-O	5.95	1.31	1.24
1	M	107	ALA	CA-CB	-5.95	1.42	1.53
1	B	65	LEU	C-O	5.95	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	433	ILE	C-N	-5.95	1.26	1.34
1	A	152	LYS	N-CA	-5.95	1.39	1.46
1	G	352	GLU	N-CA	-5.95	1.39	1.46
1	H	169	LYS	CA-C	5.95	1.60	1.52
1	I	207	GLU	C-N	5.94	1.41	1.33
1	N	52	LEU	C-O	5.94	1.31	1.24
1	H	479	SER	CA-CB	-5.94	1.43	1.53
1	I	18	ARG	NE-CZ	5.94	1.39	1.33
1	I	441	HIS	ND1-CE1	5.94	1.38	1.32
1	B	10	GLU	N-CA	5.94	1.53	1.46
1	B	412	ALA	C-O	5.94	1.31	1.24
1	E	34	THR	CA-CB	5.94	1.63	1.53
1	G	89	VAL	CA-CB	5.94	1.61	1.54
1	L	419	PRO	CA-CB	-5.94	1.44	1.53
1	P	353	HIS	CE1-NE2	5.94	1.38	1.32
1	A	80	GLU	C-N	5.94	1.41	1.33
1	C	458	VAL	CA-CB	5.94	1.61	1.54
1	G	236	ASN	N-CA	-5.94	1.38	1.46
1	L	73	PRO	CA-CB	-5.94	1.45	1.53
1	O	136	LYS	C-O	5.94	1.31	1.24
1	D	116	HIS	CE1-NE2	-5.93	1.26	1.32
1	E	38	THR	CB-OG1	5.93	1.53	1.43
1	F	400	ILE	N-CA	-5.93	1.39	1.46
1	H	484	THR	C-N	5.93	1.42	1.34
1	I	365	ALA	N-CA	-5.93	1.38	1.46
1	A	340	PRO	N-CA	5.93	1.54	1.47
1	C	144	ALA	C-O	-5.93	1.16	1.24
1	G	67	GLU	CA-C	-5.93	1.45	1.52
1	G	455	THR	C-O	-5.93	1.16	1.24
1	L	9	PRO	N-CA	5.93	1.54	1.47
1	L	456	GLY	N-CA	-5.93	1.36	1.45
1	I	40	GLY	N-CA	5.93	1.52	1.44
1	C	310	LEU	C-N	5.93	1.40	1.33
1	J	377	ARG	NE-CZ	5.93	1.39	1.33
1	N	135	LEU	C-O	5.93	1.31	1.24
1	P	351	THR	C-N	5.93	1.42	1.33
1	I	69	SER	C-O	5.93	1.31	1.24
1	I	73	PRO	CA-CB	-5.93	1.44	1.53
1	L	414	ALA	N-CA	-5.93	1.39	1.46
1	P	381	GLY	C-O	5.93	1.29	1.23
1	A	93	THR	CA-C	5.93	1.60	1.52
1	E	160	GLY	N-CA	5.93	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	77	MET	C-O	5.93	1.31	1.24
1	L	307	ILE	CA-CB	5.93	1.61	1.54
1	F	117	PRO	C-O	-5.92	1.16	1.24
1	P	268	ILE	CA-CB	5.92	1.61	1.55
1	G	278	LYS	CA-C	-5.92	1.45	1.52
1	I	116	HIS	CD2-NE2	-5.92	1.31	1.37
1	J	422	LEU	N-CA	-5.92	1.39	1.46
1	C	81	VAL	CA-C	-5.92	1.45	1.52
1	D	492	ASP	N-CA	5.92	1.53	1.46
1	F	212	VAL	N-CA	-5.92	1.39	1.46
1	F	366	VAL	CA-C	5.92	1.60	1.52
1	G	417	VAL	C-O	-5.92	1.16	1.24
1	I	47	MET	C-N	5.92	1.41	1.33
1	P	36	ARG	C-O	-5.92	1.16	1.24
1	A	484	THR	C-O	-5.92	1.16	1.24
1	F	96	ALA	C-O	-5.92	1.16	1.24
1	I	100	ALA	CA-C	-5.92	1.44	1.52
1	I	486	MET	CA-CB	5.92	1.62	1.53
1	K	140	CYS	CA-C	-5.92	1.46	1.53
1	L	394	ARG	CZ-NH2	5.92	1.41	1.33
1	L	417	VAL	CA-CB	-5.92	1.46	1.54
1	G	66	ARG	CA-C	5.92	1.60	1.52
1	J	33	GLU	C-O	-5.92	1.17	1.24
1	K	142	VAL	CA-C	5.92	1.60	1.52
1	L	367	GLY	C-N	5.92	1.40	1.34
1	P	137	THR	N-CA	5.92	1.53	1.46
1	M	299	THR	N-CA	-5.92	1.39	1.46
1	A	120	VAL	CA-C	5.92	1.60	1.52
1	F	105	ARG	C-N	5.92	1.41	1.34
1	L	470	LEU	C-O	5.92	1.31	1.23
1	N	384	SER	N-CA	-5.91	1.38	1.46
1	G	168	GLU	CA-C	-5.91	1.44	1.52
1	J	428	LEU	CA-C	-5.91	1.45	1.53
1	L	361	ALA	N-CA	5.91	1.54	1.46
1	B	336	GLU	CD-OE2	5.91	1.36	1.25
1	G	468	GLU	C-O	-5.91	1.16	1.24
1	J	323	GLU	C-O	5.91	1.31	1.24
1	L	420	ARG	NE-CZ	-5.91	1.26	1.33
1	N	380	SER	CA-C	5.91	1.60	1.52
1	N	428	LEU	CA-C	-5.91	1.44	1.53
1	A	334	VAL	N-CA	5.91	1.53	1.46
1	B	68	MET	C-N	5.91	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	164	GLU	C-N	5.91	1.41	1.33
1	B	472	VAL	CA-C	-5.91	1.45	1.52
1	I	164	GLU	CD-OE1	5.91	1.36	1.25
1	J	303	VAL	CA-CB	5.91	1.61	1.54
1	E	343	VAL	CA-C	5.91	1.59	1.52
1	J	88	GLU	C-O	5.91	1.32	1.24
1	P	420	ARG	N-CA	-5.91	1.39	1.46
1	M	29	ARG	CZ-NH2	5.90	1.41	1.33
1	A	151	THR	CA-C	5.90	1.60	1.52
1	G	265	GLN	C-N	-5.90	1.25	1.33
1	I	377	ARG	CA-C	5.90	1.59	1.52
1	N	376	GLY	C-O	5.90	1.30	1.23
1	P	366	VAL	N-CA	-5.90	1.38	1.46
1	B	45	ASP	C-N	-5.90	1.26	1.33
1	B	151	THR	C-N	-5.90	1.26	1.33
1	D	43	GLY	CA-C	5.90	1.56	1.51
1	D	63	THR	CA-C	5.90	1.60	1.52
1	F	107	ALA	CA-CB	-5.90	1.43	1.53
1	G	168	GLU	CA-CB	5.90	1.62	1.53
1	O	163	ALA	N-CA	5.90	1.52	1.46
1	H	303	VAL	N-CA	5.90	1.52	1.46
1	M	417	VAL	CA-C	5.90	1.59	1.52
1	F	217	GLU	C-O	-5.90	1.16	1.23
1	H	172	GLU	CA-C	5.89	1.60	1.52
1	H	327	SER	C-O	5.89	1.35	1.24
1	I	177	ALA	CA-CB	-5.89	1.43	1.53
1	I	353	HIS	CE1-NE2	5.89	1.38	1.32
1	J	105	ARG	CD-NE	5.89	1.54	1.46
1	J	409	ARG	N-CA	5.89	1.53	1.46
1	M	248	LYS	C-N	-5.89	1.25	1.33
1	M	188	VAL	N-CA	-5.89	1.39	1.46
1	N	93	THR	CB-OG1	-5.89	1.34	1.43
1	N	288	LYS	C-N	5.89	1.42	1.33
1	N	401	SER	C-O	-5.89	1.16	1.24
1	O	113	GLN	C-N	5.89	1.42	1.33
1	J	465	GLY	N-CA	5.89	1.53	1.45
1	D	169	LYS	N-CA	-5.89	1.38	1.46
1	F	449	ALA	C-O	-5.89	1.16	1.24
1	H	253	GLU	C-N	5.89	1.41	1.33
1	J	121	VAL	CA-C	5.89	1.60	1.52
1	K	269	ASP	N-CA	5.89	1.53	1.46
1	F	440	ALA	N-CA	5.89	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	463	GLU	N-CA	5.89	1.53	1.46
1	J	394	ARG	CZ-NH2	5.89	1.41	1.33
1	O	285	ARG	CD-NE	-5.89	1.38	1.46
1	E	146	ASP	N-CA	5.88	1.53	1.46
1	H	388	GLU	C-O	5.88	1.31	1.24
1	K	97	VAL	C-N	5.88	1.41	1.33
1	M	465	GLY	CA-C	5.88	1.60	1.51
1	G	324	ARG	CZ-NH1	-5.88	1.24	1.32
1	M	468	GLU	CA-CB	-5.88	1.46	1.54
1	B	77	MET	C-O	-5.88	1.16	1.24
1	D	451	LEU	CA-CB	-5.88	1.47	1.53
1	G	131	ALA	CA-C	5.88	1.61	1.52
1	I	15	TYR	C-N	-5.88	1.26	1.33
1	A	88	GLU	CD-OE1	5.88	1.36	1.25
1	L	81	VAL	C-O	-5.88	1.18	1.24
1	L	341	LYS	C-N	5.88	1.42	1.33
1	N	276	LEU	C-O	5.88	1.31	1.24
1	C	85	GLN	CA-C	-5.88	1.45	1.52
1	I	43	GLY	N-CA	5.88	1.50	1.44
1	B	25	ILE	C-N	-5.88	1.26	1.33
1	F	58	THR	N-CA	5.87	1.53	1.46
1	H	457	ALA	CA-C	5.87	1.59	1.52
1	D	33	GLU	CA-C	-5.87	1.45	1.52
1	K	91	ASP	C-O	5.87	1.31	1.24
1	N	456	GLY	C-O	-5.87	1.16	1.23
1	N	467	VAL	CA-CB	5.87	1.62	1.54
1	P	479	SER	C-N	-5.87	1.25	1.33
1	D	386	GLU	N-CA	-5.87	1.38	1.46
1	M	131	ALA	CA-CB	-5.87	1.44	1.53
1	P	484	THR	C-N	5.87	1.42	1.33
1	C	156	THR	C-N	-5.87	1.25	1.33
1	K	308	LYS	C-O	5.87	1.31	1.24
1	C	497	GLU	C-O	5.87	1.35	1.23
1	P	473	LYS	C-O	-5.87	1.16	1.24
1	D	43	GLY	C-O	5.86	1.30	1.23
1	N	394	ARG	C-O	-5.86	1.17	1.24
1	O	286	ARG	CD-NE	5.86	1.54	1.46
1	P	280	GLY	N-CA	5.86	1.52	1.44
1	N	195	ILE	CA-C	5.86	1.58	1.53
1	O	409	ARG	CD-NE	5.86	1.54	1.46
1	C	274	HIS	C-N	-5.86	1.25	1.33
1	F	294	LYS	CA-C	5.86	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	133	GLU	CA-CB	-5.86	1.44	1.53
1	G	411	PHE	C-N	5.86	1.41	1.33
1	H	292	MET	N-CA	-5.86	1.39	1.46
1	I	317	ASP	C-N	5.86	1.41	1.33
1	G	96	ALA	C-N	5.86	1.40	1.33
1	M	274	HIS	CE1-NE2	-5.86	1.26	1.32
1	P	50	ASP	C-N	-5.86	1.25	1.33
1	B	105	ARG	NE-CZ	5.86	1.39	1.33
1	H	124	TYR	C-O	-5.86	1.16	1.24
1	I	410	ALA	C-N	5.86	1.41	1.33
1	J	200	GLY	N-CA	5.86	1.53	1.45
1	K	66	ARG	C-O	-5.86	1.17	1.24
1	D	258	GLY	C-O	-5.86	1.16	1.23
1	J	205	ASP	CA-CB	5.86	1.59	1.53
1	K	295	LEU	N-CA	-5.86	1.39	1.46
1	M	116	HIS	CD2-NE2	5.86	1.44	1.37
1	O	242	THR	CA-C	5.86	1.60	1.52
1	O	360	ARG	CZ-NH1	5.86	1.41	1.32
1	F	220	SER	N-CA	-5.85	1.39	1.46
1	G	467	VAL	CA-C	5.85	1.60	1.52
1	P	298	ALA	C-O	5.85	1.31	1.24
1	F	246	MET	C-O	-5.85	1.15	1.24
1	L	174	ILE	C-O	5.85	1.30	1.24
1	D	284	ALA	N-CA	-5.85	1.38	1.46
1	H	279	GLU	C-O	5.85	1.32	1.23
1	G	423	ALA	CA-C	5.85	1.60	1.52
1	J	115	VAL	CA-CB	-5.85	1.46	1.54
1	N	114	ASN	C-O	5.85	1.32	1.23
1	N	205	ASP	N-CA	-5.85	1.38	1.46
1	O	426	ALA	CA-C	-5.85	1.45	1.52
1	E	352	GLU	N-CA	5.85	1.53	1.46
1	G	353	HIS	C-N	5.85	1.41	1.33
1	M	439	ALA	CA-C	5.85	1.60	1.52
1	M	485	GLU	C-O	-5.85	1.15	1.23
1	O	249	ASP	N-CA	5.85	1.53	1.46
1	A	397	ALA	CA-CB	-5.85	1.44	1.53
1	C	278	LYS	CA-C	-5.85	1.45	1.52
1	E	108	GLU	N-CA	-5.85	1.39	1.46
1	H	52	LEU	N-CA	-5.85	1.39	1.46
1	J	206	THR	N-CA	5.84	1.53	1.46
1	N	130	LYS	C-O	5.84	1.31	1.24
1	E	386	GLU	C-N	5.84	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	219	VAL	CA-C	5.84	1.59	1.52
1	K	476	ALA	C-O	-5.84	1.17	1.24
1	N	403	ARG	CA-C	-5.84	1.44	1.52
1	J	54	ASP	N-CA	5.84	1.53	1.46
1	L	197	LYS	CA-CB	5.84	1.62	1.53
1	M	87	LYS	CA-CB	5.84	1.62	1.53
1	M	343	VAL	CA-CB	5.84	1.63	1.55
1	C	107	ALA	C-O	5.84	1.31	1.24
1	D	198	LYS	N-CA	5.84	1.53	1.45
1	J	103	LEU	N-CA	5.84	1.53	1.46
1	N	77	MET	CA-C	5.84	1.62	1.52
1	B	474	THR	CB-OG1	-5.83	1.34	1.43
1	H	441	HIS	N-CA	5.83	1.53	1.46
1	M	463	GLU	C-O	5.83	1.31	1.24
1	N	454	PHE	C-O	-5.83	1.17	1.24
1	A	432	GLU	C-O	5.83	1.30	1.24
1	B	138	ILE	C-N	5.83	1.41	1.33
1	D	495	ALA	C-O	5.83	1.31	1.24
1	F	407	ALA	CA-C	5.83	1.60	1.53
1	I	465	GLY	C-O	5.83	1.31	1.23
1	K	263	PHE	C-O	5.83	1.30	1.24
1	L	286	ARG	C-O	-5.83	1.16	1.24
1	P	476	ALA	C-N	-5.83	1.26	1.33
1	G	111	LEU	N-CA	-5.83	1.38	1.46
1	I	34	THR	C-O	-5.83	1.17	1.24
1	J	195	ILE	CA-CB	5.83	1.62	1.54
1	O	345	MET	N-CA	-5.83	1.39	1.46
1	F	290	SER	N-CA	-5.83	1.39	1.46
1	K	227	VAL	C-N	5.83	1.41	1.33
1	K	386	GLU	N-CA	5.83	1.53	1.46
1	N	172	GLU	N-CA	5.83	1.53	1.46
1	O	342	ALA	C-O	5.83	1.31	1.23
1	G	397	ALA	CA-CB	-5.83	1.44	1.53
1	L	433	ILE	CA-CB	-5.83	1.47	1.54
1	O	277	ALA	CA-CB	-5.83	1.43	1.53
1	P	170	LEU	CA-C	-5.83	1.44	1.52
1	B	473	LYS	CA-C	-5.82	1.44	1.52
1	C	182	VAL	C-O	5.82	1.30	1.24
1	E	174	ILE	CA-CB	5.82	1.62	1.54
1	K	23	MET	C-N	-5.82	1.26	1.33
1	K	27	ALA	N-CA	5.82	1.53	1.46
1	K	285	ARG	C-O	5.82	1.30	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	399	GLY	CA-C	5.82	1.60	1.51
1	N	360	ARG	CD-NE	-5.82	1.38	1.46
1	C	330	SER	C-O	-5.82	1.16	1.24
1	L	353	HIS	CA-C	-5.82	1.47	1.53
1	N	360	ARG	CZ-NH2	5.82	1.41	1.33
1	B	79	ILE	N-CA	5.82	1.53	1.46
1	M	122	LYS	C-O	5.82	1.32	1.24
1	A	83	LYS	CA-C	-5.82	1.45	1.52
1	P	359	ALA	C-O	5.82	1.31	1.24
1	F	323	GLU	CA-CB	5.82	1.60	1.52
1	G	332	ILE	CA-C	-5.82	1.45	1.52
1	J	361	ALA	C-O	-5.82	1.16	1.24
1	M	84	THR	C-N	5.82	1.42	1.33
1	O	444	ASN	C-N	5.82	1.42	1.33
1	A	35	VAL	CA-CB	5.81	1.62	1.54
1	B	285	ARG	CZ-NH2	5.81	1.41	1.33
1	B	353	HIS	CG-CD2	5.81	1.42	1.35
1	C	490	ILE	C-O	-5.81	1.17	1.24
1	D	345	MET	C-O	5.81	1.30	1.24
1	J	62	VAL	CA-CB	5.81	1.62	1.54
1	K	124	TYR	CA-C	5.81	1.60	1.52
1	M	180	ALA	N-CA	-5.81	1.38	1.46
1	M	404	GLU	CA-C	5.81	1.60	1.52
1	N	119	ILE	CA-C	5.81	1.60	1.52
1	P	328	GLY	C-N	5.81	1.41	1.33
1	J	191	ASP	C-N	5.81	1.41	1.33
1	C	89	VAL	CA-CB	-5.81	1.48	1.54
1	G	474	THR	C-O	5.81	1.30	1.24
1	N	270	ASP	CA-C	5.81	1.60	1.52
1	O	14	ARG	CZ-NH2	-5.81	1.25	1.33
1	B	124	TYR	N-CA	5.81	1.53	1.46
1	E	110	LEU	CA-CB	-5.81	1.43	1.53
1	I	26	LEU	C-N	-5.81	1.26	1.33
1	L	378	ILE	N-CA	-5.81	1.39	1.46
1	L	431	ILE	CA-C	-5.81	1.45	1.52
1	C	100	ALA	N-CA	5.81	1.53	1.46
1	G	465	GLY	C-N	5.81	1.41	1.33
1	K	146	ASP	CA-C	5.81	1.60	1.52
1	K	260	ASN	N-CA	-5.81	1.38	1.46
1	B	224	PRO	C-N	-5.80	1.25	1.33
1	C	31	ILE	C-N	5.80	1.42	1.33
1	H	229	ASP	N-CA	-5.80	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	325	LYS	C-O	5.80	1.30	1.24
1	K	344	THR	N-CA	-5.80	1.38	1.46
1	A	191	ASP	N-CA	-5.80	1.38	1.46
1	D	59	ASN	C-O	-5.80	1.17	1.23
1	B	422	LEU	C-N	-5.80	1.25	1.33
1	O	333	PHE	N-CA	5.80	1.53	1.45
1	C	229	ASP	C-N	5.80	1.41	1.33
1	F	201	ALA	C-N	5.80	1.41	1.33
1	O	9	PRO	CA-CB	-5.80	1.45	1.53
1	B	269	ASP	CA-C	-5.79	1.45	1.52
1	I	13	LYS	C-N	-5.79	1.26	1.33
1	A	69	SER	N-CA	-5.79	1.38	1.46
1	C	113	GLN	C-N	5.79	1.41	1.33
1	D	159	THR	C-O	-5.79	1.17	1.24
1	H	81	VAL	CA-CB	-5.79	1.47	1.54
1	M	116	HIS	CA-CB	-5.79	1.44	1.53
1	N	249	ASP	CA-C	5.79	1.60	1.52
1	O	398	GLU	CD-OE2	5.79	1.36	1.25
1	H	246	MET	CA-C	-5.79	1.45	1.52
1	N	448	CYS	C-O	-5.79	1.16	1.24
1	P	163	ALA	CA-C	-5.79	1.46	1.53
1	I	189	ASP	C-N	-5.79	1.26	1.33
1	J	177	ALA	C-O	-5.79	1.16	1.24
1	G	35	VAL	CA-CB	-5.79	1.46	1.54
1	M	429	ASP	CG-OD1	5.79	1.36	1.25
1	O	196	GLU	CA-C	5.79	1.59	1.52
1	P	217	GLU	CA-C	5.79	1.61	1.53
1	D	38	THR	CA-C	-5.79	1.44	1.52
1	L	176	GLU	CA-CB	5.79	1.63	1.53
1	O	49	VAL	N-CA	-5.79	1.39	1.46
1	A	168	GLU	CD-OE1	5.78	1.36	1.25
1	H	488	LEU	C-O	5.78	1.30	1.24
1	I	63	THR	CB-OG1	5.78	1.53	1.43
1	I	216	LYS	N-CA	-5.78	1.38	1.46
1	N	148	GLU	CD-OE2	5.78	1.36	1.25
1	O	467	VAL	N-CA	5.78	1.52	1.46
1	P	441	HIS	ND1-CE1	-5.78	1.26	1.32
1	F	391	MET	C-O	-5.78	1.16	1.24
1	A	177	ALA	C-O	5.78	1.31	1.24
1	F	437	VAL	C-N	-5.78	1.25	1.33
1	H	324	ARG	CZ-NH1	5.78	1.40	1.32
1	I	217	GLU	N-CA	-5.78	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	376	GLY	N-CA	-5.78	1.36	1.45
1	L	48	LEU	C-N	5.78	1.41	1.33
1	M	120	VAL	CA-CB	5.78	1.62	1.54
1	M	311	SER	C-O	-5.78	1.16	1.24
1	O	351	THR	N-CA	-5.78	1.38	1.45
1	O	441	HIS	CG-ND1	5.78	1.44	1.38
1	E	398	GLU	C-O	5.78	1.33	1.24
1	F	344	THR	CB-OG1	-5.78	1.34	1.43
1	P	96	ALA	C-N	-5.78	1.25	1.33
1	P	239	ILE	N-CA	-5.78	1.39	1.46
1	M	233	ALA	CA-C	-5.77	1.45	1.52
1	O	302	ASN	CA-CB	5.77	1.61	1.53
1	B	170	LEU	N-CA	5.77	1.53	1.46
1	C	212	VAL	C-O	5.77	1.30	1.24
1	D	433	ILE	C-N	-5.77	1.26	1.34
1	F	382	GLY	CA-C	5.77	1.60	1.51
1	H	365	ALA	C-N	-5.77	1.27	1.34
1	N	298	ALA	C-O	5.77	1.31	1.24
1	B	287	VAL	CA-C	-5.77	1.45	1.52
1	K	353	HIS	CB-CG	-5.77	1.42	1.50
1	L	217	GLU	N-CA	5.77	1.52	1.45
1	L	495	ALA	CA-CB	-5.77	1.43	1.53
1	O	398	GLU	C-N	5.77	1.40	1.34
1	O	434	LEU	C-O	5.77	1.31	1.24
1	H	19	ASP	C-N	5.77	1.41	1.33
1	H	21	GLN	CA-C	-5.77	1.45	1.52
1	M	46	LYS	N-CA	5.77	1.53	1.46
1	M	176	GLU	C-N	5.77	1.41	1.33
1	M	124	TYR	C-O	5.77	1.31	1.24
1	G	253	GLU	CA-C	-5.76	1.45	1.53
1	H	492	ASP	C-O	5.76	1.31	1.24
1	I	63	THR	CA-C	5.76	1.60	1.52
1	A	18	ARG	N-CA	-5.76	1.38	1.46
1	A	311	SER	N-CA	5.76	1.53	1.46
1	B	12	MET	N-CA	-5.76	1.38	1.46
1	C	460	ASP	N-CA	5.76	1.53	1.46
1	K	37	SER	C-N	5.76	1.41	1.33
1	L	230	ALA	C-O	-5.76	1.16	1.23
1	N	151	THR	CB-OG1	5.76	1.52	1.43
1	C	294	LYS	CA-C	5.76	1.60	1.52
1	L	11	ASN	C-O	-5.76	1.16	1.24
1	P	401	SER	C-O	5.76	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	286	ARG	NE-CZ	5.76	1.39	1.33
1	D	419	PRO	N-CA	5.76	1.54	1.47
1	H	279	GLU	CA-CB	-5.76	1.45	1.53
1	J	15	TYR	CA-C	5.76	1.59	1.52
1	N	262	LEU	CA-C	5.76	1.59	1.52
1	J	60	ASP	CA-C	5.76	1.59	1.52
1	J	318	ALA	C-N	5.76	1.42	1.33
1	O	118	THR	N-CA	-5.76	1.38	1.46
1	A	459	GLU	C-N	5.76	1.41	1.33
1	E	182	VAL	N-CA	-5.76	1.39	1.46
1	L	234	LEU	C-O	5.75	1.30	1.23
1	L	421	THR	CB-OG1	-5.75	1.34	1.43
1	A	221	ALA	CA-C	5.75	1.60	1.52
1	B	107	ALA	CA-C	-5.75	1.44	1.52
1	C	315	LEU	N-CA	-5.75	1.38	1.45
1	D	38	THR	C-N	5.75	1.41	1.33
1	H	233	ALA	CA-CB	-5.75	1.44	1.53
1	K	58	THR	C-O	5.75	1.30	1.23
1	M	341	LYS	N-CA	-5.75	1.38	1.46
1	O	456	GLY	CA-C	-5.75	1.43	1.51
1	D	375	ASP	CA-CB	5.75	1.62	1.53
1	F	193	ILE	CA-C	5.75	1.59	1.52
1	H	396	TYR	C-N	-5.75	1.26	1.33
1	I	44	MET	C-O	-5.75	1.17	1.23
1	M	212	VAL	C-O	-5.75	1.17	1.24
1	P	378	ILE	CA-CB	5.75	1.63	1.54
1	B	224	PRO	N-CA	-5.75	1.40	1.47
1	F	429	ASP	C-N	5.75	1.41	1.33
1	G	244	SER	N-CA	5.75	1.54	1.47
1	G	434	LEU	N-CA	5.75	1.53	1.46
1	I	460	ASP	CA-CB	5.75	1.60	1.52
1	P	442	ALA	CA-C	5.75	1.60	1.52
1	A	151	THR	N-CA	-5.75	1.39	1.46
1	I	388	GLU	N-CA	-5.75	1.39	1.46
1	E	323	GLU	CA-CB	5.75	1.59	1.52
1	L	169	LYS	C-O	5.75	1.31	1.24
1	L	183	ASP	N-CA	5.75	1.53	1.46
1	B	334	VAL	N-CA	5.74	1.53	1.46
1	B	351	THR	CA-CB	5.74	1.63	1.53
1	J	172	GLU	C-O	5.74	1.31	1.23
1	J	297	LYS	CA-CB	-5.74	1.44	1.53
1	P	15	TYR	CA-C	5.74	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	75	ALA	C-O	5.74	1.31	1.24
1	K	126	ALA	C-O	-5.74	1.16	1.24
1	K	313	GLN	C-N	-5.74	1.25	1.33
1	C	242	THR	C-O	5.74	1.30	1.24
1	K	396	TYR	C-O	5.74	1.31	1.24
1	O	164	GLU	N-CA	5.74	1.53	1.46
1	O	447	LYS	C-N	-5.74	1.26	1.33
1	F	399	GLY	C-N	5.74	1.40	1.33
1	I	292	MET	C-O	-5.74	1.17	1.24
1	I	327	SER	N-CA	-5.74	1.39	1.46
1	K	274	HIS	C-O	-5.74	1.16	1.24
1	M	111	LEU	CA-C	5.74	1.60	1.52
1	P	21	GLN	CA-CB	5.74	1.62	1.53
1	B	356	GLU	C-O	5.74	1.31	1.24
1	J	416	GLU	C-O	5.74	1.31	1.24
1	A	384	SER	C-O	5.74	1.31	1.24
1	A	448	CYS	CA-C	-5.74	1.47	1.53
1	H	228	THR	C-N	5.74	1.41	1.33
1	K	424	GLU	C-O	5.74	1.30	1.24
1	P	66	ARG	C-N	5.74	1.40	1.33
1	K	162	GLY	C-N	5.73	1.41	1.33
1	E	114	ASN	C-N	5.73	1.41	1.33
1	G	128	ALA	N-CA	-5.73	1.38	1.46
1	J	103	LEU	CA-C	5.73	1.60	1.52
1	J	487	LEU	C-N	-5.73	1.25	1.33
1	J	494	ILE	C-O	-5.73	1.16	1.23
1	K	409	ARG	N-CA	-5.73	1.39	1.46
1	L	73	PRO	CA-C	5.73	1.62	1.52
1	D	62	VAL	C-O	5.73	1.30	1.24
1	M	58	THR	CA-CB	5.73	1.63	1.53
1	O	36	ARG	NE-CZ	-5.73	1.26	1.33
1	A	166	ALA	CA-CB	5.73	1.63	1.53
1	H	204	ASP	C-N	-5.73	1.25	1.33
1	O	353	HIS	CE1-NE2	-5.73	1.26	1.32
1	A	360	ARG	CZ-NH1	-5.73	1.24	1.32
1	D	489	ARG	NE-CZ	-5.73	1.26	1.33
1	E	494	ILE	C-N	-5.73	1.26	1.33
1	G	44	MET	CA-C	-5.73	1.45	1.52
1	H	39	LEU	C-O	5.73	1.30	1.23
1	I	320	LEU	CA-C	5.73	1.60	1.52
1	K	434	LEU	C-N	-5.73	1.26	1.33
1	L	460	ASP	C-N	5.73	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	469	PRO	N-CA	5.73	1.54	1.47
1	M	36	ARG	N-CA	-5.73	1.39	1.46
1	F	109	GLU	N-CA	-5.72	1.39	1.46
1	K	248	LYS	CA-C	-5.72	1.44	1.52
1	M	469	PRO	CA-C	5.72	1.60	1.52
1	D	45	ASP	C-N	5.72	1.41	1.33
1	E	393	LEU	N-CA	-5.72	1.38	1.46
1	P	244	SER	CA-CB	-5.72	1.43	1.53
1	G	121	VAL	N-CA	-5.72	1.39	1.46
1	K	349	GLY	N-CA	5.72	1.54	1.45
1	P	38	THR	CA-C	5.72	1.60	1.52
1	A	229	ASP	CA-C	5.72	1.60	1.52
1	O	404	GLU	C-O	5.72	1.31	1.24
1	B	459	GLU	CA-C	5.72	1.59	1.52
1	D	397	ALA	C-N	-5.72	1.25	1.33
1	L	393	LEU	CA-C	-5.72	1.44	1.52
1	D	176	GLU	CA-C	5.71	1.60	1.52
1	D	474	THR	CB-OG1	-5.71	1.34	1.43
1	F	9	PRO	N-CD	5.71	1.55	1.47
1	F	486	MET	C-N	-5.71	1.25	1.33
1	L	414	ALA	CA-C	-5.71	1.45	1.52
1	N	248	LYS	C-N	-5.71	1.26	1.34
1	O	240	GLU	CA-CB	5.71	1.61	1.53
1	G	371	CYS	N-CA	5.71	1.53	1.46
1	H	29	ARG	N-CA	-5.71	1.39	1.46
1	J	126	ALA	C-O	5.71	1.31	1.24
1	D	308	LYS	N-CA	5.71	1.53	1.46
1	M	135	LEU	C-N	-5.71	1.26	1.34
1	H	176	GLU	CA-C	5.71	1.60	1.52
1	I	213	LEU	N-CA	5.71	1.54	1.46
1	D	38	THR	CA-CB	5.71	1.63	1.53
1	D	334	VAL	CA-C	5.71	1.59	1.52
1	I	412	ALA	CA-CB	-5.71	1.44	1.53
1	M	466	VAL	C-O	5.71	1.30	1.24
1	I	174	ILE	C-O	-5.70	1.17	1.24
1	I	284	ALA	C-O	5.70	1.30	1.24
1	M	360	ARG	CZ-NH1	5.70	1.40	1.32
1	M	414	ALA	C-O	5.70	1.31	1.24
1	N	418	ILE	C-O	-5.70	1.17	1.24
1	P	193	ILE	C-O	5.70	1.31	1.23
1	H	287	VAL	C-O	-5.70	1.17	1.24
1	M	249	ASP	C-N	5.70	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	120	VAL	N-CA	-5.70	1.39	1.46
1	A	174	ILE	C-O	5.70	1.31	1.24
1	A	320	LEU	CA-C	5.70	1.59	1.52
1	B	87	LYS	C-N	-5.70	1.25	1.33
1	C	478	GLN	CA-C	5.70	1.60	1.52
1	H	266	LYS	N-CA	-5.70	1.39	1.46
1	I	441	HIS	CG-CD2	5.70	1.42	1.35
1	L	333	PHE	CA-C	5.70	1.60	1.52
1	O	339	HIS	CA-CB	5.70	1.62	1.53
1	F	13	LYS	N-CA	-5.70	1.39	1.46
1	I	369	VAL	CA-CB	-5.70	1.47	1.54
1	L	123	GLY	N-CA	-5.70	1.37	1.45
1	L	471	ARG	NE-CZ	5.70	1.39	1.33
1	N	165	LYS	N-CA	5.70	1.53	1.46
1	D	474	THR	CA-C	5.70	1.60	1.52
1	K	470	LEU	C-O	-5.70	1.16	1.24
1	B	158	ILE	CA-CB	-5.70	1.46	1.54
1	C	218	ARG	C-O	5.70	1.30	1.23
1	C	222	GLN	C-O	5.70	1.31	1.24
1	H	14	ARG	CD-NE	-5.70	1.38	1.46
1	J	252	ALA	CA-CB	5.70	1.63	1.53
1	N	147	LYS	CA-C	-5.70	1.45	1.52
1	P	485	GLU	N-CA	-5.70	1.38	1.46
1	C	47	MET	C-O	5.69	1.31	1.23
1	H	83	LYS	C-N	-5.69	1.25	1.33
1	I	98	VAL	N-CA	5.69	1.53	1.46
1	J	245	GLU	C-N	5.69	1.41	1.33
1	L	218	ARG	CD-NE	5.69	1.54	1.46
1	A	72	HIS	CG-ND1	-5.69	1.31	1.38
1	A	287	VAL	CA-C	5.69	1.59	1.52
1	B	420	ARG	CD-NE	5.69	1.54	1.46
1	F	283	ALA	C-O	-5.69	1.16	1.23
1	G	136	LYS	CA-C	5.69	1.60	1.52
1	G	142	VAL	C-N	5.69	1.41	1.33
1	J	141	GLU	C-O	5.69	1.30	1.23
1	J	285	ARG	C-O	5.69	1.30	1.23
1	O	337	CYS	N-CA	-5.69	1.38	1.46
1	P	190	LYS	CA-C	5.69	1.60	1.52
1	P	404	GLU	CD-OE2	5.69	1.36	1.25
1	B	80	GLU	C-O	5.69	1.31	1.24
1	G	180	ALA	C-N	5.69	1.41	1.33
1	H	235	LEU	C-O	5.69	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	418	ILE	C-O	5.69	1.31	1.24
1	D	173	ILE	CA-CB	5.69	1.61	1.54
1	H	22	ARG	CA-C	5.69	1.59	1.52
1	H	274	HIS	C-O	-5.69	1.17	1.24
1	E	186	GLY	C-O	5.69	1.31	1.23
1	H	148	GLU	CD-OE1	5.69	1.36	1.25
1	J	270	ASP	N-CA	5.69	1.53	1.46
1	K	462	CYS	C-O	5.69	1.31	1.24
1	N	148	GLU	N-CA	5.69	1.53	1.46
1	O	377	ARG	N-CA	5.69	1.52	1.46
1	L	413	ASP	CA-CB	5.68	1.62	1.53
1	N	462	CYS	C-O	5.68	1.31	1.24
1	A	345	MET	N-CA	5.68	1.54	1.46
1	J	210	LYS	CA-C	-5.68	1.45	1.52
1	J	332	ILE	N-CA	5.68	1.53	1.46
1	N	469	PRO	C-N	-5.68	1.25	1.33
1	P	424	GLU	C-O	5.68	1.31	1.24
1	A	348	ARG	CD-NE	5.68	1.54	1.46
1	C	10	GLU	N-CA	-5.68	1.38	1.46
1	D	474	THR	N-CA	5.68	1.53	1.46
1	F	446	ASN	C-O	-5.68	1.16	1.24
1	I	279	GLU	C-O	5.68	1.30	1.24
1	I	492	ASP	C-O	5.68	1.31	1.24
1	D	453	VAL	CA-C	5.67	1.60	1.52
1	E	376	GLY	N-CA	-5.67	1.37	1.45
1	F	157	SER	N-CA	-5.67	1.39	1.46
1	F	449	ALA	N-CA	-5.67	1.38	1.46
1	N	448	CYS	N-CA	-5.67	1.38	1.46
1	O	418	ILE	C-O	-5.67	1.17	1.24
1	P	203	ILE	C-O	-5.67	1.17	1.24
1	A	40	GLY	N-CA	-5.67	1.36	1.44
1	C	149	ILE	C-O	5.67	1.31	1.24
1	B	69	SER	C-N	-5.67	1.25	1.33
1	E	193	ILE	C-O	-5.67	1.14	1.23
1	M	371	CYS	N-CA	-5.67	1.39	1.46
1	E	145	GLN	N-CA	-5.67	1.38	1.46
1	E	370	GLY	C-O	-5.67	1.17	1.23
1	E	408	VAL	C-O	5.67	1.30	1.24
1	G	426	ALA	N-CA	-5.67	1.39	1.46
1	H	156	THR	N-CA	-5.67	1.38	1.46
1	K	173	ILE	CA-CB	-5.67	1.47	1.54
1	K	389	LEU	C-O	-5.67	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	475	GLN	CA-C	-5.67	1.45	1.52
1	P	469	PRO	C-O	5.67	1.31	1.24
1	F	251	VAL	N-CA	5.67	1.53	1.46
1	H	46	LYS	C-O	-5.67	1.16	1.23
1	I	291	ASP	N-CA	5.67	1.53	1.46
1	M	455	THR	CA-CB	5.67	1.62	1.53
1	P	139	ALA	CA-CB	5.67	1.62	1.53
1	P	249	ASP	CA-CB	-5.67	1.43	1.53
1	A	80	GLU	C-O	-5.66	1.16	1.24
1	C	257	SER	C-O	5.66	1.30	1.24
1	C	322	GLU	CA-C	5.66	1.59	1.52
1	D	120	VAL	C-N	-5.66	1.26	1.33
1	G	222	GLN	C-O	5.66	1.31	1.24
1	J	396	TYR	C-N	5.66	1.41	1.33
1	P	41	PRO	N-CD	-5.66	1.39	1.47
1	G	218	ARG	C-N	5.66	1.41	1.33
1	I	172	GLU	CA-C	-5.66	1.45	1.52
1	I	348	ARG	N-CA	5.66	1.52	1.45
1	C	303	VAL	N-CA	-5.66	1.39	1.46
1	E	28	GLY	C-O	5.66	1.30	1.24
1	E	394	ARG	CD-NE	-5.66	1.38	1.46
1	O	60	ASP	CA-CB	-5.66	1.44	1.53
1	O	374	GLU	CA-CB	5.66	1.63	1.53
1	F	268	ILE	CA-C	5.66	1.59	1.52
1	H	77	MET	N-CA	-5.66	1.38	1.46
1	O	456	GLY	N-CA	-5.66	1.37	1.45
1	O	458	VAL	CA-C	5.66	1.59	1.52
1	M	35	VAL	CA-C	5.66	1.60	1.52
1	P	119	ILE	N-CA	-5.66	1.40	1.46
1	B	201	ALA	C-N	5.66	1.41	1.33
1	B	204	ASP	C-N	-5.66	1.25	1.33
1	B	284	ALA	CA-C	5.66	1.59	1.52
1	C	70	VAL	C-O	5.66	1.30	1.24
1	D	108	GLU	C-N	-5.66	1.26	1.33
1	F	53	GLY	N-CA	-5.66	1.37	1.45
1	D	347	ILE	CA-C	-5.65	1.46	1.52
1	D	43	GLY	N-CA	-5.65	1.39	1.45
1	K	44	MET	CA-C	5.65	1.59	1.52
1	O	291	ASP	CG-OD1	5.65	1.36	1.25
1	P	440	ALA	C-N	-5.65	1.25	1.33
1	P	489	ARG	CZ-NH2	5.65	1.40	1.33
1	A	456	GLY	C-O	5.65	1.31	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	374	GLU	CA-C	5.65	1.60	1.52
1	F	36	ARG	C-O	-5.65	1.16	1.23
1	L	91	ASP	CG-OD1	5.65	1.36	1.25
1	L	242	THR	CB-OG1	5.65	1.52	1.43
1	N	344	THR	CA-CB	-5.65	1.45	1.53
1	O	431	ILE	C-O	5.65	1.30	1.24
1	F	36	ARG	N-CA	-5.65	1.39	1.46
1	H	285	ARG	NE-CZ	-5.65	1.26	1.33
1	C	312	ALA	CA-CB	-5.64	1.45	1.53
1	D	40	GLY	C-O	5.64	1.31	1.24
1	G	46	LYS	CA-C	5.64	1.59	1.52
1	I	115	VAL	N-CA	5.64	1.53	1.46
1	I	158	ILE	C-O	5.64	1.30	1.24
1	N	98	VAL	C-N	-5.64	1.25	1.33
1	N	105	ARG	C-N	5.64	1.42	1.33
1	D	233	ALA	C-O	5.64	1.30	1.23
1	F	171	ALA	N-CA	-5.64	1.38	1.46
1	F	237	CYS	CA-C	5.64	1.60	1.53
1	I	62	VAL	C-N	5.64	1.41	1.34
1	N	207	GLU	CD-OE2	5.64	1.36	1.25
1	P	115	VAL	C-O	-5.64	1.17	1.23
1	D	244	SER	C-N	-5.64	1.25	1.33
1	I	169	LYS	CA-CB	-5.64	1.44	1.53
1	N	193	ILE	CA-CB	5.64	1.60	1.53
1	E	369	VAL	CA-C	5.64	1.59	1.52
1	O	30	ILE	CA-CB	5.64	1.62	1.54
1	I	324	ARG	N-CA	5.64	1.52	1.46
1	L	63	THR	C-N	-5.64	1.27	1.33
1	A	116	HIS	ND1-CE1	5.64	1.38	1.32
1	B	394	ARG	C-N	5.64	1.41	1.33
1	C	445	GLY	C-O	5.64	1.30	1.23
1	G	432	GLU	CA-C	-5.64	1.45	1.52
1	M	166	ALA	CA-C	-5.64	1.45	1.52
1	B	23	MET	C-N	5.63	1.42	1.33
1	C	13	LYS	C-O	5.63	1.31	1.24
1	D	355	ILE	C-N	5.63	1.41	1.33
1	F	156	THR	C-O	-5.63	1.17	1.24
1	I	104	LEU	N-CA	5.63	1.53	1.46
1	I	182	VAL	C-O	5.63	1.30	1.24
1	K	391	MET	C-O	-5.63	1.16	1.24
1	H	42	LYS	N-CA	5.63	1.52	1.46
1	B	90	GLY	CA-C	5.63	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	487	LEU	C-O	5.63	1.31	1.24
1	D	473	LYS	C-O	5.63	1.31	1.24
1	G	334	VAL	N-CA	-5.63	1.39	1.46
1	H	264	CYS	CA-C	5.63	1.59	1.52
1	I	7	VAL	N-CA	5.63	1.56	1.46
1	J	178	VAL	CA-C	5.63	1.60	1.52
1	K	13	LYS	N-CA	-5.63	1.39	1.46
1	L	385	THR	CA-C	5.63	1.60	1.52
1	N	451	LEU	C-O	-5.63	1.16	1.24
1	D	420	ARG	CA-C	5.63	1.59	1.52
1	E	105	ARG	CZ-NH2	5.63	1.40	1.33
1	F	331	MET	C-O	5.63	1.30	1.23
1	M	152	LYS	N-CA	5.63	1.53	1.46
1	I	154	ALA	C-N	-5.63	1.26	1.33
1	O	123	GLY	N-CA	-5.63	1.37	1.45
1	O	491	ASP	C-N	-5.63	1.25	1.33
1	A	295	LEU	CA-C	5.63	1.60	1.52
1	F	386	GLU	C-O	-5.63	1.17	1.24
1	G	119	ILE	C-N	-5.63	1.25	1.33
1	I	223	MET	CA-C	-5.63	1.45	1.52
1	O	367	GLY	N-CA	-5.63	1.39	1.45
1	A	202	SER	C-N	-5.62	1.28	1.34
1	M	426	ALA	C-N	5.62	1.40	1.33
1	O	203	ILE	CA-CB	-5.62	1.48	1.54
1	A	315	LEU	C-N	-5.62	1.27	1.33
1	G	273	GLN	N-CA	5.62	1.53	1.46
1	H	86	GLU	CD-OE1	-5.62	1.14	1.25
1	I	277	ALA	C-N	5.62	1.42	1.33
1	K	495	ALA	CA-C	5.62	1.59	1.52
1	A	335	GLU	C-O	5.62	1.30	1.23
1	B	244	SER	CA-C	-5.62	1.45	1.52
1	C	457	ALA	N-CA	5.62	1.53	1.46
1	F	463	GLU	N-CA	-5.62	1.39	1.46
1	M	64	ILE	C-N	5.62	1.42	1.33
1	C	175	VAL	N-CA	-5.62	1.38	1.46
1	C	250	MET	CA-C	-5.62	1.44	1.52
1	D	334	VAL	C-O	-5.62	1.17	1.24
1	K	34	THR	C-N	-5.62	1.25	1.33
1	N	164	GLU	C-N	-5.62	1.25	1.33
1	N	213	LEU	N-CA	5.62	1.54	1.46
1	N	409	ARG	C-O	5.62	1.30	1.24
1	E	320	LEU	N-CA	5.62	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	263	PHE	C-O	5.62	1.30	1.24
1	C	338	LYS	C-N	-5.62	1.26	1.33
1	E	176	GLU	CA-C	-5.62	1.45	1.52
1	F	56	VAL	CA-CB	-5.62	1.47	1.54
1	F	340	PRO	C-O	5.62	1.31	1.24
1	G	413	ASP	C-N	5.62	1.42	1.33
1	J	388	GLU	N-CA	5.62	1.53	1.46
1	L	372	THR	C-O	5.62	1.31	1.24
1	N	481	ALA	CA-C	5.62	1.60	1.52
1	B	64	ILE	CA-CB	5.61	1.62	1.54
1	I	495	ALA	N-CA	-5.61	1.39	1.46
1	L	455	THR	CB-OG1	5.61	1.52	1.43
1	J	337	CYS	N-CA	-5.61	1.39	1.46
1	A	143	GLY	CA-C	5.61	1.58	1.52
1	D	151	THR	C-O	5.61	1.31	1.24
1	F	414	ALA	C-O	-5.61	1.17	1.24
1	I	187	LYS	CD-CE	5.61	1.69	1.52
1	L	429	ASP	CG-OD1	5.61	1.36	1.25
1	B	484	THR	CA-C	5.61	1.60	1.52
1	J	94	THR	C-O	5.61	1.30	1.24
1	P	489	ARG	NE-CZ	-5.61	1.26	1.33
1	B	13	LYS	C-N	5.61	1.41	1.33
1	E	82	ALA	N-CA	-5.61	1.38	1.46
1	G	54	ASP	CG-OD1	5.61	1.36	1.25
1	J	96	ALA	CA-C	-5.61	1.45	1.52
1	J	236	ASN	CA-C	-5.61	1.44	1.52
1	B	434	LEU	C-N	-5.61	1.27	1.33
1	H	438	ARG	CZ-NH2	5.61	1.40	1.33
1	A	149	ILE	N-CA	-5.60	1.39	1.46
1	D	414	ALA	CA-CB	-5.60	1.44	1.53
1	I	39	LEU	CA-C	5.60	1.61	1.53
1	B	56	VAL	CA-C	5.60	1.60	1.52
1	C	88	GLU	C-N	-5.60	1.28	1.33
1	L	130	LYS	N-CA	5.60	1.53	1.46
1	M	183	ASP	C-N	5.60	1.41	1.33
1	M	368	VAL	C-O	5.60	1.30	1.24
1	M	377	ARG	CZ-NH1	5.60	1.40	1.32
1	N	405	GLN	CA-CB	5.60	1.62	1.53
1	P	223	MET	C-O	5.60	1.31	1.24
1	D	194	LYS	N-CA	5.60	1.53	1.45
1	D	324	ARG	C-N	5.60	1.40	1.33
1	F	285	ARG	C-O	5.60	1.30	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	46	LYS	C-O	-5.60	1.16	1.23
1	P	153	ILE	CA-C	-5.60	1.45	1.52
1	B	220	SER	CA-CB	5.60	1.61	1.53
1	H	461	MET	C-O	5.60	1.31	1.24
1	K	200	GLY	CA-C	5.60	1.59	1.51
1	P	437	VAL	CA-CB	5.60	1.61	1.54
1	I	369	VAL	C-O	5.60	1.30	1.24
1	O	112	ASP	CA-CB	5.60	1.62	1.53
1	A	104	LEU	C-N	5.59	1.41	1.33
1	A	367	GLY	C-O	5.59	1.30	1.23
1	B	262	LEU	C-N	5.59	1.41	1.33
1	H	21	GLN	CA-CB	5.59	1.62	1.53
1	P	356	GLU	CD-OE2	5.59	1.35	1.25
1	O	187	LYS	C-O	5.59	1.31	1.24
1	B	36	ARG	CZ-NH1	5.59	1.40	1.32
1	B	194	LYS	CA-C	5.59	1.60	1.53
1	B	281	ILE	CA-C	5.59	1.59	1.52
1	O	357	GLU	N-CA	-5.59	1.39	1.46
1	A	309	ASP	CA-C	5.59	1.59	1.52
1	C	174	ILE	C-N	5.59	1.40	1.33
1	C	345	MET	CA-C	5.59	1.59	1.52
1	D	176	GLU	CA-CB	-5.59	1.44	1.53
1	G	157	SER	C-N	5.59	1.41	1.33
1	L	193	ILE	C-N	5.59	1.40	1.33
1	O	108	GLU	C-N	5.59	1.41	1.33
1	D	239	ILE	N-CA	-5.59	1.39	1.46
1	F	377	ARG	N-CA	5.59	1.53	1.46
1	K	422	LEU	C-N	-5.59	1.26	1.33
1	N	379	VAL	C-O	-5.59	1.18	1.23
1	C	133	GLU	C-N	5.59	1.41	1.33
1	C	243	ALA	C-N	5.59	1.41	1.33
1	I	116	HIS	CG-CD2	5.59	1.42	1.35
1	J	300	GLY	C-N	-5.59	1.25	1.33
1	K	483	SER	N-CA	5.59	1.53	1.46
1	L	381	GLY	CA-C	-5.59	1.44	1.51
1	N	150	LEU	CA-C	-5.59	1.45	1.52
1	D	152	LYS	C-O	-5.58	1.17	1.24
1	B	312	ALA	CA-CB	5.58	1.62	1.53
1	B	325	LYS	C-O	5.58	1.31	1.24
1	D	220	SER	CA-C	5.58	1.59	1.52
1	I	166	ALA	C-N	-5.58	1.25	1.33
1	N	134	LEU	C-O	5.58	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	255	LYS	C-O	5.58	1.31	1.24
1	A	286	ARG	N-CA	-5.58	1.39	1.46
1	G	190	LYS	CA-C	-5.58	1.45	1.52
1	G	66	ARG	C-O	5.58	1.31	1.23
1	H	187	LYS	CA-C	5.58	1.59	1.52
1	N	464	ASN	C-O	-5.58	1.16	1.23
1	B	135	LEU	N-CA	-5.58	1.39	1.46
1	C	380	SER	N-CA	5.58	1.53	1.46
1	E	248	LYS	C-O	5.58	1.31	1.24
1	F	250	MET	N-CA	-5.58	1.39	1.46
1	G	438	ARG	CZ-NH2	5.58	1.40	1.33
1	H	81	VAL	C-O	-5.58	1.17	1.24
1	K	370	GLY	CA-C	5.58	1.58	1.52
1	L	441	HIS	CG-CD2	5.58	1.42	1.35
1	E	229	ASP	CA-CB	-5.58	1.44	1.53
1	M	41	PRO	CA-CB	5.58	1.61	1.53
1	O	213	LEU	C-O	-5.58	1.17	1.24
1	O	348	ARG	CZ-NH2	5.58	1.40	1.33
1	N	403	ARG	CA-CB	-5.58	1.44	1.53
1	O	489	ARG	CA-C	-5.58	1.45	1.52
1	P	55	VAL	CA-C	5.58	1.59	1.52
1	E	359	ALA	C-N	5.57	1.42	1.33
1	L	318	ALA	C-N	5.57	1.40	1.34
1	K	41	PRO	CA-C	5.57	1.59	1.52
1	K	251	VAL	N-CA	-5.57	1.38	1.46
1	A	217	GLU	CD-OE1	5.57	1.35	1.25
1	B	266	LYS	C-N	-5.57	1.25	1.33
1	E	238	ALA	N-CA	5.57	1.53	1.46
1	G	464	ASN	CA-CB	5.57	1.63	1.53
1	H	184	ASP	CG-OD2	-5.57	1.14	1.25
1	I	258	GLY	C-O	5.57	1.31	1.23
1	G	113	GLN	CA-CB	5.57	1.62	1.53
1	G	241	GLU	C-O	5.57	1.30	1.24
1	G	482	GLU	CA-CB	5.57	1.62	1.53
1	J	262	LEU	C-N	5.57	1.40	1.33
1	P	215	ASP	CA-CB	-5.57	1.44	1.53
1	H	239	ILE	C-N	5.57	1.41	1.33
1	J	111	LEU	CA-C	5.57	1.60	1.52
1	J	131	ALA	N-CA	-5.57	1.39	1.46
1	K	80	GLU	CA-C	5.56	1.60	1.52
1	L	485	GLU	CA-C	5.56	1.59	1.52
1	H	408	VAL	CA-C	-5.56	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	244	SER	N-CA	5.56	1.53	1.46
1	L	101	GLY	CA-C	-5.56	1.44	1.51
1	O	448	CYS	C-N	-5.56	1.25	1.33
1	G	426	ALA	C-O	-5.56	1.17	1.24
1	K	436	LYS	N-CA	-5.56	1.39	1.46
1	D	286	ARG	CZ-NH2	5.56	1.40	1.33
1	O	148	GLU	C-N	5.56	1.39	1.34
1	A	305	THR	C-N	5.56	1.40	1.33
1	D	320	LEU	N-CA	5.56	1.52	1.46
1	F	156	THR	C-N	-5.56	1.26	1.33
1	G	185	GLU	C-O	5.56	1.30	1.24
1	P	15	TYR	C-O	-5.56	1.17	1.24
1	B	274	HIS	C-O	5.56	1.30	1.24
1	E	353	HIS	N-CA	5.56	1.53	1.46
1	G	250	MET	C-N	5.56	1.41	1.33
1	H	428	LEU	CA-C	-5.56	1.46	1.52
1	E	247	LEU	CA-C	5.55	1.60	1.52
1	N	25	ILE	CA-C	-5.55	1.46	1.52
1	G	170	LEU	C-O	5.55	1.30	1.24
1	J	168	GLU	C-N	-5.55	1.25	1.33
1	C	465	GLY	CA-C	5.55	1.59	1.51
1	F	390	SER	C-O	-5.55	1.17	1.24
1	G	248	LYS	N-CA	-5.55	1.39	1.46
1	H	219	VAL	CA-C	5.55	1.59	1.52
1	J	60	ASP	CA-CB	-5.55	1.44	1.53
1	O	110	LEU	C-O	5.55	1.31	1.23
1	O	297	LYS	C-O	5.55	1.31	1.24
1	P	50	ASP	N-CA	-5.55	1.38	1.45
1	P	398	GLU	N-CA	-5.54	1.39	1.46
1	D	52	LEU	C-N	5.54	1.42	1.33
1	K	492	ASP	N-CA	5.54	1.52	1.46
1	B	473	LYS	C-N	-5.54	1.27	1.33
1	E	124	TYR	C-O	5.54	1.31	1.24
1	F	39	LEU	N-CA	-5.54	1.39	1.46
1	O	360	ARG	C-O	5.54	1.31	1.23
1	B	279	GLU	C-N	5.54	1.40	1.33
1	C	86	GLU	CA-C	5.54	1.59	1.52
1	C	317	ASP	CA-C	5.54	1.58	1.53
1	D	304	ILE	C-O	5.54	1.30	1.24
1	D	413	ASP	C-O	5.54	1.30	1.24
1	K	275	TYR	CA-C	5.54	1.59	1.52
1	L	88	GLU	CD-OE1	5.54	1.35	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	120	VAL	CA-CB	5.54	1.61	1.54
1	I	441	HIS	CA-C	-5.54	1.45	1.52
1	K	372	THR	CA-C	5.54	1.60	1.52
1	L	321	VAL	C-O	-5.54	1.17	1.24
1	M	72	HIS	CG-CD2	-5.54	1.29	1.35
1	M	466	VAL	CA-C	-5.54	1.45	1.52
1	A	110	LEU	CA-CB	5.53	1.62	1.53
1	A	368	VAL	CA-C	-5.53	1.44	1.52
1	D	270	ASP	C-N	-5.53	1.25	1.33
1	K	118	THR	C-O	5.53	1.31	1.24
1	N	58	THR	CA-C	-5.53	1.45	1.52
1	E	208	LEU	CB-CG	-5.53	1.42	1.53
1	J	233	ALA	CA-C	5.53	1.58	1.52
1	K	434	LEU	CA-C	5.53	1.60	1.52
1	A	138	ILE	C-O	5.53	1.30	1.24
1	E	272	ALA	C-O	5.53	1.30	1.24
1	L	166	ALA	C-N	-5.53	1.26	1.33
1	M	256	ALA	N-CA	-5.53	1.39	1.46
1	N	36	ARG	C-O	-5.53	1.17	1.24
1	O	378	ILE	CA-C	5.53	1.59	1.52
1	P	436	LYS	C-O	5.53	1.30	1.24
1	B	153	ILE	CA-C	5.53	1.59	1.52
1	B	266	LYS	CA-C	5.53	1.59	1.52
1	D	311	SER	CA-C	-5.53	1.46	1.52
1	P	301	ALA	C-O	5.53	1.30	1.23
1	C	38	THR	C-N	-5.53	1.25	1.33
1	C	294	LYS	N-CA	-5.53	1.39	1.46
1	D	144	ALA	N-CA	5.53	1.53	1.46
1	J	83	LYS	N-CA	-5.53	1.39	1.46
1	N	71	GLU	CA-C	-5.53	1.45	1.53
1	E	349	GLY	CA-C	5.52	1.57	1.51
1	G	458	VAL	C-O	-5.52	1.17	1.24
1	I	316	GLY	N-CA	5.52	1.49	1.44
1	A	75	ALA	N-CA	-5.52	1.38	1.46
1	A	321	VAL	C-N	5.52	1.41	1.33
1	B	443	SER	C-O	5.52	1.31	1.23
1	D	192	LEU	N-CA	5.52	1.53	1.46
1	H	222	GLN	CA-CB	-5.52	1.44	1.53
1	K	221	ALA	C-N	-5.52	1.25	1.33
1	M	268	ILE	C-O	5.52	1.29	1.24
1	P	141	GLU	C-N	5.52	1.41	1.33
1	A	479	SER	C-N	5.52	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	167	LYS	N-CA	-5.52	1.39	1.46
1	A	241	GLU	N-CA	5.52	1.52	1.46
1	H	64	ILE	CA-CB	5.52	1.61	1.54
1	I	379	VAL	N-CA	5.52	1.54	1.46
1	M	439	ALA	CA-CB	-5.52	1.44	1.53
1	O	375	ASP	CA-C	5.52	1.59	1.52
1	A	489	ARG	N-CA	-5.52	1.39	1.46
1	D	254	ILE	N-CA	5.52	1.53	1.46
1	F	404	GLU	C-N	5.52	1.41	1.33
1	H	350	THR	CB-OG1	5.52	1.52	1.43
1	K	433	ILE	CA-C	5.52	1.60	1.52
1	M	435	VAL	C-N	-5.52	1.26	1.33
1	A	323	GLU	CA-CB	5.52	1.59	1.52
1	K	251	VAL	CA-C	5.52	1.60	1.52
1	A	307	ILE	CA-C	5.51	1.59	1.52
1	M	106	LYS	C-N	-5.51	1.26	1.33
1	M	292	MET	C-N	5.51	1.41	1.33
1	B	402	GLY	N-CA	5.51	1.53	1.45
1	E	334	VAL	CA-C	5.51	1.59	1.52
1	H	465	GLY	N-CA	5.51	1.53	1.45
1	J	107	ALA	C-O	5.51	1.31	1.24
1	J	416	GLU	CD-OE1	-5.51	1.14	1.25
1	K	191	ASP	CA-C	-5.51	1.45	1.52
1	L	16	MET	CA-CB	5.51	1.61	1.53
1	A	114	ASN	CA-CB	-5.51	1.44	1.53
1	A	472	VAL	CA-CB	-5.51	1.47	1.54
1	G	473	LYS	N-CA	-5.51	1.39	1.46
1	L	331	MET	C-O	-5.51	1.17	1.23
1	N	72	HIS	CA-C	-5.51	1.45	1.52
1	N	99	VAL	C-O	5.51	1.30	1.24
1	I	261	VAL	CA-C	5.51	1.59	1.52
1	J	168	GLU	CD-OE1	5.51	1.35	1.25
1	K	353	HIS	CA-C	-5.51	1.46	1.52
1	K	411	PHE	C-O	5.51	1.31	1.24
1	K	131	ALA	N-CA	-5.51	1.39	1.46
1	O	58	THR	N-CA	-5.51	1.38	1.45
1	A	183	ASP	C-O	5.50	1.30	1.23
1	E	372	THR	CA-C	5.50	1.60	1.52
1	J	98	VAL	N-CA	-5.50	1.40	1.46
1	J	275	TYR	C-O	-5.50	1.17	1.24
1	K	420	ARG	CZ-NH2	5.50	1.40	1.33
1	N	117	PRO	C-N	5.50	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	459	GLU	CA-C	5.50	1.59	1.52
1	A	239	ILE	CA-CB	5.50	1.60	1.54
1	I	106	LYS	CA-CB	5.50	1.62	1.53
1	F	176	GLU	CA-CB	5.50	1.63	1.53
1	N	479	SER	CA-C	-5.50	1.45	1.52
1	C	203	ILE	CA-C	5.50	1.58	1.52
1	I	71	GLU	N-CA	5.50	1.52	1.46
1	I	462	CYS	C-N	5.50	1.41	1.33
1	M	246	MET	CA-CB	-5.50	1.44	1.53
1	C	213	LEU	C-O	-5.50	1.17	1.23
1	C	367	GLY	N-CA	5.50	1.53	1.45
1	G	441	HIS	CG-CD2	5.50	1.41	1.35
1	H	14	ARG	CZ-NH2	5.50	1.40	1.33
1	H	88	GLU	CA-C	-5.50	1.45	1.52
1	K	12	MET	CA-C	5.50	1.60	1.52
1	O	313	GLN	N-CA	-5.50	1.39	1.46
1	O	359	ALA	CA-CB	-5.50	1.45	1.53
1	P	101	GLY	N-CA	-5.50	1.37	1.45
1	P	175	VAL	CA-CB	5.50	1.62	1.54
1	A	72	HIS	C-N	5.50	1.41	1.33
1	L	155	MET	C-O	5.50	1.31	1.24
1	O	212	VAL	CA-C	5.50	1.59	1.52
1	B	471	ARG	CD-NE	-5.49	1.38	1.46
1	C	111	LEU	C-O	-5.49	1.17	1.24
1	G	49	VAL	CA-C	5.49	1.59	1.52
1	G	191	ASP	N-CA	-5.49	1.38	1.46
1	J	193	ILE	C-N	5.49	1.40	1.33
1	A	398	GLU	CA-C	5.49	1.60	1.52
1	D	413	ASP	N-CA	-5.49	1.39	1.46
1	G	445	GLY	C-O	5.49	1.31	1.23
1	J	387	VAL	N-CA	-5.49	1.38	1.46
1	M	456	GLY	C-N	-5.49	1.26	1.33
1	E	290	SER	CA-CB	5.49	1.61	1.53
1	F	27	ALA	CA-CB	5.49	1.62	1.53
1	K	14	ARG	CD-NE	5.49	1.53	1.46
1	K	195	ILE	CA-CB	5.49	1.61	1.54
1	L	458	VAL	CA-CB	5.49	1.61	1.54
1	A	371	CYS	C-N	-5.49	1.26	1.33
1	D	93	THR	N-CA	5.49	1.53	1.46
1	E	321	VAL	CA-C	5.49	1.59	1.52
1	E	474	THR	C-N	-5.49	1.26	1.33
1	F	492	ASP	C-O	-5.49	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	123	GLY	N-CA	-5.49	1.37	1.45
1	L	151	THR	CA-CB	5.49	1.62	1.53
1	A	299	THR	C-N	5.49	1.40	1.33
1	C	485	GLU	C-O	-5.49	1.17	1.24
1	O	314	ASP	C-N	-5.49	1.25	1.33
1	F	293	GLU	CA-CB	-5.49	1.44	1.53
1	G	72	HIS	CD2-NE2	5.49	1.43	1.37
1	J	56	VAL	N-CA	5.49	1.53	1.46
1	J	264	CYS	CA-C	5.49	1.59	1.52
1	J	448	CYS	N-CA	-5.49	1.38	1.46
1	L	51	ASP	CA-C	5.49	1.60	1.52
1	M	138	ILE	N-CA	-5.49	1.39	1.46
1	P	137	THR	CA-CB	5.49	1.62	1.53
1	P	310	LEU	N-CA	5.49	1.53	1.45
1	A	378	ILE	CA-C	5.48	1.59	1.52
1	E	119	ILE	C-O	5.48	1.30	1.24
1	J	166	ALA	CA-C	5.48	1.62	1.52
1	E	465	GLY	C-O	5.48	1.31	1.23
1	G	177	ALA	CA-C	-5.48	1.45	1.52
1	G	430	ALA	CA-CB	5.48	1.62	1.53
1	I	439	ALA	C-O	5.48	1.31	1.24
1	P	184	ASP	C-O	-5.48	1.17	1.24
1	A	267	GLY	C-O	-5.48	1.18	1.23
1	B	84	THR	CA-C	-5.48	1.45	1.52
1	D	489	ARG	N-CA	-5.48	1.40	1.46
1	G	354	VAL	C-N	5.48	1.40	1.33
1	I	306	ASN	CG-OD1	-5.48	1.13	1.23
1	I	357	GLU	N-CA	-5.48	1.39	1.46
1	L	100	ALA	N-CA	-5.48	1.39	1.46
1	P	378	ILE	C-N	-5.48	1.26	1.33
1	F	197	LYS	CA-C	5.48	1.59	1.52
1	A	113	GLN	C-O	5.48	1.30	1.24
1	B	286	ARG	CZ-NH1	5.48	1.40	1.32
1	D	84	THR	CA-CB	5.48	1.62	1.53
1	H	134	LEU	CA-C	-5.48	1.45	1.52
1	H	249	ASP	C-O	-5.48	1.17	1.24
1	J	405	GLN	CA-C	5.48	1.59	1.52
1	N	161	LYS	CA-CB	-5.48	1.45	1.53
1	F	38	THR	N-CA	5.48	1.53	1.46
1	G	75	ALA	N-CA	-5.48	1.39	1.46
1	H	272	ALA	C-N	5.48	1.41	1.33
1	O	334	VAL	CA-CB	5.48	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	469	PRO	N-CA	-5.48	1.40	1.47
1	P	68	MET	C-O	5.48	1.30	1.24
1	B	403	ARG	CA-CB	-5.47	1.44	1.53
1	E	176	GLU	C-O	5.47	1.30	1.24
1	G	405	GLN	C-O	5.47	1.30	1.24
1	H	13	LYS	C-O	5.47	1.30	1.24
1	I	458	VAL	CA-C	5.47	1.58	1.52
1	J	26	LEU	N-CA	5.47	1.53	1.46
1	M	478	GLN	C-O	-5.47	1.17	1.24
1	B	225	LYS	C-N	5.47	1.41	1.33
1	G	270	ASP	C-N	5.47	1.40	1.33
1	H	45	ASP	C-N	5.47	1.40	1.33
1	H	390	SER	C-O	5.47	1.30	1.24
1	K	277	ALA	C-N	5.47	1.41	1.33
1	L	438	ARG	NE-CZ	5.47	1.39	1.33
1	N	275	TYR	CA-C	5.47	1.59	1.52
1	A	390	SER	CA-CB	5.47	1.62	1.53
1	A	391	MET	C-O	-5.47	1.17	1.24
1	G	153	ILE	CA-C	5.47	1.60	1.52
1	L	69	SER	N-CA	-5.47	1.39	1.46
1	M	222	GLN	CA-C	5.47	1.60	1.52
1	A	327	SER	N-CA	5.47	1.53	1.46
1	L	139	ALA	C-N	5.47	1.43	1.33
1	J	215	ASP	CA-CB	-5.47	1.44	1.53
1	F	190	LYS	C-O	5.47	1.30	1.24
1	I	407	ALA	CA-CB	5.47	1.62	1.53
1	J	147	LYS	C-O	5.47	1.30	1.24
1	J	280	GLY	N-CA	-5.47	1.37	1.45
1	M	55	VAL	CA-CB	5.47	1.61	1.54
1	O	43	GLY	C-N	5.47	1.42	1.33
1	A	380	SER	CA-C	5.46	1.59	1.52
1	B	488	LEU	N-CA	5.46	1.53	1.46
1	G	331	MET	N-CA	-5.46	1.39	1.46
1	I	415	LEU	C-O	-5.46	1.17	1.24
1	K	31	ILE	CA-CB	-5.46	1.47	1.54
1	N	81	VAL	C-O	-5.46	1.18	1.24
1	M	306	ASN	CG-OD1	5.46	1.33	1.23
1	O	376	GLY	N-CA	-5.46	1.37	1.45
1	E	27	ALA	C-N	5.46	1.40	1.33
1	F	420	ARG	C-N	-5.46	1.26	1.34
1	J	203	ILE	CA-CB	5.46	1.62	1.54
1	A	101	GLY	C-O	5.46	1.31	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	429	ASP	C-N	5.46	1.41	1.33
1	L	250	MET	C-O	-5.46	1.17	1.24
1	N	116	HIS	ND1-CE1	-5.46	1.27	1.32
1	B	285	ARG	CZ-NH1	-5.46	1.25	1.32
1	C	431	ILE	CA-C	-5.46	1.44	1.52
1	G	354	VAL	CA-CB	5.46	1.61	1.54
1	I	444	ASN	CA-C	-5.46	1.45	1.52
1	J	303	VAL	N-CA	5.46	1.53	1.46
1	K	365	ALA	N-CA	-5.46	1.39	1.46
1	L	133	GLU	CA-CB	-5.46	1.44	1.53
1	M	298	ALA	C-O	5.46	1.30	1.24
1	O	203	ILE	C-O	5.46	1.31	1.24
1	B	110	LEU	C-N	-5.46	1.26	1.33
1	E	49	VAL	CA-C	5.46	1.59	1.52
1	K	275	TYR	N-CA	5.46	1.52	1.46
1	K	331	MET	C-O	-5.46	1.17	1.23
1	O	79	ILE	C-O	5.46	1.31	1.24
1	K	222	GLN	CA-CB	5.46	1.62	1.53
1	B	184	ASP	N-CA	-5.45	1.39	1.46
1	G	54	ASP	CA-CB	5.45	1.62	1.53
1	G	272	ALA	N-CA	-5.45	1.39	1.46
1	G	385	THR	C-O	-5.45	1.17	1.24
1	H	32	ALA	C-O	5.45	1.30	1.24
1	I	155	MET	C-O	-5.45	1.17	1.24
1	H	8	LEU	CA-C	5.45	1.59	1.52
1	P	426	ALA	C-O	5.45	1.30	1.24
1	E	459	GLU	C-O	5.45	1.30	1.23
1	E	468	GLU	C-O	-5.45	1.19	1.24
1	F	146	ASP	C-N	5.45	1.41	1.33
1	J	177	ALA	CA-C	5.45	1.60	1.52
1	L	18	ARG	CZ-NH1	5.45	1.40	1.32
1	M	386	GLU	CA-C	5.45	1.59	1.52
1	P	56	VAL	CA-CB	5.45	1.61	1.54
1	C	327	SER	C-N	-5.45	1.26	1.33
1	D	485	GLU	CA-CB	-5.45	1.44	1.53
1	F	265	GLN	CD-OE1	5.45	1.33	1.23
1	K	223	MET	CA-C	5.45	1.59	1.52
1	N	132	GLN	CA-CB	5.45	1.62	1.53
1	O	254	ILE	C-N	5.45	1.42	1.33
1	P	74	ALA	CA-C	-5.45	1.46	1.52
1	D	276	LEU	CA-CB	5.45	1.62	1.53
1	J	128	ALA	C-O	-5.45	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	226	LYS	CA-CB	5.45	1.62	1.53
1	A	456	GLY	N-CA	5.45	1.53	1.45
1	D	317	ASP	C-N	5.45	1.41	1.34
1	E	160	GLY	C-O	5.45	1.31	1.23
1	I	223	MET	C-O	5.45	1.31	1.24
1	K	236	ASN	CA-CB	-5.45	1.44	1.53
1	L	93	THR	C-O	5.45	1.30	1.24
1	L	274	HIS	CD2-NE2	5.45	1.43	1.37
1	P	224	PRO	N-CD	5.45	1.55	1.47
1	P	425	ASN	N-CA	-5.45	1.39	1.46
1	D	89	VAL	CA-C	5.44	1.59	1.52
1	E	227	VAL	N-CA	-5.44	1.39	1.46
1	K	89	VAL	CA-C	5.44	1.60	1.52
1	A	193	ILE	C-N	5.44	1.40	1.33
1	C	118	THR	CA-C	5.44	1.60	1.52
1	F	78	LEU	CA-C	5.44	1.59	1.52
1	H	164	GLU	CD-OE1	5.44	1.35	1.25
1	I	435	VAL	C-N	5.44	1.41	1.33
1	M	20	ALA	CA-C	5.44	1.59	1.52
1	M	66	ARG	CD-NE	-5.44	1.38	1.46
1	M	242	THR	CA-CB	5.44	1.60	1.53
1	M	497	GLU	C-O	5.44	1.34	1.23
1	O	57	VAL	N-CA	-5.44	1.40	1.46
1	B	251	VAL	N-CA	5.44	1.53	1.46
1	B	381	GLY	C-O	5.44	1.28	1.23
1	C	466	VAL	CA-C	5.44	1.59	1.52
1	E	193	ILE	CA-CB	-5.44	1.46	1.53
1	G	437	VAL	CA-CB	-5.44	1.47	1.54
1	I	285	ARG	CD-NE	-5.44	1.38	1.46
1	B	344	THR	CB-OG1	-5.44	1.35	1.43
1	E	155	MET	N-CA	5.44	1.53	1.46
1	F	11	ASN	C-O	5.44	1.30	1.24
1	H	332	ILE	CA-CB	5.44	1.60	1.54
1	L	37	SER	N-CA	-5.44	1.39	1.46
1	M	336	GLU	CD-OE1	5.44	1.35	1.25
1	C	140	CYS	CA-CB	-5.43	1.45	1.52
1	J	290	SER	CA-CB	5.43	1.61	1.53
1	K	16	MET	CA-C	-5.43	1.46	1.52
1	L	275	TYR	CA-CB	-5.43	1.45	1.53
1	A	437	VAL	CA-C	5.43	1.60	1.52
1	E	213	LEU	C-O	5.43	1.30	1.24
1	F	483	SER	N-CA	5.43	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	48	LEU	N-CA	-5.43	1.39	1.45
1	J	476	ALA	CA-C	5.43	1.60	1.52
1	L	61	GLY	C-O	5.43	1.31	1.23
1	M	158	ILE	N-CA	-5.43	1.39	1.46
1	N	489	ARG	CA-CB	-5.43	1.43	1.54
1	A	23	MET	CA-CB	5.43	1.61	1.53
1	K	31	ILE	C-N	-5.43	1.26	1.33
1	N	387	VAL	C-O	-5.43	1.17	1.24
1	A	470	LEU	C-N	5.43	1.41	1.33
1	B	351	THR	N-CA	-5.43	1.39	1.46
1	C	53	GLY	N-CA	5.43	1.53	1.45
1	H	106	LYS	N-CA	5.43	1.53	1.46
1	L	151	THR	C-N	-5.43	1.26	1.33
1	M	338	LYS	N-CA	-5.43	1.40	1.46
1	O	300	GLY	C-N	-5.43	1.26	1.33
1	P	209	ILE	CA-CB	-5.43	1.47	1.54
1	C	209	ILE	CA-CB	5.43	1.60	1.54
1	C	386	GLU	CA-CB	5.43	1.61	1.53
1	M	274	HIS	CG-CD2	-5.43	1.29	1.35
1	O	296	ALA	CA-CB	-5.43	1.44	1.53
1	A	86	GLU	N-CA	-5.43	1.39	1.46
1	I	46	LYS	C-N	-5.43	1.27	1.33
1	J	282	VAL	CA-C	5.43	1.58	1.52
1	E	89	VAL	C-O	-5.42	1.18	1.24
1	E	371	CYS	C-N	5.42	1.41	1.33
1	L	324	ARG	C-O	-5.42	1.17	1.24
1	C	341	LYS	CA-C	5.42	1.60	1.52
1	F	205	ASP	C-O	5.42	1.30	1.24
1	A	431	ILE	CA-C	-5.42	1.45	1.52
1	D	175	VAL	N-CA	-5.42	1.40	1.46
1	D	255	LYS	C-N	-5.42	1.25	1.33
1	E	475	GLN	C-O	5.42	1.30	1.23
1	F	44	MET	C-O	-5.42	1.17	1.23
1	F	315	LEU	C-N	-5.42	1.27	1.33
1	J	339	HIS	ND1-CE1	5.42	1.38	1.32
1	N	327	SER	N-CA	5.42	1.52	1.46
1	P	152	LYS	N-CA	5.42	1.52	1.46
1	B	485	GLU	N-CA	-5.42	1.38	1.46
1	F	27	ALA	C-N	-5.42	1.25	1.33
1	K	149	ILE	C-O	-5.42	1.16	1.24
1	L	256	ALA	N-CA	-5.42	1.39	1.46
1	I	462	CYS	C-O	5.42	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	87	LYS	CA-C	5.42	1.60	1.52
1	J	150	LEU	C-N	-5.42	1.25	1.33
1	J	306	ASN	C-O	-5.42	1.17	1.23
1	K	170	LEU	CA-CB	5.42	1.61	1.53
1	P	26	LEU	C-O	-5.42	1.17	1.24
1	C	23	MET	C-N	-5.42	1.25	1.33
1	H	444	ASN	N-CA	5.42	1.53	1.46
1	L	106	LYS	N-CA	-5.42	1.39	1.46
1	L	461	MET	C-N	5.42	1.41	1.33
1	M	442	ALA	C-O	5.42	1.31	1.24
1	N	284	ALA	CA-C	-5.42	1.46	1.52
1	N	477	ILE	C-O	5.42	1.30	1.24
1	O	167	LYS	C-O	-5.42	1.17	1.24
1	O	247	LEU	C-N	-5.42	1.26	1.33
1	H	305	THR	C-O	-5.42	1.17	1.24
1	H	397	ALA	C-O	5.42	1.30	1.24
1	L	237	CYS	C-N	-5.42	1.26	1.33
1	H	275	TYR	C-N	5.41	1.41	1.34
1	A	21	GLN	CD-OE1	5.41	1.33	1.23
1	A	296	ALA	CA-C	-5.41	1.45	1.52
1	J	102	GLU	N-CA	-5.41	1.39	1.46
1	L	484	THR	N-CA	-5.41	1.38	1.46
1	M	429	ASP	C-O	-5.41	1.17	1.24
1	O	282	VAL	CA-C	5.41	1.61	1.53
1	B	36	ARG	CD-NE	-5.41	1.38	1.46
1	F	482	GLU	N-CA	-5.41	1.39	1.46
1	G	447	LYS	N-CA	-5.41	1.38	1.45
1	H	43	GLY	N-CA	5.41	1.53	1.45
1	H	112	ASP	CA-C	-5.41	1.45	1.52
1	H	164	GLU	CA-CB	5.41	1.62	1.53
1	I	471	ARG	C-O	5.41	1.30	1.24
1	I	485	GLU	C-O	5.41	1.31	1.24
1	K	52	LEU	C-O	5.41	1.30	1.24
1	N	105	ARG	CD-NE	5.41	1.53	1.46
1	P	23	MET	N-CA	5.41	1.53	1.46
1	P	94	THR	N-CA	5.41	1.52	1.46
1	D	353	HIS	CE1-NE2	-5.41	1.27	1.32
1	F	221	ALA	C-N	-5.41	1.26	1.33
1	G	429	ASP	C-N	-5.41	1.26	1.33
1	H	131	ALA	N-CA	5.41	1.53	1.46
1	B	377	ARG	C-O	5.40	1.30	1.23
1	F	345	MET	C-O	-5.40	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	432	GLU	C-N	5.40	1.40	1.33
1	K	278	LYS	C-O	5.40	1.30	1.24
1	L	377	ARG	CA-CB	5.40	1.62	1.53
1	A	151	THR	CA-CB	-5.40	1.44	1.53
1	D	120	VAL	N-CA	5.40	1.53	1.46
1	G	386	GLU	C-N	5.40	1.40	1.34
1	I	42	LYS	CA-C	5.40	1.60	1.52
1	P	82	ALA	CA-C	-5.40	1.45	1.52
1	P	88	GLU	N-CA	-5.40	1.39	1.46
1	P	258	GLY	C-N	-5.40	1.25	1.33
1	A	137	THR	C-N	5.40	1.40	1.34
1	D	218	ARG	C-N	-5.40	1.26	1.33
1	F	93	THR	N-CA	-5.40	1.40	1.46
1	K	66	ARG	C-N	5.40	1.41	1.33
1	K	31	ILE	C-O	-5.40	1.17	1.24
1	K	378	ILE	CA-C	5.40	1.59	1.52
1	M	209	ILE	C-O	5.40	1.29	1.24
1	O	93	THR	CB-OG1	-5.40	1.35	1.43
1	O	137	THR	CB-OG1	-5.40	1.35	1.43
1	O	310	LEU	C-N	5.40	1.41	1.33
1	C	389	LEU	N-CA	5.40	1.52	1.46
1	E	20	ALA	C-N	5.40	1.41	1.33
1	E	270	ASP	CA-C	5.40	1.60	1.52
1	F	371	CYS	C-O	-5.40	1.17	1.24
1	J	251	VAL	CA-C	5.40	1.60	1.52
1	J	388	GLU	CA-C	-5.40	1.45	1.52
1	D	202	SER	C-O	5.40	1.30	1.24
1	C	311	SER	CA-C	5.39	1.59	1.52
1	F	101	GLY	C-N	-5.39	1.26	1.33
1	F	203	ILE	C-O	5.39	1.30	1.24
1	I	438	ARG	CZ-NH1	-5.39	1.25	1.32
1	L	211	GLY	C-N	5.39	1.40	1.33
1	M	370	GLY	C-O	5.39	1.30	1.23
1	A	142	VAL	N-CA	5.39	1.53	1.46
1	A	251	VAL	N-CA	5.39	1.54	1.46
1	G	39	LEU	CA-CB	-5.39	1.44	1.53
1	H	209	ILE	N-CA	5.39	1.53	1.46
1	J	62	VAL	CA-C	-5.39	1.46	1.52
1	K	86	GLU	C-N	5.39	1.41	1.34
1	P	274	HIS	N-CA	-5.39	1.39	1.46
1	E	207	GLU	C-O	5.39	1.30	1.23
1	M	404	GLU	C-N	-5.39	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	389	LEU	C-O	5.39	1.30	1.24
1	A	183	ASP	N-CA	-5.39	1.39	1.45
1	A	195	ILE	CA-C	5.39	1.59	1.52
1	B	269	ASP	CA-CB	5.39	1.62	1.53
1	D	18	ARG	C-O	5.39	1.31	1.24
1	F	97	VAL	C-N	5.39	1.40	1.33
1	J	253	GLU	C-N	-5.39	1.26	1.33
1	J	283	ALA	N-CA	5.39	1.52	1.46
1	J	397	ALA	CA-CB	-5.39	1.44	1.53
1	K	430	ALA	C-O	-5.39	1.17	1.24
1	O	340	PRO	N-CD	5.39	1.55	1.47
1	P	79	ILE	CA-CB	5.39	1.60	1.54
1	F	108	GLU	C-N	-5.39	1.26	1.34
1	G	234	LEU	N-CA	5.39	1.52	1.46
1	G	330	SER	CA-C	5.39	1.59	1.52
1	K	409	ARG	C-O	-5.39	1.17	1.23
1	L	292	MET	CA-CB	-5.39	1.44	1.53
1	J	148	GLU	CA-C	5.39	1.59	1.52
1	N	229	ASP	C-O	5.39	1.31	1.23
1	N	476	ALA	N-CA	-5.39	1.39	1.46
1	P	377	ARG	N-CA	-5.39	1.39	1.46
1	B	95	THR	C-O	5.38	1.31	1.24
1	C	31	ILE	CB-CG1	5.38	1.64	1.53
1	F	131	ALA	N-CA	5.38	1.52	1.46
1	I	25	ILE	C-O	5.38	1.30	1.24
1	I	449	ALA	C-N	-5.38	1.26	1.33
1	N	149	ILE	C-O	5.38	1.31	1.24
1	N	404	GLU	CA-C	5.38	1.60	1.52
1	O	167	LYS	N-CA	5.38	1.53	1.46
1	O	379	VAL	C-O	-5.38	1.17	1.23
1	P	174	ILE	C-O	-5.38	1.18	1.24
1	P	433	ILE	CA-C	5.38	1.60	1.52
1	C	282	VAL	CA-C	-5.38	1.46	1.52
1	D	246	MET	CA-C	-5.38	1.45	1.52
1	J	449	ALA	C-N	5.38	1.39	1.33
1	B	302	ASN	CA-C	5.38	1.59	1.52
1	F	43	GLY	C-N	-5.38	1.25	1.33
1	G	205	ASP	C-O	5.38	1.32	1.24
1	H	484	THR	N-CA	-5.38	1.40	1.46
1	J	51	ASP	C-O	5.38	1.30	1.24
1	K	370	GLY	C-O	5.38	1.30	1.23
1	K	487	LEU	CA-C	-5.38	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	89	VAL	C-N	5.38	1.41	1.33
1	N	336	GLU	CA-C	5.38	1.59	1.53
1	C	343	VAL	CA-C	5.38	1.59	1.52
1	O	246	MET	CA-CB	-5.38	1.44	1.53
1	B	219	VAL	N-CA	5.38	1.53	1.46
1	C	62	VAL	CA-C	-5.38	1.46	1.52
1	G	214	VAL	CA-C	5.38	1.59	1.52
1	G	391	MET	N-CA	5.38	1.53	1.46
1	D	295	LEU	CA-C	5.38	1.60	1.52
1	D	360	ARG	CA-C	5.38	1.59	1.52
1	F	462	CYS	C-O	5.38	1.30	1.24
1	J	75	ALA	N-CA	5.38	1.53	1.46
1	M	484	THR	N-CA	-5.38	1.39	1.46
1	O	337	CYS	C-N	-5.38	1.27	1.33
1	J	112	ASP	CA-C	-5.38	1.45	1.52
1	J	492	ASP	C-O	-5.38	1.17	1.23
1	M	72	HIS	CB-CG	5.38	1.57	1.50
1	P	30	ILE	CA-CB	-5.38	1.47	1.54
1	E	303	VAL	CA-C	-5.37	1.46	1.52
1	G	296	ALA	CA-CB	5.37	1.61	1.53
1	J	279	GLU	N-CA	-5.37	1.39	1.46
1	N	254	ILE	CB-CG1	-5.37	1.42	1.53
1	N	414	ALA	C-O	-5.37	1.17	1.24
1	O	196	GLU	N-CA	5.37	1.52	1.46
1	P	328	GLY	C-O	5.37	1.31	1.23
1	A	354	VAL	CA-C	5.37	1.59	1.52
1	E	140	CYS	C-O	5.37	1.30	1.23
1	E	166	ALA	C-N	-5.37	1.27	1.33
1	G	206	THR	C-N	-5.37	1.26	1.33
1	J	399	GLY	C-N	5.37	1.40	1.33
1	N	269	ASP	CA-CB	5.37	1.62	1.53
1	A	77	MET	N-CA	5.37	1.52	1.46
1	E	333	PHE	N-CA	5.37	1.52	1.45
1	J	72	HIS	C-O	5.37	1.31	1.24
1	P	151	THR	N-CA	5.37	1.53	1.46
1	F	130	LYS	N-CA	5.37	1.53	1.46
1	L	195	ILE	N-CA	-5.37	1.39	1.46
1	L	301	ALA	N-CA	5.37	1.52	1.45
1	N	326	ILE	N-CA	5.37	1.52	1.46
1	O	395	GLU	N-CA	-5.37	1.39	1.46
1	B	441	HIS	C-N	-5.37	1.26	1.33
1	H	129	GLN	C-O	5.37	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	249	ASP	C-N	-5.37	1.25	1.33
1	E	324	ARG	C-N	5.37	1.41	1.33
1	F	168	GLU	N-CA	5.37	1.53	1.46
1	F	239	ILE	N-CA	5.37	1.53	1.46
1	G	462	CYS	C-O	5.37	1.30	1.24
1	I	51	ASP	C-O	5.37	1.30	1.24
1	J	218	ARG	CZ-NH1	-5.37	1.25	1.32
1	L	340	PRO	C-N	-5.37	1.25	1.33
1	A	178	VAL	CA-CB	-5.36	1.47	1.54
1	C	121	VAL	CA-C	5.36	1.59	1.52
1	E	43	GLY	N-CA	-5.36	1.40	1.45
1	H	232	ILE	C-O	-5.36	1.17	1.24
1	I	135	LEU	CA-C	5.36	1.59	1.52
1	C	57	VAL	C-O	-5.36	1.18	1.24
1	G	9	PRO	N-CA	-5.36	1.40	1.47
1	G	315	LEU	C-N	-5.36	1.26	1.33
1	C	433	ILE	CA-C	-5.36	1.46	1.52
1	E	162	GLY	N-CA	-5.36	1.37	1.45
1	I	274	HIS	CA-CB	-5.36	1.45	1.53
1	K	93	THR	CA-CB	5.36	1.61	1.53
1	P	265	GLN	CA-CB	5.36	1.62	1.53
1	C	125	GLN	C-N	-5.36	1.26	1.33
1	D	311	SER	N-CA	5.36	1.53	1.46
1	I	240	GLU	C-N	5.36	1.40	1.33
1	B	349	GLY	CA-C	5.36	1.59	1.51
1	F	72	HIS	CG-CD2	5.36	1.41	1.35
1	F	327	SER	C-O	5.36	1.30	1.24
1	G	129	GLN	CA-C	-5.36	1.45	1.52
1	M	70	VAL	CA-C	-5.36	1.46	1.52
1	A	17	GLY	C-N	-5.36	1.26	1.33
1	F	109	GLU	C-O	5.36	1.30	1.24
1	I	228	THR	CB-OG1	5.36	1.52	1.43
1	I	488	LEU	N-CA	5.36	1.52	1.46
1	K	134	LEU	C-O	-5.36	1.17	1.24
1	O	338	LYS	C-O	5.36	1.29	1.23
1	P	34	THR	CA-C	5.35	1.59	1.52
1	P	174	ILE	N-CA	5.35	1.52	1.46
1	A	326	ILE	CA-C	5.35	1.59	1.52
1	D	139	ALA	CA-C	5.35	1.59	1.52
1	F	116	HIS	C-O	5.35	1.31	1.24
1	G	469	PRO	C-O	5.35	1.29	1.23
1	I	327	SER	C-N	-5.35	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	374	GLU	CA-C	5.35	1.60	1.52
1	O	431	ILE	CA-C	-5.35	1.46	1.52
1	P	381	GLY	C-N	-5.35	1.26	1.33
1	N	496	ALA	C-N	5.35	1.40	1.33
1	C	42	LYS	CA-C	5.35	1.59	1.52
1	C	345	MET	C-N	-5.35	1.26	1.33
1	E	279	GLU	N-CA	-5.35	1.38	1.45
1	F	7	VAL	N-CA	5.35	1.56	1.46
1	K	134	LEU	N-CA	-5.35	1.39	1.46
1	M	493	VAL	C-N	5.35	1.39	1.33
1	P	117	PRO	N-CD	5.35	1.55	1.47
1	P	268	ILE	C-N	-5.35	1.25	1.33
1	G	141	GLU	CD-OE2	-5.35	1.15	1.25
1	K	175	VAL	C-N	-5.35	1.26	1.33
1	P	246	MET	C-N	-5.35	1.26	1.34
1	F	240	GLU	C-N	5.35	1.41	1.33
1	O	377	ARG	NE-CZ	5.35	1.39	1.33
1	C	208	LEU	C-O	5.34	1.30	1.23
1	C	234	LEU	C-O	-5.34	1.17	1.24
1	D	351	THR	C-O	5.34	1.30	1.23
1	E	412	ALA	C-O	-5.34	1.18	1.24
1	F	433	ILE	C-O	-5.34	1.18	1.24
1	G	336	GLU	C-O	-5.34	1.17	1.24
1	H	321	VAL	CA-CB	5.34	1.61	1.54
1	K	189	ASP	C-N	5.34	1.41	1.33
1	K	453	VAL	C-N	-5.34	1.26	1.33
1	K	489	ARG	CZ-NH1	-5.34	1.25	1.32
1	P	274	HIS	CG-CD2	5.34	1.41	1.35
1	C	181	VAL	N-CA	-5.34	1.40	1.46
1	O	135	LEU	CA-CB	5.34	1.61	1.53
1	H	413	ASP	C-N	5.34	1.41	1.33
1	L	454	PHE	CA-CB	-5.34	1.45	1.53
1	A	126	ALA	N-CA	5.34	1.53	1.46
1	B	368	VAL	N-CA	-5.34	1.39	1.46
1	B	371	CYS	N-CA	-5.34	1.39	1.46
1	E	295	LEU	CA-C	5.34	1.60	1.52
1	G	108	GLU	C-O	5.34	1.30	1.24
1	J	348	ARG	CD-NE	5.34	1.53	1.46
1	J	485	GLU	C-N	-5.34	1.26	1.33
1	N	137	THR	CB-OG1	-5.34	1.35	1.43
1	P	204	ASP	CA-C	-5.34	1.45	1.52
1	L	294	LYS	CA-C	-5.34	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	226	LYS	C-O	5.34	1.30	1.24
1	C	191	ASP	C-N	5.34	1.41	1.33
1	D	279	GLU	N-CA	5.34	1.53	1.46
1	D	471	ARG	CD-NE	-5.34	1.38	1.46
1	E	174	ILE	N-CA	5.34	1.52	1.46
1	F	66	ARG	N-CA	-5.34	1.40	1.46
1	K	323	GLU	CA-CB	5.34	1.59	1.52
1	M	132	GLN	CA-CB	5.34	1.62	1.53
1	N	112	ASP	CA-CB	5.34	1.60	1.53
1	O	358	VAL	C-O	5.34	1.30	1.24
1	H	50	ASP	C-N	5.33	1.41	1.33
1	I	116	HIS	CA-C	5.33	1.59	1.52
1	L	110	LEU	C-O	-5.33	1.17	1.24
1	M	135	LEU	CA-CB	-5.33	1.44	1.53
1	O	494	ILE	C-O	-5.33	1.17	1.24
1	P	222	GLN	CA-C	5.33	1.59	1.52
1	J	222	GLN	C-O	5.33	1.30	1.24
1	M	489	ARG	CA-CB	-5.33	1.46	1.54
1	P	397	ALA	C-N	5.33	1.41	1.33
1	D	21	GLN	C-O	-5.33	1.18	1.24
1	D	241	GLU	CD-OE2	5.33	1.35	1.25
1	F	135	LEU	C-O	5.33	1.30	1.24
1	F	357	GLU	C-O	5.33	1.30	1.24
1	I	195	ILE	CA-CB	5.33	1.61	1.54
1	J	142	VAL	C-O	-5.33	1.16	1.23
1	K	466	VAL	CA-C	-5.33	1.46	1.52
1	L	459	GLU	CD-OE1	-5.33	1.15	1.25
1	O	184	ASP	CA-CB	5.33	1.61	1.53
1	D	326	ILE	C-N	5.33	1.40	1.33
1	K	138	ILE	C-O	5.33	1.31	1.24
1	L	345	MET	C-O	-5.33	1.17	1.23
1	O	234	LEU	C-N	-5.33	1.26	1.33
1	C	401	SER	CA-C	5.33	1.59	1.52
1	F	18	ARG	N-CA	-5.33	1.40	1.46
1	F	242	THR	N-CA	-5.33	1.39	1.46
1	H	129	GLN	CD-NE2	5.33	1.44	1.33
1	N	493	VAL	N-CA	5.33	1.53	1.46
1	O	356	GLU	CA-CB	-5.33	1.44	1.53
1	B	29	ARG	CA-C	-5.33	1.45	1.52
1	H	416	GLU	N-CA	5.33	1.53	1.46
1	M	14	ARG	CD-NE	5.33	1.53	1.46
1	D	347	ILE	CA-CB	-5.33	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	462	CYS	N-CA	-5.33	1.39	1.46
1	L	142	VAL	C-O	5.33	1.30	1.24
1	M	23	MET	N-CA	5.33	1.53	1.46
1	P	149	ILE	CA-CB	5.33	1.62	1.54
1	A	301	ALA	N-CA	-5.32	1.39	1.46
1	C	161	LYS	CA-C	-5.32	1.48	1.53
1	D	20	ALA	CA-C	-5.32	1.46	1.52
1	D	133	GLU	CA-CB	5.32	1.61	1.53
1	I	363	ASP	C-O	5.32	1.30	1.24
1	L	185	GLU	C-O	-5.32	1.17	1.24
1	P	228	THR	CA-C	5.32	1.59	1.52
1	F	455	THR	N-CA	-5.32	1.39	1.46
1	M	115	VAL	CA-C	-5.32	1.46	1.52
1	E	307	ILE	CA-C	-5.32	1.46	1.52
1	G	15	TYR	CA-C	5.32	1.58	1.52
1	L	495	ALA	N-CA	-5.32	1.39	1.46
1	N	213	LEU	CA-C	5.32	1.59	1.53
1	A	114	ASN	CG-OD1	5.32	1.33	1.23
1	D	232	ILE	C-N	5.32	1.40	1.33
1	L	159	THR	N-CA	5.32	1.52	1.45
1	P	478	GLN	CA-C	-5.32	1.47	1.53
1	B	12	MET	CA-C	-5.32	1.45	1.52
1	D	72	HIS	CA-CB	5.32	1.61	1.53
1	I	156	THR	CA-CB	5.32	1.62	1.53
1	N	481	ALA	C-N	5.32	1.41	1.33
1	A	116	HIS	C-O	-5.31	1.17	1.24
1	A	313	GLN	CA-C	5.31	1.57	1.52
1	B	27	ALA	CA-C	-5.31	1.44	1.52
1	C	463	GLU	C-N	-5.31	1.26	1.33
1	E	481	ALA	N-CA	5.31	1.52	1.46
1	N	105	ARG	CZ-NH1	5.31	1.40	1.32
1	A	171	ALA	CA-C	5.31	1.59	1.52
1	C	347	ILE	N-CA	-5.31	1.39	1.46
1	D	209	ILE	C-O	5.31	1.30	1.24
1	H	125	GLN	C-N	5.31	1.41	1.33
1	I	302	ASN	C-O	5.31	1.29	1.24
1	I	403	ARG	C-O	-5.31	1.17	1.24
1	H	284	ALA	CA-C	5.31	1.58	1.52
1	J	248	LYS	C-O	5.31	1.30	1.24
1	J	324	ARG	CZ-NH2	5.31	1.40	1.33
1	J	459	GLU	C-O	-5.31	1.17	1.24
1	C	158	ILE	CA-CB	5.31	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	212	VAL	CA-CB	-5.31	1.47	1.54
1	C	491	ASP	CA-CB	5.31	1.65	1.53
1	F	367	GLY	N-CA	5.31	1.53	1.45
1	H	241	GLU	CA-CB	5.31	1.63	1.53
1	L	262	LEU	C-N	5.31	1.40	1.33
1	M	490	ILE	N-CA	5.31	1.52	1.46
1	A	19	ASP	CG-OD2	5.31	1.35	1.25
1	A	404	GLU	N-CA	-5.31	1.39	1.46
1	D	188	VAL	C-N	5.31	1.41	1.33
1	F	137	THR	N-CA	5.31	1.52	1.46
1	F	163	ALA	C-N	5.31	1.41	1.33
1	F	320	LEU	C-O	5.31	1.30	1.23
1	G	144	ALA	C-O	5.31	1.30	1.24
1	H	264	CYS	C-O	-5.31	1.17	1.24
1	H	481	ALA	CA-C	5.31	1.59	1.52
1	I	20	ALA	C-N	-5.31	1.26	1.33
1	J	229	ASP	N-CA	5.31	1.53	1.46
1	P	453	VAL	C-N	5.31	1.40	1.33
1	F	200	GLY	C-O	5.31	1.31	1.23
1	I	315	LEU	CA-C	-5.31	1.45	1.52
1	K	255	LYS	C-O	5.31	1.30	1.24
1	P	84	THR	CA-C	5.31	1.59	1.52
1	E	359	ALA	CA-C	5.30	1.60	1.52
1	J	345	MET	CA-CB	5.30	1.60	1.53
1	L	464	ASN	N-CA	5.30	1.52	1.46
1	M	484	THR	C-N	5.30	1.41	1.33
1	N	177	ALA	CA-CB	-5.30	1.45	1.53
1	P	170	LEU	N-CA	5.30	1.53	1.46
1	C	228	THR	N-CA	5.30	1.53	1.46
1	D	46	LYS	N-CA	-5.30	1.39	1.46
1	G	457	ALA	C-O	5.30	1.29	1.24
1	H	359	ALA	N-CA	-5.30	1.39	1.46
1	I	469	PRO	CA-CB	-5.30	1.45	1.53
1	G	228	THR	C-N	5.30	1.42	1.33
1	M	447	LYS	CA-C	5.30	1.59	1.52
1	D	154	ALA	C-N	5.30	1.41	1.33
1	F	73	PRO	C-N	-5.30	1.26	1.33
1	F	152	LYS	C-N	5.30	1.39	1.34
1	G	326	ILE	CA-C	-5.30	1.46	1.52
1	I	227	VAL	C-N	-5.30	1.26	1.33
1	I	437	VAL	N-CA	5.30	1.52	1.46
1	M	253	GLU	C-N	5.30	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	66	ARG	CZ-NH1	5.30	1.40	1.32
1	O	71	GLU	CD-OE1	5.30	1.35	1.25
1	O	401	SER	N-CA	5.30	1.53	1.46
1	O	478	GLN	N-CA	-5.30	1.39	1.46
1	D	245	GLU	C-O	-5.30	1.17	1.24
1	J	90	GLY	CA-C	5.30	1.59	1.51
1	B	390	SER	CA-C	-5.30	1.46	1.52
1	I	401	SER	N-CA	5.30	1.53	1.46
1	M	388	GLU	CA-C	-5.30	1.46	1.52
1	E	104	LEU	C-O	5.29	1.30	1.23
1	G	270	ASP	C-O	-5.29	1.17	1.24
1	J	87	LYS	N-CA	-5.29	1.39	1.46
1	L	113	GLN	CD-OE1	5.29	1.33	1.23
1	M	182	VAL	N-CA	-5.29	1.39	1.46
1	M	464	ASN	N-CA	-5.29	1.39	1.46
1	B	449	ALA	C-O	5.29	1.30	1.24
1	D	64	ILE	C-N	5.29	1.41	1.33
1	M	414	ALA	N-CA	5.29	1.53	1.46
1	N	225	LYS	C-O	5.29	1.30	1.23
1	B	341	LYS	C-O	5.29	1.31	1.24
1	D	218	ARG	CZ-NH2	-5.29	1.26	1.33
1	E	307	ILE	C-N	5.29	1.41	1.33
1	E	348	ARG	CZ-NH2	5.29	1.40	1.33
1	H	189	ASP	CA-C	5.29	1.59	1.52
1	N	478	GLN	C-N	5.29	1.41	1.33
1	B	60	ASP	CA-C	5.29	1.59	1.52
1	F	353	HIS	CB-CG	-5.29	1.42	1.50
1	A	73	PRO	N-CA	5.29	1.54	1.47
1	B	91	ASP	CA-CB	5.29	1.61	1.53
1	C	68	MET	C-N	5.29	1.41	1.33
1	D	226	LYS	C-O	5.29	1.30	1.24
1	E	46	LYS	N-CA	-5.29	1.39	1.46
1	F	36	ARG	CZ-NH2	5.29	1.40	1.33
1	G	20	ALA	C-O	5.29	1.30	1.24
1	G	250	MET	CA-CB	-5.29	1.45	1.53
1	H	427	GLY	N-CA	-5.29	1.37	1.45
1	I	446	ASN	C-O	-5.29	1.17	1.24
1	J	453	VAL	C-O	-5.29	1.17	1.24
1	M	488	LEU	C-N	5.29	1.41	1.33
1	P	168	GLU	CA-C	5.29	1.59	1.52
1	E	388	GLU	C-N	5.29	1.41	1.33
1	O	336	GLU	CD-OE2	5.29	1.35	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	405	GLN	C-O	5.29	1.30	1.24
1	A	158	ILE	C-N	-5.29	1.26	1.33
1	B	113	GLN	C-N	-5.29	1.26	1.33
1	B	205	ASP	CG-OD1	-5.29	1.15	1.25
1	I	293	GLU	N-CA	-5.29	1.39	1.46
1	J	380	SER	C-O	5.29	1.30	1.24
1	O	181	VAL	CA-CB	-5.29	1.47	1.54
1	F	352	GLU	N-CA	5.28	1.53	1.46
1	I	356	GLU	C-O	5.28	1.30	1.24
1	K	15	TYR	N-CA	-5.28	1.40	1.46
1	K	105	ARG	NE-CZ	5.28	1.38	1.33
1	L	68	MET	N-CA	-5.28	1.40	1.46
1	L	435	VAL	C-O	5.28	1.31	1.24
1	M	472	VAL	CA-C	-5.28	1.46	1.52
1	M	489	ARG	N-CA	-5.28	1.39	1.45
1	N	211	GLY	C-N	-5.28	1.27	1.33
1	H	251	VAL	CA-CB	5.28	1.60	1.54
1	H	412	ALA	N-CA	-5.28	1.39	1.46
1	N	473	LYS	C-O	5.28	1.30	1.24
1	C	352	GLU	C-O	5.28	1.30	1.24
1	F	418	ILE	C-O	-5.28	1.17	1.24
1	G	285	ARG	CA-CB	-5.28	1.44	1.53
1	L	286	ARG	CD-NE	-5.28	1.38	1.46
1	P	46	LYS	C-O	5.28	1.30	1.23
1	P	270	ASP	C-O	5.28	1.30	1.24
1	B	393	LEU	C-O	5.28	1.30	1.24
1	I	78	LEU	C-O	-5.28	1.17	1.23
1	F	253	GLU	CD-OE2	5.28	1.35	1.25
1	K	203	ILE	CB-CG1	5.28	1.64	1.53
1	M	452	ASN	C-N	-5.28	1.26	1.33
1	N	83	LYS	CA-CB	5.28	1.61	1.53
1	N	187	LYS	C-O	5.28	1.30	1.24
1	A	428	LEU	N-CA	-5.28	1.39	1.46
1	D	22	ARG	CA-C	-5.28	1.45	1.52
1	F	468	GLU	CA-C	5.28	1.60	1.52
1	G	412	ALA	CA-CB	-5.28	1.45	1.53
1	K	73	PRO	C-O	5.28	1.31	1.24
1	L	120	VAL	N-CA	-5.28	1.39	1.46
1	L	461	MET	CA-C	-5.28	1.45	1.52
1	M	78	LEU	N-CA	-5.28	1.39	1.45
1	M	237	CYS	CA-CB	-5.28	1.43	1.54
1	N	166	ALA	CA-CB	-5.28	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	193	ILE	CA-C	5.27	1.57	1.53
1	G	241	GLU	CA-C	-5.27	1.45	1.52
1	C	106	LYS	C-O	5.27	1.30	1.24
1	G	97	VAL	C-N	5.27	1.40	1.33
1	L	193	ILE	N-CA	5.27	1.53	1.46
1	O	211	GLY	C-O	-5.27	1.16	1.23
1	P	464	ASN	C-O	-5.27	1.17	1.24
1	K	31	ILE	N-CA	-5.27	1.39	1.46
1	A	237	CYS	CA-CB	-5.27	1.44	1.53
1	B	409	ARG	CZ-NH2	-5.27	1.26	1.33
1	C	464	ASN	N-CA	5.27	1.52	1.45
1	C	468	GLU	CA-C	-5.27	1.45	1.53
1	F	103	LEU	C-O	-5.27	1.17	1.24
1	K	378	ILE	N-CA	5.27	1.51	1.46
1	M	185	GLU	CD-OE2	5.27	1.35	1.25
1	O	354	VAL	CA-C	5.27	1.59	1.52
1	B	355	ILE	C-N	5.27	1.41	1.33
1	G	327	SER	CA-C	5.27	1.59	1.52
1	I	240	GLU	N-CA	-5.27	1.40	1.46
1	L	47	MET	N-CA	-5.27	1.39	1.46
1	A	405	GLN	C-O	-5.26	1.18	1.24
1	C	194	LYS	CA-C	5.26	1.59	1.52
1	D	112	ASP	C-O	5.26	1.31	1.24
1	E	154	ALA	C-O	-5.26	1.17	1.24
1	H	141	GLU	CA-CB	5.26	1.62	1.53
1	H	296	ALA	C-N	5.26	1.41	1.33
1	M	159	THR	C-O	5.26	1.30	1.23
1	M	468	GLU	C-O	5.26	1.29	1.24
1	P	45	ASP	C-N	5.26	1.41	1.33
1	B	104	LEU	C-N	5.26	1.41	1.34
1	G	73	PRO	C-O	-5.26	1.17	1.24
1	P	495	ALA	CA-C	5.26	1.59	1.52
1	B	339	HIS	CE1-NE2	-5.26	1.27	1.32
1	C	265	GLN	C-O	5.26	1.30	1.24
1	C	349	GLY	CA-C	5.26	1.59	1.51
1	E	354	VAL	N-CA	-5.26	1.38	1.46
1	F	76	LYS	CA-C	-5.26	1.45	1.52
1	F	342	ALA	C-O	-5.26	1.17	1.24
1	M	470	LEU	CA-C	5.26	1.59	1.52
1	N	291	ASP	C-O	5.26	1.30	1.24
1	O	489	ARG	NE-CZ	5.26	1.38	1.33
1	I	76	LYS	CA-C	5.26	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	417	VAL	C-O	-5.26	1.17	1.24
1	O	8	LEU	CA-C	5.26	1.60	1.52
1	C	402	GLY	C-N	-5.26	1.26	1.33
1	P	238	ALA	CA-CB	5.26	1.62	1.53
1	B	442	ALA	C-O	5.26	1.30	1.24
1	C	154	ALA	C-N	-5.26	1.27	1.33
1	H	31	ILE	CB-CG1	5.26	1.64	1.53
1	J	218	ARG	C-O	5.26	1.30	1.24
1	J	259	ALA	CA-C	5.26	1.59	1.52
1	L	91	ASP	CA-CB	-5.26	1.44	1.53
1	M	461	MET	CA-C	-5.26	1.46	1.52
1	O	179	SER	C-O	-5.26	1.16	1.24
1	P	376	GLY	C-O	5.26	1.29	1.24
1	A	478	GLN	CA-C	5.25	1.59	1.52
1	E	63	THR	C-O	5.25	1.30	1.24
1	H	454	PHE	C-N	5.25	1.41	1.33
1	K	66	ARG	NE-CZ	-5.25	1.27	1.33
1	M	482	GLU	CA-CB	5.25	1.62	1.53
1	C	314	ASP	CA-CB	-5.25	1.44	1.53
1	D	117	PRO	N-CA	5.25	1.54	1.47
1	D	263	PHE	CA-CB	5.25	1.61	1.53
1	K	172	GLU	CA-CB	-5.25	1.45	1.53
1	N	14	ARG	NE-CZ	-5.25	1.27	1.33
1	N	425	ASN	C-N	5.25	1.41	1.33
1	O	230	ALA	CA-CB	5.25	1.61	1.53
1	P	222	GLN	N-CA	5.25	1.53	1.46
1	P	306	ASN	CA-CB	5.25	1.60	1.53
1	E	48	LEU	C-O	-5.25	1.16	1.23
1	L	496	ALA	CA-C	-5.25	1.46	1.52
1	A	396	TYR	CA-CB	5.25	1.62	1.53
1	D	337	CYS	N-CA	5.25	1.52	1.46
1	L	446	ASN	CG-OD1	5.25	1.33	1.23
1	M	36	ARG	CA-CB	-5.25	1.45	1.53
1	N	31	ILE	CA-CB	-5.25	1.47	1.54
1	A	324	ARG	CA-C	5.25	1.59	1.52
1	E	386	GLU	C-O	-5.25	1.17	1.24
1	G	78	LEU	CA-CB	-5.25	1.46	1.54
1	H	72	HIS	CD2-NE2	5.25	1.43	1.37
1	L	156	THR	C-N	5.25	1.41	1.33
1	M	201	ALA	CA-C	5.25	1.59	1.52
1	M	392	LYS	C-N	5.25	1.41	1.33
1	M	411	PHE	C-O	-5.25	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	447	LYS	N-CA	-5.25	1.39	1.46
1	N	202	SER	CA-CB	5.25	1.61	1.53
1	P	415	LEU	N-CA	-5.25	1.39	1.46
1	H	339	HIS	CE1-NE2	-5.25	1.27	1.32
1	C	80	GLU	C-N	-5.24	1.27	1.33
1	C	469	PRO	N-CA	5.24	1.54	1.47
1	F	380	SER	CA-CB	5.24	1.62	1.53
1	H	328	GLY	C-O	5.24	1.30	1.23
1	I	456	GLY	CA-C	5.24	1.59	1.51
1	P	80	GLU	N-CA	-5.24	1.39	1.46
1	E	39	LEU	C-N	5.24	1.41	1.33
1	H	208	LEU	C-N	5.24	1.38	1.33
1	B	159	THR	CB-OG1	-5.24	1.35	1.43
1	B	394	ARG	N-CA	-5.24	1.39	1.46
1	E	87	LYS	N-CA	-5.24	1.39	1.46
1	G	334	VAL	C-O	5.24	1.30	1.24
1	I	112	ASP	C-N	5.24	1.41	1.33
1	K	278	LYS	N-CA	5.24	1.53	1.46
1	P	269	ASP	C-N	-5.24	1.26	1.33
1	A	117	PRO	CA-C	5.24	1.59	1.52
1	D	138	ILE	C-O	-5.24	1.18	1.24
1	J	63	THR	C-O	5.24	1.30	1.24
1	K	24	ASN	CA-C	-5.24	1.46	1.52
1	M	187	LYS	C-N	5.24	1.40	1.33
1	B	207	GLU	C-N	-5.24	1.24	1.33
1	B	72	HIS	CD2-NE2	5.24	1.43	1.37
1	B	113	GLN	CA-C	5.24	1.59	1.52
1	D	377	ARG	CD-NE	5.24	1.53	1.46
1	E	303	VAL	C-N	5.24	1.39	1.33
1	I	18	ARG	CZ-NH1	-5.24	1.25	1.32
1	G	71	GLU	CD-OE1	5.23	1.35	1.25
1	K	71	GLU	CA-C	5.23	1.59	1.52
1	A	76	LYS	C-N	-5.23	1.27	1.33
1	B	14	ARG	CD-NE	-5.23	1.39	1.46
1	B	153	ILE	CA-CB	-5.23	1.48	1.54
1	D	27	ALA	N-CA	-5.23	1.39	1.46
1	D	455	THR	C-O	-5.23	1.17	1.24
1	E	161	LYS	CA-CB	-5.23	1.44	1.53
1	F	213	LEU	C-O	-5.23	1.18	1.24
1	G	140	CYS	C-O	-5.23	1.14	1.23
1	I	343	VAL	CA-CB	5.23	1.60	1.54
1	L	468	GLU	CA-C	5.23	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	273	GLN	N-CA	-5.23	1.39	1.46
1	N	283	ALA	CA-CB	5.23	1.62	1.53
1	P	356	GLU	C-N	5.23	1.40	1.33
1	B	169	LYS	CA-CB	-5.23	1.45	1.53
1	D	372	THR	CB-OG1	-5.23	1.35	1.43
1	I	268	ILE	C-N	5.23	1.40	1.33
1	K	125	GLN	C-N	5.23	1.41	1.33
1	K	389	LEU	CB-CG	-5.23	1.43	1.53
1	N	374	GLU	C-O	-5.23	1.17	1.24
1	B	410	ALA	C-N	-5.23	1.25	1.33
1	G	103	LEU	C-O	-5.23	1.17	1.24
1	J	375	ASP	N-CA	5.23	1.52	1.46
1	L	360	ARG	CD-NE	-5.23	1.39	1.46
1	M	227	VAL	C-O	5.23	1.29	1.24
1	N	235	LEU	C-O	5.23	1.30	1.23
1	N	244	SER	C-O	5.23	1.30	1.24
1	I	12	MET	N-CA	5.23	1.52	1.46
1	A	94	THR	C-O	5.22	1.30	1.24
1	B	174	ILE	C-N	-5.22	1.28	1.34
1	E	173	ILE	C-O	-5.22	1.18	1.24
1	E	218	ARG	CZ-NH1	5.22	1.40	1.32
1	F	481	ALA	C-O	5.22	1.30	1.24
1	H	493	VAL	C-N	5.22	1.40	1.33
1	J	332	ILE	C-O	-5.22	1.18	1.24
1	K	42	LYS	N-CA	5.22	1.54	1.46
1	L	146	ASP	CA-C	5.22	1.60	1.53
1	L	174	ILE	CA-C	-5.22	1.46	1.52
1	M	240	GLU	CA-CB	5.22	1.61	1.53
1	P	169	LYS	N-CA	5.22	1.52	1.46
1	C	378	ILE	C-N	5.22	1.39	1.33
1	G	381	GLY	C-N	-5.22	1.26	1.33
1	H	353	HIS	CA-CB	-5.22	1.44	1.53
1	K	300	GLY	C-O	-5.22	1.16	1.23
1	L	51	ASP	CA-CB	-5.22	1.44	1.53
1	N	57	VAL	CA-C	-5.22	1.45	1.52
1	O	19	ASP	N-CA	-5.22	1.39	1.46
1	O	178	VAL	N-CA	5.22	1.53	1.46
1	D	378	ILE	C-N	5.22	1.39	1.33
1	E	269	ASP	C-O	5.22	1.30	1.23
1	E	343	VAL	N-CA	-5.22	1.39	1.46
1	G	259	ALA	CA-CB	5.22	1.59	1.53
1	G	261	VAL	CA-C	5.22	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	77	MET	C-O	-5.22	1.17	1.24
1	H	208	LEU	CA-C	5.22	1.59	1.53
1	J	327	SER	CA-CB	5.22	1.61	1.53
1	N	288	LYS	CA-CB	-5.22	1.44	1.53
1	G	359	ALA	CA-CB	-5.22	1.45	1.53
1	G	420	ARG	CA-CB	5.22	1.61	1.53
1	H	125	GLN	CA-C	-5.22	1.45	1.52
1	H	414	ALA	N-CA	-5.22	1.39	1.46
1	L	493	VAL	CA-C	5.22	1.59	1.52
1	N	63	THR	CB-OG1	5.22	1.52	1.43
1	B	135	LEU	C-O	-5.22	1.18	1.24
1	B	299	THR	C-O	5.22	1.30	1.24
1	I	332	ILE	CA-CB	5.22	1.60	1.54
1	J	61	GLY	C-N	-5.22	1.26	1.33
1	J	276	LEU	N-CA	5.22	1.52	1.46
1	K	478	GLN	CA-CB	-5.22	1.45	1.53
1	N	230	ALA	CA-C	5.22	1.58	1.52
1	C	37	SER	C-O	5.21	1.30	1.24
1	C	372	THR	C-O	5.21	1.30	1.24
1	I	68	MET	C-O	5.21	1.30	1.24
1	J	275	TYR	CA-CB	5.21	1.61	1.53
1	L	80	GLU	C-N	-5.21	1.27	1.33
1	L	198	LYS	CA-C	-5.21	1.46	1.52
1	L	205	ASP	C-O	5.21	1.30	1.24
1	O	357	GLU	CD-OE2	5.21	1.35	1.25
1	O	370	GLY	C-O	-5.21	1.16	1.23
1	D	91	ASP	CA-CB	-5.21	1.44	1.53
1	B	451	LEU	C-N	5.21	1.41	1.33
1	F	22	ARG	CD-NE	5.21	1.53	1.46
1	H	186	GLY	CA-C	5.21	1.59	1.51
1	I	128	ALA	CA-CB	-5.21	1.45	1.53
1	E	208	LEU	N-CA	5.21	1.53	1.46
1	H	374	GLU	CD-OE2	5.21	1.35	1.25
1	I	45	ASP	N-CA	5.21	1.52	1.46
1	K	288	LYS	C-N	5.21	1.41	1.33
1	K	412	ALA	C-O	5.21	1.30	1.24
1	N	372	THR	CB-OG1	5.21	1.52	1.43
1	O	173	ILE	CA-C	-5.21	1.46	1.52
1	B	268	ILE	N-CA	-5.21	1.40	1.46
1	C	119	ILE	C-N	5.21	1.40	1.33
1	F	136	LYS	C-N	5.21	1.41	1.33
1	G	74	ALA	C-O	5.21	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	454	PHE	CA-C	-5.21	1.45	1.52
1	I	147	LYS	N-CA	-5.21	1.40	1.46
1	I	459	GLU	C-O	5.21	1.30	1.23
1	J	284	ALA	C-O	5.21	1.29	1.24
1	K	423	ALA	C-N	5.21	1.40	1.33
1	M	14	ARG	CZ-NH2	5.21	1.40	1.33
1	M	236	ASN	CG-OD1	5.21	1.33	1.23
1	P	66	ARG	CA-CB	-5.21	1.44	1.53
1	P	197	LYS	C-N	5.21	1.40	1.33
1	A	319	GLY	CA-C	5.21	1.59	1.51
1	G	195	ILE	N-CA	5.21	1.52	1.46
1	K	213	LEU	C-O	5.21	1.29	1.24
1	M	471	ARG	CZ-NH2	5.21	1.40	1.33
1	C	66	ARG	CD-NE	-5.21	1.39	1.46
1	K	227	VAL	CA-C	-5.21	1.46	1.52
1	N	67	GLU	CD-OE1	5.21	1.35	1.25
1	F	292	MET	C-N	-5.20	1.27	1.33
1	H	315	LEU	C-O	5.20	1.30	1.23
1	I	196	GLU	CA-C	5.20	1.59	1.52
1	A	368	VAL	C-N	5.20	1.40	1.33
1	B	60	ASP	C-O	-5.20	1.17	1.23
1	C	114	ASN	C-O	-5.20	1.17	1.24
1	G	22	ARG	CZ-NH2	5.20	1.40	1.33
1	G	221	ALA	CA-C	5.20	1.59	1.52
1	G	239	ILE	CB-CG1	5.20	1.63	1.53
1	M	96	ALA	C-O	-5.20	1.18	1.24
1	C	339	HIS	CG-CD2	-5.20	1.30	1.35
1	E	359	ALA	CA-CB	-5.20	1.45	1.53
1	F	101	GLY	N-CA	-5.20	1.39	1.45
1	I	62	VAL	N-CA	-5.20	1.39	1.46
1	A	477	ILE	CA-C	5.20	1.59	1.52
1	D	28	GLY	CA-C	-5.20	1.44	1.51
1	F	25	ILE	C-N	5.20	1.41	1.33
1	L	311	SER	N-CA	5.20	1.52	1.46
1	N	241	GLU	C-O	5.20	1.30	1.23
1	L	89	VAL	C-O	5.20	1.29	1.24
1	A	368	VAL	N-CA	-5.19	1.40	1.46
1	C	125	GLN	C-O	5.19	1.30	1.24
1	E	178	VAL	C-N	-5.19	1.26	1.33
1	E	276	LEU	CA-CB	-5.19	1.44	1.53
1	K	192	LEU	N-CA	-5.19	1.40	1.46
1	M	241	GLU	N-CA	5.19	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	363	ASP	C-O	-5.19	1.17	1.24
1	B	241	GLU	N-CA	5.19	1.52	1.45
1	B	409	ARG	N-CA	5.19	1.52	1.46
1	F	115	VAL	CA-CB	5.19	1.61	1.54
1	G	444	ASN	C-O	-5.19	1.17	1.24
1	F	58	THR	CB-OG1	5.19	1.52	1.43
1	I	285	ARG	N-CA	5.19	1.51	1.45
1	J	129	GLN	CA-CB	-5.19	1.44	1.53
1	K	108	GLU	CA-CB	5.19	1.61	1.53
1	N	17	GLY	C-N	5.19	1.40	1.33
1	N	411	PHE	CA-C	-5.19	1.45	1.52
1	F	270	ASP	C-N	-5.19	1.26	1.33
1	I	415	LEU	CA-CB	-5.19	1.44	1.53
1	K	20	ALA	C-N	-5.19	1.26	1.33
1	N	449	ALA	N-CA	-5.19	1.39	1.46
1	D	472	VAL	N-CA	-5.19	1.40	1.46
1	F	363	ASP	C-N	5.19	1.41	1.33
1	F	399	GLY	C-O	-5.19	1.17	1.23
1	G	105	ARG	CD-NE	-5.19	1.39	1.46
1	H	118	THR	C-N	-5.19	1.28	1.33
1	K	149	ILE	C-N	5.19	1.41	1.33
1	N	136	LYS	N-CA	5.19	1.52	1.46
1	F	279	GLU	CA-CB	5.19	1.61	1.53
1	O	371	CYS	C-O	5.19	1.30	1.24
1	C	150	LEU	C-O	5.18	1.30	1.24
1	G	214	VAL	CA-CB	-5.18	1.47	1.54
1	J	472	VAL	CA-C	5.18	1.59	1.52
1	N	190	LYS	C-O	5.18	1.30	1.24
1	P	54	ASP	CA-C	5.18	1.59	1.52
1	A	232	ILE	N-CA	5.18	1.52	1.46
1	A	347	ILE	CA-CB	5.18	1.60	1.54
1	B	425	ASN	CA-CB	-5.18	1.44	1.53
1	E	205	ASP	N-CA	5.18	1.52	1.46
1	H	373	ILE	CA-C	5.18	1.59	1.52
1	J	207	GLU	C-O	-5.18	1.16	1.23
1	P	408	VAL	N-CA	5.18	1.52	1.46
1	J	121	VAL	N-CA	-5.18	1.40	1.46
1	A	134	LEU	N-CA	5.18	1.52	1.46
1	E	137	THR	CB-OG1	-5.18	1.35	1.43
1	E	360	ARG	CZ-NH2	-5.18	1.26	1.33
1	A	128	ALA	CA-CB	-5.18	1.45	1.53
1	C	213	LEU	CA-C	5.18	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	245	GLU	N-CA	5.18	1.52	1.46
1	K	167	LYS	C-N	-5.18	1.27	1.33
1	N	220	SER	CA-C	5.18	1.59	1.52
1	A	40	GLY	C-O	-5.18	1.17	1.24
1	A	299	THR	CB-OG1	5.18	1.52	1.43
1	H	67	GLU	CA-C	-5.18	1.46	1.52
1	L	71	GLU	C-O	-5.18	1.17	1.23
1	D	399	GLY	C-O	-5.17	1.17	1.23
1	F	266	LYS	C-N	-5.17	1.26	1.33
1	H	16	MET	CA-C	-5.17	1.45	1.52
1	H	393	LEU	CA-CB	5.17	1.61	1.53
1	I	42	LYS	C-O	-5.17	1.17	1.24
1	N	471	ARG	CD-NE	5.17	1.53	1.46
1	P	348	ARG	CA-C	-5.17	1.46	1.52
1	A	175	VAL	N-CA	-5.17	1.39	1.46
1	G	377	ARG	N-CA	5.17	1.52	1.46
1	L	486	MET	C-O	-5.17	1.18	1.24
1	E	88	GLU	C-O	5.17	1.30	1.24
1	I	124	TYR	C-N	-5.17	1.27	1.33
1	J	214	VAL	CA-CB	5.17	1.61	1.54
1	K	287	VAL	CA-CB	-5.17	1.48	1.54
1	L	437	VAL	CA-CB	5.17	1.60	1.54
1	M	272	ALA	N-CA	-5.17	1.39	1.46
1	M	293	GLU	CD-OE2	-5.17	1.15	1.25
1	C	425	ASN	C-N	5.17	1.41	1.33
1	I	50	ASP	N-CA	5.17	1.53	1.46
1	L	269	ASP	C-N	-5.17	1.26	1.33
1	P	303	VAL	CA-C	5.17	1.59	1.52
1	I	120	VAL	N-CA	-5.17	1.39	1.46
1	C	36	ARG	CD-NE	5.17	1.53	1.46
1	C	72	HIS	CG-ND1	5.17	1.44	1.38
1	J	192	LEU	CA-CB	5.17	1.62	1.53
1	K	105	ARG	N-CA	-5.17	1.39	1.46
1	O	198	LYS	C-N	-5.17	1.26	1.33
1	A	196	GLU	C-N	-5.17	1.25	1.33
1	H	255	LYS	C-O	-5.17	1.17	1.24
1	H	344	THR	CA-C	5.17	1.59	1.52
1	E	66	ARG	C-O	-5.16	1.17	1.24
1	F	305	THR	C-O	5.16	1.30	1.24
1	G	334	VAL	CA-CB	5.16	1.61	1.54
1	H	474	THR	N-CA	-5.16	1.40	1.46
1	J	133	GLU	CD-OE2	5.16	1.35	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	67	GLU	C-N	-5.16	1.26	1.33
1	K	167	LYS	CA-C	5.16	1.59	1.52
1	K	306	ASN	CG-ND2	5.16	1.44	1.33
1	M	367	GLY	N-CA	-5.16	1.37	1.45
1	O	284	ALA	CA-C	-5.16	1.46	1.52
1	I	399	GLY	C-N	-5.16	1.27	1.33
1	J	117	PRO	C-N	-5.16	1.26	1.33
1	P	180	ALA	N-CA	-5.16	1.40	1.46
1	P	291	ASP	CA-CB	-5.16	1.44	1.53
1	A	420	ARG	CA-C	5.16	1.59	1.52
1	C	377	ARG	NE-CZ	-5.16	1.27	1.33
1	D	371	CYS	CA-C	5.16	1.59	1.52
1	I	209	ILE	C-O	5.16	1.30	1.24
1	I	385	THR	CB-OG1	5.16	1.52	1.43
1	J	278	LYS	C-N	-5.16	1.26	1.33
1	L	274	HIS	CG-CD2	5.16	1.41	1.35
1	N	50	ASP	C-N	5.16	1.41	1.33
1	O	418	ILE	C-N	5.16	1.41	1.33
1	P	135	LEU	C-O	5.16	1.30	1.24
1	A	54	ASP	N-CA	5.16	1.52	1.45
1	D	12	MET	CA-C	5.16	1.59	1.52
1	H	30	ILE	C-O	-5.16	1.18	1.24
1	H	440	ALA	C-O	5.16	1.30	1.24
1	M	404	GLU	C-O	5.16	1.30	1.24
1	O	245	GLU	C-O	5.16	1.30	1.24
1	P	70	VAL	CA-C	-5.16	1.46	1.52
1	A	370	GLY	C-O	5.16	1.30	1.23
1	D	279	GLU	C-N	5.16	1.40	1.33
1	F	280	GLY	C-O	5.16	1.31	1.24
1	I	162	GLY	CA-C	5.16	1.59	1.51
1	I	322	GLU	N-CA	5.16	1.52	1.46
1	L	175	VAL	CA-C	5.16	1.60	1.52
1	H	469	PRO	C-N	-5.15	1.26	1.33
1	N	125	GLN	CA-C	-5.15	1.45	1.52
1	B	8	LEU	CA-C	5.15	1.59	1.52
1	B	430	ALA	N-CA	-5.15	1.40	1.46
1	C	73	PRO	CA-C	5.15	1.60	1.52
1	G	65	LEU	CA-C	5.15	1.60	1.52
1	G	67	GLU	N-CA	5.15	1.52	1.46
1	J	436	LYS	CA-C	5.15	1.59	1.52
1	L	443	SER	N-CA	-5.15	1.40	1.46
1	M	85	GLN	CA-CB	-5.15	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	237	CYS	N-CA	-5.15	1.39	1.46
1	O	116	HIS	CD2-NE2	-5.15	1.32	1.37
1	P	103	LEU	CA-C	5.15	1.59	1.52
1	D	313	GLN	CD-NE2	-5.15	1.22	1.33
1	E	290	SER	C-N	-5.15	1.27	1.33
1	I	422	LEU	C-O	5.15	1.30	1.24
1	C	19	ASP	CA-CB	5.15	1.61	1.53
1	F	190	LYS	N-CA	-5.15	1.39	1.46
1	H	138	ILE	C-O	5.15	1.30	1.24
1	J	445	GLY	N-CA	-5.15	1.37	1.45
1	N	40	GLY	N-CA	5.15	1.51	1.44
1	B	218	ARG	C-N	5.15	1.40	1.33
1	I	138	ILE	CB-CG1	-5.15	1.43	1.53
1	A	353	HIS	ND1-CE1	-5.14	1.27	1.32
1	B	336	GLU	N-CA	-5.14	1.39	1.46
1	D	438	ARG	NE-CZ	-5.14	1.27	1.33
1	H	111	LEU	C-O	5.14	1.30	1.24
1	H	435	VAL	CA-C	-5.14	1.46	1.52
1	D	67	GLU	C-N	-5.14	1.27	1.33
1	D	315	LEU	N-CA	5.14	1.52	1.45
1	E	147	LYS	CA-C	5.14	1.59	1.52
1	I	190	LYS	CA-C	5.14	1.59	1.52
1	J	367	GLY	C-O	5.14	1.30	1.23
1	N	485	GLU	CD-OE1	-5.14	1.15	1.25
1	O	13	LYS	N-CA	-5.14	1.39	1.46
1	B	289	LYS	CA-C	-5.14	1.45	1.52
1	B	182	VAL	CA-C	5.14	1.59	1.52
1	E	262	LEU	C-O	-5.14	1.18	1.23
1	I	166	ALA	CA-CB	-5.14	1.44	1.53
1	I	373	ILE	N-CA	5.14	1.53	1.46
1	O	257	SER	N-CA	-5.14	1.39	1.46
1	P	158	ILE	C-N	5.14	1.40	1.33
1	J	57	VAL	C-O	5.14	1.29	1.24
1	J	218	ARG	CZ-NH2	-5.14	1.26	1.33
1	O	16	MET	C-O	5.14	1.29	1.23
1	O	276	LEU	CA-CB	-5.14	1.44	1.53
1	P	334	VAL	CA-CB	5.14	1.61	1.54
1	F	45	ASP	CG-OD1	5.14	1.35	1.25
1	F	199	SER	N-CA	5.14	1.52	1.46
1	F	216	LYS	N-CA	-5.14	1.39	1.45
1	J	101	GLY	C-O	-5.14	1.17	1.23
1	L	438	ARG	CA-C	5.14	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	165	LYS	CA-CB	-5.14	1.45	1.53
1	A	444	ASN	CA-C	-5.13	1.47	1.53
1	B	344	THR	C-O	-5.13	1.17	1.23
1	H	160	GLY	C-N	-5.13	1.26	1.33
1	N	40	GLY	CA-C	-5.13	1.44	1.51
1	O	318	ALA	CA-C	-5.13	1.46	1.52
1	D	67	GLU	CD-OE2	-5.13	1.15	1.25
1	G	228	THR	C-O	-5.13	1.17	1.24
1	P	108	GLU	C-N	-5.13	1.27	1.34
1	P	494	ILE	C-N	-5.13	1.26	1.33
1	A	385	THR	CA-C	5.13	1.59	1.52
1	B	293	GLU	CD-OE1	5.13	1.35	1.25
1	H	302	ASN	CA-C	-5.13	1.46	1.52
1	N	247	LEU	N-CA	-5.13	1.39	1.46
1	O	276	LEU	N-CA	-5.13	1.39	1.46
1	C	222	GLN	C-N	5.13	1.41	1.33
1	E	35	VAL	C-O	-5.13	1.18	1.24
1	A	70	VAL	CA-CB	5.13	1.59	1.54
1	C	240	GLU	CA-C	5.13	1.58	1.53
1	C	390	SER	CB-OG	5.13	1.52	1.42
1	E	47	MET	CA-C	5.13	1.60	1.53
1	J	433	ILE	CA-CB	-5.13	1.48	1.54
1	M	424	GLU	C-N	5.13	1.40	1.33
1	N	78	LEU	C-O	-5.13	1.17	1.24
1	C	105	ARG	CA-CB	5.13	1.61	1.53
1	C	342	ALA	N-CA	-5.13	1.39	1.46
1	D	22	ARG	C-N	5.13	1.41	1.33
1	D	31	ILE	CA-CB	-5.13	1.47	1.54
1	E	285	ARG	NE-CZ	5.13	1.38	1.33
1	F	307	ILE	C-O	5.13	1.29	1.24
1	F	393	LEU	C-O	5.13	1.30	1.24
1	H	386	GLU	C-N	5.13	1.40	1.33
1	I	487	LEU	CA-C	5.13	1.59	1.52
1	K	484	THR	N-CA	-5.13	1.39	1.46
1	M	63	THR	CB-OG1	5.13	1.51	1.43
1	O	354	VAL	N-CA	5.13	1.52	1.46
1	O	439	ALA	C-O	5.13	1.30	1.24
1	A	277	ALA	C-O	5.12	1.30	1.24
1	F	205	ASP	C-N	-5.12	1.25	1.33
1	H	14	ARG	N-CA	-5.12	1.39	1.46
1	H	421	THR	C-N	-5.12	1.26	1.33
1	K	135	LEU	CA-CB	-5.12	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	483	SER	N-CA	5.12	1.52	1.46
1	H	195	ILE	C-N	-5.12	1.26	1.33
1	C	29	ARG	N-CA	5.12	1.52	1.46
1	C	353	HIS	N-CA	-5.12	1.40	1.46
1	G	55	VAL	CA-CB	5.12	1.60	1.54
1	J	323	GLU	CA-CB	5.12	1.59	1.53
1	J	438	ARG	CA-C	5.12	1.59	1.52
1	B	74	ALA	C-O	-5.12	1.17	1.24
1	I	65	LEU	C-O	-5.12	1.17	1.24
1	L	233	ALA	C-N	-5.12	1.27	1.33
1	N	299	THR	C-N	5.12	1.39	1.34
1	B	435	VAL	C-N	-5.12	1.26	1.33
1	C	68	MET	C-O	-5.12	1.17	1.24
1	D	199	SER	N-CA	5.12	1.52	1.46
1	D	351	THR	CA-CB	5.12	1.63	1.54
1	J	408	VAL	N-CA	5.12	1.52	1.46
1	K	218	ARG	CD-NE	5.12	1.53	1.46
1	G	458	VAL	CA-CB	5.12	1.60	1.54
1	N	432	GLU	C-N	5.12	1.40	1.33
1	A	459	GLU	C-O	-5.12	1.17	1.23
1	F	167	LYS	CA-C	-5.12	1.46	1.52
1	J	224	PRO	N-CD	5.12	1.54	1.47
1	O	36	ARG	CA-C	-5.12	1.45	1.52
1	O	145	GLN	CA-CB	5.12	1.60	1.53
1	A	18	ARG	C-O	-5.11	1.17	1.24
1	C	271	LEU	C-O	5.11	1.30	1.24
1	E	27	ALA	CA-CB	5.11	1.61	1.53
1	H	135	LEU	C-N	-5.11	1.26	1.33
1	O	319	GLY	N-CA	-5.11	1.38	1.45
1	P	437	VAL	C-N	5.11	1.40	1.33
1	B	465	GLY	CA-C	5.11	1.59	1.51
1	I	210	LYS	C-O	5.11	1.30	1.24
1	G	281	ILE	C-O	5.11	1.29	1.24
1	I	98	VAL	C-O	5.11	1.29	1.24
1	I	214	VAL	C-O	-5.11	1.18	1.24
1	K	368	VAL	N-CA	-5.11	1.39	1.46
1	N	155	MET	N-CA	5.11	1.52	1.46
1	D	369	VAL	CA-CB	-5.11	1.47	1.54
1	E	42	LYS	CA-CB	-5.11	1.45	1.53
1	E	454	PHE	CA-C	5.11	1.59	1.52
1	L	361	ALA	C-O	5.11	1.30	1.24
1	M	215	ASP	N-CA	-5.11	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	73	PRO	C-N	-5.11	1.27	1.33
1	C	316	GLY	C-N	5.11	1.41	1.33
1	D	494	ILE	C-N	-5.11	1.26	1.33
1	G	18	ARG	CZ-NH2	5.11	1.40	1.33
1	L	244	SER	C-O	5.11	1.30	1.24
1	M	215	ASP	CG-OD2	5.11	1.35	1.25
1	M	333	PHE	C-N	5.11	1.40	1.33
1	P	109	GLU	CA-C	5.11	1.59	1.52
1	B	148	GLU	N-CA	-5.11	1.40	1.46
1	G	152	LYS	CA-C	5.11	1.59	1.52
1	I	13	LYS	C-O	5.11	1.30	1.23
1	I	303	VAL	CA-CB	5.11	1.61	1.54
1	J	56	VAL	C-O	-5.11	1.18	1.24
1	L	166	ALA	CA-CB	5.11	1.62	1.53
1	L	178	VAL	CA-C	5.11	1.59	1.52
1	O	59	ASN	C-O	5.11	1.30	1.24
1	P	157	SER	N-CA	-5.11	1.40	1.46
1	B	204	ASP	C-O	5.10	1.30	1.24
1	E	296	ALA	C-O	5.10	1.30	1.24
1	O	302	ASN	C-N	-5.10	1.28	1.33
1	B	157	SER	CB-OG	5.10	1.52	1.42
1	B	399	GLY	CA-C	5.10	1.59	1.51
1	D	66	ARG	CA-CB	5.10	1.61	1.53
1	F	164	GLU	C-N	-5.10	1.27	1.33
1	H	96	ALA	N-CA	-5.10	1.40	1.46
1	I	58	THR	CB-OG1	-5.10	1.35	1.43
1	N	478	GLN	N-CA	5.10	1.52	1.46
1	C	70	VAL	C-N	-5.10	1.26	1.33
1	E	312	ALA	N-CA	-5.10	1.40	1.46
1	J	369	VAL	CA-CB	-5.10	1.47	1.54
1	O	90	GLY	C-O	-5.10	1.17	1.23
1	A	426	ALA	C-N	-5.10	1.26	1.33
1	B	42	LYS	C-O	5.10	1.31	1.24
1	C	473	LYS	C-N	5.10	1.40	1.33
1	G	409	ARG	C-O	-5.10	1.18	1.24
1	G	434	LEU	C-O	-5.10	1.17	1.24
1	H	23	MET	N-CA	5.10	1.52	1.46
1	H	197	LYS	C-N	-5.10	1.25	1.33
1	J	274	HIS	N-CA	-5.10	1.39	1.46
1	O	274	HIS	CE1-NE2	-5.10	1.27	1.32
1	A	350	THR	CA-C	-5.10	1.46	1.52
1	C	217	GLU	C-N	5.10	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	20	ALA	N-CA	5.10	1.52	1.46
1	H	327	SER	C-N	5.10	1.41	1.33
1	J	337	CYS	CA-CB	-5.10	1.44	1.53
1	K	88	GLU	N-CA	-5.10	1.41	1.47
1	L	348	ARG	NE-CZ	5.10	1.38	1.33
1	C	304	ILE	C-O	5.09	1.30	1.24
1	F	372	THR	C-O	5.09	1.31	1.23
1	G	373	ILE	CA-C	5.09	1.58	1.52
1	H	263	PHE	C-O	5.09	1.29	1.24
1	I	123	GLY	CA-C	-5.09	1.44	1.51
1	K	344	THR	CA-CB	5.09	1.60	1.53
1	M	496	ALA	C-O	-5.09	1.17	1.24
1	P	435	VAL	C-N	5.09	1.41	1.33
1	D	342	ALA	CA-CB	-5.09	1.45	1.53
1	A	59	ASN	C-N	5.09	1.40	1.33
1	D	31	ILE	C-O	5.09	1.30	1.24
1	G	416	GLU	C-N	-5.09	1.27	1.33
1	A	83	LYS	C-O	5.09	1.30	1.24
1	D	426	ALA	CA-C	5.09	1.59	1.52
1	G	459	GLU	CD-OE1	5.09	1.35	1.25
1	I	49	VAL	C-O	5.09	1.30	1.23
1	J	206	THR	CA-C	-5.09	1.46	1.52
1	M	375	ASP	N-CA	-5.09	1.40	1.46
1	N	416	GLU	N-CA	5.09	1.52	1.46
1	P	260	ASN	N-CA	-5.09	1.39	1.46
1	P	446	ASN	C-O	-5.09	1.17	1.24
1	E	39	LEU	CA-C	-5.09	1.45	1.52
1	N	262	LEU	N-CA	5.09	1.51	1.46
1	B	106	LYS	C-O	5.09	1.29	1.24
1	B	112	ASP	N-CA	-5.09	1.39	1.46
1	G	261	VAL	N-CA	5.09	1.52	1.46
1	N	54	ASP	CA-CB	5.09	1.61	1.53
1	A	415	LEU	N-CA	-5.08	1.39	1.46
1	O	293	GLU	C-O	5.08	1.30	1.24
1	C	291	ASP	CA-C	5.08	1.59	1.52
1	F	478	GLN	N-CA	5.08	1.52	1.46
1	B	267	GLY	C-N	5.08	1.40	1.33
1	E	331	MET	CA-C	5.08	1.58	1.52
1	G	129	GLN	CA-CB	5.08	1.62	1.53
1	H	247	LEU	CA-C	-5.08	1.46	1.52
1	K	165	LYS	CA-C	5.08	1.59	1.52
1	K	452	ASN	CG-OD1	5.08	1.33	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	252	ALA	CA-C	5.08	1.59	1.52
1	O	434	LEU	N-CA	-5.08	1.39	1.46
1	J	43	GLY	CA-C	5.08	1.59	1.51
1	E	125	GLN	CA-CB	-5.08	1.45	1.53
1	G	66	ARG	NE-CZ	5.08	1.38	1.33
1	G	191	ASP	CG-OD2	5.08	1.34	1.25
1	M	235	LEU	CA-C	-5.08	1.46	1.52
1	P	456	GLY	C-O	5.08	1.30	1.23
1	B	392	LYS	C-N	-5.08	1.25	1.33
1	G	267	GLY	C-O	5.08	1.28	1.24
1	N	88	GLU	N-CA	-5.08	1.39	1.46
1	P	346	LEU	CA-C	5.08	1.59	1.52
1	I	66	ARG	CD-NE	-5.08	1.39	1.46
1	I	109	GLU	CA-CB	5.08	1.61	1.53
1	O	89	VAL	CA-CB	-5.08	1.49	1.55
1	C	181	VAL	CA-C	-5.07	1.46	1.52
1	D	200	GLY	N-CA	5.07	1.52	1.45
1	G	18	ARG	CZ-NH1	5.07	1.39	1.32
1	H	261	VAL	C-N	-5.07	1.26	1.33
1	F	402	GLY	C-O	-5.07	1.17	1.23
1	A	213	LEU	N-CA	5.07	1.52	1.46
1	G	172	GLU	C-N	-5.07	1.27	1.33
1	H	364	ASP	N-CA	-5.07	1.39	1.46
1	I	486	MET	C-N	-5.07	1.26	1.34
1	L	240	GLU	CA-CB	5.07	1.59	1.52
1	N	170	LEU	CA-C	-5.07	1.45	1.52
1	O	496	ALA	N-CA	-5.07	1.39	1.46
1	P	422	LEU	C-O	5.07	1.30	1.24
1	F	400	ILE	C-O	5.07	1.29	1.24
1	O	346	LEU	C-N	5.07	1.40	1.33
1	C	327	SER	CA-CB	5.07	1.62	1.53
1	E	15	TYR	C-N	-5.07	1.26	1.33
1	I	154	ALA	CA-CB	5.07	1.61	1.53
1	M	92	GLY	CA-C	5.07	1.60	1.51
1	M	358	VAL	CA-CB	5.07	1.60	1.54
1	M	481	ALA	C-N	5.07	1.41	1.33
1	P	370	GLY	C-O	5.07	1.30	1.23
1	B	25	ILE	CA-CB	5.07	1.62	1.54
1	E	266	LYS	C-O	5.07	1.30	1.23
1	G	339	HIS	CE1-NE2	-5.07	1.27	1.32
1	H	317	ASP	CA-C	5.07	1.58	1.52
1	J	365	ALA	CA-C	5.07	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	239	ILE	C-N	5.07	1.40	1.33
1	N	49	VAL	CA-C	5.07	1.59	1.52
1	B	229	ASP	CA-C	-5.06	1.46	1.52
1	B	458	VAL	C-N	-5.06	1.26	1.33
1	D	285	ARG	N-CA	-5.06	1.39	1.46
1	G	243	ALA	CA-CB	5.06	1.62	1.53
1	H	463	GLU	CA-C	-5.06	1.45	1.52
1	I	464	ASN	CA-C	5.06	1.59	1.52
1	M	79	ILE	CA-C	-5.06	1.47	1.52
1	E	182	VAL	C-N	-5.06	1.26	1.33
1	I	146	ASP	CA-CB	5.06	1.61	1.53
1	N	104	LEU	CA-C	5.06	1.59	1.53
1	A	14	ARG	C-N	-5.06	1.26	1.33
1	A	48	LEU	CA-CB	-5.06	1.45	1.53
1	L	173	ILE	CA-C	-5.06	1.46	1.52
1	M	18	ARG	C-O	-5.06	1.17	1.24
1	N	380	SER	CA-CB	5.06	1.60	1.53
1	D	335	GLU	CA-C	5.06	1.59	1.53
1	H	277	ALA	CA-CB	-5.06	1.45	1.53
1	I	469	PRO	CA-C	-5.06	1.46	1.52
1	J	468	GLU	C-O	5.06	1.30	1.24
1	K	207	GLU	CD-OE2	5.06	1.34	1.25
1	P	481	ALA	C-N	-5.06	1.26	1.33
1	C	344	THR	CB-OG1	-5.06	1.35	1.43
1	D	50	ASP	C-N	-5.06	1.27	1.33
1	G	353	HIS	CB-CG	5.06	1.57	1.50
1	J	248	LYS	N-CA	5.06	1.52	1.46
1	N	350	THR	CA-C	5.06	1.57	1.52
1	P	124	TYR	C-N	5.06	1.41	1.33
1	F	178	VAL	N-CA	-5.06	1.40	1.46
1	K	413	ASP	CA-C	-5.06	1.45	1.52
1	B	276	LEU	CA-CB	5.05	1.61	1.53
1	G	480	ALA	C-N	-5.05	1.27	1.33
1	I	10	GLU	CA-C	-5.05	1.46	1.52
1	I	371	CYS	N-CA	-5.05	1.39	1.46
1	M	359	ALA	CA-CB	-5.05	1.45	1.53
1	O	440	ALA	CA-CB	-5.05	1.45	1.53
1	O	495	ALA	CA-CB	-5.05	1.45	1.53
1	E	44	MET	C-N	-5.05	1.26	1.33
1	E	449	ALA	CA-C	-5.05	1.46	1.52
1	N	18	ARG	CA-CB	-5.05	1.46	1.53
1	D	231	LYS	C-O	5.05	1.30	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	433	ILE	CA-CB	5.05	1.61	1.54
1	F	366	VAL	CA-CB	5.05	1.60	1.54
1	G	319	GLY	C-N	-5.05	1.26	1.33
1	I	220	SER	C-O	-5.05	1.17	1.23
1	N	189	ASP	N-CA	5.05	1.52	1.46
1	O	306	ASN	C-N	5.05	1.40	1.33
1	O	345	MET	C-O	-5.05	1.18	1.24
1	B	494	ILE	C-O	5.05	1.30	1.24
1	C	197	LYS	C-O	5.05	1.29	1.24
1	D	479	SER	C-O	5.05	1.30	1.24
1	K	29	ARG	CZ-NH1	5.05	1.39	1.32
1	O	34	THR	N-CA	-5.05	1.39	1.46
1	J	219	VAL	C-N	5.05	1.40	1.33
1	J	471	ARG	CA-C	5.05	1.59	1.52
1	N	269	ASP	C-O	5.05	1.30	1.23
1	D	137	THR	CA-C	-5.05	1.45	1.52
1	I	203	ILE	CA-CB	5.05	1.61	1.54
1	P	187	LYS	C-O	5.05	1.30	1.24
1	P	423	ALA	CA-C	-5.05	1.46	1.52
1	D	345	MET	N-CA	-5.04	1.40	1.46
1	I	241	GLU	CA-C	5.04	1.58	1.52
1	A	149	ILE	C-O	-5.04	1.17	1.24
1	E	461	MET	C-O	5.04	1.30	1.24
1	F	196	GLU	CD-OE2	-5.04	1.15	1.25
1	F	416	GLU	N-CA	5.04	1.52	1.46
1	J	113	GLN	CA-CB	5.04	1.60	1.53
1	L	419	PRO	N-CD	-5.04	1.40	1.47
1	N	169	LYS	N-CA	-5.04	1.40	1.46
1	A	203	ILE	C-N	-5.04	1.26	1.33
1	D	258	GLY	CA-C	5.04	1.58	1.51
1	D	471	ARG	CA-C	5.04	1.59	1.52
1	F	285	ARG	CZ-NH1	-5.04	1.25	1.32
1	G	306	ASN	C-N	5.04	1.40	1.33
1	H	490	ILE	CB-CG1	-5.04	1.43	1.53
1	D	373	ILE	C-N	-5.04	1.26	1.33
1	A	353	HIS	CA-C	5.04	1.59	1.52
1	A	412	ALA	CA-CB	5.04	1.61	1.53
1	F	18	ARG	CA-CB	5.04	1.61	1.53
1	H	350	THR	N-CA	-5.04	1.39	1.46
1	J	487	LEU	C-O	5.04	1.30	1.24
1	M	59	ASN	C-O	-5.04	1.17	1.24
1	M	325	LYS	CA-CB	-5.04	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	315	LEU	CA-C	-5.04	1.46	1.52
1	D	356	GLU	CD-OE2	-5.04	1.15	1.25
1	J	247	LEU	C-N	-5.04	1.26	1.33
1	O	71	GLU	CA-CB	-5.04	1.45	1.53
1	A	57	VAL	N-CA	5.04	1.52	1.46
1	E	229	ASP	N-CA	5.04	1.52	1.46
1	F	29	ARG	CZ-NH1	-5.04	1.25	1.32
1	H	25	ILE	C-N	5.04	1.40	1.33
1	N	469	PRO	N-CD	-5.04	1.40	1.47
1	P	187	LYS	C-N	5.04	1.40	1.33
1	E	105	ARG	C-O	-5.03	1.18	1.24
1	E	419	PRO	CA-CB	-5.03	1.46	1.53
1	E	487	LEU	C-O	5.03	1.30	1.24
1	F	400	ILE	C-N	-5.03	1.26	1.33
1	G	26	LEU	CA-CB	-5.03	1.45	1.53
1	G	166	ALA	C-N	-5.03	1.27	1.33
1	G	407	ALA	N-CA	-5.03	1.39	1.46
1	M	104	LEU	C-O	5.03	1.30	1.23
1	O	50	ASP	N-CA	5.03	1.52	1.45
1	O	127	ALA	N-CA	-5.03	1.39	1.46
1	P	20	ALA	C-N	5.03	1.40	1.33
1	A	36	ARG	CD-NE	5.03	1.53	1.46
1	J	19	ASP	C-O	-5.03	1.18	1.24
1	J	424	GLU	N-CA	5.03	1.52	1.46
1	L	491	ASP	N-CA	5.03	1.52	1.46
1	B	33	GLU	C-O	5.03	1.30	1.24
1	B	394	ARG	CZ-NH1	-5.03	1.25	1.32
1	C	402	GLY	N-CA	5.03	1.52	1.45
1	D	307	ILE	CA-C	5.03	1.59	1.52
1	E	337	CYS	CA-C	-5.03	1.46	1.52
1	E	403	ARG	CZ-NH2	-5.03	1.26	1.33
1	F	339	HIS	CG-CD2	-5.03	1.30	1.35
1	I	225	LYS	C-N	-5.03	1.26	1.33
1	B	236	ASN	CG-OD1	-5.03	1.14	1.23
1	D	377	ARG	CA-C	5.03	1.59	1.52
1	E	164	GLU	CD-OE2	5.03	1.34	1.25
1	E	252	ALA	C-N	-5.03	1.27	1.33
1	F	377	ARG	C-O	5.03	1.30	1.24
1	G	158	ILE	CA-CB	5.03	1.61	1.54
1	H	314	ASP	C-O	5.03	1.30	1.24
1	N	93	THR	C-O	5.03	1.30	1.24
1	O	416	GLU	CD-OE1	5.03	1.34	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	231	LYS	CA-C	-5.03	1.47	1.53
1	B	279	GLU	N-CA	-5.03	1.39	1.46
1	C	362	VAL	N-CA	-5.03	1.40	1.46
1	J	245	GLU	CA-CB	5.03	1.61	1.53
1	J	418	ILE	C-N	5.03	1.40	1.34
1	J	449	ALA	N-CA	5.03	1.52	1.46
1	K	450	GLY	C-N	5.03	1.40	1.33
1	P	363	ASP	CA-CB	-5.03	1.45	1.53
1	P	482	GLU	C-O	5.03	1.30	1.24
1	H	361	ALA	C-O	5.02	1.30	1.24
1	K	7	VAL	C-N	-5.02	1.27	1.33
1	C	58	THR	C-O	-5.02	1.17	1.23
1	D	414	ALA	C-N	-5.02	1.26	1.33
1	E	348	ARG	NE-CZ	-5.02	1.27	1.33
1	H	210	LYS	C-O	5.02	1.30	1.24
1	I	86	GLU	N-CA	-5.02	1.39	1.46
1	I	409	ARG	C-O	-5.02	1.18	1.24
1	L	382	GLY	C-N	-5.02	1.26	1.33
1	L	410	ALA	N-CA	5.02	1.52	1.46
1	O	220	SER	N-CA	-5.02	1.39	1.46
1	P	40	GLY	C-O	5.02	1.30	1.24
1	B	60	ASP	CA-CB	5.02	1.61	1.53
1	C	174	ILE	N-CA	5.02	1.52	1.46
1	C	206	THR	C-O	5.02	1.29	1.23
1	C	299	THR	C-O	5.02	1.30	1.24
1	G	448	CYS	C-N	5.02	1.40	1.33
1	A	406	LEU	N-CA	-5.02	1.39	1.46
1	A	441	HIS	CA-C	-5.02	1.46	1.52
1	F	467	VAL	C-O	5.02	1.29	1.23
1	J	10	GLU	C-O	-5.02	1.17	1.23
1	K	104	LEU	N-CA	-5.02	1.39	1.46
1	L	214	VAL	C-N	-5.02	1.26	1.33
1	O	148	GLU	CD-OE1	5.02	1.34	1.25
1	O	401	SER	CA-CB	5.02	1.61	1.53
1	A	33	GLU	C-O	5.02	1.29	1.24
1	C	330	SER	N-CA	-5.02	1.39	1.46
1	D	68	MET	C-N	5.02	1.40	1.33
1	E	34	THR	CB-OG1	-5.02	1.35	1.43
1	E	299	THR	C-O	-5.02	1.18	1.24
1	J	471	ARG	CD-NE	-5.02	1.39	1.46
1	M	469	PRO	N-CD	5.02	1.54	1.47
1	N	465	GLY	C-O	5.02	1.30	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	423	ALA	C-N	-5.02	1.27	1.33
1	I	180	ALA	C-O	-5.02	1.16	1.23
1	J	149	ILE	C-O	-5.02	1.18	1.24
1	N	325	LYS	C-O	5.02	1.29	1.23
1	B	322	GLU	N-CA	5.01	1.52	1.45
1	C	335	GLU	C-O	-5.01	1.17	1.24
1	D	340	PRO	C-N	-5.01	1.26	1.33
1	E	74	ALA	CA-C	-5.01	1.46	1.52
1	L	326	ILE	C-O	5.01	1.29	1.24
1	M	137	THR	C-N	5.01	1.39	1.34
1	M	251	VAL	C-O	5.01	1.30	1.24
1	D	439	ALA	CA-C	5.01	1.59	1.52
1	I	143	GLY	C-O	5.01	1.29	1.24
1	K	188	VAL	N-CA	5.01	1.52	1.46
1	B	415	LEU	CB-CG	-5.01	1.43	1.53
1	G	8	LEU	CA-C	5.01	1.59	1.52
1	H	100	ALA	N-CA	5.01	1.52	1.46
1	H	102	GLU	CD-OE2	5.01	1.34	1.25
1	L	179	SER	C-N	-5.01	1.26	1.33
1	O	238	ALA	N-CA	-5.01	1.39	1.46
1	B	130	LYS	N-CA	-5.01	1.40	1.46
1	E	467	VAL	C-O	5.01	1.30	1.23
1	F	285	ARG	NE-CZ	5.01	1.38	1.33
1	M	141	GLU	C-N	5.01	1.40	1.33
1	N	143	GLY	C-O	-5.01	1.17	1.23
1	O	86	GLU	CD-OE2	5.01	1.34	1.25
1	D	41	PRO	N-CD	5.01	1.54	1.47
1	D	408	VAL	C-O	5.01	1.30	1.24
1	B	12	MET	C-N	-5.01	1.26	1.33
1	B	49	VAL	N-CA	5.01	1.52	1.46
1	B	462	CYS	CA-C	-5.01	1.45	1.52
1	K	116	HIS	N-CA	-5.01	1.39	1.46
1	M	191	ASP	C-O	5.01	1.30	1.24
1	N	222	GLN	C-N	5.01	1.41	1.33
1	P	345	MET	C-O	5.01	1.29	1.23
1	A	68	MET	CA-C	-5.00	1.46	1.52
1	B	324	ARG	CZ-NH2	-5.00	1.26	1.33
1	B	482	GLU	CD-OE1	-5.00	1.15	1.25
1	E	105	ARG	CA-C	-5.00	1.46	1.52
1	I	88	GLU	N-CA	-5.00	1.39	1.46
1	L	55	VAL	CA-C	5.00	1.59	1.52
1	C	236	ASN	CA-CB	5.00	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	240	GLU	N-CA	-5.00	1.39	1.46
1	F	243	ALA	N-CA	5.00	1.52	1.46
1	F	479	SER	CA-C	5.00	1.59	1.52
1	H	57	VAL	C-O	5.00	1.29	1.24
1	H	73	PRO	CA-CB	-5.00	1.46	1.53
1	K	172	GLU	C-O	5.00	1.30	1.24
1	K	297	LYS	N-CA	5.00	1.52	1.46
1	M	29	ARG	C-N	5.00	1.40	1.33
1	D	119	ILE	N-CA	5.00	1.52	1.46
1	J	108	GLU	CA-C	5.00	1.59	1.52
1	K	391	MET	C-N	-5.00	1.26	1.33
1	M	153	ILE	CA-C	5.00	1.59	1.52
1	N	420	ARG	C-N	5.00	1.40	1.33

All (17747) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	14	ARG	CD-NE-CZ	37.50	176.90	124.40
1	P	249	ASP	CA-CB-CG	30.42	143.02	112.60
1	O	18	ARG	CD-NE-CZ	30.14	166.59	124.40
1	I	218	ARG	CD-NE-CZ	28.48	164.27	124.40
1	B	186	GLY	CA-C-N	25.51	160.14	122.39
1	B	186	GLY	C-N-CA	25.51	160.14	122.39
1	B	14	ARG	CD-NE-CZ	23.47	157.26	124.40
1	M	306	ASN	OD1-CG-ND2	-22.87	99.73	122.60
1	N	252	ALA	CA-C-N	22.16	157.72	120.71
1	N	252	ALA	C-N-CA	22.16	157.72	120.71
1	K	112	ASP	CA-CB-CG	22.16	134.76	112.60
1	G	89	VAL	N-CA-C	22.12	133.19	112.17
1	E	394	ARG	CD-NE-CZ	21.93	155.11	124.40
1	G	429	ASP	CA-CB-CG	21.82	134.43	112.60
1	N	215	ASP	CA-CB-CG	21.57	134.17	112.60
1	D	158	ILE	CA-C-O	-21.19	98.95	120.14
1	N	19	ASP	CA-CB-CG	20.99	133.59	112.60
1	A	11	ASN	CA-CB-CG	20.83	133.43	112.60
1	F	229	ASP	CA-CB-CG	20.77	133.37	112.60
1	F	178	VAL	N-CA-C	20.43	131.35	110.72
1	G	372	THR	CA-C-N	20.39	146.18	120.70
1	G	372	THR	C-N-CA	20.39	146.18	120.70
1	J	11	ASN	CA-CB-CG	20.21	132.81	112.60
1	O	286	ARG	NE-CZ-NH1	20.18	141.68	121.50
1	C	80	GLU	CA-C-N	20.09	146.27	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	80	GLU	C-N-CA	20.09	146.27	120.56
1	D	88	GLU	CA-C-N	20.04	145.17	120.72
1	D	88	GLU	C-N-CA	20.04	145.17	120.72
1	B	381	GLY	O-C-N	-19.86	107.22	122.71
1	P	317	ASP	CA-CB-CG	19.80	132.40	112.60
1	O	377	ARG	NE-CZ-NH2	-19.65	101.51	119.20
1	I	147	LYS	N-CA-C	19.62	135.07	111.33
1	B	184	ASP	CA-CB-CG	19.55	132.15	112.60
1	K	229	ASP	CA-CB-CG	19.46	132.06	112.60
1	L	115	VAL	O-C-N	-19.36	102.92	122.67
1	F	11	ASN	CA-CB-CG	19.34	131.94	112.60
1	A	7	VAL	CA-C-N	19.31	156.46	121.70
1	A	7	VAL	C-N-CA	19.31	156.46	121.70
1	P	118	THR	CA-C-N	19.31	144.83	120.70
1	P	118	THR	C-N-CA	19.31	144.83	120.70
1	P	348	ARG	NE-CZ-NH2	19.30	136.57	119.20
1	H	249	ASP	CA-CB-CG	19.21	131.81	112.60
1	C	362	VAL	N-CA-C	19.15	128.53	110.53
1	F	145	GLN	OE1-CD-NE2	19.01	141.61	122.60
1	E	238	ALA	CA-C-N	18.93	145.73	122.26
1	E	238	ALA	C-N-CA	18.93	145.73	122.26
1	C	66	ARG	NE-CZ-NH1	-18.81	102.69	121.50
1	C	361	ALA	CA-C-N	18.79	144.61	120.56
1	C	361	ALA	C-N-CA	18.79	144.61	120.56
1	I	314	ASP	CA-CB-CG	18.76	131.36	112.60
1	I	324	ARG	NE-CZ-NH1	-18.73	102.77	121.50
1	M	89	VAL	N-CA-C	18.72	129.62	110.72
1	I	14	ARG	CD-NE-CZ	18.52	150.33	124.40
1	B	340	PRO	N-CA-CB	-18.48	92.57	102.92
1	M	190	LYS	N-CA-C	18.44	131.50	111.03
1	N	302	ASN	OD1-CG-ND2	-18.37	104.23	122.60
1	C	89	VAL	N-CA-C	18.29	127.54	111.81
1	N	285	ARG	NE-CZ-NH1	18.28	139.78	121.50
1	H	236	ASN	CA-CB-CG	18.23	130.83	112.60
1	J	268	ILE	O-C-N	-18.08	104.41	123.03
1	L	452	ASN	OD1-CG-ND2	18.08	140.68	122.60
1	P	378	ILE	CA-C-N	18.08	154.51	121.97
1	P	378	ILE	C-N-CA	18.08	154.51	121.97
1	O	348	ARG	NE-CZ-NH1	-18.03	103.47	121.50
1	J	264	CYS	CA-C-N	17.99	146.19	120.28
1	J	264	CYS	C-N-CA	17.99	146.19	120.28
1	O	12	MET	CA-C-N	17.91	147.11	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	12	MET	C-N-CA	17.91	147.11	121.50
1	G	249	ASP	CA-CB-CG	17.91	130.51	112.60
1	B	19	ASP	CA-CB-CG	17.82	130.42	112.60
1	O	147	LYS	N-CA-C	17.80	132.74	111.02
1	M	182	VAL	CA-C-N	17.77	145.82	120.95
1	M	182	VAL	C-N-CA	17.77	145.82	120.95
1	C	350	THR	CA-C-N	17.72	147.17	122.19
1	C	350	THR	C-N-CA	17.72	147.17	122.19
1	N	12	MET	CA-C-N	17.70	147.15	122.72
1	N	12	MET	C-N-CA	17.70	147.15	122.72
1	H	187	LYS	O-C-N	-17.68	107.50	123.41
1	F	183	ASP	CA-CB-CG	17.65	130.25	112.60
1	B	471	ARG	CD-NE-CZ	17.64	149.10	124.40
1	L	19	ASP	CA-CB-CG	17.57	130.17	112.60
1	A	38	THR	N-CA-C	17.54	130.50	111.03
1	J	91	ASP	CA-CB-CG	17.52	130.12	112.60
1	B	66	ARG	CD-NE-CZ	17.46	148.85	124.40
1	E	66	ARG	NE-CZ-NH2	-17.46	103.49	119.20
1	K	418	ILE	N-CA-CB	17.44	121.48	110.50
1	B	147	LYS	N-CA-C	17.39	134.79	113.23
1	P	35	VAL	CA-C-O	-17.31	104.75	119.29
1	J	146	ASP	CA-CB-CG	17.27	129.87	112.60
1	J	446	ASN	OD1-CG-ND2	17.26	139.86	122.60
1	M	221	ALA	CA-C-N	17.25	143.83	120.54
1	M	221	ALA	C-N-CA	17.25	143.83	120.54
1	D	40	GLY	CA-C-N	17.22	141.36	119.84
1	D	40	GLY	C-N-CA	17.22	141.36	119.84
1	B	89	VAL	N-CA-C	17.21	127.52	110.82
1	L	105	ARG	NE-CZ-NH1	-17.18	104.32	121.50
1	C	471	ARG	NE-CZ-NH1	17.17	138.67	121.50
1	D	112	ASP	CA-CB-CG	17.17	129.77	112.60
1	I	36	ARG	NE-CZ-NH2	17.15	134.64	119.20
1	H	483	SER	CA-C-N	17.13	143.67	120.54
1	H	483	SER	C-N-CA	17.13	143.67	120.54
1	E	425	ASN	CA-CB-CG	16.99	129.59	112.60
1	I	411	PHE	CA-CB-CG	16.98	130.78	113.80
1	E	291	ASP	N-CA-CB	16.88	134.93	110.12
1	H	137	THR	N-CA-C	16.85	129.10	111.07
1	L	8	LEU	CA-C-O	-16.80	101.89	120.03
1	C	24	ASN	OD1-CG-ND2	16.72	139.32	122.60
1	C	29	ARG	NE-CZ-NH1	-16.69	104.81	121.50
1	D	69	SER	CA-C-N	16.60	142.70	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	69	SER	C-N-CA	16.60	142.70	120.63
1	K	18	ARG	CD-NE-CZ	16.56	147.59	124.40
1	N	360	ARG	NE-CZ-NH2	16.53	134.07	119.20
1	P	29	ARG	CD-NE-CZ	16.45	147.44	124.40
1	I	140	CYS	CA-C-N	16.45	144.57	121.05
1	I	140	CYS	C-N-CA	16.45	144.57	121.05
1	G	55	VAL	O-C-N	-16.44	105.78	123.20
1	I	66	ARG	CD-NE-CZ	16.43	147.39	124.40
1	L	242	THR	N-CA-C	16.42	134.93	110.30
1	H	20	ALA	CA-C-O	-16.39	103.67	120.89
1	A	229	ASP	CA-CB-CG	16.36	128.96	112.60
1	L	89	VAL	N-CA-C	16.36	125.80	110.42
1	L	290	SER	CA-C-O	-16.34	104.07	120.90
1	D	18	ARG	CD-NE-CZ	16.33	147.26	124.40
1	B	411	PHE	CA-CB-CG	16.32	130.12	113.80
1	L	446	ASN	OD1-CG-ND2	-16.32	106.28	122.60
1	F	60	ASP	CA-CB-CG	16.26	128.86	112.60
1	M	60	ASP	CA-CB-CG	16.21	128.81	112.60
1	K	348	ARG	NE-CZ-NH2	16.19	133.77	119.20
1	C	204	ASP	CA-CB-CG	16.18	128.78	112.60
1	J	188	VAL	N-CA-C	16.18	131.37	107.75
1	J	372	THR	CA-C-N	16.17	151.07	121.97
1	J	372	THR	C-N-CA	16.17	151.07	121.97
1	E	229	ASP	CA-CB-CG	16.14	128.74	112.60
1	H	285	ARG	NE-CZ-NH1	16.14	137.64	121.50
1	A	181	VAL	N-CA-C	16.14	125.91	110.42
1	G	12	MET	CA-C-N	16.14	145.11	120.75
1	G	12	MET	C-N-CA	16.14	145.11	120.75
1	N	14	ARG	CD-NE-CZ	16.10	146.94	124.40
1	G	339	HIS	CA-CB-CG	16.09	129.89	113.80
1	P	409	ARG	NE-CZ-NH1	16.09	137.59	121.50
1	A	317	ASP	CA-CB-CG	16.09	128.69	112.60
1	L	254	ILE	CA-C-O	-16.06	104.15	121.17
1	K	11	ASN	OD1-CG-ND2	-16.05	106.55	122.60
1	F	186	GLY	CA-C-N	16.03	152.16	121.54
1	F	186	GLY	C-N-CA	16.03	152.16	121.54
1	L	11	ASN	CA-CB-CG	15.97	128.57	112.60
1	H	306	ASN	CA-CB-CG	15.95	128.55	112.60
1	N	34	THR	CA-CB-OG1	15.94	133.51	109.60
1	I	129	GLN	OE1-CD-NE2	-15.94	106.66	122.60
1	B	326	ILE	O-C-N	-15.92	106.62	123.18
1	I	15	TYR	CA-C-N	15.92	148.71	121.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	15	TYR	C-N-CA	15.92	148.71	121.64
1	B	16	MET	CA-C-O	15.91	143.27	120.51
1	H	400	ILE	N-CA-C	15.88	130.91	111.05
1	M	105	ARG	NE-CZ-NH2	15.87	133.48	119.20
1	O	50	ASP	O-C-N	-15.84	103.76	123.24
1	I	223	MET	O-C-N	-15.83	107.54	121.31
1	K	205	ASP	CA-CB-CG	15.83	128.43	112.60
1	H	355	ILE	N-CA-C	15.82	126.68	110.23
1	N	300	GLY	O-C-N	-15.80	110.07	122.71
1	E	87	LYS	O-C-N	15.80	141.70	122.27
1	K	114	ASN	CA-CB-CG	15.80	128.40	112.60
1	J	79	ILE	CA-C-O	-15.76	102.72	119.89
1	D	20	ALA	O-C-N	15.75	140.10	122.15
1	D	246	MET	O-C-N	-15.72	103.82	122.22
1	K	313	GLN	OE1-CD-NE2	-15.72	106.88	122.60
1	N	324	ARG	CA-C-O	-15.71	104.20	120.54
1	P	309	ASP	CA-CB-CG	15.69	128.29	112.60
1	L	8	LEU	O-C-N	15.69	138.42	121.94
1	C	428	LEU	CA-C-O	-15.67	104.10	120.71
1	A	153	ILE	CA-C-O	15.67	137.35	121.05
1	B	165	LYS	CA-C-O	15.66	137.45	121.00
1	B	317	ASP	CA-CB-CG	15.66	128.26	112.60
1	A	285	ARG	NE-CZ-NH1	15.64	137.14	121.50
1	C	394	ARG	NE-CZ-NH1	15.64	137.14	121.50
1	B	425	ASN	CA-CB-CG	15.62	128.22	112.60
1	D	291	ASP	CA-C-N	15.60	141.60	120.54
1	D	291	ASP	C-N-CA	15.60	141.60	120.54
1	K	314	ASP	CA-CB-CG	15.59	128.19	112.60
1	A	114	ASN	CA-CB-CG	15.58	128.18	112.60
1	H	14	ARG	NE-CZ-NH1	15.57	137.07	121.50
1	E	374	GLU	O-C-N	-15.56	103.67	122.34
1	K	376	GLY	N-CA-C	15.55	131.66	114.40
1	P	105	ARG	NE-CZ-NH2	15.54	133.19	119.20
1	D	377	ARG	CA-C-O	-15.51	102.97	121.28
1	F	372	THR	CA-C-N	15.51	144.61	121.65
1	F	372	THR	C-N-CA	15.51	144.61	121.65
1	K	147	LYS	N-CA-C	15.51	129.81	111.82
1	G	11	ASN	CA-CB-CG	15.50	128.10	112.60
1	L	306	ASN	CA-CB-CG	15.49	128.09	112.60
1	M	16	MET	CA-C-O	-15.49	104.38	121.88
1	O	265	GLN	OE1-CD-NE2	-15.49	107.11	122.60
1	K	467	VAL	O-C-N	-15.47	106.79	123.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	285	ARG	CD-NE-CZ	15.45	146.03	124.40
1	H	432	GLU	N-CA-C	15.45	129.87	111.02
1	H	18	ARG	CD-NE-CZ	15.43	146.00	124.40
1	C	314	ASP	CA-CB-CG	15.42	128.02	112.60
1	K	227	VAL	O-C-N	-15.41	106.50	122.99
1	A	437	VAL	O-C-N	15.40	142.17	121.84
1	P	330	SER	O-C-N	-15.40	105.42	123.13
1	E	307	ILE	O-C-N	-15.35	103.39	122.57
1	H	317	ASP	CA-CB-CG	15.34	127.94	112.60
1	D	445	GLY	CA-C-N	15.34	140.83	120.28
1	D	445	GLY	C-N-CA	15.34	140.83	120.28
1	F	468	GLU	O-C-N	15.34	132.18	121.14
1	J	493	VAL	CA-C-O	-15.33	104.78	120.27
1	J	59	ASN	OD1-CG-ND2	15.32	137.92	122.60
1	B	395	GLU	CA-C-N	15.32	140.36	120.44
1	B	395	GLU	C-N-CA	15.32	140.36	120.44
1	G	191	ASP	N-CA-C	15.31	131.41	113.19
1	O	272	ALA	CA-C-N	15.31	140.85	120.65
1	O	272	ALA	C-N-CA	15.31	140.85	120.65
1	F	463	GLU	O-C-N	15.29	140.69	122.20
1	I	113	GLN	OE1-CD-NE2	15.23	137.83	122.60
1	B	188	VAL	CA-C-N	15.21	142.47	120.87
1	B	188	VAL	C-N-CA	15.21	142.47	120.87
1	I	431	ILE	N-CA-CB	15.18	129.44	110.47
1	D	495	ALA	CA-C-O	-15.17	104.56	121.40
1	C	313	GLN	CA-C-O	-15.14	104.50	120.55
1	J	112	ASP	CA-CB-CG	15.14	127.74	112.60
1	K	129	GLN	OE1-CD-NE2	15.13	137.73	122.60
1	I	495	ALA	CA-C-O	-15.11	105.37	121.38
1	D	15	TYR	CB-CG-CD2	15.10	143.44	120.80
1	M	29	ARG	NE-CZ-NH1	15.07	136.57	121.50
1	N	59	ASN	CA-CB-CG	15.04	127.64	112.60
1	I	40	GLY	CA-C-N	15.03	138.63	119.84
1	I	40	GLY	C-N-CA	15.03	138.63	119.84
1	L	375	ASP	O-C-N	-15.02	105.16	123.33
1	E	43	GLY	CA-C-O	-15.00	108.21	121.41
1	G	330	SER	CA-C-O	-14.95	104.87	120.71
1	J	133	GLU	O-C-N	-14.94	104.48	122.11
1	G	56	VAL	O-C-N	-14.93	108.55	123.03
1	K	69	SER	CA-C-N	14.91	140.47	120.50
1	K	69	SER	C-N-CA	14.91	140.47	120.50
1	M	33	GLU	O-C-N	14.90	137.91	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	306	ASN	CA-CB-CG	14.89	127.49	112.60
1	F	14	ARG	NE-CZ-NH2	-14.87	105.82	119.20
1	F	52	LEU	CA-C-N	14.87	144.99	120.91
1	F	52	LEU	C-N-CA	14.87	144.99	120.91
1	J	178	VAL	O-C-N	14.86	137.06	122.20
1	C	422	LEU	CA-C-O	-14.85	102.89	119.97
1	A	429	ASP	CA-CB-CG	14.84	127.44	112.60
1	K	286	ARG	NE-CZ-NH1	-14.82	106.68	121.50
1	A	370	GLY	O-C-N	-14.79	107.98	122.18
1	J	155	MET	N-CA-C	14.78	127.39	111.28
1	P	129	GLN	OE1-CD-NE2	-14.78	107.82	122.60
1	C	239	ILE	CA-C-N	14.76	146.38	122.32
1	C	239	ILE	C-N-CA	14.76	146.38	122.32
1	C	285	ARG	CD-NE-CZ	14.76	145.07	124.40
1	I	297	LYS	O-C-N	-14.72	105.18	122.11
1	N	29	ARG	CD-NE-CZ	14.72	145.01	124.40
1	L	151	THR	N-CA-C	14.72	130.59	111.75
1	A	335	GLU	O-C-N	-14.70	106.42	123.03
1	N	263	PHE	CA-CB-CG	14.70	128.50	113.80
1	C	178	VAL	N-CA-C	14.70	125.08	110.82
1	I	319	GLY	O-C-N	-14.69	106.38	122.54
1	O	452	ASN	OD1-CG-ND2	14.69	137.29	122.60
1	E	251	VAL	N-CA-C	14.67	125.49	110.23
1	E	147	LYS	N-CA-C	14.67	127.27	111.28
1	I	369	VAL	CA-C-O	-14.67	103.50	120.96
1	I	273	GLN	N-CA-C	14.66	126.76	111.07
1	F	9	PRO	CB-CA-C	-14.65	93.73	111.46
1	L	379	VAL	CA-CB-CG1	14.65	135.31	110.40
1	E	59	ASN	CA-CB-CG	14.65	127.25	112.60
1	O	187	LYS	O-C-N	-14.64	103.12	122.59
1	K	372	THR	CA-C-O	-14.63	102.44	119.56
1	L	121	VAL	CA-C-N	14.62	144.00	120.60
1	L	121	VAL	C-N-CA	14.62	144.00	120.60
1	D	158	ILE	O-C-N	14.62	136.96	122.05
1	I	455	THR	O-C-N	14.62	137.61	122.12
1	L	27	ALA	CA-C-O	-14.61	105.48	120.82
1	A	69	SER	CA-C-N	14.61	140.65	120.49
1	A	69	SER	C-N-CA	14.61	140.65	120.49
1	A	316	GLY	O-C-N	-14.57	108.51	122.79
1	M	88	GLU	CA-C-N	14.56	141.10	120.42
1	M	88	GLU	C-N-CA	14.56	141.10	120.42
1	C	229	ASP	O-C-N	-14.56	105.46	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	229	ASP	CA-CB-CG	14.55	127.15	112.60
1	J	114	ASN	CA-CB-CG	14.55	127.15	112.60
1	A	437	VAL	CA-C-O	-14.54	105.15	120.71
1	P	335	GLU	CA-C-N	14.54	143.01	122.36
1	P	335	GLU	C-N-CA	14.54	143.01	122.36
1	D	324	ARG	NE-CZ-NH1	-14.54	106.96	121.50
1	G	229	ASP	CA-CB-CG	14.54	127.14	112.60
1	C	97	VAL	N-CA-C	14.53	124.39	110.30
1	L	113	GLN	CA-C-N	14.53	149.29	121.54
1	L	113	GLN	C-N-CA	14.53	149.29	121.54
1	K	11	ASN	CA-CB-CG	14.50	127.10	112.60
1	L	54	ASP	CA-CB-CG	14.50	127.10	112.60
1	K	204	ASP	CA-CB-CG	14.50	127.10	112.60
1	F	72	HIS	CB-CG-ND1	14.49	144.44	122.70
1	F	420	ARG	NE-CZ-NH1	-14.49	107.01	121.50
1	M	400	ILE	CA-C-N	14.49	149.22	121.54
1	M	400	ILE	C-N-CA	14.49	149.22	121.54
1	L	495	ALA	CA-C-N	14.48	146.19	122.73
1	L	495	ALA	C-N-CA	14.48	146.19	122.73
1	J	395	GLU	O-C-N	-14.47	103.34	122.59
1	E	341	LYS	CA-C-N	14.46	143.98	121.72
1	E	341	LYS	C-N-CA	14.46	143.98	121.72
1	D	461	MET	O-C-N	14.45	137.43	122.12
1	B	40	GLY	O-C-N	14.44	136.21	121.77
1	P	471	ARG	NE-CZ-NH2	-14.44	106.21	119.20
1	D	175	VAL	O-C-N	14.43	136.05	121.91
1	K	426	ALA	CA-C-O	-14.43	104.04	120.20
1	P	256	ALA	CA-C-O	-14.43	105.25	120.55
1	D	236	ASN	CA-C-N	14.42	141.94	122.77
1	D	236	ASN	C-N-CA	14.42	141.94	122.77
1	C	327	SER	CA-C-N	14.41	145.84	120.77
1	C	327	SER	C-N-CA	14.41	145.84	120.77
1	G	431	ILE	CA-C-O	14.40	135.98	120.57
1	O	348	ARG	NE-CZ-NH2	14.40	132.16	119.20
1	G	18	ARG	NE-CZ-NH2	14.39	132.15	119.20
1	M	313	GLN	OE1-CD-NE2	-14.37	108.23	122.60
1	C	495	ALA	CA-C-N	14.34	148.92	121.54
1	C	495	ALA	C-N-CA	14.34	148.92	121.54
1	P	91	ASP	CA-CB-CG	14.31	126.91	112.60
1	K	88	GLU	CA-C-O	-14.30	104.98	120.71
1	K	239	ILE	CA-C-N	14.30	143.43	122.41
1	K	239	ILE	C-N-CA	14.30	143.43	122.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	44	MET	O-C-N	14.30	139.92	123.19
1	K	184	ASP	CA-CB-CG	14.30	126.90	112.60
1	D	188	VAL	N-CA-C	14.30	129.34	106.32
1	B	189	ASP	O-C-N	-14.28	105.47	122.89
1	G	66	ARG	NE-CZ-NH1	-14.28	107.22	121.50
1	N	115	VAL	O-C-N	-14.27	107.39	122.66
1	A	378	ILE	CA-C-O	-14.27	105.55	120.39
1	L	400	ILE	N-CA-C	14.26	124.11	110.42
1	P	487	LEU	CA-C-N	14.24	140.78	120.28
1	P	487	LEU	C-N-CA	14.24	140.78	120.28
1	C	454	PHE	CA-C-O	-14.23	103.33	119.41
1	P	98	VAL	O-C-N	14.23	137.33	121.96
1	A	116	HIS	CA-CB-CG	14.23	128.03	113.80
1	B	286	ARG	NE-CZ-NH2	14.22	132.00	119.20
1	B	86	GLU	N-CA-CB	14.21	132.18	110.30
1	I	444	ASN	OD1-CG-ND2	14.21	136.81	122.60
1	P	12	MET	CA-CB-CG	14.21	142.51	114.10
1	G	467	VAL	O-C-N	-14.20	106.50	122.69
1	F	57	VAL	CA-C-O	-14.19	105.34	120.53
1	F	188	VAL	O-C-N	-14.18	108.17	123.20
1	A	72	HIS	CB-CG-CD2	-14.18	112.77	131.20
1	D	154	ALA	N-CA-C	14.16	128.46	111.33
1	B	214	VAL	O-C-N	-14.15	108.96	122.12
1	P	312	ALA	CA-C-N	14.14	148.55	121.54
1	P	312	ALA	C-N-CA	14.14	148.55	121.54
1	K	248	LYS	N-CA-C	14.14	129.79	112.54
1	E	236	ASN	OD1-CG-ND2	-14.14	108.46	122.60
1	L	146	ASP	CA-C-O	-14.14	105.47	121.87
1	G	420	ARG	NE-CZ-NH2	14.13	131.91	119.20
1	A	471	ARG	NE-CZ-NH2	14.13	131.91	119.20
1	M	270	ASP	CA-CB-CG	14.11	126.71	112.60
1	O	341	LYS	CA-C-N	14.11	145.01	121.87
1	O	341	LYS	C-N-CA	14.11	145.01	121.87
1	M	146	ASP	CA-CB-CG	14.10	126.69	112.60
1	P	60	ASP	CA-CB-CG	14.09	126.69	112.60
1	I	421	THR	N-CA-CB	14.06	130.89	109.94
1	J	130	LYS	O-C-N	14.06	138.18	122.15
1	L	229	ASP	CA-CB-CG	14.04	126.64	112.60
1	N	209	ILE	O-C-N	-14.04	106.91	122.64
1	D	12	MET	CA-C-O	-14.04	105.66	120.96
1	M	425	ASN	O-C-N	14.03	141.09	122.43
1	D	189	ASP	CA-CB-CG	14.02	126.62	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	140	CYS	O-C-N	-14.01	106.38	123.05
1	P	469	PRO	O-C-N	-14.01	103.73	122.64
1	A	58	THR	CA-C-N	14.01	141.18	121.71
1	A	58	THR	C-N-CA	14.01	141.18	121.71
1	B	312	ALA	CA-C-N	14.01	146.91	121.70
1	B	312	ALA	C-N-CA	14.01	146.91	121.70
1	B	350	THR	CA-CB-CG2	14.00	134.31	110.50
1	D	181	VAL	N-CA-C	14.00	126.42	111.58
1	G	225	LYS	N-CA-CB	13.99	128.08	110.45
1	K	270	ASP	CA-CB-CG	13.99	126.59	112.60
1	F	116	HIS	ND1-CE1-NE2	13.98	122.38	108.40
1	F	486	MET	CA-C-O	-13.98	106.30	120.70
1	B	433	ILE	N-CA-C	13.97	124.87	110.62
1	I	60	ASP	CA-CB-CG	13.96	126.56	112.60
1	O	439	ALA	CA-C-N	13.96	140.11	120.29
1	O	439	ALA	C-N-CA	13.96	140.11	120.29
1	P	97	VAL	CB-CA-C	13.95	124.69	111.44
1	H	353	HIS	CA-CB-CG	13.94	127.74	113.80
1	F	488	LEU	CA-C-O	-13.94	105.63	120.55
1	B	116	HIS	CA-CB-CG	13.94	127.74	113.80
1	M	11	ASN	OD1-CG-ND2	-13.94	108.67	122.60
1	E	306	ASN	OD1-CG-ND2	-13.93	108.67	122.60
1	M	59	ASN	CA-CB-CG	13.93	126.53	112.60
1	I	11	ASN	CA-CB-CG	13.93	126.53	112.60
1	C	420	ARG	NE-CZ-NH1	-13.92	107.58	121.50
1	A	12	MET	CA-C-N	13.90	140.45	120.71
1	A	12	MET	C-N-CA	13.90	140.45	120.71
1	C	302	ASN	OD1-CG-ND2	-13.90	108.70	122.60
1	J	98	VAL	N-CA-CB	13.90	128.37	110.57
1	E	127	ALA	N-CA-C	13.89	129.68	113.01
1	G	474	THR	CA-C-N	13.89	140.02	120.29
1	G	474	THR	C-N-CA	13.89	140.02	120.29
1	M	295	LEU	CA-C-N	13.89	140.02	120.29
1	M	295	LEU	C-N-CA	13.89	140.02	120.29
1	G	260	ASN	CA-CB-CG	13.88	126.48	112.60
1	A	324	ARG	CA-C-O	-13.88	106.11	120.54
1	G	57	VAL	CA-C-O	-13.88	104.41	120.65
1	M	313	GLN	CB-CG-CD	13.87	136.19	112.60
1	F	28	GLY	CA-C-N	13.87	140.26	120.28
1	F	28	GLY	C-N-CA	13.87	140.26	120.28
1	K	375	ASP	O-C-N	-13.87	107.04	123.27
1	J	377	ARG	NH1-CZ-NH2	13.87	137.32	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	69	SER	CA-C-N	13.86	139.83	120.98
1	N	69	SER	C-N-CA	13.86	139.83	120.98
1	G	317	ASP	CA-CB-CG	13.84	126.44	112.60
1	H	220	SER	CA-C-O	-13.83	104.96	121.28
1	G	50	ASP	N-CA-C	13.82	130.96	109.81
1	P	133	GLU	CA-C-N	13.82	143.29	122.56
1	P	133	GLU	C-N-CA	13.82	143.29	122.56
1	B	220	SER	CA-C-O	13.81	136.44	120.69
1	J	183	ASP	CA-CB-CG	13.80	126.41	112.60
1	F	66	ARG	N-CA-C	13.79	125.83	111.07
1	L	91	ASP	CA-CB-CG	13.79	126.39	112.60
1	I	359	ALA	N-CA-CB	13.79	130.01	110.01
1	C	444	ASN	N-CA-C	13.78	126.33	111.03
1	D	286	ARG	CD-NE-CZ	13.78	143.70	124.40
1	I	494	ILE	CA-C-O	-13.78	105.87	120.48
1	G	144	ALA	N-CA-C	13.77	127.82	111.02
1	B	56	VAL	O-C-N	-13.75	109.69	123.03
1	E	317	ASP	CA-CB-CG	13.75	126.35	112.60
1	G	471	ARG	NE-CZ-NH1	-13.74	107.75	121.50
1	A	354	VAL	N-CA-CB	13.74	127.65	110.47
1	I	338	LYS	O-C-N	-13.74	105.54	122.17
1	O	55	VAL	N-CA-C	13.73	128.15	107.15
1	D	218	ARG	CD-NE-CZ	13.72	143.61	124.40
1	G	60	ASP	CA-CB-CG	13.67	126.27	112.60
1	J	34	THR	CA-CB-OG1	13.67	130.10	109.60
1	P	425	ASN	CA-C-O	13.67	135.39	120.63
1	C	339	HIS	CA-C-O	-13.67	107.65	121.32
1	K	403	ARG	NE-CZ-NH2	-13.66	106.90	119.20
1	H	60	ASP	O-C-N	-13.66	106.79	123.05
1	O	188	VAL	N-CA-C	13.66	127.69	107.75
1	C	232	ILE	O-C-N	-13.65	107.66	122.81
1	K	24	ASN	OD1-CG-ND2	13.64	136.24	122.60
1	D	309	ASP	CA-CB-CG	13.64	126.24	112.60
1	P	65	LEU	CA-C-O	13.63	135.50	120.10
1	P	216	LYS	CA-C-O	-13.63	105.64	120.36
1	A	464	ASN	CA-C-O	-13.62	106.70	121.00
1	P	45	ASP	CA-CB-CG	-13.61	98.99	112.60
1	L	269	ASP	CA-C-O	-13.61	105.16	120.54
1	O	466	VAL	N-CA-C	13.61	120.77	106.21
1	F	105	ARG	NE-CZ-NH1	-13.60	107.90	121.50
1	E	140	CYS	O-C-N	-13.60	105.41	122.68
1	K	120	VAL	CA-C-O	13.59	135.11	120.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	420	ARG	NE-CZ-NH1	-13.59	107.92	121.50
1	A	147	LYS	N-CA-C	13.58	127.33	111.71
1	L	276	LEU	CA-C-N	13.58	143.40	120.72
1	L	276	LEU	C-N-CA	13.58	143.40	120.72
1	N	297	LYS	N-CA-CB	13.56	130.27	110.47
1	E	236	ASN	CA-C-N	13.56	141.43	122.72
1	E	236	ASN	C-N-CA	13.56	141.43	122.72
1	I	260	ASN	CA-CB-CG	13.55	126.15	112.60
1	L	105	ARG	NE-CZ-NH2	13.55	131.39	119.20
1	A	309	ASP	CA-C-O	-13.54	104.49	118.97
1	J	40	GLY	O-C-N	13.54	135.31	121.77
1	L	464	ASN	CA-C-O	-13.54	106.06	120.55
1	B	50	ASP	CA-CB-CG	13.53	126.13	112.60
1	F	305	THR	O-C-N	-13.53	105.80	122.17
1	G	400	ILE	N-CA-C	13.53	128.00	111.09
1	O	11	ASN	CA-CB-CG	13.51	126.11	112.60
1	F	306	ASN	CA-CB-CG	13.51	126.11	112.60
1	M	116	HIS	CA-CB-CG	13.51	127.31	113.80
1	F	471	ARG	NE-CZ-NH2	13.50	131.35	119.20
1	H	394	ARG	NE-CZ-NH1	13.48	134.99	121.50
1	J	335	GLU	CA-C-N	13.48	141.51	122.36
1	J	335	GLU	C-N-CA	13.48	141.51	122.36
1	B	431	ILE	N-CA-CB	13.48	127.32	110.47
1	K	115	VAL	N-CA-CB	13.47	125.98	110.49
1	D	112	ASP	CA-C-N	13.47	142.70	123.04
1	D	112	ASP	C-N-CA	13.47	142.70	123.04
1	K	221	ALA	CA-C-N	13.46	143.60	120.58
1	K	221	ALA	C-N-CA	13.46	143.60	120.58
1	K	113	GLN	N-CA-C	13.46	129.84	112.34
1	B	310	LEU	CA-C-O	-13.46	106.91	121.44
1	H	438	ARG	NE-CZ-NH1	13.45	134.95	121.50
1	O	285	ARG	CD-NE-CZ	13.45	143.23	124.40
1	I	112	ASP	CA-CB-CG	13.45	126.05	112.60
1	J	349	GLY	CA-C-N	13.45	141.06	120.89
1	J	349	GLY	C-N-CA	13.45	141.06	120.89
1	C	455	THR	CA-C-O	-13.45	104.22	119.41
1	I	495	ALA	O-C-N	-13.45	109.14	123.26
1	J	136	LYS	N-CA-C	13.45	129.15	113.01
1	P	421	THR	O-C-N	13.44	136.37	122.12
1	P	21	GLN	OE1-CD-NE2	13.44	136.03	122.60
1	M	142	VAL	O-C-N	-13.43	108.56	123.07
1	I	42	LYS	CA-C-N	-13.42	108.48	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	42	LYS	C-N-CA	-13.42	108.48	122.30
1	I	55	VAL	CA-C-O	-13.42	106.30	120.39
1	M	11	ASN	O-C-N	-13.41	104.75	122.59
1	N	55	VAL	N-CA-C	13.41	125.99	106.55
1	P	115	VAL	N-CA-CB	13.41	126.94	111.39
1	M	448	CYS	O-C-N	-13.41	107.71	123.13
1	C	208	LEU	CA-C-O	-13.40	106.38	121.39
1	D	485	GLU	N-CA-CB	13.40	129.47	109.91
1	F	307	ILE	CA-C-O	-13.39	106.96	121.29
1	H	361	ALA	CA-C-N	13.39	146.07	121.97
1	H	361	ALA	C-N-CA	13.39	146.07	121.97
1	O	340	PRO	O-C-N	-13.38	113.23	122.73
1	L	88	GLU	CA-C-N	13.38	137.05	120.72
1	L	88	GLU	C-N-CA	13.38	137.05	120.72
1	J	182	VAL	CB-CA-C	-13.38	97.62	111.80
1	J	359	ALA	CA-C-O	-13.36	104.02	119.79
1	K	259	ALA	CA-C-N	13.36	145.17	121.66
1	K	259	ALA	C-N-CA	13.36	145.17	121.66
1	H	187	LYS	CA-C-O	-13.35	106.24	121.06
1	P	464	ASN	CA-C-N	13.35	147.58	121.41
1	P	464	ASN	C-N-CA	13.35	147.58	121.41
1	P	418	ILE	N-CA-CB	13.35	120.86	110.45
1	G	271	LEU	O-C-N	-13.32	108.23	122.09
1	G	221	ALA	CA-C-O	-13.31	104.03	119.60
1	K	270	ASP	N-CA-C	13.31	129.00	112.23
1	P	109	GLU	O-C-N	13.31	137.79	122.22
1	C	29	ARG	CA-C-O	-13.31	106.31	120.42
1	N	420	ARG	NE-CZ-NH1	-13.29	108.21	121.50
1	G	29	ARG	NE-CZ-NH2	13.29	131.16	119.20
1	I	274	HIS	CA-C-N	13.29	139.26	120.79
1	I	274	HIS	C-N-CA	13.29	139.26	120.79
1	N	411	PHE	CA-CB-CG	13.29	127.09	113.80
1	O	209	ILE	O-C-N	-13.29	108.23	122.45
1	F	219	VAL	CA-C-N	13.29	140.24	122.30
1	F	219	VAL	C-N-CA	13.29	140.24	122.30
1	F	468	GLU	CA-C-O	-13.28	109.26	121.08
1	B	286	ARG	CD-NE-CZ	13.28	142.99	124.40
1	J	188	VAL	O-C-N	-13.28	109.13	123.20
1	L	127	ALA	CA-C-N	13.28	139.25	120.79
1	L	127	ALA	C-N-CA	13.28	139.25	120.79
1	L	348	ARG	O-C-N	-13.27	107.61	123.27
1	J	89	VAL	N-CA-CB	13.27	122.52	111.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	147	LYS	N-CA-C	13.26	139.05	110.80
1	G	245	GLU	CB-CG-CD	13.26	135.14	112.60
1	L	57	VAL	CB-CA-C	-13.26	96.21	111.59
1	L	187	LYS	O-C-N	-13.25	107.91	123.41
1	E	363	ASP	O-C-N	-13.24	107.79	122.09
1	D	249	ASP	CA-CB-CG	13.24	125.84	112.60
1	P	493	VAL	N-CA-CB	13.24	133.07	111.23
1	O	65	LEU	CA-C-N	13.23	138.41	120.54
1	O	65	LEU	C-N-CA	13.23	138.41	120.54
1	J	305	THR	CA-C-N	13.23	140.73	120.75
1	J	305	THR	C-N-CA	13.23	140.73	120.75
1	A	105	ARG	NE-CZ-NH2	13.23	131.10	119.20
1	B	313	GLN	OE1-CD-NE2	-13.23	109.37	122.60
1	G	383	GLY	O-C-N	13.22	136.02	122.54
1	N	376	GLY	CA-C-N	13.22	140.25	120.82
1	N	376	GLY	C-N-CA	13.22	140.25	120.82
1	C	228	THR	O-C-N	-13.22	105.01	122.59
1	F	447	LYS	N-CA-C	13.21	125.76	111.36
1	C	279	GLU	O-C-N	-13.21	108.12	122.12
1	E	285	ARG	CD-NE-CZ	13.21	142.90	124.40
1	A	496	ALA	CA-C-N	13.21	145.47	121.70
1	A	496	ALA	C-N-CA	13.21	145.47	121.70
1	B	353	HIS	O-C-N	13.21	135.67	122.07
1	O	324	ARG	CA-C-O	-13.20	106.58	120.84
1	N	306	ASN	OD1-CG-ND2	-13.20	109.40	122.60
1	J	374	GLU	O-C-N	-13.19	102.87	122.39
1	H	51	ASP	CA-C-N	13.18	137.94	120.28
1	H	51	ASP	C-N-CA	13.18	137.94	120.28
1	N	121	VAL	CB-CA-C	-13.18	94.78	112.04
1	E	113	GLN	CA-C-N	13.16	149.75	126.45
1	E	113	GLN	C-N-CA	13.16	149.75	126.45
1	G	278	LYS	N-CA-C	13.16	125.62	111.28
1	N	270	ASP	CA-CB-CG	-13.16	99.44	112.60
1	O	372	THR	CA-C-O	-13.16	106.47	120.42
1	O	459	GLU	CA-C-O	-13.16	106.53	121.40
1	A	43	GLY	O-C-N	-13.16	112.15	123.60
1	F	423	ALA	O-C-N	-13.16	105.12	122.23
1	N	180	ALA	CA-C-N	13.16	145.66	121.97
1	N	180	ALA	C-N-CA	13.16	145.66	121.97
1	B	204	ASP	O-C-N	-13.15	107.87	122.34
1	I	297	LYS	N-CA-C	13.15	133.07	111.37
1	F	223	MET	O-C-N	-13.14	107.57	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	411	PHE	CA-CB-CG	13.14	126.94	113.80
1	B	56	VAL	CA-C-N	13.14	139.25	122.95
1	B	56	VAL	C-N-CA	13.14	139.25	122.95
1	O	420	ARG	NE-CZ-NH1	-13.14	108.36	121.50
1	D	352	GLU	CA-C-O	-13.14	101.72	120.51
1	H	116	HIS	CA-CB-CG	13.14	126.94	113.80
1	C	186	GLY	CA-C-N	13.13	146.63	121.54
1	C	186	GLY	C-N-CA	13.13	146.63	121.54
1	E	312	ALA	N-CA-C	13.13	126.89	112.97
1	B	438	ARG	NE-CZ-NH2	-13.13	107.39	119.20
1	I	29	ARG	CD-NE-CZ	13.12	142.77	124.40
1	K	353	HIS	CA-CB-CG	13.12	126.92	113.80
1	I	116	HIS	CA-CB-CG	-13.12	100.68	113.80
1	P	260	ASN	CA-CB-CG	13.12	125.72	112.60
1	D	317	ASP	CA-CB-CG	13.11	125.71	112.60
1	E	360	ARG	CD-NE-CZ	13.11	142.75	124.40
1	F	478	GLN	OE1-CD-NE2	-13.10	109.50	122.60
1	K	312	ALA	CA-C-N	13.10	146.57	121.54
1	K	312	ALA	C-N-CA	13.10	146.57	121.54
1	E	28	GLY	O-C-N	-13.10	107.65	122.84
1	A	189	ASP	CA-C-O	-13.09	106.12	121.05
1	L	66	ARG	NE-CZ-NH1	13.09	134.59	121.50
1	O	470	LEU	N-CA-CB	13.08	128.98	110.01
1	D	425	ASN	OD1-CG-ND2	-13.08	109.52	122.60
1	F	229	ASP	CA-C-N	13.07	139.34	120.90
1	F	229	ASP	C-N-CA	13.07	139.34	120.90
1	P	56	VAL	CA-C-O	-13.07	106.67	120.39
1	E	239	ILE	N-CA-CB	13.07	127.68	112.39
1	K	89	VAL	N-CA-C	13.06	123.60	111.45
1	A	236	ASN	OD1-CG-ND2	-13.05	109.55	122.60
1	I	188	VAL	CA-CB-CG2	13.04	132.58	110.40
1	M	20	ALA	O-C-N	13.04	137.24	122.11
1	B	187	LYS	O-C-N	-13.04	106.59	123.28
1	C	446	ASN	CA-CB-CG	13.03	125.63	112.60
1	P	14	ARG	CD-NE-CZ	13.03	142.64	124.40
1	B	148	GLU	N-CA-C	13.03	125.56	111.36
1	E	45	ASP	CA-C-O	-13.01	107.17	121.88
1	O	475	GLN	O-C-N	-13.01	108.33	122.38
1	C	439	ALA	CA-C-O	-13.01	106.63	120.42
1	J	411	PHE	CA-CB-CG	13.00	126.80	113.80
1	M	165	LYS	CB-CA-C	12.99	132.30	110.86
1	A	368	VAL	N-CA-C	12.99	129.10	111.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	489	ARG	NE-CZ-NH2	12.99	130.89	119.20
1	K	270	ASP	CA-C-O	12.99	135.11	119.79
1	L	425	ASN	CA-CB-CG	12.98	125.58	112.60
1	B	10	GLU	CB-CG-CD	12.98	134.66	112.60
1	A	11	ASN	OD1-CG-ND2	-12.97	109.63	122.60
1	M	395	GLU	O-C-N	-12.97	104.56	122.46
1	B	273	GLN	CA-C-O	12.96	134.77	120.90
1	K	95	THR	O-C-N	12.95	136.08	122.09
1	N	225	LYS	CA-C-N	12.95	146.26	121.54
1	N	225	LYS	C-N-CA	12.95	146.26	121.54
1	O	361	ALA	O-C-N	-12.94	105.08	122.43
1	N	242	THR	CA-C-O	-12.94	105.93	120.81
1	M	466	VAL	CA-C-N	12.94	139.46	122.51
1	M	466	VAL	C-N-CA	12.94	139.46	122.51
1	F	70	VAL	O-C-N	12.93	136.50	122.66
1	O	34	THR	N-CA-CB	12.93	132.34	110.49
1	G	45	ASP	CA-CB-CG	-12.92	99.68	112.60
1	N	66	ARG	NE-CZ-NH1	12.91	134.41	121.50
1	J	273	GLN	CA-C-O	-12.91	106.87	121.07
1	N	489	ARG	NE-CZ-NH1	12.90	134.40	121.50
1	H	483	SER	N-CA-C	-12.89	97.19	113.43
1	I	356	GLU	N-CA-CB	12.89	129.14	109.94
1	P	172	GLU	CA-C-O	12.88	134.35	120.82
1	H	137	THR	O-C-N	12.88	135.34	122.07
1	K	130	LYS	O-C-N	-12.88	108.70	122.09
1	L	377	ARG	CA-C-N	12.87	139.70	123.10
1	L	377	ARG	C-N-CA	12.87	139.70	123.10
1	N	19	ASP	O-C-N	-12.87	105.47	122.59
1	A	167	LYS	CA-C-N	12.87	137.91	120.54
1	A	167	LYS	C-N-CA	12.87	137.91	120.54
1	C	30	ILE	CA-C-O	-12.87	108.03	121.41
1	E	151	THR	CA-C-N	12.87	137.64	120.65
1	E	151	THR	C-N-CA	12.87	137.64	120.65
1	N	237	CYS	CB-CA-C	12.87	131.09	109.48
1	O	218	ARG	CD-NE-CZ	12.86	142.41	124.40
1	D	339	HIS	CA-CB-CG	12.86	126.66	113.80
1	O	435	VAL	N-CA-C	12.85	123.70	110.72
1	K	14	ARG	CD-NE-CZ	12.85	142.39	124.40
1	E	295	LEU	CA-C-N	12.84	137.49	120.28
1	E	295	LEU	C-N-CA	12.84	137.49	120.28
1	H	36	ARG	NE-CZ-NH2	-12.84	107.64	119.20
1	O	466	VAL	O-C-N	-12.84	111.17	121.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	61	GLY	CA-C-O	-12.84	106.35	120.09
1	G	373	ILE	N-CA-CB	12.84	124.61	110.62
1	H	229	ASP	CA-CB-CG	12.84	125.44	112.60
1	H	267	GLY	O-C-N	-12.83	112.70	122.71
1	L	431	ILE	N-CA-C	12.83	125.25	110.62
1	I	91	ASP	CA-CB-CG	12.83	125.43	112.60
1	H	276	LEU	O-C-N	-12.82	107.22	122.22
1	G	373	ILE	O-C-N	12.82	135.15	121.94
1	F	50	ASP	O-C-N	-12.80	104.64	122.94
1	M	65	LEU	O-C-N	12.78	137.95	122.48
1	B	158	ILE	CA-CB-CG2	12.78	132.23	110.50
1	M	489	ARG	CD-NE-CZ	-12.78	106.51	124.40
1	P	68	MET	CA-C-N	12.77	145.93	121.54
1	P	68	MET	C-N-CA	12.77	145.93	121.54
1	F	229	ASP	N-CA-CB	12.76	128.95	110.58
1	O	307	ILE	N-CA-C	12.75	122.66	110.42
1	L	393	LEU	CA-C-N	12.75	137.01	120.44
1	L	393	LEU	C-N-CA	12.75	137.01	120.44
1	E	188	VAL	O-C-N	-12.74	109.31	123.07
1	I	222	GLN	CA-C-O	-12.74	103.51	119.31
1	F	70	VAL	CA-C-O	-12.74	105.31	120.98
1	F	400	ILE	N-CA-C	12.74	122.39	110.42
1	N	138	ILE	CA-C-O	-12.74	107.67	121.17
1	O	43	GLY	O-C-N	12.74	134.72	123.25
1	B	429	ASP	CA-C-O	12.74	135.21	120.69
1	J	484	THR	N-CA-CB	12.73	128.37	110.67
1	P	64	ILE	N-CA-CB	12.73	123.99	110.62
1	P	155	MET	N-CA-CB	12.73	129.17	110.20
1	B	219	VAL	O-C-N	12.73	138.48	122.57
1	F	495	ALA	CA-C-O	-12.72	106.55	121.44
1	F	374	GLU	CB-CG-CD	12.72	134.22	112.60
1	G	466	VAL	CA-C-N	12.72	143.11	122.64
1	G	466	VAL	C-N-CA	12.72	143.11	122.64
1	F	116	HIS	CA-CB-CG	12.70	126.50	113.80
1	J	283	ALA	O-C-N	-12.70	108.55	123.41
1	G	363	ASP	CA-CB-CG	12.70	125.30	112.60
1	P	420	ARG	CA-C-O	-12.70	107.49	120.82
1	O	355	ILE	O-C-N	-12.69	106.70	122.57
1	F	67	GLU	N-CA-C	12.69	124.65	111.07
1	H	323	GLU	CA-C-N	12.68	139.32	122.84
1	H	323	GLU	C-N-CA	12.68	139.32	122.84
1	O	441	HIS	CA-CB-CG	12.68	126.48	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	378	ILE	O-C-N	-12.68	109.43	123.00
1	D	29	ARG	CA-C-O	-12.67	104.66	119.61
1	K	11	ASN	CB-CG-OD1	12.67	146.15	120.80
1	L	253	GLU	CA-C-O	12.67	133.73	119.41
1	C	218	ARG	NE-CZ-NH2	12.67	130.60	119.20
1	L	43	GLY	CA-C-N	12.66	141.29	122.93
1	L	43	GLY	C-N-CA	12.66	141.29	122.93
1	M	457	ALA	CA-C-O	-12.65	107.09	121.26
1	A	142	VAL	O-C-N	-12.65	106.76	122.57
1	D	10	GLU	CA-CB-CG	12.64	139.38	114.10
1	G	427	GLY	CA-C-O	-12.64	104.62	119.03
1	I	495	ALA	N-CA-C	12.64	127.06	108.60
1	A	35	VAL	CA-C-O	-12.64	104.98	120.78
1	I	379	VAL	CB-CA-C	12.63	126.61	111.32
1	M	187	LYS	CA-C-O	-12.64	105.52	120.43
1	K	153	ILE	CA-C-N	12.63	137.33	120.65
1	K	153	ILE	C-N-CA	12.63	137.33	120.65
1	G	65	LEU	CA-C-O	-12.63	104.78	119.56
1	O	323	GLU	CA-C-O	-12.63	106.88	121.66
1	H	411	PHE	CA-CB-CG	12.62	126.42	113.80
1	O	11	ASN	CA-C-O	-12.62	102.46	120.51
1	P	495	ALA	CA-C-O	-12.62	106.30	121.56
1	D	60	ASP	CA-CB-CG	12.61	125.21	112.60
1	K	452	ASN	O-C-N	-12.61	107.36	122.87
1	K	198	LYS	O-C-N	-12.61	104.91	122.81
1	J	441	HIS	ND1-CE1-NE2	12.60	121.00	108.40
1	O	62	VAL	N-CA-CB	12.60	125.29	110.55
1	F	432	GLU	CB-CG-CD	12.59	134.01	112.60
1	P	40	GLY	CA-C-N	12.59	135.58	119.84
1	P	40	GLY	C-N-CA	12.59	135.58	119.84
1	P	310	LEU	CA-C-O	-12.59	108.02	121.87
1	G	464	ASN	OD1-CG-ND2	12.59	135.19	122.60
1	I	73	PRO	CA-C-N	12.59	137.75	120.63
1	I	73	PRO	C-N-CA	12.59	137.75	120.63
1	J	72	HIS	CA-CB-CG	-12.58	101.22	113.80
1	H	288	LYS	CA-C-O	-12.58	107.86	121.44
1	I	214	VAL	CA-C-N	-12.57	106.19	123.03
1	I	214	VAL	C-N-CA	-12.57	106.19	123.03
1	D	245	GLU	CB-CG-CD	12.56	133.96	112.60
1	D	302	ASN	CA-C-O	12.56	133.56	120.24
1	P	275	TYR	N-CA-C	12.56	124.66	110.97
1	F	260	ASN	CA-CB-CG	12.55	125.15	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	8	LEU	CA-C-N	12.55	135.52	119.84
1	G	8	LEU	C-N-CA	12.55	135.52	119.84
1	N	66	ARG	NH1-CZ-NH2	-12.55	102.99	119.30
1	L	400	ILE	N-CA-CB	12.54	125.22	110.55
1	H	409	ARG	NE-CZ-NH2	-12.54	107.92	119.20
1	G	29	ARG	CD-NE-CZ	12.53	141.95	124.40
1	F	359	ALA	CA-C-N	12.53	138.21	120.79
1	F	359	ALA	C-N-CA	12.53	138.21	120.79
1	P	400	ILE	N-CA-CB	12.53	124.81	110.65
1	A	218	ARG	CD-NE-CZ	12.53	141.94	124.40
1	P	116	HIS	CA-CB-CG	-12.53	101.27	113.80
1	J	430	ALA	N-CA-C	12.53	137.48	110.80
1	O	430	ALA	N-CA-C	12.51	126.28	111.02
1	D	15	TYR	CA-C-N	12.49	145.64	122.02
1	D	15	TYR	C-N-CA	12.49	145.64	122.02
1	N	105	ARG	NE-CZ-NH1	-12.49	109.00	121.50
1	O	441	HIS	CB-CA-C	12.49	130.64	110.90
1	C	355	ILE	N-CA-C	12.49	122.27	110.53
1	D	89	VAL	N-CA-CB	12.48	124.75	110.65
1	E	145	GLN	CA-C-N	12.47	141.09	121.26
1	E	145	GLN	C-N-CA	12.47	141.09	121.26
1	L	420	ARG	CA-C-O	-12.47	107.86	120.70
1	M	214	VAL	O-C-N	-12.47	106.98	122.57
1	A	353	HIS	O-C-N	12.46	134.91	122.07
1	M	140	CYS	O-C-N	-12.46	108.47	122.55
1	L	60	ASP	CA-CB-CG	12.45	125.05	112.60
1	O	221	ALA	CA-C-O	-12.44	106.04	120.10
1	N	249	ASP	CA-CB-CG	12.44	125.04	112.60
1	H	374	GLU	CA-C-N	12.43	140.53	121.76
1	H	374	GLU	C-N-CA	12.43	140.53	121.76
1	F	12	MET	CA-C-N	12.43	140.15	123.00
1	F	12	MET	C-N-CA	12.43	140.15	123.00
1	A	58	THR	O-C-N	-12.42	109.32	123.48
1	D	401	SER	CA-C-N	12.41	145.73	121.41
1	D	401	SER	C-N-CA	12.41	145.73	121.41
1	O	55	VAL	O-C-N	-12.41	108.10	122.62
1	G	373	ILE	CA-C-O	-12.40	108.02	121.29
1	I	326	ILE	O-C-N	-12.40	109.83	123.10
1	K	12	MET	CA-C-O	-12.40	102.78	120.51
1	P	242	THR	CA-CB-CG2	12.39	131.57	110.50
1	C	11	ASN	OD1-CG-ND2	-12.39	110.21	122.60
1	F	72	HIS	CB-CG-CD2	-12.38	115.10	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	14	ARG	CA-C-N	12.38	142.94	122.76
1	M	14	ARG	C-N-CA	12.38	142.94	122.76
1	K	55	VAL	CA-C-N	12.38	139.36	123.14
1	K	55	VAL	C-N-CA	12.38	139.36	123.14
1	A	314	ASP	CA-CB-CG	12.38	124.98	112.60
1	E	60	ASP	O-C-N	-12.38	108.21	123.06
1	J	296	ALA	N-CA-C	12.38	124.77	111.28
1	F	217	GLU	O-C-N	-12.37	109.08	122.94
1	G	329	ASP	O-C-N	-12.37	110.45	123.56
1	C	443	SER	CA-C-O	-12.37	105.34	119.81
1	H	314	ASP	CA-CB-CG	12.37	124.97	112.60
1	N	309	ASP	CA-CB-CG	12.36	124.96	112.60
1	N	12	MET	O-C-N	-12.36	105.68	122.48
1	C	379	VAL	N-CA-C	12.35	127.00	107.73
1	K	378	ILE	CA-C-O	-12.35	109.10	121.45
1	I	212	VAL	CA-C-O	12.35	132.75	120.27
1	K	149	ILE	N-CA-C	12.34	129.66	111.89
1	G	236	ASN	N-CA-CB	12.34	129.64	110.14
1	O	486	MET	O-C-N	-12.34	106.18	122.59
1	N	55	VAL	CA-C-O	-12.33	108.63	121.70
1	D	105	ARG	NE-CZ-NH2	12.33	130.30	119.20
1	O	116	HIS	ND1-CE1-NE2	-12.33	96.07	108.40
1	F	108	GLU	CA-C-O	-12.33	107.48	120.55
1	G	16	MET	CA-C-O	-12.33	107.47	121.40
1	C	338	LYS	O-C-N	12.33	134.77	122.07
1	J	40	GLY	CA-C-O	-12.32	103.89	121.52
1	C	58	THR	N-CA-C	12.32	128.23	108.76
1	L	189	ASP	CA-C-O	12.32	135.09	121.05
1	B	10	GLU	CA-CB-CG	12.31	138.73	114.10
1	E	114	ASN	CB-CG-ND2	12.31	134.87	116.40
1	L	115	VAL	N-CA-CB	12.31	126.63	110.13
1	J	49	VAL	CA-C-O	-12.31	108.23	121.28
1	B	60	ASP	CA-C-N	12.31	133.35	119.94
1	B	60	ASP	C-N-CA	12.31	133.35	119.94
1	M	417	VAL	N-CA-C	12.31	123.03	110.23
1	C	66	ARG	NH1-CZ-NH2	12.30	135.29	119.30
1	G	177	ALA	CA-C-O	12.30	134.31	119.79
1	D	312	ALA	CA-C-N	12.30	145.03	121.54
1	D	312	ALA	C-N-CA	12.30	145.03	121.54
1	E	178	VAL	N-CA-C	12.30	124.62	111.58
1	F	132	GLN	OE1-CD-NE2	12.29	134.90	122.60
1	G	91	ASP	CA-CB-CG	12.29	124.89	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	471	ARG	NE-CZ-NH2	12.29	130.26	119.20
1	P	12	MET	CA-C-O	-12.29	107.58	121.84
1	B	468	GLU	CA-C-N	12.29	133.87	120.11
1	B	468	GLU	C-N-CA	12.29	133.87	120.11
1	D	461	MET	CA-C-O	-12.29	107.36	120.63
1	E	363	ASP	CA-C-N	12.28	137.21	120.38
1	E	363	ASP	C-N-CA	12.28	137.21	120.38
1	N	16	MET	O-C-N	-12.28	108.55	122.92
1	A	125	GLN	OE1-CD-NE2	12.28	134.88	122.60
1	N	229	ASP	CA-CB-CG	12.28	124.88	112.60
1	O	282	VAL	O-C-N	12.28	133.45	122.65
1	A	265	GLN	OE1-CD-NE2	-12.27	110.33	122.60
1	E	219	VAL	CA-C-N	12.27	138.97	121.42
1	E	219	VAL	C-N-CA	12.27	138.97	121.42
1	L	285	ARG	CD-NE-CZ	12.27	141.57	124.40
1	E	260	ASN	CA-CB-CG	12.26	124.86	112.60
1	E	202	SER	O-C-N	-12.26	106.28	122.59
1	G	306	ASN	OD1-CG-ND2	-12.26	110.34	122.60
1	A	51	ASP	CA-C-N	12.26	141.19	120.72
1	A	51	ASP	C-N-CA	12.26	141.19	120.72
1	B	360	ARG	NE-CZ-NH2	-12.26	108.17	119.20
1	P	348	ARG	NE-CZ-NH1	-12.25	109.25	121.50
1	D	15	TYR	CG-CD1-CE1	12.25	139.57	121.20
1	F	21	GLN	OE1-CD-NE2	12.24	134.84	122.60
1	I	52	LEU	CA-C-N	12.24	140.12	121.51
1	I	52	LEU	C-N-CA	12.24	140.12	121.51
1	P	314	ASP	CA-CB-CG	12.24	124.84	112.60
1	H	496	ALA	O-C-N	-12.24	106.31	122.59
1	E	495	ALA	CA-C-O	-12.23	108.39	121.36
1	M	215	ASP	CA-CB-CG	12.23	124.83	112.60
1	K	191	ASP	O-C-N	-12.23	107.91	122.22
1	E	15	TYR	CA-C-N	12.22	142.00	122.81
1	E	15	TYR	C-N-CA	12.22	142.00	122.81
1	J	31	ILE	CB-CA-C	12.22	131.34	111.29
1	L	285	ARG	CA-C-N	12.22	144.88	121.54
1	L	285	ARG	C-N-CA	12.22	144.88	121.54
1	L	370	GLY	CA-C-O	-12.22	105.23	119.65
1	M	11	ASN	CA-CB-CG	12.21	124.81	112.60
1	A	291	ASP	CA-C-N	12.21	137.86	120.28
1	A	291	ASP	C-N-CA	12.21	137.86	120.28
1	E	290	SER	CA-C-N	12.21	136.64	120.28
1	E	290	SER	C-N-CA	12.21	136.64	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	361	ALA	CA-C-N	12.20	135.77	120.88
1	O	361	ALA	C-N-CA	12.20	135.77	120.88
1	B	16	MET	O-C-N	-12.20	106.36	122.59
1	L	350	THR	N-CA-C	12.20	136.79	110.80
1	P	257	SER	O-C-N	-12.20	107.71	122.11
1	C	221	ALA	CA-C-O	-12.20	105.12	120.00
1	C	56	VAL	N-CA-CB	-12.20	96.48	112.34
1	N	40	GLY	CA-C-N	12.20	132.56	119.87
1	N	40	GLY	C-N-CA	12.20	132.56	119.87
1	L	290	SER	O-C-N	12.20	135.20	122.03
1	G	379	VAL	N-CA-C	12.20	125.68	108.12
1	P	306	ASN	OD1-CG-ND2	-12.19	110.41	122.60
1	N	11	ASN	N-CA-CB	12.18	131.08	110.49
1	I	441	HIS	CA-C-O	12.18	133.33	120.42
1	B	306	ASN	CA-CB-CG	12.18	124.78	112.60
1	O	24	ASN	OD1-CG-ND2	-12.18	110.42	122.60
1	H	402	GLY	O-C-N	-12.16	106.89	122.70
1	I	174	ILE	O-C-N	12.16	134.55	121.90
1	M	471	ARG	NE-CZ-NH1	-12.16	109.34	121.50
1	P	50	ASP	CA-CB-CG	12.16	124.76	112.60
1	M	195	ILE	CA-C-O	-12.16	108.20	121.09
1	N	69	SER	O-C-N	-12.16	106.42	122.59
1	A	293	GLU	N-CA-CB	12.15	128.64	110.53
1	C	116	HIS	N-CA-CB	12.15	131.99	110.37
1	N	429	ASP	CA-CB-CG	12.15	124.75	112.60
1	A	152	LYS	CA-C-N	12.14	137.65	120.53
1	A	152	LYS	C-N-CA	12.14	137.65	120.53
1	K	218	ARG	NE-CZ-NH1	12.14	133.64	121.50
1	I	70	VAL	O-C-N	-12.13	107.40	122.57
1	O	260	ASN	CA-CB-CG	12.13	124.73	112.60
1	F	356	GLU	O-C-N	12.13	134.98	122.12
1	P	138	ILE	N-CA-C	-12.13	99.13	110.53
1	I	156	THR	N-CA-C	12.13	127.93	112.89
1	I	201	ALA	CA-C-N	12.12	139.86	122.77
1	I	201	ALA	C-N-CA	12.12	139.86	122.77
1	C	217	GLU	CA-C-N	-12.12	106.01	122.85
1	C	217	GLU	C-N-CA	-12.12	106.01	122.85
1	A	229	ASP	N-CA-CB	12.11	127.80	110.24
1	O	375	ASP	O-C-N	-12.11	109.24	123.41
1	J	164	GLU	CA-C-O	-12.11	103.84	119.10
1	D	285	ARG	NE-CZ-NH1	12.11	133.61	121.50
1	C	105	ARG	NE-CZ-NH2	12.10	130.09	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	447	LYS	CA-C-N	12.10	138.51	122.42
1	B	447	LYS	C-N-CA	12.10	138.51	122.42
1	F	463	GLU	CA-C-O	-12.10	106.86	121.02
1	J	60	ASP	CA-CB-CG	12.10	124.70	112.60
1	M	481	ALA	N-CA-C	12.09	124.46	111.28
1	H	109	GLU	O-C-N	-12.09	109.30	122.12
1	M	466	VAL	O-C-N	-12.09	107.46	122.57
1	J	492	ASP	CA-C-O	12.09	134.89	120.14
1	D	204	ASP	CA-CB-CG	12.08	124.68	112.60
1	A	60	ASP	CA-CB-CG	12.08	124.68	112.60
1	N	22	ARG	CD-NE-CZ	12.07	141.30	124.40
1	A	477	ILE	N-CA-CB	12.07	124.67	110.55
1	G	285	ARG	O-C-N	12.07	137.10	122.86
1	O	22	ARG	NE-CZ-NH2	12.07	130.06	119.20
1	A	168	GLU	O-C-N	12.06	134.64	122.09
1	N	57	VAL	CA-C-O	-12.06	108.49	120.31
1	K	22	ARG	O-C-N	-12.06	109.18	122.08
1	B	371	CYS	CA-C-O	-12.05	105.30	120.00
1	L	170	LEU	CA-C-O	12.05	133.61	120.24
1	C	278	LYS	CA-C-N	12.05	136.42	120.28
1	C	278	LYS	C-N-CA	12.05	136.42	120.28
1	G	435	VAL	O-C-N	12.04	134.03	121.87
1	C	455	THR	O-C-N	-12.03	105.27	122.36
1	E	131	ALA	N-CA-C	12.03	125.55	111.11
1	N	481	ALA	N-CA-C	12.03	124.39	111.28
1	N	244	SER	CA-C-N	12.03	138.94	120.89
1	N	244	SER	C-N-CA	12.03	138.94	120.89
1	O	112	ASP	CA-C-O	12.03	133.64	119.32
1	A	461	MET	N-CA-C	12.03	127.14	111.75
1	G	268	ILE	O-C-N	-12.03	107.54	122.57
1	L	298	ALA	CA-C-N	12.02	136.07	120.44
1	L	298	ALA	C-N-CA	12.02	136.07	120.44
1	D	12	MET	CA-C-N	12.02	144.62	122.74
1	D	12	MET	C-N-CA	12.02	144.62	122.74
1	F	360	ARG	CD-NE-CZ	12.02	141.23	124.40
1	E	59	ASN	CA-C-N	12.02	138.24	121.05
1	E	59	ASN	C-N-CA	12.02	138.24	121.05
1	K	448	CYS	CA-C-O	12.01	135.71	120.57
1	D	298	ALA	CA-C-N	12.01	144.48	121.54
1	D	298	ALA	C-N-CA	12.01	144.48	121.54
1	I	249	ASP	O-C-N	12.01	134.85	122.12
1	P	491	ASP	CA-C-O	12.01	131.26	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	245	GLU	CB-CG-CD	12.00	133.00	112.60
1	D	307	ILE	CA-C-O	-12.00	105.78	120.78
1	L	40	GLY	CA-C-N	11.99	133.38	119.47
1	L	40	GLY	C-N-CA	11.99	133.38	119.47
1	P	188	VAL	N-CA-C	11.99	123.88	106.85
1	C	375	ASP	CA-C-O	11.99	132.99	120.40
1	J	207	GLU	N-CA-C	11.99	127.98	110.59
1	J	377	ARG	NE-CZ-NH2	-11.99	108.41	119.20
1	A	217	GLU	CA-C-O	-11.98	106.98	121.36
1	K	351	THR	O-C-N	-11.98	106.78	122.72
1	O	474	THR	CA-CB-OG1	11.98	127.58	109.60
1	B	296	ALA	N-CA-C	11.96	125.70	111.82
1	B	376	GLY	N-CA-C	11.96	127.68	114.40
1	A	394	ARG	NE-CZ-NH1	11.96	133.46	121.50
1	A	282	VAL	N-CA-CB	11.95	123.56	110.53
1	P	13	LYS	O-C-N	-11.95	108.17	122.87
1	N	164	GLU	O-C-N	11.95	138.48	122.59
1	C	49	VAL	O-C-N	-11.94	109.87	123.00
1	J	352	GLU	CB-CG-CD	11.94	132.89	112.60
1	F	159	THR	CA-CB-CG2	11.93	130.78	110.50
1	D	312	ALA	N-CA-C	11.93	124.36	111.36
1	J	420	ARG	NE-CZ-NH2	11.93	129.94	119.20
1	H	247	LEU	O-C-N	-11.92	109.21	122.09
1	A	298	ALA	CA-C-N	11.92	136.65	120.44
1	A	298	ALA	C-N-CA	11.92	136.65	120.44
1	D	452	ASN	CA-CB-CG	-11.92	100.68	112.60
1	G	452	ASN	OD1-CG-ND2	-11.92	110.68	122.60
1	G	323	GLU	CA-C-O	-11.92	107.31	121.02
1	A	135	LEU	N-CA-C	11.90	123.95	110.97
1	H	384	SER	CA-C-O	-11.90	108.31	120.80
1	F	349	GLY	CA-C-O	-11.90	110.56	120.79
1	A	188	VAL	N-CA-C	11.89	124.76	108.11
1	N	418	ILE	CA-C-N	-11.89	107.50	119.87
1	N	418	ILE	C-N-CA	-11.89	107.50	119.87
1	M	181	VAL	N-CA-C	11.89	123.96	111.00
1	N	288	LYS	O-C-N	-11.89	109.63	122.94
1	C	180	ALA	CA-C-N	11.88	137.30	120.42
1	C	180	ALA	C-N-CA	11.88	137.30	120.42
1	H	321	VAL	O-C-N	11.88	137.43	122.57
1	A	78	LEU	CB-CA-C	11.88	124.49	109.16
1	E	11	ASN	CA-CB-CG	11.88	124.48	112.60
1	H	293	GLU	N-CA-C	11.87	126.87	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	137	THR	CA-CB-OG1	11.87	127.41	109.60
1	N	11	ASN	OD1-CG-ND2	11.87	134.47	122.60
1	B	364	ASP	CA-C-N	11.87	144.21	121.54
1	B	364	ASP	C-N-CA	11.87	144.21	121.54
1	K	105	ARG	NE-CZ-NH2	11.87	129.88	119.20
1	L	93	THR	O-C-N	11.86	134.37	122.03
1	O	217	GLU	N-CA-CB	-11.84	93.05	110.70
1	E	488	LEU	N-CA-C	11.84	136.02	110.80
1	E	364	ASP	CA-CB-CG	11.84	124.44	112.60
1	H	495	ALA	N-CA-C	11.84	126.77	109.14
1	K	191	ASP	N-CA-C	11.83	125.32	111.71
1	K	495	ALA	CA-C-O	-11.82	108.04	121.40
1	H	399	GLY	CA-C-N	11.81	139.14	120.47
1	H	399	GLY	C-N-CA	11.81	139.14	120.47
1	O	154	ALA	CA-C-N	11.81	137.21	120.79
1	O	154	ALA	C-N-CA	11.81	137.21	120.79
1	M	222	GLN	N-CA-C	11.81	125.28	111.11
1	A	182	VAL	N-CA-C	11.80	124.87	108.93
1	P	79	ILE	O-C-N	-11.80	110.34	121.91
1	M	425	ASN	CA-C-N	11.80	140.78	122.49
1	M	425	ASN	C-N-CA	11.80	140.78	122.49
1	N	389	LEU	CA-C-O	-11.80	108.27	120.90
1	N	341	LYS	N-CA-CB	11.80	127.78	110.20
1	P	126	ALA	CA-C-O	11.80	133.33	120.24
1	C	11	ASN	CA-CB-CG	11.80	124.40	112.60
1	P	98	VAL	N-CA-CB	11.79	123.00	110.62
1	L	277	ALA	CA-C-N	11.79	138.23	120.31
1	L	277	ALA	C-N-CA	11.79	138.23	120.31
1	C	29	ARG	NE-CZ-NH2	11.79	129.81	119.20
1	P	236	ASN	CA-CB-CG	11.78	124.38	112.60
1	A	40	GLY	N-CA-C	11.78	136.37	112.34
1	O	105	ARG	NE-CZ-NH1	-11.78	109.72	121.50
1	O	266	LYS	CA-C-O	-11.78	107.91	121.81
1	B	232	ILE	O-C-N	-11.78	110.14	122.63
1	P	438	ARG	NE-CZ-NH2	11.78	129.80	119.20
1	P	187	LYS	CA-C-O	-11.77	103.68	120.51
1	C	181	VAL	N-CA-C	11.77	122.61	110.72
1	I	189	ASP	O-C-N	-11.77	108.36	122.95
1	F	52	LEU	O-C-N	11.76	134.59	122.12
1	J	25	ILE	CA-C-O	11.76	135.48	120.78
1	A	400	ILE	N-CA-C	11.76	124.02	110.62
1	D	112	ASP	N-CA-C	11.76	128.30	112.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	220	SER	O-C-N	11.76	136.95	123.19
1	L	490	ILE	CB-CA-C	-11.75	94.66	111.34
1	G	130	LYS	O-C-N	-11.75	109.97	122.07
1	J	428	LEU	N-CA-C	11.75	126.56	110.35
1	K	379	VAL	O-C-N	-11.75	109.75	123.02
1	C	257	SER	O-C-N	-11.74	108.49	122.11
1	H	22	ARG	NE-CZ-NH2	11.74	129.77	119.20
1	E	111	LEU	O-C-N	-11.74	106.97	122.59
1	I	494	ILE	O-C-N	-11.74	110.85	123.18
1	L	483	SER	O-C-N	-11.74	109.35	122.03
1	P	403	ARG	N-CA-CB	11.74	127.53	110.16
1	L	59	ASN	CA-CB-CG	11.73	124.33	112.60
1	F	379	VAL	N-CA-CB	11.73	126.67	111.90
1	M	464	ASN	OD1-CG-ND2	11.73	134.33	122.60
1	G	222	GLN	CG-CD-NE2	11.73	133.99	116.40
1	E	76	LYS	CA-C-N	11.72	139.36	120.60
1	E	76	LYS	C-N-CA	11.72	139.36	120.60
1	K	475	GLN	CG-CD-OE1	11.72	144.23	120.80
1	P	312	ALA	N-CA-C	11.72	127.33	112.92
1	N	355	ILE	N-CA-C	11.71	122.55	110.72
1	D	489	ARG	N-CA-CB	11.71	126.73	110.10
1	M	69	SER	CA-C-O	-11.71	103.76	120.51
1	D	243	ALA	N-CA-C	11.70	135.73	110.80
1	F	131	ALA	CA-C-O	-11.70	108.15	120.55
1	G	306	ASN	CA-CB-CG	11.70	124.30	112.60
1	J	201	ALA	O-C-N	-11.70	107.03	122.59
1	D	424	GLU	O-C-N	11.69	134.25	122.09
1	A	55	VAL	O-C-N	-11.69	112.45	122.97
1	G	142	VAL	O-C-N	-11.69	107.96	122.57
1	N	71	GLU	O-C-N	-11.69	106.52	122.30
1	L	34	THR	CA-CB-OG1	11.69	127.13	109.60
1	D	48	LEU	CA-C-O	-11.68	108.04	121.47
1	L	439	ALA	CA-C-O	-11.68	108.17	120.55
1	N	147	LYS	N-CA-C	11.68	124.09	111.36
1	O	341	LYS	O-C-N	-11.68	106.34	122.46
1	G	59	ASN	CA-CB-CG	11.68	124.28	112.60
1	H	375	ASP	CA-CB-CG	11.68	124.28	112.60
1	I	26	LEU	O-C-N	11.68	135.88	122.22
1	G	448	CYS	N-CA-C	11.67	128.21	108.13
1	L	297	LYS	CA-C-N	11.67	143.84	121.54
1	L	297	LYS	C-N-CA	11.67	143.84	121.54
1	I	34	THR	CA-C-N	11.67	139.44	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	34	THR	C-N-CA	11.67	139.44	120.30
1	H	130	LYS	N-CA-CB	11.67	127.27	110.12
1	J	339	HIS	CA-C-O	-11.67	105.08	120.83
1	J	420	ARG	CD-NE-CZ	-11.67	108.06	124.40
1	D	493	VAL	O-C-N	-11.66	110.93	123.18
1	P	74	ALA	O-C-N	-11.66	108.58	122.11
1	A	33	GLU	CA-C-O	-11.66	108.69	120.70
1	E	361	ALA	O-C-N	-11.66	108.58	122.22
1	K	346	LEU	CA-C-O	-11.66	108.11	121.16
1	L	225	LYS	O-C-N	-11.66	107.09	122.59
1	A	397	ALA	CB-CA-C	11.65	128.90	110.96
1	F	249	ASP	CA-CB-CG	11.64	124.25	112.60
1	J	203	ILE	CA-C-O	-11.64	107.69	119.92
1	L	10	GLU	O-C-N	-11.64	107.11	122.59
1	I	317	ASP	CA-CB-CG	11.64	124.24	112.60
1	D	20	ALA	CA-C-O	-11.63	108.09	120.42
1	G	405	GLN	OE1-CD-NE2	-11.63	110.97	122.60
1	C	50	ASP	CA-CB-CG	11.63	124.23	112.60
1	G	329	ASP	CA-C-O	-11.63	107.73	120.75
1	I	32	ALA	CA-C-O	11.62	132.99	120.55
1	N	24	ASN	O-C-N	11.62	134.65	122.09
1	O	163	ALA	O-C-N	11.62	137.96	122.15
1	F	325	LYS	CA-C-O	-11.62	107.80	121.05
1	G	387	VAL	N-CA-C	11.62	123.87	110.62
1	J	206	THR	CA-C-O	-11.62	108.14	120.58
1	D	373	ILE	CA-C-N	11.62	140.12	120.71
1	D	373	ILE	C-N-CA	11.62	140.12	120.71
1	F	11	ASN	O-C-N	-11.62	107.14	122.59
1	L	444	ASN	CA-C-N	-11.62	105.68	122.64
1	L	444	ASN	C-N-CA	-11.62	105.68	122.64
1	H	114	ASN	CA-C-O	-11.62	103.90	120.51
1	N	325	LYS	N-CA-CB	11.62	127.11	109.34
1	D	279	GLU	O-C-N	-11.61	106.55	122.46
1	D	314	ASP	CA-CB-CG	11.61	124.21	112.60
1	B	26	LEU	O-C-N	11.61	134.50	122.08
1	D	299	THR	CA-CB-OG1	11.61	127.01	109.60
1	K	429	ASP	CB-CA-C	11.61	130.56	111.41
1	B	467	VAL	O-C-N	-11.60	110.79	122.97
1	F	11	ASN	N-CA-CB	11.60	130.09	110.49
1	G	478	GLN	OE1-CD-NE2	-11.60	111.00	122.60
1	C	311	SER	CA-C-O	-11.60	108.27	121.26
1	G	338	LYS	CA-C-N	11.60	137.18	123.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	338	LYS	C-N-CA	11.60	137.18	123.15
1	N	444	ASN	OD1-CG-ND2	11.60	134.19	122.60
1	O	118	THR	CA-CB-CG2	11.60	130.21	110.50
1	D	295	LEU	CA-C-O	-11.59	105.12	119.38
1	F	403	ARG	NE-CZ-NH1	-11.59	109.91	121.50
1	L	120	VAL	CA-C-N	11.59	135.40	120.56
1	L	120	VAL	C-N-CA	11.59	135.40	120.56
1	G	438	ARG	NE-CZ-NH1	11.59	133.09	121.50
1	O	237	CYS	O-C-N	-11.59	109.86	122.96
1	L	181	VAL	N-CA-C	11.59	121.31	110.42
1	A	405	GLN	OE1-CD-NE2	-11.58	111.02	122.60
1	N	418	ILE	O-C-N	11.57	134.28	121.10
1	E	114	ASN	O-C-N	11.56	132.54	121.56
1	E	269	ASP	O-C-N	-11.56	109.99	122.94
1	F	190	LYS	CA-C-N	11.56	136.15	120.54
1	F	190	LYS	C-N-CA	11.56	136.15	120.54
1	G	313	GLN	OE1-CD-NE2	-11.56	111.04	122.60
1	G	294	LYS	CA-C-O	-11.56	105.97	119.15
1	E	408	VAL	O-C-N	11.56	133.08	121.87
1	C	18	ARG	NE-CZ-NH2	11.55	129.60	119.20
1	F	114	ASN	OD1-CG-ND2	-11.55	111.05	122.60
1	A	94	THR	CA-C-O	-11.55	106.69	119.97
1	F	56	VAL	CA-CB-CG1	11.55	130.03	110.40
1	P	10	GLU	CA-CB-CG	11.55	137.20	114.10
1	H	363	ASP	CA-CB-CG	11.54	124.14	112.60
1	I	164	GLU	O-C-N	-11.54	107.24	122.59
1	F	269	ASP	CA-C-O	-11.54	108.94	121.98
1	J	116	HIS	CA-CB-CG	11.54	125.34	113.80
1	O	286	ARG	NE-CZ-NH2	-11.54	108.82	119.20
1	D	218	ARG	NE-CZ-NH2	11.53	129.58	119.20
1	I	324	ARG	NH1-CZ-NH2	11.54	134.30	119.30
1	B	377	ARG	CA-C-N	11.53	139.47	122.75
1	B	377	ARG	C-N-CA	11.53	139.47	122.75
1	F	157	SER	O-C-N	11.53	136.12	122.17
1	H	218	ARG	CA-C-N	11.52	135.08	120.56
1	H	218	ARG	C-N-CA	11.52	135.08	120.56
1	J	472	VAL	O-C-N	11.52	136.97	122.57
1	M	485	GLU	N-CA-CB	11.52	125.92	110.59
1	L	146	ASP	O-C-N	-11.52	109.66	122.79
1	O	369	VAL	O-C-N	-11.52	106.92	121.90
1	G	130	LYS	CA-C-O	11.52	132.91	120.82
1	I	256	ALA	CA-C-N	11.52	143.54	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	256	ALA	C-N-CA	11.52	143.54	121.54
1	M	79	ILE	CA-C-O	-11.51	109.44	121.41
1	O	154	ALA	N-CA-C	11.51	125.17	111.82
1	A	10	GLU	CA-C-O	-11.51	104.06	120.51
1	K	453	VAL	CA-C-N	11.51	143.51	121.54
1	K	453	VAL	C-N-CA	11.51	143.51	121.54
1	D	340	PRO	CA-C-N	11.50	143.51	121.54
1	D	340	PRO	C-N-CA	11.50	143.51	121.54
1	E	66	ARG	O-C-N	11.50	137.89	122.59
1	J	89	VAL	CB-CA-C	-11.50	100.81	111.05
1	N	12	MET	N-CA-C	11.50	127.03	108.63
1	F	188	VAL	CB-CA-C	-11.50	94.44	110.77
1	H	167	LYS	CA-C-O	-11.49	106.75	119.97
1	F	414	ALA	N-CA-C	11.49	123.49	110.97
1	I	115	VAL	CA-C-O	-11.49	105.38	120.89
1	N	381	GLY	CA-C-N	11.49	139.52	120.91
1	N	381	GLY	C-N-CA	11.49	139.52	120.91
1	B	140	CYS	CB-CA-C	11.48	129.16	110.78
1	H	136	LYS	CA-C-O	-11.48	105.07	119.31
1	I	493	VAL	N-CA-CB	11.48	126.37	111.90
1	D	317	ASP	O-C-N	-11.48	109.02	123.26
1	B	203	ILE	O-C-N	-11.47	110.98	122.23
1	A	255	LYS	O-C-N	-11.47	106.54	122.37
1	I	181	VAL	O-C-N	-11.47	109.97	121.90
1	O	131	ALA	CA-C-N	11.47	136.04	120.44
1	O	131	ALA	C-N-CA	11.47	136.04	120.44
1	A	495	ALA	CA-C-N	11.46	143.44	121.54
1	A	495	ALA	C-N-CA	11.46	143.44	121.54
1	K	368	VAL	N-CA-C	11.46	126.80	111.44
1	M	417	VAL	N-CA-CB	11.46	122.66	110.62
1	G	245	GLU	CA-C-N	11.46	143.43	121.54
1	G	245	GLU	C-N-CA	11.46	143.43	121.54
1	J	55	VAL	O-C-N	-11.46	110.83	123.10
1	M	403	ARG	N-CA-C	11.46	126.42	111.75
1	C	241	GLU	CA-C-O	-11.46	108.16	121.68
1	K	402	GLY	CA-C-N	11.45	137.99	120.82
1	K	402	GLY	C-N-CA	11.45	137.99	120.82
1	C	375	ASP	CA-CB-CG	11.45	124.05	112.60
1	C	377	ARG	O-C-N	-11.45	108.01	122.20
1	F	274	HIS	CE1-NE2-CD2	-11.45	97.55	109.00
1	G	350	THR	O-C-N	-11.45	106.85	122.30
1	O	484	THR	N-CA-C	11.45	127.08	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	79	ILE	CA-C-N	11.44	135.61	120.28
1	C	79	ILE	C-N-CA	11.44	135.61	120.28
1	C	308	LYS	CA-C-O	-11.44	104.15	120.51
1	D	182	VAL	CA-C-O	11.44	134.40	121.13
1	A	30	ILE	CB-CA-C	-11.44	97.06	111.70
1	A	468	GLU	N-CA-CB	11.44	126.12	109.88
1	J	305	THR	CA-CB-CG2	11.44	129.94	110.50
1	D	158	ILE	N-CA-C	11.43	122.08	111.91
1	G	206	THR	CA-C-O	-11.43	108.65	120.54
1	N	360	ARG	CD-NE-CZ	11.43	140.41	124.40
1	J	302	ASN	N-CA-C	11.43	127.15	108.52
1	P	59	ASN	OD1-CG-ND2	-11.43	111.17	122.60
1	K	182	VAL	N-CA-C	11.43	125.23	107.98
1	A	148	GLU	N-CA-C	11.42	125.15	111.33
1	A	113	GLN	OE1-CD-NE2	11.42	134.02	122.60
1	C	309	ASP	CA-CB-CG	11.42	124.02	112.60
1	M	46	LYS	CA-C-N	-11.42	106.40	123.07
1	M	46	LYS	C-N-CA	-11.42	106.40	123.07
1	G	65	LEU	O-C-N	11.42	136.04	122.34
1	C	114	ASN	CA-CB-CG	11.41	124.01	112.60
1	F	399	GLY	N-CA-C	11.41	125.74	112.50
1	B	418	ILE	CA-C-O	-11.41	104.66	119.95
1	I	61	GLY	O-C-N	-11.41	111.24	122.19
1	K	474	THR	CA-CB-CG2	11.41	129.90	110.50
1	L	329	ASP	O-C-N	-11.41	110.21	123.22
1	E	356	GLU	N-CA-CB	11.41	127.17	110.06
1	N	180	ALA	O-C-N	-11.41	107.25	122.19
1	K	286	ARG	O-C-N	11.41	133.85	121.87
1	A	444	ASN	CA-CB-CG	11.40	124.00	112.60
1	K	245	GLU	CB-CG-CD	11.40	131.98	112.60
1	K	140	CYS	CA-C-N	11.39	136.97	120.90
1	K	140	CYS	C-N-CA	11.39	136.97	120.90
1	O	38	THR	N-CA-C	11.39	128.33	113.18
1	H	405	GLN	OE1-CD-NE2	-11.39	111.21	122.60
1	G	258	GLY	CA-C-N	11.38	138.67	122.85
1	G	258	GLY	C-N-CA	11.38	138.67	122.85
1	M	457	ALA	O-C-N	11.38	133.96	123.26
1	A	458	VAL	N-CA-CB	11.37	122.93	110.53
1	G	216	LYS	N-CA-C	11.37	127.14	108.26
1	D	142	VAL	CA-C-N	11.37	137.15	121.01
1	D	142	VAL	C-N-CA	11.37	137.15	121.01
1	P	290	SER	CA-C-N	11.37	136.65	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	290	SER	C-N-CA	11.37	136.65	120.28
1	A	405	GLN	CB-CG-CD	11.36	131.91	112.60
1	I	74	ALA	CA-C-O	11.36	132.60	120.90
1	I	337	CYS	O-C-N	-11.36	108.90	122.87
1	P	330	SER	N-CA-CB	11.36	129.26	110.17
1	A	20	ALA	O-C-N	11.36	133.84	122.03
1	E	236	ASN	N-CA-CB	11.36	127.79	110.30
1	B	245	GLU	CB-CG-CD	11.35	131.90	112.60
1	C	116	HIS	CA-CB-CG	11.35	125.15	113.80
1	E	69	SER	CA-C-N	11.35	142.40	121.97
1	E	69	SER	C-N-CA	11.35	142.40	121.97
1	M	315	LEU	O-C-N	11.35	136.44	123.27
1	I	304	ILE	O-C-N	-11.35	111.56	123.14
1	F	164	GLU	CA-C-N	11.35	135.63	120.65
1	F	164	GLU	C-N-CA	11.35	135.63	120.65
1	M	411	PHE	CA-CB-CG	11.35	125.15	113.80
1	D	475	GLN	CA-C-O	-11.35	108.89	120.80
1	D	485	GLU	N-CA-C	11.34	123.33	110.97
1	L	19	ASP	O-C-N	11.33	133.88	122.09
1	F	314	ASP	CA-CB-CG	11.33	123.93	112.60
1	K	174	ILE	N-CA-C	11.33	121.18	110.53
1	C	360	ARG	NE-CZ-NH1	11.33	132.83	121.50
1	E	86	GLU	CA-C-O	-11.32	108.55	120.55
1	J	295	LEU	CA-C-O	-11.32	106.95	119.97
1	M	353	HIS	CE1-NE2-CD2	11.32	120.32	109.00
1	J	186	GLY	CA-C-N	11.32	148.46	122.20
1	J	186	GLY	C-N-CA	11.32	148.46	122.20
1	M	66	ARG	NE-CZ-NH1	-11.31	110.19	121.50
1	B	324	ARG	NE-CZ-NH2	11.31	129.38	119.20
1	L	302	ASN	OD1-CG-ND2	-11.31	111.29	122.60
1	G	52	LEU	O-C-N	-11.31	108.36	122.27
1	H	109	GLU	CA-C-N	11.31	136.01	120.63
1	H	109	GLU	C-N-CA	11.31	136.01	120.63
1	H	27	ALA	O-C-N	11.31	135.88	122.20
1	N	182	VAL	O-C-N	-11.30	109.72	122.83
1	O	65	LEU	N-CA-C	11.30	123.68	111.36
1	P	16	MET	CA-C-O	-11.30	107.31	121.78
1	O	133	GLU	OE1-CD-OE2	11.30	150.03	122.90
1	N	360	ARG	NE-CZ-NH1	-11.30	110.20	121.50
1	O	248	LYS	O-C-N	-11.30	109.83	122.03
1	C	302	ASN	CA-C-O	-11.29	107.57	121.58
1	E	355	ILE	CA-C-O	11.30	134.40	120.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	460	ASP	CA-CB-CG	-11.29	101.31	112.60
1	J	218	ARG	CA-C-N	11.29	142.30	121.97
1	J	218	ARG	C-N-CA	11.29	142.30	121.97
1	N	190	LYS	CA-C-O	-11.29	109.07	120.70
1	D	72	HIS	ND1-CE1-NE2	11.29	119.69	108.40
1	G	314	ASP	CA-CB-CG	11.29	123.89	112.60
1	I	110	LEU	N-CA-C	11.29	123.56	111.03
1	A	212	VAL	O-C-N	-11.28	111.24	123.20
1	I	92	GLY	O-C-N	11.28	136.31	122.32
1	O	242	THR	CA-C-O	-11.28	109.19	120.92
1	E	214	VAL	N-CA-CB	-11.28	99.48	112.34
1	A	66	ARG	CD-NE-CZ	11.27	140.18	124.40
1	H	342	ALA	O-C-N	-11.26	107.61	122.59
1	L	205	ASP	CA-CB-CG	11.26	123.86	112.60
1	G	165	LYS	CA-C-O	11.26	132.74	120.24
1	N	18	ARG	NH1-CZ-NH2	-11.26	104.66	119.30
1	F	228	THR	O-C-N	-11.26	107.62	122.59
1	G	495	ALA	O-C-N	-11.26	109.39	123.24
1	H	369	VAL	CA-CB-CG2	11.26	129.54	110.40
1	A	81	VAL	CA-C-O	11.25	130.00	119.20
1	G	350	THR	CA-C-N	11.25	143.03	121.54
1	G	350	THR	C-N-CA	11.25	143.03	121.54
1	A	306	ASN	OD1-CG-ND2	-11.25	111.35	122.60
1	C	114	ASN	OD1-CG-ND2	-11.25	111.35	122.60
1	F	278	LYS	O-C-N	-11.25	108.44	122.27
1	H	433	ILE	N-CA-C	11.25	121.10	110.53
1	B	359	ALA	CA-C-O	11.24	132.56	119.18
1	I	38	THR	N-CA-C	11.24	127.18	113.12
1	L	140	CYS	CA-C-O	-11.24	107.88	120.70
1	M	492	ASP	O-C-N	-11.24	108.52	123.14
1	N	489	ARG	N-CA-CB	11.24	129.63	110.51
1	G	495	ALA	CA-C-O	-11.24	107.96	121.11
1	I	136	LYS	N-CA-C	11.24	124.93	111.33
1	B	424	GLU	O-C-N	11.24	134.96	122.15
1	N	461	MET	N-CA-C	11.24	124.92	111.33
1	P	110	LEU	CA-C-N	11.24	143.00	121.54
1	P	110	LEU	C-N-CA	11.24	143.00	121.54
1	D	140	CYS	O-C-N	11.23	135.96	123.27
1	D	229	ASP	CA-CB-CG	11.23	123.83	112.60
1	C	377	ARG	NE-CZ-NH1	11.23	132.73	121.50
1	E	36	ARG	NE-CZ-NH1	-11.23	110.27	121.50
1	F	403	ARG	NH1-CZ-NH2	11.23	133.90	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	59	ASN	CB-CG-ND2	11.22	133.23	116.40
1	I	371	CYS	O-C-N	-11.22	108.78	122.25
1	P	81	VAL	O-C-N	-11.22	107.67	122.03
1	E	342	ALA	N-CA-CB	11.21	129.07	110.79
1	D	373	ILE	CA-C-O	-11.21	107.62	120.96
1	I	125	GLN	N-CA-C	11.21	123.07	111.07
1	D	260	ASN	CA-CB-CG	11.21	123.81	112.60
1	J	358	VAL	CA-C-O	11.21	134.79	120.78
1	L	495	ALA	N-CA-C	11.20	127.62	109.59
1	M	51	ASP	CA-C-O	-11.20	104.49	120.51
1	D	151	THR	CA-C-O	-11.20	107.66	120.20
1	H	203	ILE	N-CA-CB	11.20	122.94	110.51
1	I	249	ASP	CA-C-O	-11.20	108.53	120.63
1	A	228	THR	O-C-N	-11.20	107.70	122.59
1	G	189	ASP	CA-C-N	11.19	142.92	121.54
1	G	189	ASP	C-N-CA	11.19	142.92	121.54
1	P	111	LEU	N-CA-CB	11.19	129.41	110.49
1	O	33	GLU	O-C-N	11.19	135.32	122.22
1	F	28	GLY	O-C-N	-11.19	108.15	122.70
1	L	14	ARG	CA-C-O	-11.19	107.90	120.32
1	M	36	ARG	N-CA-CB	11.19	126.23	110.01
1	N	286	ARG	NE-CZ-NH1	-11.19	110.31	121.50
1	M	339	HIS	CE1-NE2-CD2	11.19	120.19	109.00
1	M	30	ILE	CA-C-O	11.18	134.75	120.78
1	M	70	VAL	CA-CB-CG1	11.18	129.41	110.40
1	A	343	VAL	CA-C-O	-11.17	108.57	120.53
1	O	14	ARG	NE-CZ-NH1	-11.17	110.33	121.50
1	I	106	LYS	CA-C-O	11.16	133.11	119.38
1	A	400	ILE	CA-C-N	11.15	142.84	121.54
1	A	400	ILE	C-N-CA	11.15	142.84	121.54
1	P	212	VAL	O-C-N	-11.15	111.58	123.18
1	B	314	ASP	CA-CB-CG	11.15	123.75	112.60
1	G	353	HIS	CE1-NE2-CD2	-11.15	97.85	109.00
1	J	224	PRO	CB-CA-C	11.15	129.96	111.56
1	K	10	GLU	CB-CA-C	11.15	127.29	109.90
1	G	353	HIS	N-CA-CB	11.15	126.23	110.07
1	D	324	ARG	NE-CZ-NH2	11.14	129.23	119.20
1	E	296	ALA	N-CA-C	11.14	123.42	111.28
1	F	40	GLY	N-CA-C	11.14	135.06	112.34
1	B	359	ALA	O-C-N	-11.13	106.60	122.41
1	N	150	LEU	CA-C-O	11.13	132.59	120.24
1	B	373	ILE	CA-C-O	-11.13	106.46	121.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	408	VAL	CA-C-N	11.13	134.91	120.44
1	O	408	VAL	C-N-CA	11.13	134.91	120.44
1	J	174	ILE	N-CA-C	11.13	121.96	110.72
1	O	455	THR	CA-C-O	11.13	132.92	119.79
1	A	492	ASP	CA-CB-CG	11.13	123.73	112.60
1	P	353	HIS	N-CA-C	11.12	123.10	110.97
1	L	168	GLU	CA-C-O	-11.12	105.52	119.31
1	M	298	ALA	CA-C-N	11.12	135.18	120.28
1	M	298	ALA	C-N-CA	11.12	135.18	120.28
1	A	74	ALA	O-C-N	-11.12	110.18	122.08
1	G	368	VAL	CB-CA-C	11.12	127.57	112.22
1	J	108	GLU	N-CA-C	-11.12	99.13	111.14
1	K	243	ALA	CA-C-O	11.12	136.40	120.51
1	I	94	THR	N-CA-C	-11.11	99.14	111.14
1	I	339	HIS	CA-CB-CG	11.11	124.91	113.80
1	L	372	THR	CA-C-O	-11.11	106.84	119.95
1	I	71	GLU	CA-C-O	11.11	132.81	119.81
1	P	285	ARG	CD-NE-CZ	11.10	139.93	124.40
1	M	113	GLN	O-C-N	11.09	136.69	122.39
1	E	182	VAL	N-CA-C	11.09	123.90	108.93
1	C	270	ASP	CA-CB-CG	11.08	123.68	112.60
1	F	16	MET	CA-C-O	-11.08	108.91	121.10
1	I	314	ASP	CA-C-N	11.08	142.71	121.54
1	I	314	ASP	C-N-CA	11.08	142.71	121.54
1	K	19	ASP	CA-CB-CG	11.07	123.67	112.60
1	O	14	ARG	NH1-CZ-NH2	11.07	133.70	119.30
1	O	60	ASP	CA-CB-CG	11.07	123.67	112.60
1	K	113	GLN	CA-C-N	11.07	142.68	121.54
1	K	113	GLN	C-N-CA	11.07	142.68	121.54
1	G	39	LEU	CA-C-O	-11.06	108.31	120.92
1	G	137	THR	O-C-N	-11.06	109.54	122.15
1	O	39	LEU	N-CA-C	11.06	126.54	109.96
1	K	435	VAL	CA-C-O	-11.05	109.13	120.85
1	P	158	ILE	N-CA-C	11.05	132.33	109.34
1	B	85	GLN	CA-C-N	11.05	139.46	120.68
1	B	85	GLN	C-N-CA	11.05	139.46	120.68
1	I	49	VAL	O-C-N	-11.05	110.78	122.82
1	L	44	MET	O-C-N	11.05	137.24	123.21
1	D	238	ALA	O-C-N	11.04	137.28	122.59
1	E	255	LYS	O-C-N	-11.04	106.04	122.28
1	K	279	GLU	O-C-N	11.04	135.84	122.48
1	O	205	ASP	CA-CB-CG	11.05	123.65	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	257	SER	CA-C-O	11.04	136.30	120.51
1	A	297	LYS	O-C-N	-11.04	108.81	122.17
1	F	317	ASP	CA-CB-CG	11.04	123.64	112.60
1	K	216	LYS	N-CA-C	11.04	126.34	109.23
1	I	400	ILE	N-CA-C	11.03	126.23	111.44
1	J	364	ASP	CA-CB-CG	11.03	123.63	112.60
1	L	52	LEU	N-CA-CB	11.03	127.21	110.22
1	P	24	ASN	O-C-N	11.03	138.03	122.36
1	C	218	ARG	CA-C-N	11.03	141.82	121.97
1	C	218	ARG	C-N-CA	11.03	141.82	121.97
1	O	12	MET	CA-C-O	-11.03	107.79	120.58
1	P	85	GLN	OE1-CD-NE2	-11.03	111.57	122.60
1	E	99	VAL	CA-C-N	11.03	141.81	121.52
1	E	99	VAL	C-N-CA	11.03	141.81	121.52
1	G	131	ALA	N-CA-CB	11.02	127.75	109.78
1	K	339	HIS	CB-CG-CD2	-11.02	116.87	131.20
1	A	281	ILE	CB-CA-C	-11.02	98.19	111.08
1	D	188	VAL	N-CA-CB	11.02	123.35	111.89
1	K	139	ALA	O-C-N	-11.02	108.80	122.57
1	N	245	GLU	CB-CG-CD	11.02	131.33	112.60
1	A	177	ALA	O-C-N	-11.01	107.91	122.23
1	N	66	ARG	CD-NE-CZ	11.01	139.82	124.40
1	A	399	GLY	CA-C-N	11.01	136.05	120.53
1	A	399	GLY	C-N-CA	11.01	136.05	120.53
1	G	320	LEU	CA-C-O	-11.01	106.74	120.28
1	I	128	ALA	N-CA-C	-11.01	99.98	113.41
1	H	112	ASP	N-CA-C	11.00	126.09	112.23
1	P	425	ASN	O-C-N	-11.00	110.46	122.12
1	D	81	VAL	O-C-N	-11.00	111.20	122.20
1	O	62	VAL	N-CA-C	11.00	120.98	110.42
1	H	403	ARG	NE-CZ-NH1	-11.00	110.50	121.50
1	P	215	ASP	O-C-N	-11.00	107.97	122.59
1	B	436	LYS	CA-C-O	-10.99	108.77	120.42
1	E	136	LYS	CA-C-O	-10.99	106.82	119.79
1	H	363	ASP	O-C-N	-10.99	107.97	122.59
1	I	337	CYS	CA-C-O	10.99	133.28	121.19
1	J	50	ASP	CA-C-O	-10.99	107.41	120.60
1	J	308	LYS	CA-C-O	-10.99	106.49	119.35
1	M	183	ASP	CA-CB-CG	10.99	123.59	112.60
1	B	114	ASN	CB-CG-ND2	10.99	132.89	116.40
1	J	405	GLN	N-CA-C	-10.99	99.27	111.14
1	L	306	ASN	CB-CG-OD1	10.99	142.78	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	59	ASN	CA-CB-CG	10.99	123.59	112.60
1	G	270	ASP	CA-C-O	10.98	132.43	120.24
1	P	33	GLU	O-C-N	10.98	133.76	122.12
1	C	182	VAL	N-CA-CB	10.98	122.50	110.53
1	D	372	THR	CA-C-O	-10.98	105.99	119.28
1	F	353	HIS	CA-CB-CG	10.97	124.78	113.80
1	D	87	LYS	CA-C-O	-10.97	108.63	120.92
1	F	10	GLU	O-C-N	-10.97	108.00	122.59
1	N	458	VAL	CA-C-O	-10.97	108.84	120.57
1	G	309	ASP	CA-C-O	-10.96	106.85	119.79
1	H	150	LEU	O-C-N	-10.96	106.79	122.36
1	C	221	ALA	CA-C-N	10.96	142.47	121.54
1	C	221	ALA	C-N-CA	10.96	142.47	121.54
1	B	105	ARG	NE-CZ-NH1	-10.96	110.55	121.50
1	G	363	ASP	CA-C-N	10.96	134.68	120.44
1	G	363	ASP	C-N-CA	10.96	134.68	120.44
1	C	348	ARG	NE-CZ-NH1	-10.95	110.55	121.50
1	L	116	HIS	O-C-N	-10.95	108.73	121.32
1	C	110	LEU	N-CA-C	10.94	122.90	110.97
1	E	58	THR	CA-CB-OG1	10.94	126.01	109.60
1	G	146	ASP	CA-C-N	10.94	138.60	120.88
1	G	146	ASP	C-N-CA	10.94	138.60	120.88
1	J	36	ARG	O-C-N	-10.94	109.42	122.22
1	M	218	ARG	O-C-N	10.94	135.71	123.13
1	O	177	ALA	O-C-N	-10.93	108.02	122.23
1	G	18	ARG	N-CA-C	10.93	124.22	111.11
1	H	106	LYS	O-C-N	10.93	135.01	122.22
1	F	159	THR	CA-C-O	10.93	132.29	120.71
1	O	420	ARG	CA-C-O	-10.93	109.33	120.80
1	N	205	ASP	O-C-N	-10.92	108.06	122.59
1	B	181	VAL	CA-C-O	10.92	134.43	120.78
1	P	40	GLY	CA-C-O	-10.92	105.91	121.52
1	L	291	ASP	CA-CB-CG	10.92	123.52	112.60
1	M	309	ASP	CA-C-O	-10.92	106.19	119.18
1	E	18	ARG	N-CA-C	10.91	134.04	110.80
1	M	105	ARG	CA-C-O	-10.91	108.70	120.92
1	O	30	ILE	O-C-N	-10.91	108.93	122.57
1	O	112	ASP	CA-C-N	10.91	141.28	120.99
1	O	112	ASP	C-N-CA	10.91	141.28	120.99
1	G	136	LYS	CA-C-O	-10.91	107.78	120.10
1	F	478	GLN	CA-C-N	10.90	135.98	120.28
1	F	478	GLN	C-N-CA	10.90	135.98	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	207	GLU	O-C-N	-10.90	108.50	123.11
1	J	13	LYS	CA-C-N	10.90	138.37	123.00
1	J	13	LYS	C-N-CA	10.90	138.37	123.00
1	K	243	ALA	O-C-N	-10.90	108.09	122.59
1	O	351	THR	O-C-N	-10.90	108.68	122.20
1	P	93	THR	O-C-N	10.90	133.86	122.09
1	K	216	LYS	O-C-N	-10.90	110.63	123.27
1	J	182	VAL	CA-C-N	10.89	136.19	120.95
1	J	182	VAL	C-N-CA	10.89	136.19	120.95
1	N	373	ILE	CA-C-O	-10.89	108.49	120.25
1	D	435	VAL	CA-C-O	10.88	132.39	120.85
1	N	245	GLU	CA-CB-CG	10.88	135.86	114.10
1	H	309	ASP	CA-CB-CG	10.88	123.48	112.60
1	D	236	ASN	CA-CB-CG	10.88	123.48	112.60
1	E	379	VAL	N-CA-C	10.88	126.00	107.18
1	I	134	LEU	N-CA-C	10.87	123.21	111.36
1	M	249	ASP	N-CA-CB	10.87	128.43	110.39
1	A	285	ARG	NH1-CZ-NH2	-10.86	105.18	119.30
1	E	342	ALA	O-C-N	-10.86	111.13	123.40
1	M	240	GLU	CB-CG-CD	10.86	131.06	112.60
1	P	152	LYS	O-C-N	-10.86	110.36	122.09
1	G	174	ILE	CA-C-O	-10.85	109.00	121.05
1	I	89	VAL	N-CA-C	10.85	123.08	111.58
1	I	329	ASP	CA-CB-CG	10.85	123.45	112.60
1	J	247	LEU	N-CA-C	10.85	124.46	111.33
1	A	93	THR	O-C-N	10.85	133.25	122.07
1	B	377	ARG	NE-CZ-NH2	10.85	128.97	119.20
1	G	271	LEU	CB-CA-C	10.85	128.17	110.81
1	P	255	LYS	N-CA-C	10.85	125.78	112.54
1	K	153	ILE	O-C-N	-10.85	110.94	121.90
1	L	377	ARG	CA-C-O	10.85	136.02	120.51
1	N	37	SER	CB-CA-C	10.85	129.53	110.01
1	N	339	HIS	CG-CD2-NE2	10.84	118.04	107.20
1	P	65	LEU	N-CA-C	10.84	124.18	111.71
1	P	474	THR	CA-C-O	-10.84	109.53	120.70
1	F	145	GLN	N-CA-C	10.84	124.46	112.97
1	M	400	ILE	CA-CB-CG1	10.84	128.83	110.40
1	O	149	ILE	CA-C-N	10.84	134.53	120.44
1	O	149	ILE	C-N-CA	10.84	134.53	120.44
1	H	146	ASP	CA-C-O	-10.84	109.37	121.07
1	N	11	ASN	CA-CB-CG	10.84	123.44	112.60
1	P	274	HIS	CA-C-N	10.83	134.95	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	274	HIS	C-N-CA	10.83	134.95	120.65
1	F	230	ALA	CA-C-O	-10.83	109.24	121.15
1	M	389	LEU	O-C-N	10.83	133.60	122.12
1	P	49	VAL	CA-C-O	-10.83	107.25	120.78
1	K	491	ASP	CA-CB-CG	10.83	123.43	112.60
1	D	223	MET	O-C-N	10.82	130.51	121.31
1	F	147	LYS	CA-C-O	-10.82	105.03	120.51
1	J	218	ARG	CD-NE-CZ	10.82	139.54	124.40
1	O	74	ALA	CA-C-N	10.82	136.17	120.38
1	O	74	ALA	C-N-CA	10.82	136.17	120.38
1	I	472	VAL	O-C-N	10.81	132.97	121.83
1	E	495	ALA	N-CA-C	10.81	123.66	108.74
1	H	448	CYS	O-C-N	-10.81	110.90	123.22
1	M	195	ILE	O-C-N	10.81	133.11	122.30
1	O	215	ASP	CA-CB-CG	10.81	123.41	112.60
1	J	12	MET	O-C-N	10.81	135.83	123.19
1	E	87	LYS	CA-C-O	-10.80	107.55	119.97
1	G	383	GLY	CA-C-O	-10.80	107.51	119.82
1	H	266	LYS	N-CA-CB	10.80	125.49	109.94
1	P	119	ILE	N-CA-CB	10.80	122.39	110.62
1	N	68	MET	O-C-N	-10.80	108.23	122.59
1	F	394	ARG	CD-NE-CZ	10.79	139.51	124.40
1	I	307	ILE	CA-C-O	-10.79	107.29	120.78
1	B	69	SER	CA-C-N	10.79	141.39	121.97
1	B	69	SER	C-N-CA	10.79	141.39	121.97
1	C	471	ARG	NH1-CZ-NH2	-10.79	105.27	119.30
1	F	496	ALA	CA-C-N	10.79	141.12	121.70
1	F	496	ALA	C-N-CA	10.79	141.12	121.70
1	J	94	THR	N-CA-CB	10.79	126.13	110.16
1	P	55	VAL	N-CA-C	10.79	123.74	107.99
1	I	205	ASP	CA-CB-CG	10.78	123.38	112.60
1	P	457	ALA	CA-C-O	-10.77	109.75	121.28
1	G	279	GLU	N-CA-C	10.77	125.52	112.38
1	D	380	SER	N-CA-CB	-10.77	93.81	109.85
1	I	95	THR	CA-C-O	-10.77	109.81	120.90
1	P	298	ALA	O-C-N	-10.77	108.27	122.59
1	M	348	ARG	NE-CZ-NH2	10.77	128.89	119.20
1	D	294	LYS	N-CA-C	10.76	122.97	111.03
1	J	336	GLU	CA-C-O	-10.76	109.36	121.84
1	L	494	ILE	CA-C-O	-10.76	108.07	120.65
1	L	105	ARG	CD-NE-CZ	10.75	139.45	124.40
1	O	471	ARG	CA-C-O	-10.75	106.42	119.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	135	LEU	N-CA-C	10.75	123.08	111.36
1	J	295	LEU	O-C-N	-10.75	109.05	122.27
1	B	55	VAL	N-CA-C	10.74	123.86	108.17
1	I	219	VAL	CA-C-O	-10.74	107.35	120.78
1	E	337	CYS	CA-C-N	10.74	135.54	120.29
1	E	337	CYS	C-N-CA	10.74	135.54	120.29
1	E	384	SER	CA-C-N	10.74	136.94	120.82
1	E	384	SER	C-N-CA	10.74	136.94	120.82
1	H	222	GLN	CA-CB-CG	10.74	135.58	114.10
1	K	90	GLY	CA-C-N	10.74	142.05	121.54
1	K	90	GLY	C-N-CA	10.74	142.05	121.54
1	O	351	THR	N-CA-C	10.74	127.01	110.36
1	J	343	VAL	O-C-N	-10.74	109.15	122.57
1	L	379	VAL	CA-C-O	10.74	132.19	121.45
1	A	372	THR	N-CA-CB	10.73	128.63	110.49
1	J	154	ALA	CA-C-N	10.73	134.66	120.28
1	J	154	ALA	C-N-CA	10.73	134.66	120.28
1	J	315	LEU	O-C-N	-10.73	110.53	123.30
1	M	40	GLY	CA-C-N	10.73	131.08	119.28
1	M	40	GLY	C-N-CA	10.73	131.08	119.28
1	E	491	ASP	CA-CB-CG	-10.73	101.87	112.60
1	B	436	LYS	O-C-N	10.72	134.38	122.15
1	F	429	ASP	CA-C-O	10.72	132.05	120.58
1	O	363	ASP	CA-CB-CG	10.72	123.32	112.60
1	E	16	MET	CA-C-O	-10.72	109.00	121.11
1	B	293	GLU	N-CA-CB	10.72	126.96	110.46
1	F	337	CYS	CA-C-N	10.72	134.80	120.65
1	F	337	CYS	C-N-CA	10.72	134.80	120.65
1	G	394	ARG	NE-CZ-NH1	10.72	132.22	121.50
1	M	66	ARG	NH1-CZ-NH2	10.72	133.23	119.30
1	D	175	VAL	N-CA-C	10.71	120.70	110.42
1	G	293	GLU	N-CA-CB	10.71	125.87	110.12
1	O	269	ASP	CA-C-O	-10.71	108.51	121.36
1	N	219	VAL	O-C-N	-10.71	109.18	122.57
1	N	210	LYS	CA-C-O	-10.71	105.20	120.51
1	M	401	SER	CA-C-N	10.70	142.39	121.41
1	M	401	SER	C-N-CA	10.70	142.39	121.41
1	J	57	VAL	CA-C-O	-10.70	108.93	120.59
1	C	86	GLU	CA-C-O	-10.70	109.31	121.07
1	P	187	LYS	CA-CB-CG	10.70	135.49	114.10
1	C	141	GLU	O-C-N	-10.69	108.37	122.59
1	B	240	GLU	O-C-N	10.69	137.23	123.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	461	MET	O-C-N	-10.69	109.96	122.15
1	K	14	ARG	CA-C-N	10.69	138.34	122.95
1	K	14	ARG	C-N-CA	10.69	138.34	122.95
1	O	12	MET	CB-CA-C	-10.69	94.22	110.26
1	A	48	LEU	N-CA-CB	10.69	125.56	110.17
1	O	181	VAL	O-C-N	10.69	135.79	121.90
1	I	24	ASN	OD1-CG-ND2	10.68	133.28	122.60
1	P	216	LYS	N-CA-C	10.68	126.31	108.90
1	H	394	ARG	CG-CD-NE	10.68	135.49	112.00
1	K	364	ASP	CA-C-N	10.68	136.54	120.31
1	K	364	ASP	C-N-CA	10.68	136.54	120.31
1	D	284	ALA	CA-C-N	10.68	141.93	121.54
1	D	284	ALA	C-N-CA	10.68	141.93	121.54
1	P	342	ALA	O-C-N	-10.68	109.27	123.15
1	L	316	GLY	CA-C-N	10.68	136.28	121.33
1	L	316	GLY	C-N-CA	10.68	136.28	121.33
1	H	179	SER	CA-C-N	10.67	138.54	120.72
1	H	179	SER	C-N-CA	10.67	138.54	120.72
1	J	464	ASN	CA-C-O	-10.67	106.87	119.78
1	P	260	ASN	N-CA-CB	10.67	126.76	110.44
1	M	21	GLN	OE1-CD-NE2	-10.67	111.93	122.60
1	M	79	ILE	CB-CA-C	10.66	125.35	111.70
1	F	116	HIS	CE1-NE2-CD2	-10.66	98.34	109.00
1	A	178	VAL	CA-C-N	10.66	137.66	120.60
1	A	178	VAL	C-N-CA	10.66	137.66	120.60
1	J	10	GLU	CA-C-N	10.66	141.90	121.54
1	J	10	GLU	C-N-CA	10.66	141.90	121.54
1	C	289	LYS	O-C-N	-10.66	110.83	122.12
1	H	66	ARG	CD-NE-CZ	10.65	139.31	124.40
1	C	350	THR	O-C-N	-10.65	108.43	122.59
1	J	67	GLU	O-C-N	-10.65	108.43	122.59
1	L	276	LEU	N-CA-CB	10.65	128.49	110.49
1	F	203	ILE	CA-C-N	10.65	141.87	121.54
1	F	203	ILE	C-N-CA	10.65	141.87	121.54
1	K	494	ILE	CA-C-O	-10.65	108.18	120.74
1	P	433	ILE	CB-CA-C	-10.64	97.98	112.24
1	J	16	MET	O-C-N	-10.64	111.35	123.48
1	K	363	ASP	CA-C-N	10.64	136.48	120.31
1	K	363	ASP	C-N-CA	10.64	136.48	120.31
1	O	217	GLU	N-CA-C	-10.64	94.50	110.14
1	E	167	LYS	CG-CD-CE	10.64	135.76	111.30
1	A	272	ALA	O-C-N	-10.63	110.61	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	159	THR	CA-C-O	-10.63	108.73	121.60
1	K	18	ARG	CA-C-N	10.63	134.95	120.38
1	K	18	ARG	C-N-CA	10.63	134.95	120.38
1	L	423	ALA	N-CA-C	10.63	123.99	111.02
1	L	389	LEU	O-C-N	10.63	133.14	122.09
1	O	116	HIS	CE1-NE2-CD2	10.63	119.63	109.00
1	H	316	GLY	CA-C-N	10.63	137.98	123.00
1	H	316	GLY	C-N-CA	10.63	137.98	123.00
1	E	429	ASP	CA-CB-CG	-10.62	101.98	112.60
1	B	301	ALA	O-C-N	-10.62	110.32	122.75
1	J	467	VAL	CA-C-O	-10.62	109.22	121.75
1	M	29	ARG	NE-CZ-NH2	-10.62	109.64	119.20
1	D	431	ILE	N-CA-CB	10.62	128.75	111.23
1	F	374	GLU	CG-CD-OE2	10.62	142.81	118.40
1	L	494	ILE	N-CA-CB	-10.62	98.90	111.00
1	G	309	ASP	CA-CB-CG	10.61	123.21	112.60
1	C	124	TYR	N-CA-C	10.61	122.92	111.36
1	G	270	ASP	N-CA-C	10.61	124.74	111.69
1	H	305	THR	CA-C-N	10.61	141.80	121.54
1	H	305	THR	C-N-CA	10.61	141.80	121.54
1	G	312	ALA	O-C-N	-10.61	110.11	122.20
1	O	273	GLN	N-CA-CB	10.60	125.39	109.91
1	P	302	ASN	OD1-CG-ND2	-10.60	112.00	122.60
1	N	312	ALA	N-CA-C	10.60	124.55	112.57
1	P	51	ASP	CA-CB-CG	10.60	123.20	112.60
1	K	145	GLN	OE1-CD-NE2	10.60	133.20	122.60
1	G	222	GLN	OE1-CD-NE2	-10.60	112.00	122.60
1	O	44	MET	CA-C-O	-10.60	107.43	121.73
1	O	288	LYS	CA-C-N	10.59	137.55	120.60
1	O	288	LYS	C-N-CA	10.59	137.55	120.60
1	P	352	GLU	CA-C-O	-10.59	105.28	119.05
1	O	285	ARG	NH1-CZ-NH2	-10.59	105.53	119.30
1	P	189	ASP	O-C-N	-10.59	110.77	123.27
1	B	260	ASN	CA-CB-CG	10.59	123.19	112.60
1	I	259	ALA	CA-C-N	10.58	138.40	120.72
1	I	259	ALA	C-N-CA	10.58	138.40	120.72
1	M	260	ASN	N-CA-C	10.58	126.01	112.89
1	O	46	LYS	CA-C-O	-10.58	107.91	120.60
1	A	286	ARG	NE-CZ-NH1	-10.58	110.92	121.50
1	L	69	SER	CA-C-N	10.58	141.01	121.97
1	L	69	SER	C-N-CA	10.58	141.01	121.97
1	P	478	GLN	OE1-CD-NE2	-10.58	112.02	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	177	ALA	N-CA-C	10.57	123.87	111.71
1	J	149	ILE	N-CA-CB	10.57	124.10	110.57
1	L	443	SER	N-CA-C	10.57	124.30	111.40
1	C	204	ASP	CA-C-N	10.57	141.73	121.54
1	C	204	ASP	C-N-CA	10.57	141.73	121.54
1	F	49	VAL	CA-C-O	-10.57	111.02	120.96
1	F	466	VAL	CA-C-O	-10.57	107.57	120.78
1	M	88	GLU	N-CA-C	10.56	133.30	110.80
1	A	153	ILE	N-CA-C	10.56	122.66	110.62
1	N	324	ARG	NE-CZ-NH1	-10.56	110.94	121.50
1	D	181	VAL	CA-C-O	10.56	132.18	120.46
1	H	19	ASP	O-C-N	10.56	134.58	122.22
1	L	205	ASP	O-C-N	-10.56	109.36	122.35
1	L	473	LYS	CA-C-O	-10.56	109.22	120.42
1	N	23	MET	O-C-N	-10.56	111.19	122.07
1	O	404	GLU	N-CA-CB	10.55	128.32	110.49
1	B	240	GLU	CA-C-O	-10.55	109.32	120.40
1	C	119	ILE	CA-C-O	-10.55	108.75	120.46
1	O	462	CYS	CA-C-O	10.55	131.60	120.42
1	B	453	VAL	CA-C-O	10.54	132.13	120.64
1	J	227	VAL	O-C-N	-10.55	109.06	122.88
1	F	216	LYS	O-C-N	-10.54	110.41	123.17
1	C	495	ALA	CA-C-O	-10.54	109.94	121.33
1	L	12	MET	CA-C-O	-10.54	105.43	120.51
1	D	40	GLY	CA-C-O	-10.54	106.45	121.52
1	J	314	ASP	CA-CB-CG	10.54	123.14	112.60
1	D	373	ILE	O-C-N	10.54	135.60	121.90
1	J	337	CYS	O-C-N	-10.54	108.58	122.59
1	L	270	ASP	N-CA-C	10.54	126.27	108.67
1	G	487	LEU	O-C-N	-10.53	108.64	122.33
1	C	59	ASN	CB-CA-C	10.53	127.67	109.24
1	F	191	ASP	O-C-N	-10.53	111.14	122.09
1	D	494	ILE	CA-C-O	-10.53	109.44	120.39
1	P	153	ILE	N-CA-C	10.53	124.21	111.05
1	A	438	ARG	NE-CZ-NH1	10.53	132.03	121.50
1	G	303	VAL	N-CA-C	10.52	123.14	108.93
1	O	10	GLU	CA-C-O	-10.52	109.37	121.47
1	E	36	ARG	NE-CZ-NH2	10.52	128.67	119.20
1	J	353	HIS	CA-CB-CG	10.52	124.32	113.80
1	P	51	ASP	CA-C-N	10.52	135.43	120.28
1	P	51	ASP	C-N-CA	10.52	135.43	120.28
1	P	138	ILE	CB-CA-C	-10.52	98.24	112.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	71	GLU	O-C-N	-10.52	108.60	122.59
1	M	174	ILE	N-CA-CB	10.52	121.66	110.62
1	N	476	ALA	CA-C-N	10.52	133.85	120.70
1	N	476	ALA	C-N-CA	10.52	133.85	120.70
1	O	257	SER	O-C-N	-10.51	108.61	122.59
1	P	377	ARG	CA-C-O	-10.51	109.01	120.36
1	G	15	TYR	O-C-N	10.51	135.61	123.31
1	J	187	LYS	CA-CB-CG	10.50	135.10	114.10
1	K	358	VAL	CA-C-N	10.50	137.88	121.19
1	K	358	VAL	C-N-CA	10.50	137.88	121.19
1	N	39	LEU	N-CA-C	10.50	125.70	109.96
1	F	221	ALA	CA-C-N	10.49	141.58	121.54
1	F	221	ALA	C-N-CA	10.49	141.58	121.54
1	C	98	VAL	N-CA-CB	10.49	122.06	110.62
1	C	18	ARG	CA-C-O	10.49	133.42	120.31
1	J	341	LYS	N-CA-C	-10.49	100.72	112.57
1	A	495	ALA	CA-C-O	-10.49	109.17	121.44
1	A	63	THR	N-CA-CB	10.49	128.21	110.49
1	J	246	MET	N-CA-CB	10.49	125.57	109.94
1	B	112	ASP	N-CA-C	10.48	125.89	112.89
1	D	84	THR	CA-C-O	-10.48	109.31	120.63
1	H	313	GLN	N-CA-C	10.48	122.67	111.03
1	A	72	HIS	ND1-CG-CD2	10.48	116.58	106.10
1	G	460	ASP	O-C-N	10.48	135.42	122.63
1	C	52	LEU	CA-C-O	-10.48	106.49	119.38
1	D	474	THR	CA-CB-OG1	10.48	125.31	109.60
1	F	81	VAL	CB-CA-C	10.48	126.42	111.65
1	O	377	ARG	NE-CZ-NH1	10.47	131.97	121.50
1	C	65	LEU	CA-C-N	10.47	134.47	120.65
1	C	65	LEU	C-N-CA	10.47	134.47	120.65
1	E	327	SER	O-C-N	-10.47	108.38	122.41
1	F	333	PHE	CA-CB-CG	10.47	124.27	113.80
1	H	107	ALA	N-CA-C	-10.47	99.03	112.23
1	H	242	THR	CA-C-N	10.47	141.54	121.54
1	H	242	THR	C-N-CA	10.47	141.54	121.54
1	N	244	SER	CA-C-O	-10.47	105.54	120.51
1	J	474	THR	CA-C-O	-10.47	109.92	120.70
1	C	259	ALA	CA-C-O	-10.47	108.44	120.58
1	C	129	GLN	CA-C-O	-10.46	109.92	120.70
1	D	427	GLY	CA-C-N	10.46	141.53	121.54
1	D	427	GLY	C-N-CA	10.46	141.53	121.54
1	N	66	ARG	O-C-N	-10.46	108.67	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	285	ARG	CA-C-O	-10.46	108.36	121.55
1	E	66	ARG	NE-CZ-NH1	10.46	131.96	121.50
1	E	482	GLU	CA-C-N	10.46	144.40	121.80
1	E	482	GLU	C-N-CA	10.46	144.40	121.80
1	A	305	THR	CA-CB-CG2	10.46	128.28	110.50
1	P	363	ASP	N-CA-CB	10.46	125.18	110.01
1	K	214	VAL	CA-C-O	-10.46	111.68	121.72
1	M	265	GLN	O-C-N	-10.46	108.52	122.43
1	C	270	ASP	CA-C-N	10.46	141.51	121.54
1	C	270	ASP	C-N-CA	10.46	141.51	121.54
1	E	418	ILE	CA-C-O	-10.46	111.68	118.69
1	P	59	ASN	CA-CB-CG	10.46	123.06	112.60
1	D	95	THR	CA-C-N	10.46	134.70	120.38
1	D	95	THR	C-N-CA	10.46	134.70	120.38
1	G	177	ALA	O-C-N	-10.46	108.32	122.33
1	G	202	SER	CA-C-O	-10.46	110.26	121.45
1	L	89	VAL	N-CA-CB	10.46	122.47	110.65
1	N	44	MET	CA-C-O	-10.46	109.45	121.58
1	J	142	VAL	N-CA-CB	-10.45	99.11	112.60
1	L	336	GLU	CB-CG-CD	10.45	130.37	112.60
1	M	418	ILE	N-CA-CB	10.46	118.61	110.45
1	O	239	ILE	CA-C-N	10.45	138.33	123.07
1	O	239	ILE	C-N-CA	10.45	138.33	123.07
1	C	135	LEU	O-C-N	-10.45	111.16	122.03
1	O	251	VAL	N-CA-C	10.45	120.24	110.42
1	L	268	ILE	O-C-N	-10.45	109.51	122.57
1	P	242	THR	CA-C-O	-10.45	109.20	120.80
1	G	425	ASN	OD1-CG-ND2	-10.44	112.16	122.60
1	L	336	GLU	CA-C-N	10.44	141.48	121.54
1	L	336	GLU	C-N-CA	10.44	141.48	121.54
1	M	178	VAL	N-CA-C	10.44	127.01	112.50
1	A	42	LYS	CA-C-O	-10.44	107.25	119.15
1	C	461	MET	O-C-N	-10.44	108.70	122.59
1	B	478	GLN	OE1-CD-NE2	-10.44	112.17	122.60
1	E	492	ASP	CA-CB-CG	10.44	123.03	112.60
1	I	353	HIS	CB-CG-CD2	10.43	144.76	131.20
1	K	156	THR	CA-C-O	10.43	131.97	119.97
1	M	195	ILE	N-CA-CB	-10.43	102.22	112.65
1	E	376	GLY	N-CA-C	10.43	126.78	114.16
1	F	69	SER	CA-C-N	10.43	136.00	120.77
1	F	69	SER	C-N-CA	10.43	136.00	120.77
1	F	108	GLU	O-C-N	10.43	133.18	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	438	ARG	NH1-CZ-NH2	10.43	132.86	119.30
1	P	135	LEU	O-C-N	-10.43	108.36	122.33
1	K	376	GLY	O-C-N	-10.43	111.05	122.73
1	M	479	SER	CA-C-N	10.43	135.28	120.79
1	M	479	SER	C-N-CA	10.43	135.28	120.79
1	N	160	GLY	O-C-N	-10.43	109.38	122.41
1	P	229	ASP	O-C-N	-10.43	110.77	122.55
1	D	229	ASP	O-C-N	-10.42	108.88	122.43
1	L	306	ASN	OD1-CG-ND2	-10.42	112.18	122.60
1	P	94	THR	CA-C-O	-10.42	109.50	120.55
1	M	94	THR	N-CA-CB	10.42	128.10	110.49
1	E	347	ILE	N-CA-CB	10.42	124.75	112.15
1	B	424	GLU	CA-C-O	-10.41	109.39	120.42
1	M	63	THR	CA-C-N	10.41	140.71	121.97
1	M	63	THR	C-N-CA	10.41	140.71	121.97
1	P	66	ARG	NE-CZ-NH1	10.41	131.91	121.50
1	D	72	HIS	CA-CB-CG	-10.41	103.39	113.80
1	P	379	VAL	O-C-N	-10.41	109.56	122.57
1	E	29	ARG	CB-CA-C	10.40	127.93	111.39
1	K	134	LEU	N-CA-C	10.40	123.67	111.71
1	M	152	LYS	CA-C-O	-10.40	107.48	119.24
1	C	415	LEU	O-C-N	-10.40	108.76	122.59
1	I	269	ASP	CA-CB-CG	10.40	123.00	112.60
1	O	69	SER	O-C-N	-10.39	108.77	122.59
1	J	72	HIS	CB-CG-ND1	10.39	138.28	122.70
1	B	16	MET	N-CA-C	10.39	132.93	110.80
1	L	414	ALA	N-CA-C	10.39	123.58	111.11
1	G	469	PRO	CA-C-O	-10.38	109.11	122.19
1	J	216	LYS	N-CA-C	10.38	126.31	108.76
1	M	339	HIS	ND1-CE1-NE2	-10.38	98.02	108.40
1	M	373	ILE	O-C-N	10.38	135.54	122.57
1	M	438	ARG	O-C-N	10.38	132.88	122.09
1	D	147	LYS	O-C-N	-10.38	108.24	122.46
1	K	417	VAL	CB-CA-C	10.38	125.25	111.87
1	P	99	VAL	CA-C-O	10.37	133.75	120.78
1	P	357	GLU	CA-C-O	10.37	133.15	121.02
1	A	240	GLU	N-CA-C	10.37	125.11	108.41
1	F	254	ILE	CA-C-O	-10.37	107.03	119.58
1	B	389	LEU	CA-C-O	-10.37	109.81	120.90
1	K	408	VAL	CA-CB-CG2	10.37	128.02	110.40
1	C	338	LYS	CA-C-O	-10.36	109.94	120.82
1	D	422	LEU	N-CA-CB	10.36	128.00	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	348	ARG	NE-CZ-NH2	-10.36	109.88	119.20
1	G	205	ASP	CA-CB-CG	10.36	122.96	112.60
1	O	420	ARG	NH1-CZ-NH2	10.36	132.76	119.30
1	I	156	THR	CA-C-N	10.35	134.52	120.44
1	I	156	THR	C-N-CA	10.35	134.52	120.44
1	O	369	VAL	N-CA-C	10.35	120.86	110.82
1	F	495	ALA	CA-C-N	10.35	141.30	121.54
1	F	495	ALA	C-N-CA	10.35	141.30	121.54
1	P	212	VAL	N-CA-C	10.35	123.08	107.77
1	A	167	LYS	CA-CB-CG	10.34	134.78	114.10
1	B	38	THR	N-CA-C	10.34	126.60	113.88
1	F	304	ILE	CA-C-O	-10.34	110.34	121.93
1	N	114	ASN	N-CA-C	10.34	125.55	111.90
1	P	335	GLU	N-CA-C	10.34	124.84	109.95
1	A	45	ASP	CA-CB-CG	-10.34	102.26	112.60
1	N	145	GLN	CA-C-N	10.34	136.77	122.19
1	N	145	GLN	C-N-CA	10.34	136.77	122.19
1	O	366	VAL	CA-C-N	10.34	131.21	119.94
1	O	366	VAL	C-N-CA	10.34	131.21	119.94
1	P	172	GLU	N-CA-CB	10.34	125.00	110.01
1	H	202	SER	CA-C-N	10.34	133.93	120.60
1	H	202	SER	C-N-CA	10.34	133.93	120.60
1	I	57	VAL	CB-CA-C	-10.33	96.10	110.77
1	K	146	ASP	CA-C-O	-10.33	109.70	120.96
1	D	481	ALA	N-CA-C	10.33	122.62	111.36
1	I	14	ARG	O-C-N	-10.33	111.19	123.27
1	I	417	VAL	O-C-N	10.33	135.48	122.57
1	M	144	ALA	N-CA-C	10.33	122.54	111.28
1	E	242	THR	CB-CA-C	10.32	126.82	109.48
1	H	321	VAL	CA-C-O	-10.32	107.88	120.78
1	H	330	SER	CA-C-O	-10.32	109.31	120.36
1	M	493	VAL	O-C-N	-10.32	110.06	122.66
1	K	178	VAL	N-CA-C	10.32	127.21	113.07
1	O	75	ALA	CA-C-O	10.32	131.76	120.20
1	C	324	ARG	CA-C-O	-10.32	107.56	120.57
1	K	65	LEU	O-C-N	10.32	135.04	122.35
1	K	478	GLN	OE1-CD-NE2	-10.32	112.28	122.60
1	H	42	LYS	O-C-N	10.32	134.53	122.25
1	B	246	MET	CA-CB-CG	10.31	134.73	114.10
1	I	291	ASP	CA-C-N	10.31	134.26	120.65
1	I	291	ASP	C-N-CA	10.31	134.26	120.65
1	M	493	VAL	CA-C-O	10.31	134.10	120.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	115	VAL	CA-C-N	10.31	135.13	120.49
1	N	115	VAL	C-N-CA	10.31	135.13	120.49
1	L	496	ALA	N-CA-C	10.31	126.46	109.24
1	B	132	GLN	O-C-N	-10.31	111.05	122.08
1	J	118	THR	CA-CB-CG2	10.31	128.02	110.50
1	J	408	VAL	CA-C-O	-10.31	110.55	121.27
1	M	442	ALA	CA-C-O	-10.31	105.65	119.05
1	P	423	ALA	O-C-N	-10.31	111.31	122.03
1	J	97	VAL	CA-C-N	10.31	133.75	120.56
1	J	97	VAL	C-N-CA	10.31	133.75	120.56
1	L	125	GLN	OE1-CD-NE2	-10.30	112.30	122.60
1	B	300	GLY	CA-C-O	10.30	130.08	118.96
1	J	441	HIS	CE1-NE2-CD2	-10.30	98.70	109.00
1	D	19	ASP	N-CA-CB	10.29	124.94	110.01
1	O	18	ARG	NE-CZ-NH1	-10.29	111.20	121.50
1	A	67	GLU	O-C-N	10.29	134.05	122.11
1	A	379	VAL	N-CA-C	10.29	122.52	108.11
1	F	374	GLU	CA-CB-CG	10.29	134.69	114.10
1	G	489	ARG	CA-C-O	-10.29	110.10	120.70
1	A	268	ILE	N-CA-CB	10.29	128.21	111.23
1	F	276	LEU	O-C-N	10.29	136.27	122.59
1	B	114	ASN	OD1-CG-ND2	-10.29	112.31	122.60
1	H	480	ALA	CA-C-N	10.29	135.94	120.31
1	H	480	ALA	C-N-CA	10.29	135.94	120.31
1	I	63	THR	O-C-N	10.28	134.91	122.27
1	N	376	GLY	O-C-N	-10.28	107.70	122.19
1	D	306	ASN	CA-CB-CG	10.28	122.88	112.60
1	I	141	GLU	CA-C-O	-10.28	109.76	120.96
1	E	114	ASN	OD1-CG-ND2	-10.27	112.33	122.60
1	D	51	ASP	CA-C-N	10.27	134.87	120.29
1	D	51	ASP	C-N-CA	10.27	134.87	120.29
1	N	353	HIS	CA-C-O	-10.27	110.02	120.80
1	H	303	VAL	N-CA-CB	-10.27	99.48	111.39
1	I	93	THR	CA-C-N	10.27	134.40	120.44
1	I	93	THR	C-N-CA	10.27	134.40	120.44
1	N	43	GLY	O-C-N	10.27	136.98	122.61
1	G	125	GLN	CB-CG-CD	10.26	130.05	112.60
1	L	240	GLU	CA-C-O	-10.26	110.25	120.92
1	M	451	LEU	N-CA-C	10.26	123.69	109.11
1	D	159	THR	CA-C-N	10.26	135.83	121.26
1	D	159	THR	C-N-CA	10.26	135.83	121.26
1	F	420	ARG	CA-C-O	-10.26	105.84	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	131	ALA	CA-C-O	-10.26	109.43	120.92
1	N	94	THR	N-CA-CB	10.26	127.83	110.49
1	M	192	LEU	N-CA-C	10.26	123.72	111.82
1	G	265	GLN	CA-C-N	10.25	141.12	121.54
1	G	265	GLN	C-N-CA	10.25	141.12	121.54
1	H	354	VAL	O-C-N	-10.25	109.75	122.57
1	I	474	THR	O-C-N	-10.25	111.02	122.09
1	M	249	ASP	CA-CB-CG	10.25	122.85	112.60
1	C	351	THR	CA-C-O	-10.25	108.96	120.54
1	D	72	HIS	CE1-NE2-CD2	-10.25	98.75	109.00
1	H	488	LEU	CA-C-O	-10.25	109.56	120.42
1	M	285	ARG	CA-C-O	-10.25	109.69	121.47
1	O	153	ILE	N-CA-C	10.24	123.89	111.09
1	O	58	THR	N-CA-C	10.24	124.70	109.24
1	O	59	ASN	CA-CB-CG	10.24	122.84	112.60
1	E	429	ASP	CB-CA-C	10.24	126.53	109.84
1	L	148	GLU	N-CA-CB	10.24	127.79	110.49
1	F	280	GLY	CA-C-N	10.23	140.39	121.97
1	F	280	GLY	C-N-CA	10.23	140.39	121.97
1	M	417	VAL	CA-C-O	-10.23	110.77	121.41
1	D	129	GLN	O-C-N	10.23	133.03	122.08
1	J	36	ARG	NE-CZ-NH2	10.23	128.41	119.20
1	O	193	ILE	N-CA-C	10.23	122.43	106.88
1	G	342	ALA	CA-C-O	10.23	132.87	120.60
1	A	97	VAL	N-CA-C	10.23	120.14	110.53
1	L	78	LEU	N-CA-C	10.23	126.08	113.50
1	I	366	VAL	O-C-N	-10.22	110.26	122.12
1	M	490	ILE	CB-CA-C	-10.22	97.63	111.33
1	L	377	ARG	NE-CZ-NH1	10.22	131.72	121.50
1	C	243	ALA	CB-CA-C	10.22	130.75	110.42
1	G	72	HIS	CB-CG-CD2	-10.21	117.92	131.20
1	G	417	VAL	O-C-N	10.21	133.34	121.80
1	H	215	ASP	CA-CB-CG	-10.22	102.38	112.60
1	I	64	ILE	CA-CB-CG2	10.22	127.87	110.50
1	J	493	VAL	CA-C-N	10.21	135.62	122.95
1	J	493	VAL	C-N-CA	10.21	135.62	122.95
1	A	405	GLN	N-CA-C	-10.21	99.70	111.03
1	G	137	THR	N-CA-C	10.21	122.49	111.36
1	P	10	GLU	N-CA-CB	10.21	127.74	110.49
1	F	161	LYS	CA-C-O	10.20	132.73	121.40
1	F	464	ASN	CA-CB-CG	-10.21	102.39	112.60
1	I	242	THR	CB-CA-C	10.20	126.22	109.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	475	GLN	N-CA-CB	-10.20	95.03	110.13
1	H	36	ARG	CD-NE-CZ	-10.20	110.11	124.40
1	G	331	MET	N-CA-CB	10.20	129.39	111.13
1	C	242	THR	CA-CB-CG2	10.20	127.83	110.50
1	L	79	ILE	CA-C-O	-10.20	109.80	120.71
1	B	33	GLU	O-C-N	10.19	132.93	122.12
1	N	72	HIS	CA-CB-CG	-10.19	103.61	113.80
1	D	365	ALA	CA-C-N	10.19	137.56	120.64
1	D	365	ALA	C-N-CA	10.19	137.56	120.64
1	J	311	SER	CA-C-O	-10.19	110.09	121.40
1	J	425	ASN	O-C-N	10.19	135.99	122.33
1	L	364	ASP	CA-CB-CG	10.19	122.79	112.60
1	D	278	LYS	O-C-N	-10.19	110.39	122.11
1	G	476	ALA	CA-C-O	-10.19	107.77	119.79
1	H	126	ALA	O-C-N	-10.19	111.32	122.12
1	H	406	LEU	CA-C-N	10.19	134.10	120.65
1	H	406	LEU	C-N-CA	10.19	134.10	120.65
1	P	489	ARG	NE-CZ-NH2	-10.19	110.03	119.20
1	M	11	ASN	CA-C-N	10.19	140.99	121.54
1	M	11	ASN	C-N-CA	10.19	140.99	121.54
1	A	205	ASP	O-C-N	-10.18	109.25	122.39
1	J	88	GLU	CA-C-O	-10.18	107.90	119.81
1	H	83	LYS	CA-C-O	-10.18	109.76	120.55
1	K	407	ALA	CA-C-O	-10.18	108.24	120.56
1	O	399	GLY	O-C-N	10.18	134.05	122.34
1	G	441	HIS	CA-CB-CG	10.18	123.97	113.80
1	I	143	GLY	O-C-N	-10.18	113.82	122.77
1	L	271	LEU	CA-C-N	10.18	137.70	120.71
1	L	271	LEU	C-N-CA	10.18	137.70	120.71
1	D	441	HIS	CE1-NE2-CD2	-10.17	98.83	109.00
1	G	270	ASP	CA-CB-CG	10.17	122.77	112.60
1	P	156	THR	N-CA-CB	10.17	125.32	110.06
1	E	206	THR	CA-C-N	10.17	141.25	122.74
1	E	206	THR	C-N-CA	10.17	141.25	122.74
1	C	347	ILE	O-C-N	-10.17	113.82	122.97
1	F	447	LYS	CA-C-O	10.17	131.20	120.42
1	I	352	GLU	CB-CA-C	10.17	126.85	110.88
1	O	235	LEU	CB-CA-C	10.17	127.05	110.16
1	P	91	ASP	CA-C-O	-10.17	110.78	120.95
1	P	308	LYS	CA-C-N	10.17	140.97	121.54
1	P	308	LYS	C-N-CA	10.17	140.97	121.54
1	C	181	VAL	CB-CA-C	-10.17	98.19	112.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	239	ILE	O-C-N	-10.17	109.86	122.57
1	C	360	ARG	CD-NE-CZ	10.16	138.62	124.40
1	O	325	LYS	CA-C-O	-10.16	109.02	120.70
1	B	360	ARG	NE-CZ-NH1	10.16	131.66	121.50
1	K	12	MET	CA-C-N	10.16	140.94	121.54
1	K	12	MET	C-N-CA	10.16	140.94	121.54
1	M	241	GLU	CA-C-O	-10.16	110.13	121.51
1	N	224	PRO	CB-CA-C	10.16	128.32	111.56
1	P	389	LEU	N-CA-C	-10.16	100.04	111.82
1	B	87	LYS	CA-C-N	10.15	140.93	121.54
1	B	87	LYS	C-N-CA	10.15	140.93	121.54
1	I	61	GLY	N-CA-C	10.15	124.92	112.73
1	I	140	CYS	CA-C-O	10.15	131.10	120.54
1	J	455	THR	CA-C-O	10.15	131.41	120.55
1	I	435	VAL	CA-CB-CG1	10.15	127.65	110.40
1	P	489	ARG	N-CA-C	10.15	122.29	111.03
1	H	493	VAL	N-CA-CB	10.14	124.27	112.40
1	N	405	GLN	CA-C-N	-10.14	106.77	122.60
1	N	405	GLN	C-N-CA	-10.14	106.77	122.60
1	C	403	ARG	NE-CZ-NH1	-10.14	111.36	121.50
1	M	274	HIS	CA-CB-CG	-10.14	103.66	113.80
1	P	50	ASP	N-CA-C	10.14	124.34	110.35
1	G	348	ARG	CA-C-O	-10.14	109.97	120.71
1	N	430	ALA	N-CA-C	10.14	132.40	110.80
1	P	429	ASP	CA-C-O	10.14	132.36	120.70
1	O	85	GLN	OE1-CD-NE2	10.14	132.74	122.60
1	E	474	THR	CA-CB-OG1	10.13	124.80	109.60
1	G	9	PRO	CA-C-O	-10.13	102.16	120.60
1	J	265	GLN	N-CA-CB	10.13	125.82	110.22
1	O	29	ARG	N-CA-CB	10.13	125.15	110.16
1	H	128	ALA	N-CA-C	-10.13	101.01	113.97
1	K	335	GLU	CA-C-O	-10.12	109.72	121.16
1	N	54	ASP	CA-C-N	10.12	133.86	122.22
1	N	54	ASP	C-N-CA	10.12	133.86	122.22
1	L	183	ASP	O-C-N	-10.12	111.33	123.27
1	B	108	GLU	O-C-N	10.12	132.56	122.03
1	O	87	LYS	O-C-N	10.12	132.62	122.09
1	I	376	GLY	CA-C-N	10.12	137.04	122.77
1	I	376	GLY	C-N-CA	10.12	137.04	122.77
1	M	15	TYR	N-CA-CB	10.12	130.14	111.11
1	P	70	VAL	O-C-N	-10.12	109.92	122.57
1	P	114	ASN	O-C-N	-10.12	111.05	121.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	112	ASP	CA-CB-CG	10.12	122.72	112.60
1	L	14	ARG	NH1-CZ-NH2	10.11	132.45	119.30
1	L	353	HIS	CE1-NE2-CD2	10.11	119.11	109.00
1	A	169	LYS	O-C-N	10.11	135.37	122.23
1	B	18	ARG	CD-NE-CZ	10.11	138.55	124.40
1	P	129	GLN	CG-CD-OE1	10.11	141.02	120.80
1	P	138	ILE	CA-C-O	-10.11	109.83	121.05
1	F	429	ASP	O-C-N	-10.11	110.80	122.93
1	J	338	LYS	CA-C-O	-10.11	105.98	120.13
1	K	339	HIS	CA-C-N	-10.11	109.35	119.76
1	K	339	HIS	C-N-CA	-10.11	109.35	119.76
1	A	315	LEU	CA-C-O	-10.10	109.29	121.11
1	J	221	ALA	O-C-N	10.10	134.70	122.27
1	M	66	ARG	CD-NE-CZ	10.10	138.54	124.40
1	P	182	VAL	CA-C-O	-10.10	109.41	121.13
1	B	93	THR	N-CA-C	-10.10	99.96	110.97
1	M	217	GLU	CA-C-O	-10.10	110.33	121.94
1	F	372	THR	CA-C-O	-10.10	109.43	121.34
1	M	353	HIS	O-C-N	-10.10	110.64	122.15
1	P	289	LYS	CB-CA-C	10.10	126.73	110.88
1	E	468	GLU	CA-C-O	-10.09	110.75	120.94
1	K	286	ARG	CA-CB-CG	10.09	134.29	114.10
1	L	309	ASP	CA-C-O	-10.09	107.69	120.31
1	C	144	ALA	N-CA-C	10.09	125.74	113.23
1	M	177	ALA	CB-CA-C	10.09	126.90	109.24
1	O	244	SER	O-C-N	-10.09	109.17	122.59
1	A	221	ALA	CA-C-O	-10.09	107.89	119.79
1	E	249	ASP	CA-CB-CG	10.09	122.69	112.60
1	O	252	ALA	CA-C-N	10.09	133.56	120.44
1	O	252	ALA	C-N-CA	10.09	133.56	120.44
1	A	377	ARG	CD-NE-CZ	10.08	138.51	124.40
1	B	180	ALA	N-CA-C	10.08	123.70	111.40
1	C	374	GLU	CA-C-N	10.08	137.79	123.07
1	C	374	GLU	C-N-CA	10.08	137.79	123.07
1	E	141	GLU	O-C-N	10.08	134.90	123.01
1	E	288	LYS	O-C-N	-10.08	111.40	123.19
1	P	24	ASN	OD1-CG-ND2	10.08	132.68	122.60
1	I	202	SER	N-CA-C	10.08	124.87	108.34
1	D	89	VAL	N-CA-C	10.08	119.89	110.42
1	P	381	GLY	CA-C-O	-10.08	109.95	122.75
1	F	323	GLU	CA-C-N	10.07	136.17	122.77
1	F	323	GLU	C-N-CA	10.07	136.17	122.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	83	LYS	O-C-N	10.07	135.99	122.59
1	B	313	GLN	CA-CB-CG	10.07	134.25	114.10
1	D	451	LEU	N-CA-CB	10.07	126.00	111.19
1	J	63	THR	O-C-N	-10.07	109.20	122.59
1	K	336	GLU	CB-CG-CD	10.07	129.72	112.60
1	K	379	VAL	CA-CB-CG2	10.07	127.52	110.40
1	D	280	GLY	CA-C-N	10.07	135.47	120.77
1	D	280	GLY	C-N-CA	10.07	135.47	120.77
1	F	417	VAL	CA-C-O	-10.07	109.80	120.57
1	O	187	LYS	CA-CB-CG	10.07	134.24	114.10
1	A	39	LEU	CB-CA-C	10.06	125.99	109.89
1	G	471	ARG	NE-CZ-NH2	10.06	128.26	119.20
1	I	66	ARG	NE-CZ-NH2	10.06	128.25	119.20
1	P	34	THR	N-CA-CB	10.06	124.93	109.94
1	O	185	GLU	N-CA-C	10.06	132.23	110.80
1	B	254	ILE	CA-C-O	-10.06	110.51	121.17
1	B	353	HIS	N-CA-CB	10.06	124.60	110.01
1	E	258	GLY	CA-C-N	10.06	140.75	121.54
1	E	258	GLY	C-N-CA	10.06	140.75	121.54
1	O	364	ASP	CA-C-N	10.06	135.91	120.82
1	O	364	ASP	C-N-CA	10.06	135.91	120.82
1	H	355	ILE	CA-CB-CG1	10.05	127.49	110.40
1	P	218	ARG	CA-C-N	10.05	137.58	120.29
1	P	218	ARG	C-N-CA	10.05	137.58	120.29
1	A	200	GLY	O-C-N	-10.05	109.63	122.70
1	B	177	ALA	N-CA-C	10.05	125.35	112.89
1	H	368	VAL	N-CA-C	10.05	130.24	109.34
1	L	467	VAL	O-C-N	-10.05	111.87	122.82
1	M	367	GLY	CA-C-N	10.05	140.06	121.97
1	M	367	GLY	C-N-CA	10.05	140.06	121.97
1	K	158	ILE	CA-C-O	-10.05	108.22	120.78
1	K	351	THR	N-CA-CB	10.05	127.53	110.65
1	P	10	GLU	CA-C-O	-10.04	106.15	120.51
1	O	353	HIS	CA-C-O	-10.04	110.46	121.00
1	B	71	GLU	O-C-N	-10.04	109.24	122.59
1	L	159	THR	O-C-N	-10.04	109.66	123.11
1	D	113	GLN	CB-CA-C	-10.04	103.58	117.23
1	L	411	PHE	CA-CB-CG	10.04	123.84	113.80
1	C	17	GLY	O-C-N	-10.04	109.65	122.70
1	C	389	LEU	O-C-N	-10.04	111.48	122.12
1	C	427	GLY	O-C-N	-10.03	107.48	121.83
1	N	195	ILE	N-CA-CB	-10.03	102.62	112.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	255	LYS	O-C-N	-10.03	110.04	122.17
1	J	467	VAL	O-C-N	-10.03	112.24	122.97
1	I	127	ALA	O-C-N	10.03	134.87	122.34
1	J	236	ASN	OD1-CG-ND2	-10.03	112.57	122.60
1	P	93	THR	CA-C-O	-10.03	110.37	120.70
1	A	407	ALA	CA-C-O	-10.02	110.28	120.80
1	B	13	LYS	O-C-N	-10.02	111.58	123.10
1	E	51	ASP	N-CA-CB	10.02	127.43	110.49
1	K	133	GLU	CA-C-O	-10.02	110.38	120.70
1	O	438	ARG	NE-CZ-NH2	-10.02	110.18	119.20
1	O	63	THR	CA-C-O	-10.02	107.31	119.43
1	K	114	ASN	N-CA-C	10.02	132.13	110.80
1	L	49	VAL	CA-CB-CG1	10.02	127.43	110.40
1	I	73	PRO	CA-C-O	10.01	132.68	118.86
1	J	373	ILE	CA-C-O	-10.01	108.27	120.78
1	K	473	LYS	O-C-N	10.01	135.85	122.43
1	E	368	VAL	CA-C-N	10.01	139.99	121.97
1	E	368	VAL	C-N-CA	10.01	139.99	121.97
1	H	404	GLU	CA-C-O	-10.01	109.94	120.55
1	I	373	ILE	CA-C-O	-10.01	108.62	120.83
1	E	122	LYS	CA-C-O	-10.01	108.99	120.20
1	H	105	ARG	CA-C-O	-10.01	110.39	120.70
1	N	235	LEU	O-C-N	-10.01	109.45	123.06
1	P	425	ASN	CA-CB-CG	10.01	122.61	112.60
1	F	140	CYS	N-CA-C	10.01	124.18	108.67
1	H	482	GLU	CB-CG-CD	10.00	129.61	112.60
1	B	491	ASP	CB-CG-OD2	10.00	141.40	118.40
1	G	395	GLU	CB-CA-C	10.00	127.39	110.79
1	L	377	ARG	O-C-N	-10.00	109.29	122.59
1	I	170	LEU	N-CA-C	10.00	125.34	112.34
1	N	33	GLU	CA-C-O	-10.00	106.21	120.51
1	A	56	VAL	CA-C-O	-10.00	110.51	120.31
1	M	45	ASP	CA-CB-CG	-10.00	102.60	112.60
1	A	219	VAL	CA-CB-CG2	10.00	127.39	110.40
1	C	132	GLN	CA-C-O	9.99	131.31	120.82
1	C	403	ARG	NH1-CZ-NH2	9.99	132.29	119.30
1	D	22	ARG	CA-C-N	-9.99	104.04	120.72
1	D	22	ARG	C-N-CA	-9.99	104.04	120.72
1	N	119	ILE	O-C-N	9.99	130.87	121.98
1	P	421	THR	N-CA-CB	9.99	124.80	110.12
1	M	355	ILE	CB-CA-C	-9.98	98.99	111.87
1	O	282	VAL	CA-C-O	-9.98	112.18	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	293	GLU	O-C-N	-9.98	109.86	122.34
1	E	19	ASP	CA-CB-CG	9.98	122.58	112.60
1	A	169	LYS	CA-C-O	-9.98	109.16	120.24
1	A	468	GLU	CA-C-O	-9.98	110.49	120.97
1	E	349	GLY	CA-C-O	-9.98	111.78	121.96
1	K	41	PRO	CA-C-N	9.98	137.24	122.87
1	K	41	PRO	C-N-CA	9.98	137.24	122.87
1	K	446	ASN	CA-C-O	9.98	131.58	120.90
1	L	89	VAL	CA-C-O	-9.98	109.60	121.18
1	P	298	ALA	CA-C-N	9.98	140.60	121.54
1	M	89	VAL	O-C-N	9.98	132.10	121.83
1	N	353	HIS	CA-CB-CG	9.98	123.78	113.80
1	O	137	THR	CA-CB-OG1	9.98	124.57	109.60
1	P	298	ALA	C-N-CA	9.98	140.60	121.54
1	C	304	ILE	CA-C-N	9.97	140.59	121.54
1	C	304	ILE	C-N-CA	9.97	140.59	121.54
1	O	495	ALA	N-CA-C	9.97	125.06	109.81
1	K	198	LYS	CA-C-N	9.97	136.25	122.19
1	K	198	LYS	C-N-CA	9.97	136.25	122.19
1	D	246	MET	CA-C-O	9.97	131.36	120.10
1	H	495	ALA	CA-C-O	-9.96	110.35	121.51
1	O	210	LYS	CA-C-N	9.97	140.94	121.41
1	O	210	LYS	C-N-CA	9.97	140.94	121.41
1	F	175	VAL	O-C-N	9.96	133.06	121.80
1	K	15	TYR	N-CA-CB	9.96	127.11	110.87
1	F	55	VAL	O-C-N	-9.96	113.37	123.03
1	H	478	GLN	OE1-CD-NE2	-9.96	112.64	122.60
1	I	152	LYS	CB-CA-C	9.95	130.23	110.42
1	F	151	THR	O-C-N	-9.95	109.55	122.39
1	D	360	ARG	CD-NE-CZ	9.95	138.33	124.40
1	F	395	GLU	CB-CA-C	9.95	129.75	109.95
1	L	294	LYS	CA-C-N	9.95	137.33	120.71
1	L	294	LYS	C-N-CA	9.95	137.33	120.71
1	G	459	GLU	CA-C-O	-9.95	109.82	121.46
1	D	363	ASP	CA-C-O	-9.95	109.20	120.24
1	E	131	ALA	O-C-N	9.95	132.43	122.09
1	E	473	LYS	CA-C-N	9.95	133.61	120.28
1	E	473	LYS	C-N-CA	9.95	133.61	120.28
1	N	104	LEU	CA-C-O	-9.95	107.88	120.31
1	P	438	ARG	CD-NE-CZ	-9.95	110.48	124.40
1	F	418	ILE	N-CA-CB	9.94	125.13	111.21
1	I	302	ASN	OD1-CG-ND2	-9.94	112.66	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	446	ASN	CA-C-N	9.94	140.53	121.54
1	M	446	ASN	C-N-CA	9.94	140.53	121.54
1	O	336	GLU	CA-C-N	9.94	134.92	120.90
1	O	336	GLU	C-N-CA	9.94	134.92	120.90
1	F	422	LEU	CA-C-N	9.94	137.58	120.58
1	F	422	LEU	C-N-CA	9.94	137.58	120.58
1	F	486	MET	O-C-N	9.94	132.82	122.09
1	G	289	LYS	CA-C-O	9.94	131.33	120.10
1	L	374	GLU	O-C-N	-9.94	109.37	122.59
1	G	198	LYS	CA-C-N	9.94	137.06	121.56
1	G	198	LYS	C-N-CA	9.94	137.06	121.56
1	I	182	VAL	N-CA-C	9.94	130.01	109.34
1	J	470	LEU	O-C-N	-9.94	110.43	122.25
1	N	116	HIS	N-CA-C	-9.94	97.21	109.83
1	P	452	ASN	N-CA-CB	9.94	125.01	109.71
1	I	457	ALA	O-C-N	9.93	135.80	122.59
1	P	139	ALA	N-CA-CB	-9.93	93.81	109.51
1	P	376	GLY	CA-C-N	9.93	137.00	122.99
1	P	376	GLY	C-N-CA	9.93	137.00	122.99
1	J	479	SER	N-CA-CB	9.93	125.67	110.28
1	D	138	ILE	O-C-N	9.93	132.99	122.07
1	F	284	ALA	CA-C-N	9.93	135.62	121.42
1	F	284	ALA	C-N-CA	9.93	135.62	121.42
1	P	327	SER	CA-C-N	9.93	140.87	121.41
1	P	327	SER	C-N-CA	9.93	140.87	121.41
1	H	134	LEU	O-C-N	-9.93	111.60	122.12
1	M	272	ALA	N-CA-C	9.93	125.20	112.89
1	A	410	ALA	O-C-N	-9.93	109.49	122.39
1	C	130	LYS	CA-C-O	-9.93	107.48	119.49
1	F	480	ALA	O-C-N	-9.93	110.23	122.24
1	L	153	ILE	N-CA-CB	9.93	121.04	110.62
1	H	419	PRO	CA-C-O	9.92	132.89	119.00
1	I	483	SER	CA-C-N	-9.92	105.09	122.26
1	I	483	SER	C-N-CA	-9.92	105.09	122.26
1	P	381	GLY	CA-C-N	9.92	138.82	121.07
1	P	381	GLY	C-N-CA	9.92	138.82	121.07
1	D	53	GLY	CA-C-N	9.92	135.23	121.05
1	D	53	GLY	C-N-CA	9.92	135.23	121.05
1	I	418	ILE	CA-C-N	-9.92	109.54	119.56
1	I	418	ILE	C-N-CA	-9.92	109.54	119.56
1	J	65	LEU	O-C-N	-9.92	110.17	122.17
1	M	285	ARG	N-CA-CB	9.92	125.37	110.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	289	LYS	N-CA-CB	9.91	127.24	110.49
1	N	119	ILE	CA-C-O	-9.91	111.21	120.73
1	N	305	THR	N-CA-CB	9.91	127.24	110.49
1	A	487	LEU	N-CA-CB	9.91	127.24	110.49
1	B	372	THR	CA-C-O	-9.91	107.90	119.59
1	O	371	CYS	O-C-N	-9.91	108.79	122.46
1	O	112	ASP	CA-CB-CG	9.90	122.50	112.60
1	G	235	LEU	CA-C-O	-9.90	108.31	120.89
1	H	8	LEU	CA-C-O	-9.90	106.59	120.16
1	H	71	GLU	CA-C-N	9.90	134.99	120.83
1	H	71	GLU	C-N-CA	9.90	134.99	120.83
1	H	296	ALA	CA-C-O	9.90	131.35	119.97
1	M	243	ALA	O-C-N	-9.90	109.42	122.59
1	A	98	VAL	N-CA-CB	9.90	121.01	110.62
1	F	360	ARG	N-CA-CB	9.90	124.87	109.82
1	D	306	ASN	O-C-N	-9.90	109.52	121.79
1	E	372	THR	N-CA-C	9.89	124.61	112.54
1	D	326	ILE	O-C-N	-9.89	114.07	122.97
1	D	326	ILE	CA-CB-CG1	9.89	127.21	110.40
1	L	55	VAL	CA-C-O	-9.89	107.77	121.51
1	A	142	VAL	CA-C-N	9.88	131.21	120.44
1	A	142	VAL	C-N-CA	9.88	131.21	120.44
1	I	274	HIS	O-C-N	-9.88	111.89	122.07
1	O	182	VAL	N-CA-C	9.89	129.90	109.34
1	B	461	MET	N-CA-C	9.88	123.08	111.02
1	C	247	LEU	CA-C-N	9.88	135.33	120.31
1	C	247	LEU	C-N-CA	9.88	135.33	120.31
1	D	64	ILE	CA-C-O	9.88	131.65	121.17
1	H	221	ALA	O-C-N	9.88	136.00	122.46
1	N	229	ASP	O-C-N	-9.88	109.58	122.43
1	B	303	VAL	N-CA-CB	-9.88	99.76	110.53
1	E	88	GLU	CA-C-N	9.88	135.94	121.02
1	E	88	GLU	C-N-CA	9.88	135.94	121.02
1	F	143	GLY	O-C-N	9.88	135.54	122.70
1	K	474	THR	N-CA-CB	9.88	124.92	110.20
1	G	86	GLU	O-C-N	-9.88	111.42	122.09
1	O	54	ASP	CA-CB-CG	9.88	122.47	112.60
1	O	466	VAL	N-CA-CB	-9.88	102.41	112.28
1	C	279	GLU	N-CA-C	9.87	122.04	111.28
1	I	364	ASP	CA-C-O	-9.87	109.99	120.55
1	A	55	VAL	CA-C-N	9.87	136.73	123.11
1	A	55	VAL	C-N-CA	9.87	136.73	123.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	8	LEU	CA-C-O	-9.87	106.64	120.16
1	E	400	ILE	N-CA-CB	9.87	122.48	110.64
1	K	340	PRO	CA-N-CD	-9.87	98.19	112.00
1	O	31	ILE	CA-C-O	9.87	133.11	120.78
1	N	462	CYS	O-C-N	-9.86	108.85	122.46
1	C	256	ALA	O-C-N	9.86	134.40	122.27
1	I	444	ASN	CB-CG-ND2	-9.86	101.61	116.40
1	A	10	GLU	N-CA-C	9.86	131.79	110.80
1	B	489	ARG	CD-NE-CZ	9.86	138.20	124.40
1	K	411	PHE	CA-CB-CG	9.86	123.66	113.80
1	N	161	LYS	CB-CA-C	9.86	131.13	111.22
1	H	306	ASN	CB-CG-ND2	9.85	131.18	116.40
1	N	158	ILE	O-C-N	-9.85	110.25	122.57
1	F	411	PHE	CA-CB-CG	9.85	123.65	113.80
1	D	360	ARG	CA-C-O	-9.85	107.86	119.78
1	E	218	ARG	O-C-N	9.85	135.69	122.59
1	G	354	VAL	N-CA-C	9.85	120.67	110.62
1	G	455	THR	O-C-N	-9.85	109.29	122.49
1	P	263	PHE	O-C-N	-9.85	111.85	123.27
1	B	129	GLN	OE1-CD-NE2	-9.85	112.75	122.60
1	G	313	GLN	CB-CG-CD	9.85	129.34	112.60
1	K	306	ASN	OD1-CG-ND2	-9.85	112.75	122.60
1	L	12	MET	O-C-N	-9.85	109.49	122.59
1	P	272	ALA	N-CA-C	9.85	123.03	111.02
1	G	446	ASN	CA-C-N	9.84	137.64	122.29
1	G	446	ASN	C-N-CA	9.84	137.64	122.29
1	N	454	PHE	CA-CB-CG	-9.84	103.96	113.80
1	C	125	GLN	OE1-CD-NE2	9.84	132.44	122.60
1	L	314	ASP	CA-C-N	9.84	138.71	122.87
1	L	314	ASP	C-N-CA	9.84	138.71	122.87
1	C	47	MET	N-CA-C	9.84	125.44	107.73
1	F	242	THR	CA-CB-OG1	9.84	124.35	109.60
1	N	32	ALA	N-CA-C	9.84	121.76	111.14
1	H	371	CYS	CA-C-O	-9.83	108.08	119.78
1	I	288	LYS	CA-C-N	9.83	140.32	121.54
1	I	288	LYS	C-N-CA	9.83	140.32	121.54
1	J	274	HIS	CB-CG-CD2	9.83	143.98	131.20
1	K	164	GLU	O-C-N	-9.83	109.51	122.59
1	L	260	ASN	CA-CB-CG	9.83	122.43	112.60
1	N	48	LEU	O-C-N	9.83	134.74	122.65
1	N	118	THR	N-CA-C	-9.83	101.45	113.15
1	M	243	ALA	N-CA-C	9.83	131.73	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	300	GLY	CA-C-O	9.83	128.18	119.83
1	O	163	ALA	CA-C-O	-9.83	109.29	119.51
1	I	273	GLN	CA-C-O	9.82	131.13	120.82
1	J	70	VAL	O-C-N	-9.82	110.95	122.94
1	J	229	ASP	CA-CB-CG	9.82	122.42	112.60
1	K	72	HIS	CA-CB-CG	-9.82	103.98	113.80
1	N	447	LYS	O-C-N	-9.82	109.52	122.59
1	C	476	ALA	O-C-N	9.82	132.53	122.12
1	H	60	ASP	CA-C-N	9.82	140.66	121.41
1	H	60	ASP	C-N-CA	9.82	140.66	121.41
1	M	435	VAL	CB-CA-C	-9.82	99.17	112.04
1	C	149	ILE	O-C-N	9.82	132.02	122.20
1	F	36	ARG	CD-NE-CZ	-9.82	110.65	124.40
1	F	379	VAL	N-CA-C	9.82	122.89	107.28
1	J	293	GLU	N-CA-CB	9.82	124.69	110.16
1	I	312	ALA	CA-C-N	9.82	140.29	121.54
1	I	312	ALA	C-N-CA	9.82	140.29	121.54
1	L	367	GLY	O-C-N	-9.81	109.94	122.70
1	M	380	SER	CA-C-O	-9.81	108.81	120.98
1	P	7	VAL	N-CA-CB	9.81	128.18	111.50
1	H	42	LYS	CA-C-N	9.81	131.85	121.45
1	H	42	LYS	C-N-CA	9.81	131.85	121.45
1	K	214	VAL	O-C-N	-9.81	113.56	122.69
1	K	495	ALA	CA-C-N	9.81	140.28	121.54
1	K	495	ALA	C-N-CA	9.81	140.28	121.54
1	E	347	ILE	N-CA-C	9.81	122.32	106.72
1	L	404	GLU	N-CA-CB	9.81	125.64	110.14
1	H	14	ARG	NH1-CZ-NH2	-9.81	106.55	119.30
1	K	338	LYS	CA-C-O	-9.81	110.52	120.82
1	E	306	ASN	CB-CG-OD1	9.81	140.41	120.80
1	I	172	GLU	CB-CA-C	9.80	126.15	110.95
1	H	235	LEU	O-C-N	-9.80	110.18	123.12
1	G	173	ILE	CB-CG1-CD1	9.80	134.38	113.80
1	K	118	THR	OG1-CB-CG2	9.80	128.90	109.30
1	I	42	LYS	O-C-N	9.80	134.10	122.34
1	H	472	VAL	CA-C-N	9.80	134.20	120.29
1	H	472	VAL	C-N-CA	9.80	134.20	120.29
1	I	10	GLU	O-C-N	-9.80	109.56	122.59
1	I	58	THR	N-CA-C	9.80	123.78	108.79
1	P	59	ASN	CB-CG-ND2	9.80	131.10	116.40
1	F	471	ARG	NH1-CZ-NH2	-9.80	106.56	119.30
1	L	289	LYS	N-CA-CB	9.80	125.62	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	187	LYS	CB-CG-CD	9.79	133.82	111.30
1	L	496	ALA	CA-C-O	9.79	131.92	120.66
1	N	332	ILE	O-C-N	-9.79	111.64	123.10
1	N	377	ARG	CA-C-N	9.79	138.26	122.69
1	N	377	ARG	C-N-CA	9.79	138.26	122.69
1	K	336	GLU	CA-C-N	9.79	136.72	122.63
1	K	336	GLU	C-N-CA	9.79	136.72	122.63
1	G	268	ILE	N-CA-CB	9.79	127.38	111.23
1	D	244	SER	O-C-N	-9.78	109.58	122.59
1	G	145	GLN	OE1-CD-NE2	-9.79	112.81	122.60
1	H	56	VAL	CA-C-O	-9.79	109.99	120.36
1	B	274	HIS	CA-C-O	-9.78	109.58	121.02
1	M	244	SER	CA-C-O	-9.78	106.52	120.51
1	H	36	ARG	NH1-CZ-NH2	9.78	132.01	119.30
1	H	126	ALA	CA-C-O	9.78	130.91	120.55
1	G	425	ASN	N-CA-CB	9.78	126.94	110.32
1	H	477	ILE	N-CA-CB	9.78	127.36	111.23
1	I	156	THR	CA-C-O	9.78	131.43	119.31
1	J	24	ASN	CA-CB-CG	-9.78	102.82	112.60
1	F	10	GLU	CB-CG-CD	9.77	129.21	112.60
1	D	297	LYS	CA-C-O	-9.77	110.06	120.42
1	L	142	VAL	CA-C-N	9.77	132.95	120.64
1	L	142	VAL	C-N-CA	9.77	132.95	120.64
1	L	347	ILE	O-C-N	-9.77	110.36	122.57
1	F	181	VAL	CA-C-O	-9.77	109.62	120.46
1	D	91	ASP	CA-CB-CG	9.77	122.37	112.60
1	H	70	VAL	CA-C-O	-9.77	109.83	121.64
1	K	325	LYS	CB-CA-C	9.76	123.63	110.06
1	L	190	LYS	N-CA-C	9.76	123.31	111.40
1	E	314	ASP	CA-CB-CG	9.76	122.36	112.60
1	F	274	HIS	ND1-CE1-NE2	9.76	118.16	108.40
1	G	75	ALA	O-C-N	9.76	135.56	122.59
1	L	254	ILE	O-C-N	9.76	131.47	121.91
1	M	394	ARG	CD-NE-CZ	9.76	138.06	124.40
1	O	241	GLU	O-C-N	-9.76	111.51	122.92
1	P	186	GLY	CA-C-N	9.76	140.17	121.54
1	P	186	GLY	C-N-CA	9.76	140.17	121.54
1	K	58	THR	N-CA-C	9.75	125.64	109.06
1	A	118	THR	CA-C-O	-9.75	106.57	120.51
1	J	196	GLU	O-C-N	-9.75	111.68	122.79
1	K	405	GLN	CB-CG-CD	9.75	129.17	112.60
1	M	259	ALA	CA-C-N	9.75	138.19	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	259	ALA	C-N-CA	9.75	138.19	121.14
1	N	363	ASP	CA-CB-CG	9.75	122.35	112.60
1	A	394	ARG	CD-NE-CZ	9.74	138.04	124.40
1	G	18	ARG	NH1-CZ-NH2	-9.74	106.63	119.30
1	I	38	THR	CA-CB-OG1	9.74	124.22	109.60
1	L	43	GLY	CA-C-O	-9.74	111.39	120.94
1	M	393	LEU	CA-C-N	9.74	134.12	120.29
1	M	393	LEU	C-N-CA	9.74	134.12	120.29
1	P	65	LEU	O-C-N	-9.74	110.82	122.22
1	C	128	ALA	CA-C-O	9.74	131.05	120.24
1	I	409	ARG	NE-CZ-NH1	9.74	131.24	121.50
1	J	380	SER	O-C-N	-9.74	109.64	122.59
1	O	84	THR	N-CA-CB	9.74	124.43	110.12
1	E	462	CYS	CA-C-O	-9.73	110.23	120.55
1	J	129	GLN	OE1-CD-NE2	9.73	132.33	122.60
1	I	105	ARG	NE-CZ-NH2	9.73	127.96	119.20
1	F	196	GLU	CA-C-N	9.73	135.71	122.77
1	F	196	GLU	C-N-CA	9.73	135.71	122.77
1	M	491	ASP	CA-CB-CG	-9.73	102.87	112.60
1	N	89	VAL	O-C-N	-9.73	110.41	122.57
1	F	270	ASP	CA-C-O	-9.72	110.15	120.55
1	I	94	THR	CA-C-O	-9.72	110.69	120.70
1	L	147	LYS	O-C-N	-9.72	111.14	122.32
1	F	292	MET	CA-C-N	9.72	133.08	120.44
1	F	292	MET	C-N-CA	9.72	133.08	120.44
1	K	362	VAL	O-C-N	-9.72	110.42	122.57
1	F	64	ILE	O-C-N	-9.72	110.42	122.57
1	K	462	CYS	CA-C-O	-9.72	106.61	120.51
1	G	246	MET	O-C-N	-9.71	109.67	122.59
1	J	112	ASP	CB-CA-C	9.71	128.37	109.72
1	K	243	ALA	N-CA-C	9.72	131.49	110.80
1	P	221	ALA	O-C-N	9.72	135.51	122.59
1	D	84	THR	O-C-N	9.71	132.42	122.12
1	A	147	LYS	CA-C-N	9.71	133.68	120.38
1	A	147	LYS	C-N-CA	9.71	133.68	120.38
1	K	142	VAL	CA-C-N	9.71	140.44	121.41
1	K	142	VAL	C-N-CA	9.71	140.44	121.41
1	K	317	ASP	O-C-N	-9.71	112.43	123.40
1	A	260	ASN	CA-CB-CG	9.71	122.31	112.60
1	B	403	ARG	CD-NE-CZ	-9.71	110.81	124.40
1	A	269	ASP	CA-CB-CG	9.70	122.30	112.60
1	C	487	LEU	CA-C-O	-9.70	107.44	119.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	268	ILE	CA-C-O	-9.71	108.65	120.78
1	I	212	VAL	O-C-N	-9.71	113.09	123.18
1	K	29	ARG	CA-C-N	9.71	132.83	120.70
1	K	29	ARG	C-N-CA	9.71	132.83	120.70
1	M	70	VAL	CA-C-O	-9.71	108.65	120.78
1	C	155	MET	N-CA-C	9.70	123.07	111.33
1	J	150	LEU	O-C-N	9.70	133.57	122.22
1	A	72	HIS	CG-CD2-NE2	-9.70	97.50	107.20
1	H	349	GLY	CA-C-O	-9.70	110.31	121.47
1	I	11	ASN	CB-CG-ND2	9.70	130.95	116.40
1	N	13	LYS	O-C-N	-9.70	112.31	123.27
1	F	454	PHE	CA-CB-CG	9.70	123.50	113.80
1	I	207	GLU	N-CA-C	9.70	124.65	109.81
1	F	90	GLY	CA-C-N	9.70	134.52	120.95
1	F	90	GLY	C-N-CA	9.70	134.52	120.95
1	J	147	LYS	N-CA-C	9.70	121.54	110.97
1	P	426	ALA	CA-C-O	-9.69	106.65	120.51
1	B	429	ASP	CB-CA-C	9.69	125.64	109.84
1	I	489	ARG	NE-CZ-NH2	9.69	127.92	119.20
1	O	448	CYS	N-CA-C	9.69	124.15	109.62
1	C	64	ILE	CA-CB-CG2	9.69	126.97	110.50
1	J	220	SER	CA-C-O	9.69	131.16	120.70
1	J	378	ILE	O-C-N	-9.69	112.91	122.98
1	N	182	VAL	CB-CA-C	-9.69	97.94	111.21
1	F	237	CYS	O-C-N	9.68	134.21	122.20
1	J	449	ALA	O-C-N	-9.68	109.71	122.59
1	C	317	ASP	CA-CB-CG	9.68	122.28	112.60
1	O	430	ALA	CA-C-O	-9.68	110.42	121.07
1	B	80	GLU	CA-C-O	-9.68	106.91	119.10
1	E	51	ASP	OD1-CG-OD2	-9.68	99.68	122.90
1	B	219	VAL	CA-C-O	-9.67	108.69	120.78
1	B	307	ILE	O-C-N	-9.67	110.48	122.57
1	E	74	ALA	CA-C-O	9.67	130.80	120.55
1	N	370	GLY	CA-C-N	9.67	137.12	120.58
1	N	370	GLY	C-N-CA	9.67	137.12	120.58
1	I	441	HIS	CA-CB-CG	9.67	123.47	113.80
1	P	161	LYS	O-C-N	-9.67	110.78	122.96
1	G	76	LYS	N-CA-CB	9.67	124.94	110.53
1	B	273	GLN	N-CA-C	9.67	122.71	111.11
1	L	439	ALA	N-CA-CB	9.67	124.33	110.12
1	H	286	ARG	CD-NE-CZ	9.67	137.93	124.40
1	M	281	ILE	CB-CA-C	-9.67	98.97	111.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	108	GLU	CA-C-O	-9.66	110.85	121.00
1	C	191	ASP	N-CA-C	9.66	122.70	111.11
1	F	175	VAL	CA-C-O	-9.66	110.03	120.47
1	F	251	VAL	CA-C-O	-9.66	110.61	120.85
1	A	42	LYS	N-CA-CB	9.66	124.92	110.53
1	B	331	MET	O-C-N	-9.66	112.11	123.41
1	F	114	ASN	CB-CG-ND2	9.66	130.89	116.40
1	L	379	VAL	CA-C-N	9.66	138.49	122.07
1	L	379	VAL	C-N-CA	9.66	138.49	122.07
1	D	333	PHE	CA-C-O	-9.66	109.89	121.28
1	I	70	VAL	CA-C-O	-9.65	108.71	120.78
1	N	456	GLY	O-C-N	9.65	135.25	122.70
1	G	55	VAL	N-CA-C	9.65	121.83	107.75
1	J	72	HIS	CB-CG-CD2	-9.65	118.66	131.20
1	I	11	ASN	OD1-CG-ND2	-9.64	112.96	122.60
1	N	234	LEU	CA-C-N	-9.64	107.04	122.76
1	N	234	LEU	C-N-CA	-9.64	107.04	122.76
1	A	129	GLN	N-CA-CB	9.64	124.29	110.12
1	H	11	ASN	CA-CB-CG	9.64	122.24	112.60
1	K	342	ALA	N-CA-CB	9.64	124.94	110.29
1	P	120	VAL	O-C-N	9.64	131.35	121.91
1	P	364	ASP	CA-C-N	9.64	134.45	120.38
1	P	364	ASP	C-N-CA	9.64	134.45	120.38
1	J	11	ASN	CA-C-O	-9.64	106.73	120.51
1	F	405	GLN	O-C-N	9.63	132.49	122.09
1	E	304	ILE	O-C-N	-9.63	113.73	122.69
1	J	120	VAL	CA-C-N	9.63	134.09	120.42
1	J	120	VAL	C-N-CA	9.63	134.09	120.42
1	J	354	VAL	N-CA-CB	9.63	127.12	111.23
1	P	432	GLU	N-CA-CB	9.63	124.78	110.33
1	C	293	GLU	CA-C-N	9.63	134.94	120.31
1	C	293	GLU	C-N-CA	9.63	134.94	120.31
1	C	337	CYS	O-C-N	-9.63	111.09	122.93
1	F	469	PRO	CA-C-N	-9.63	106.32	122.11
1	F	469	PRO	C-N-CA	-9.63	106.32	122.11
1	G	70	VAL	O-C-N	-9.63	110.53	122.57
1	D	358	VAL	CA-C-O	9.63	132.14	119.53
1	I	438	ARG	NE-CZ-NH1	-9.63	111.87	121.50
1	L	184	ASP	CA-C-N	9.63	139.93	121.54
1	L	184	ASP	C-N-CA	9.63	139.93	121.54
1	I	301	ALA	CA-C-O	-9.63	110.63	121.89
1	A	161	LYS	N-CA-CB	9.62	126.42	111.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	199	SER	CA-C-O	-9.62	111.33	120.95
1	G	260	ASN	N-CA-CB	9.62	125.16	110.44
1	C	149	ILE	CA-C-O	-9.62	109.00	119.20
1	J	425	ASN	CA-CB-CG	9.62	122.22	112.60
1	L	206	THR	CA-C-O	-9.62	110.08	121.05
1	E	471	ARG	O-C-N	9.61	133.17	122.11
1	G	72	HIS	CA-CB-CG	-9.61	104.19	113.80
1	G	333	PHE	N-CA-CB	9.61	126.17	110.69
1	J	84	THR	CA-CB-OG1	9.62	124.02	109.60
1	J	281	ILE	CA-C-O	-9.62	109.40	120.65
1	N	253	GLU	CA-C-N	9.61	136.60	120.64
1	P	24	ASN	CA-C-O	-9.61	108.55	119.41
1	A	321	VAL	CA-CB-CG2	9.61	126.74	110.40
1	J	243	ALA	O-C-N	-9.61	109.81	122.59
1	N	253	GLU	C-N-CA	9.61	136.60	120.64
1	O	242	THR	N-CA-CB	9.61	124.67	110.35
1	C	169	LYS	O-C-N	9.61	135.62	122.46
1	C	191	ASP	OD1-CG-OD2	9.61	145.97	122.90
1	C	462	CYS	O-C-N	-9.61	109.81	122.59
1	J	414	ALA	CA-C-O	-9.61	108.45	119.79
1	L	151	THR	CA-C-N	9.61	133.69	120.63
1	L	151	THR	C-N-CA	9.61	133.69	120.63
1	I	495	ALA	CA-C-N	9.61	139.88	121.54
1	I	495	ALA	C-N-CA	9.61	139.88	121.54
1	P	328	GLY	O-C-N	-9.60	110.22	122.70
1	C	45	ASP	CA-CB-CG	9.60	122.20	112.60
1	P	247	LEU	N-CA-C	9.60	122.75	111.71
1	A	458	VAL	CA-CB-CG1	9.60	126.72	110.40
1	F	375	ASP	O-C-N	-9.60	111.88	123.30
1	O	363	ASP	CA-C-N	9.60	134.10	120.28
1	O	363	ASP	C-N-CA	9.60	134.10	120.28
1	D	27	ALA	CA-C-N	9.59	140.21	121.41
1	D	27	ALA	C-N-CA	9.59	140.21	121.41
1	F	41	PRO	O-C-N	9.59	133.27	122.24
1	F	136	LYS	O-C-N	-9.59	111.27	122.20
1	A	359	ALA	CA-C-O	9.59	131.11	119.79
1	E	290	SER	CA-C-O	-9.59	110.64	120.90
1	F	33	GLU	N-CA-C	-9.59	100.83	111.28
1	G	496	ALA	O-C-N	-9.59	111.85	122.88
1	J	19	ASP	CA-C-O	9.59	131.66	120.92
1	K	475	GLN	CG-CD-NE2	-9.59	102.01	116.40
1	N	490	ILE	CA-C-N	9.59	138.25	122.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	490	ILE	C-N-CA	9.59	138.25	122.62
1	A	299	THR	CA-C-O	9.59	130.57	120.70
1	O	155	MET	CB-CA-C	9.59	126.16	110.92
1	H	143	GLY	CA-C-O	-9.58	110.58	122.75
1	H	484	THR	N-CA-CB	9.58	124.22	109.94
1	J	255	LYS	O-C-N	-9.58	110.36	122.34
1	N	431	ILE	N-CA-C	9.58	120.40	110.62
1	G	14	ARG	O-C-N	-9.58	110.47	123.12
1	G	134	LEU	CB-CA-C	9.58	126.69	110.79
1	G	141	GLU	CB-CG-CD	9.58	128.89	112.60
1	I	228	THR	O-C-N	9.58	135.33	122.59
1	B	380	SER	O-C-N	-9.58	109.85	122.59
1	E	366	VAL	CA-CB-CG1	9.58	126.68	110.40
1	I	486	MET	CA-C-N	9.58	134.87	120.31
1	I	486	MET	C-N-CA	9.58	134.87	120.31
1	K	227	VAL	N-CA-C	9.58	122.51	107.28
1	L	351	THR	CA-CB-CG2	9.58	126.78	110.50
1	M	63	THR	N-CA-CB	9.57	125.39	109.78
1	C	142	VAL	O-C-N	-9.57	110.61	122.57
1	F	98	VAL	N-CA-CB	9.57	121.46	110.65
1	G	181	VAL	N-CA-C	9.57	119.61	110.42
1	M	405	GLN	OE1-CD-NE2	-9.57	113.03	122.60
1	B	452	ASN	CA-C-O	-9.57	109.23	120.62
1	N	24	ASN	CA-C-O	-9.57	110.84	120.70
1	B	69	SER	O-C-N	-9.56	109.87	122.59
1	E	28	GLY	N-CA-C	9.56	125.19	114.67
1	G	240	GLU	N-CA-C	9.56	123.88	109.25
1	N	475	GLN	N-CA-C	-9.56	98.27	112.04
1	F	191	ASP	CA-CB-CG	-9.56	103.04	112.60
1	O	71	GLU	O-C-N	-9.56	109.87	122.59
1	K	475	GLN	CB-CG-CD	9.56	128.85	112.60
1	O	409	ARG	CD-NE-CZ	-9.56	111.02	124.40
1	G	48	LEU	O-C-N	9.55	133.75	122.96
1	G	156	THR	OG1-CB-CG2	9.55	128.40	109.30
1	N	492	ASP	CA-CB-CG	9.55	122.15	112.60
1	P	134	LEU	CB-CA-C	9.55	125.92	110.83
1	G	196	GLU	N-CA-C	9.55	123.63	109.59
1	I	204	ASP	CA-C-O	9.55	130.44	119.27
1	J	306	ASN	OD1-CG-ND2	-9.55	113.05	122.60
1	K	424	GLU	CA-C-N	9.55	134.82	120.31
1	K	424	GLU	C-N-CA	9.55	134.82	120.31
1	C	18	ARG	CA-C-N	9.54	134.02	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	18	ARG	C-N-CA	9.54	134.02	120.28
1	C	36	ARG	NE-CZ-NH1	-9.54	111.95	121.50
1	L	14	ARG	NE-CZ-NH1	-9.54	111.96	121.50
1	L	42	LYS	O-C-N	-9.54	110.89	122.34
1	D	216	LYS	CB-CA-C	9.54	126.83	109.37
1	E	449	ALA	CA-C-N	-9.54	113.81	121.82
1	E	449	ALA	C-N-CA	-9.54	113.81	121.82
1	I	278	LYS	CA-C-O	9.54	130.76	119.60
1	J	12	MET	CA-C-O	-9.54	110.21	120.80
1	K	396	TYR	CG-CD1-CE1	-9.54	106.89	121.20
1	A	203	ILE	CA-C-N	9.54	136.67	122.08
1	A	203	ILE	C-N-CA	9.54	136.67	122.08
1	O	8	LEU	O-C-N	9.53	129.78	121.20
1	B	72	HIS	CE1-NE2-CD2	-9.53	99.47	109.00
1	E	42	LYS	N-CA-C	-9.53	101.78	113.41
1	J	491	ASP	CA-C-O	-9.53	110.26	121.32
1	P	76	LYS	N-CA-CB	9.53	124.63	110.33
1	F	423	ALA	N-CA-CB	9.53	124.40	110.20
1	J	302	ASN	CB-CA-C	9.53	125.82	110.19
1	L	302	ASN	CB-CA-C	9.53	125.62	110.19
1	D	291	ASP	CA-C-O	-9.53	108.21	119.35
1	A	261	VAL	O-C-N	-9.52	112.78	123.07
1	E	74	ALA	O-C-N	-9.52	112.03	122.12
1	J	212	VAL	O-C-N	-9.52	113.22	123.03
1	I	330	SER	N-CA-CB	9.52	125.87	110.16
1	M	104	LEU	N-CA-C	-9.52	98.33	112.04
1	O	78	LEU	CA-C-O	9.52	129.38	118.90
1	L	353	HIS	ND1-CE1-NE2	-9.52	98.88	108.40
1	M	452	ASN	CA-C-N	9.52	139.11	121.97
1	M	452	ASN	C-N-CA	9.52	139.11	121.97
1	P	201	ALA	CA-C-O	-9.52	106.90	120.51
1	E	105	ARG	NH1-CZ-NH2	-9.52	106.93	119.30
1	A	337	CYS	O-C-N	-9.51	111.63	122.86
1	C	463	GLU	N-CA-CB	9.51	124.71	110.53
1	D	488	LEU	O-C-N	-9.51	109.33	122.46
1	F	296	ALA	O-C-N	-9.51	110.02	122.39
1	C	372	THR	CA-C-O	-9.51	107.86	119.18
1	D	134	LEU	CB-CA-C	9.51	125.92	110.90
1	G	442	ALA	N-CA-C	9.51	124.28	112.87
1	C	89	VAL	CA-CB-CG1	9.51	126.56	110.40
1	E	418	ILE	N-CA-CB	9.51	117.87	110.45
1	G	287	VAL	N-CA-CB	9.51	122.60	110.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	72	HIS	CA-C-O	-9.51	107.14	120.16
1	A	125	GLN	O-C-N	9.50	135.06	122.33
1	O	40	GLY	CA-C-N	9.50	130.49	119.47
1	O	40	GLY	C-N-CA	9.50	130.49	119.47
1	C	364	ASP	CA-C-O	-9.50	111.02	121.00
1	G	418	ILE	N-CA-CB	9.50	124.51	111.21
1	G	207	GLU	N-CA-C	9.50	124.87	110.14
1	H	425	ASN	N-CA-CB	9.50	124.08	110.12
1	M	442	ALA	O-C-N	9.50	135.57	122.46
1	D	277	ALA	CA-C-O	9.50	130.89	119.97
1	H	441	HIS	CE1-NE2-CD2	-9.50	99.50	109.00
1	H	439	ALA	CA-C-O	-9.49	106.93	120.51
1	F	435	VAL	N-CA-C	9.49	122.96	111.09
1	N	147	LYS	O-C-N	-9.49	111.33	122.15
1	O	174	ILE	CA-C-O	-9.49	111.08	120.95
1	H	18	ARG	NH1-CZ-NH2	-9.49	106.96	119.30
1	I	255	LYS	O-C-N	-9.49	109.97	122.59
1	K	249	ASP	CA-CB-CG	9.49	122.09	112.60
1	G	424	GLU	CA-C-O	-9.49	110.93	120.70
1	D	29	ARG	NE-CZ-NH1	9.49	130.99	121.50
1	E	221	ALA	CA-C-N	9.49	139.66	121.54
1	E	221	ALA	C-N-CA	9.49	139.66	121.54
1	F	316	GLY	O-C-N	-9.49	112.80	122.86
1	A	307	ILE	CA-C-O	-9.48	108.93	120.78
1	G	411	PHE	CD1-CG-CD2	-9.48	104.38	118.60
1	L	444	ASN	CB-CG-ND2	-9.48	102.18	116.40
1	M	275	TYR	CA-C-O	-9.48	108.45	120.31
1	P	165	LYS	CA-C-O	9.48	130.47	120.70
1	A	24	ASN	CA-C-N	9.48	132.83	120.60
1	A	24	ASN	C-N-CA	9.48	132.83	120.60
1	N	286	ARG	CA-C-O	-9.48	108.41	120.55
1	B	59	ASN	CA-CB-CG	9.48	122.08	112.60
1	N	88	GLU	O-C-N	-9.48	109.98	122.59
1	H	379	VAL	N-CA-C	9.48	121.81	109.58
1	D	168	GLU	O-C-N	9.48	133.93	122.27
1	O	59	ASN	N-CA-C	-9.48	102.08	114.31
1	M	256	ALA	N-CA-CB	9.48	124.38	110.26
1	O	389	LEU	N-CA-C	-9.48	99.74	111.11
1	B	242	THR	OG1-CB-CG2	9.47	128.25	109.30
1	E	84	THR	N-CA-CB	9.47	124.05	109.94
1	I	84	THR	O-C-N	9.47	131.94	122.09
1	J	115	VAL	O-C-N	-9.47	110.73	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	133	GLU	CB-CG-CD	9.47	128.71	112.60
1	E	119	ILE	N-CA-CB	9.47	126.86	111.23
1	G	438	ARG	CD-NE-CZ	9.47	137.66	124.40
1	J	185	GLU	CA-CB-CG	9.47	133.04	114.10
1	M	317	ASP	CA-CB-CG	9.47	122.07	112.60
1	A	204	ASP	CA-CB-CG	9.47	122.07	112.60
1	D	292	MET	N-CA-C	9.47	122.47	111.11
1	K	95	THR	CA-C-O	-9.47	110.95	120.70
1	M	483	SER	N-CA-CB	9.47	124.37	110.26
1	N	187	LYS	CA-C-N	9.47	139.01	121.97
1	N	187	LYS	C-N-CA	9.47	139.01	121.97
1	N	489	ARG	N-CA-C	-9.47	101.50	113.43
1	J	107	ALA	CB-CA-C	-9.46	94.17	110.17
1	L	216	LYS	N-CA-C	9.46	125.05	109.24
1	O	132	GLN	O-C-N	9.46	132.31	122.09
1	A	256	ALA	CA-C-O	-9.46	109.74	120.24
1	F	219	VAL	N-CA-C	9.46	119.50	110.42
1	G	317	ASP	O-C-N	-9.46	111.17	123.28
1	N	478	GLN	CB-CG-CD	9.46	128.68	112.60
1	A	98	VAL	O-C-N	9.46	132.18	121.96
1	C	38	THR	O-C-N	-9.46	112.45	122.19
1	C	123	GLY	O-C-N	-9.46	110.40	122.70
1	K	220	SER	CA-C-O	-9.46	110.30	120.80
1	L	361	ALA	CA-C-N	9.46	134.27	120.74
1	L	361	ALA	C-N-CA	9.46	134.27	120.74
1	G	215	ASP	CA-C-N	9.46	136.38	122.39
1	G	215	ASP	C-N-CA	9.46	136.38	122.39
1	P	32	ALA	O-C-N	9.46	131.81	122.07
1	K	236	ASN	OD1-CG-ND2	-9.45	113.15	122.60
1	B	26	LEU	CA-C-O	-9.45	110.67	121.07
1	E	257	SER	CA-C-O	9.45	130.82	120.89
1	G	259	ALA	CA-C-O	-9.45	110.63	120.84
1	O	164	GLU	CA-C-O	-9.45	109.61	120.20
1	M	31	ILE	CB-CA-C	9.45	126.79	111.29
1	N	236	ASN	OD1-CG-ND2	-9.45	113.15	122.60
1	P	494	ILE	CA-C-O	-9.45	108.97	120.78
1	H	224	PRO	N-CA-C	9.45	131.94	112.47
1	B	302	ASN	CA-C-O	-9.45	110.60	121.47
1	C	91	ASP	CA-CB-CG	9.45	122.05	112.60
1	F	218	ARG	CA-C-N	9.45	132.47	120.56
1	F	218	ARG	C-N-CA	9.45	132.47	120.56
1	H	218	ARG	NE-CZ-NH1	9.45	130.95	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	354	VAL	N-CA-CB	9.45	126.82	111.23
1	L	37	SER	O-C-N	-9.45	110.02	122.59
1	J	52	LEU	N-CA-C	9.45	121.58	111.28
1	P	86	GLU	CG-CD-OE2	9.45	140.13	118.40
1	F	253	GLU	O-C-N	-9.45	109.83	122.49
1	A	452	ASN	CA-C-N	9.45	133.40	120.46
1	A	452	ASN	C-N-CA	9.45	133.40	120.46
1	N	409	ARG	NE-CZ-NH1	9.44	130.94	121.50
1	D	356	GLU	CA-C-O	-9.44	107.01	120.51
1	G	124	TYR	CA-C-O	9.44	130.99	119.38
1	J	379	VAL	N-CA-CB	9.44	128.25	111.63
1	L	213	LEU	CA-C-N	9.44	136.84	122.68
1	L	213	LEU	C-N-CA	9.44	136.84	122.68
1	L	438	ARG	NE-CZ-NH1	-9.44	112.06	121.50
1	B	495	ALA	N-CA-C	9.44	124.29	108.90
1	B	119	ILE	O-C-N	-9.44	110.77	122.57
1	J	311	SER	N-CA-C	9.44	122.17	108.86
1	K	163	ALA	CA-C-O	9.43	134.00	120.51
1	N	240	GLU	CA-C-O	-9.43	110.73	120.54
1	N	301	ALA	O-C-N	-9.43	110.05	122.59
1	I	121	VAL	O-C-N	9.43	131.15	121.91
1	L	111	LEU	N-CA-CB	9.43	124.74	110.22
1	O	474	THR	CA-C-O	-9.43	107.96	119.18
1	G	116	HIS	CA-CB-CG	9.43	123.23	113.80
1	J	472	VAL	CA-C-N	9.43	133.89	120.79
1	J	472	VAL	C-N-CA	9.43	133.89	120.79
1	K	84	THR	N-CA-CB	9.43	123.98	110.12
1	K	226	LYS	O-C-N	-9.43	110.05	122.59
1	E	353	HIS	CA-CB-CG	9.42	123.22	113.80
1	N	18	ARG	N-CA-CB	9.42	123.12	110.59
1	N	340	PRO	O-C-N	9.42	135.36	122.64
1	I	243	ALA	N-CA-C	9.42	130.86	110.80
1	F	72	HIS	CA-C-O	-9.42	107.26	120.16
1	F	293	GLU	N-CA-CB	9.42	123.67	110.01
1	A	448	CYS	N-CA-C	9.42	123.74	109.62
1	B	70	VAL	CG1-CB-CG2	9.42	131.51	110.80
1	C	484	THR	N-CA-C	9.42	123.87	112.38
1	B	151	THR	CA-C-N	9.41	136.13	120.88
1	B	151	THR	C-N-CA	9.41	136.13	120.88
1	B	409	ARG	O-C-N	-9.41	112.24	122.03
1	F	234	LEU	N-CA-C	9.41	123.26	108.67
1	F	445	GLY	CA-C-N	9.41	139.52	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	445	GLY	C-N-CA	9.41	139.52	121.54
1	I	489	ARG	NE-CZ-NH1	-9.41	112.09	121.50
1	K	446	ASN	OD1-CG-ND2	9.41	132.01	122.60
1	P	466	VAL	O-C-N	-9.41	110.81	122.57
1	A	287	VAL	CA-C-O	-9.41	111.16	121.23
1	F	237	CYS	CA-C-O	-9.41	110.43	121.82
1	A	279	GLU	O-C-N	-9.41	109.00	122.36
1	E	31	ILE	CB-CA-C	9.41	126.72	111.29
1	G	486	MET	O-C-N	-9.41	112.25	122.03
1	C	67	GLU	CA-C-O	9.41	130.59	120.90
1	F	183	ASP	CB-CG-OD1	9.41	140.04	118.40
1	F	431	ILE	N-CA-C	9.41	121.34	110.62
1	G	281	ILE	CA-C-O	-9.41	110.34	120.59
1	G	404	GLU	CA-C-O	-9.41	107.81	119.38
1	D	85	GLN	CA-C-N	9.40	133.64	120.29
1	D	85	GLN	C-N-CA	9.40	133.64	120.29
1	L	312	ALA	O-C-N	-9.40	111.48	122.20
1	C	355	ILE	CB-CA-C	-9.40	99.70	112.02
1	J	89	VAL	CA-C-O	-9.40	112.43	120.80
1	J	495	ALA	CA-C-N	9.40	139.50	121.54
1	J	495	ALA	C-N-CA	9.40	139.50	121.54
1	N	187	LYS	O-C-N	-9.40	110.08	122.59
1	O	285	ARG	O-C-N	9.40	134.17	122.14
1	B	475	GLN	N-CA-C	-9.40	100.99	111.14
1	B	60	ASP	CB-CG-OD1	9.40	140.01	118.40
1	C	210	LYS	N-CA-CB	9.40	126.37	110.49
1	D	450	GLY	O-C-N	-9.40	112.90	122.86
1	K	341	LYS	N-CA-C	-9.40	102.32	113.88
1	K	167	LYS	CA-C-O	-9.39	109.68	120.20
1	C	466	VAL	CA-C-O	-9.39	109.04	120.78
1	D	359	ALA	CA-C-O	-9.39	108.00	119.18
1	F	344	THR	CA-C-O	-9.39	110.73	121.81
1	H	409	ARG	NE-CZ-NH1	9.39	130.89	121.50
1	M	288	LYS	CA-C-O	-9.39	111.60	121.55
1	P	467	VAL	O-C-N	-9.39	113.05	123.10
1	B	489	ARG	O-C-N	-9.39	111.03	122.11
1	F	252	ALA	CA-C-O	-9.39	107.09	120.51
1	A	51	ASP	CA-C-O	-9.39	109.49	120.10
1	C	288	LYS	O-C-N	-9.38	112.27	123.16
1	L	402	GLY	CA-C-N	9.39	134.90	120.82
1	L	402	GLY	C-N-CA	9.39	134.90	120.82
1	O	268	ILE	O-C-N	-9.39	113.04	123.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	235	LEU	CA-C-O	-9.39	107.29	120.15
1	M	394	ARG	NE-CZ-NH2	9.38	127.64	119.20
1	A	414	ALA	O-C-N	9.38	133.20	122.22
1	A	478	GLN	N-CA-C	9.38	122.85	111.40
1	K	18	ARG	O-C-N	-9.38	112.17	122.12
1	N	412	ALA	O-C-N	9.38	135.90	122.20
1	D	455	THR	CB-CA-C	9.38	126.41	110.84
1	E	438	ARG	N-CA-CB	9.38	125.67	109.72
1	J	216	LYS	CA-CB-CG	9.38	132.86	114.10
1	M	98	VAL	N-CA-CB	9.38	121.52	110.55
1	I	467	VAL	N-CA-CB	-9.38	100.50	112.60
1	K	69	SER	CA-C-O	-9.38	107.10	120.51
1	A	249	ASP	CA-CB-CG	9.38	121.97	112.60
1	J	326	ILE	CA-CB-CG1	9.38	126.34	110.40
1	J	403	ARG	NE-CZ-NH2	-9.38	110.76	119.20
1	M	479	SER	CA-CB-OG	9.38	129.85	111.10
1	N	60	ASP	CB-CA-C	9.37	129.07	110.42
1	A	16	MET	N-CA-C	9.37	130.76	110.80
1	E	350	THR	N-CA-CB	9.37	126.33	110.49
1	F	29	ARG	NE-CZ-NH2	-9.37	110.77	119.20
1	H	249	ASP	N-CA-CB	9.37	125.95	110.39
1	J	146	ASP	CA-C-O	-9.37	109.62	120.49
1	L	493	VAL	N-CA-CB	9.37	126.70	111.23
1	N	18	ARG	NE-CZ-NH1	9.37	130.87	121.50
1	A	206	THR	CA-C-O	-9.37	109.62	120.49
1	A	305	THR	N-CA-CB	9.37	126.32	110.49
1	B	459	GLU	CA-C-O	-9.37	109.36	120.60
1	F	362	VAL	CA-C-O	-9.37	109.40	120.83
1	K	17	GLY	CA-C-O	-9.37	110.02	121.83
1	K	59	ASN	CA-CB-CG	9.37	121.97	112.60
1	O	33	GLU	CA-C-O	-9.37	109.51	120.10
1	A	307	ILE	CA-CB-CG2	9.37	126.42	110.50
1	G	215	ASP	N-CA-C	9.37	121.75	108.54
1	O	405	GLN	OE1-CD-NE2	-9.37	113.23	122.60
1	M	87	LYS	CB-CA-C	-9.36	96.11	110.90
1	B	30	ILE	CB-CG1-CD1	9.36	133.46	113.80
1	E	349	GLY	CA-C-N	9.36	139.42	121.54
1	E	349	GLY	C-N-CA	9.36	139.42	121.54
1	D	134	LEU	O-C-N	-9.36	111.98	122.09
1	J	119	ILE	CA-C-O	-9.36	109.08	120.78
1	C	432	GLU	CA-C-O	-9.36	110.54	120.55
1	D	7	VAL	CA-C-O	-9.36	104.90	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	457	ALA	CA-C-N	9.36	133.70	120.98
1	E	457	ALA	C-N-CA	9.36	133.70	120.98
1	F	147	LYS	N-CA-C	9.36	130.73	110.80
1	G	38	THR	N-CA-C	9.35	124.83	113.23
1	H	89	VAL	N-CA-C	9.35	128.79	109.34
1	H	134	LEU	CB-CA-C	9.35	126.32	110.79
1	P	132	GLN	CA-C-O	-9.35	110.51	120.42
1	O	329	ASP	O-C-N	9.35	134.08	123.42
1	C	373	ILE	CA-CB-CG1	9.35	126.29	110.40
1	E	294	LYS	CA-C-N	9.35	137.50	121.14
1	E	294	LYS	C-N-CA	9.35	137.50	121.14
1	A	430	ALA	N-CA-C	9.35	121.16	110.97
1	D	353	HIS	CB-CG-CD2	9.35	143.35	131.20
1	H	88	GLU	CB-CG-CD	9.35	128.49	112.60
1	I	302	ASN	CA-CB-CG	-9.35	103.25	112.60
1	D	230	ALA	N-CA-C	9.34	124.31	110.48
1	H	187	LYS	CA-CB-CG	9.34	132.79	114.10
1	I	424	GLU	CA-C-N	9.34	137.49	121.14
1	I	424	GLU	C-N-CA	9.34	137.49	121.14
1	K	489	ARG	NE-CZ-NH1	-9.34	112.16	121.50
1	L	263	PHE	CA-CB-CG	9.34	123.14	113.80
1	N	249	ASP	CA-C-O	9.34	130.66	120.20
1	O	34	THR	CA-CB-OG1	9.34	123.61	109.60
1	J	269	ASP	O-C-N	-9.34	110.17	122.59
1	L	142	VAL	O-C-N	-9.34	110.90	122.57
1	L	448	CYS	O-C-N	-9.34	108.23	122.61
1	G	242	THR	CA-C-O	-9.34	110.81	120.71
1	B	154	ALA	N-CA-C	9.34	121.15	110.97
1	C	247	LEU	CA-C-O	9.34	130.32	120.70
1	L	168	GLU	O-C-N	9.34	135.34	122.46
1	D	438	ARG	N-CA-C	9.33	122.31	111.11
1	B	24	ASN	OD1-CG-ND2	9.33	131.93	122.60
1	B	155	MET	N-CA-CB	9.33	126.26	110.49
1	D	377	ARG	NE-CZ-NH2	-9.33	110.81	119.20
1	M	283	ALA	O-C-N	-9.33	112.50	123.41
1	A	236	ASN	CA-CB-CG	9.32	121.92	112.60
1	C	475	GLN	CA-C-O	9.32	130.59	120.24
1	P	236	ASN	CA-C-N	9.32	136.45	122.47
1	P	236	ASN	C-N-CA	9.32	136.45	122.47
1	F	430	ALA	N-CA-C	9.32	122.29	111.11
1	H	115	VAL	N-CA-CB	9.32	126.61	111.23
1	P	105	ARG	NE-CZ-NH1	-9.32	112.18	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	106	LYS	N-CA-C	9.32	121.04	111.07
1	B	353	HIS	CA-CB-CG	-9.32	104.48	113.80
1	B	477	ILE	N-CA-CB	9.32	121.82	110.64
1	F	305	THR	CA-CB-OG1	9.32	123.58	109.60
1	F	453	VAL	N-CA-C	9.32	120.12	110.62
1	J	96	ALA	O-C-N	-9.32	112.24	122.12
1	P	306	ASN	CA-C-O	-9.32	112.23	122.01
1	A	279	GLU	N-CA-CB	9.31	124.07	110.47
1	C	242	THR	N-CA-CB	9.31	124.05	109.71
1	C	304	ILE	CA-C-O	-9.31	109.14	120.78
1	H	232	ILE	CA-C-O	-9.31	112.84	121.97
1	J	349	GLY	CA-C-O	-9.31	112.25	121.75
1	P	189	ASP	CA-CB-CG	9.31	121.91	112.60
1	P	340	PRO	CA-C-N	9.31	134.79	120.82
1	P	340	PRO	C-N-CA	9.31	134.79	120.82
1	A	349	GLY	CA-C-N	9.31	139.32	121.54
1	A	349	GLY	C-N-CA	9.31	139.32	121.54
1	O	129	GLN	CB-CA-C	9.31	125.30	110.96
1	E	471	ARG	NE-CZ-NH2	9.31	127.58	119.20
1	L	141	GLU	CA-C-O	-9.31	110.00	120.43
1	B	216	LYS	O-C-N	-9.30	111.80	123.24
1	C	14	ARG	CA-C-O	-9.30	109.99	120.32
1	C	232	ILE	CB-CA-C	-9.30	99.05	111.15
1	F	448	CYS	N-CA-CB	9.31	126.22	110.49
1	K	438	ARG	CD-NE-CZ	9.30	137.43	124.40
1	B	342	ALA	CA-C-O	-9.30	110.58	121.46
1	H	294	LYS	N-CA-CB	9.30	124.61	110.19
1	E	130	LYS	CA-C-O	9.30	130.66	119.97
1	I	95	THR	O-C-N	9.30	132.07	122.03
1	M	132	GLN	OE1-CD-NE2	9.30	131.90	122.60
1	P	422	LEU	CA-C-N	9.30	132.92	120.65
1	P	422	LEU	C-N-CA	9.30	132.92	120.65
1	A	353	HIS	CA-C-O	-9.29	111.06	120.82
1	H	217	GLU	CA-C-O	-9.29	107.22	120.51
1	H	269	ASP	CA-C-O	-9.29	110.78	121.47
1	N	20	ALA	CA-C-O	-9.29	107.22	120.51
1	A	387	VAL	CA-C-O	-9.29	110.51	120.64
1	J	446	ASN	O-C-N	9.29	132.74	122.15
1	F	11	ASN	OD1-CG-ND2	-9.29	113.31	122.60
1	H	264	CYS	O-C-N	9.29	135.01	123.21
1	O	55	VAL	CA-C-N	9.29	135.73	123.10
1	O	55	VAL	C-N-CA	9.29	135.73	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	182	VAL	N-CA-CB	9.29	121.17	110.49
1	A	302	ASN	CA-C-O	9.29	130.24	120.30
1	G	56	VAL	CA-C-O	9.29	129.41	120.31
1	G	136	LYS	N-CA-C	9.29	122.39	111.71
1	H	380	SER	O-C-N	9.28	134.46	122.95
1	O	449	ALA	N-CA-C	9.28	130.57	110.80
1	D	464	ASN	OD1-CG-ND2	9.28	131.88	122.60
1	K	10	GLU	N-CA-C	9.28	123.93	110.10
1	B	256	ALA	N-CA-CB	9.28	126.17	110.49
1	K	240	GLU	N-CA-CB	9.28	124.18	110.35
1	P	48	LEU	N-CA-CB	9.28	126.17	110.49
1	B	18	ARG	O-C-N	-9.28	112.07	122.09
1	O	117	PRO	N-CD-CG	-9.28	89.29	103.20
1	O	398	GLU	CB-CG-CD	9.27	128.37	112.60
1	C	7	VAL	N-CA-CB	9.27	127.26	111.50
1	C	134	LEU	CB-CA-C	9.27	126.61	110.85
1	C	302	ASN	CB-CA-C	9.27	126.10	111.73
1	H	416	GLU	O-C-N	-9.27	110.18	122.23
1	F	420	ARG	NE-CZ-NH2	9.27	127.54	119.20
1	H	48	LEU	N-CA-C	9.27	123.57	110.50
1	K	201	ALA	N-CA-CB	9.27	126.15	110.49
1	F	291	ASP	O-C-N	-9.27	110.27	122.59
1	J	121	VAL	O-C-N	9.27	131.38	121.83
1	M	36	ARG	NH1-CZ-NH2	9.27	131.34	119.30
1	A	116	HIS	O-C-N	-9.26	110.67	121.32
1	D	433	ILE	N-CA-CB	9.26	123.14	110.54
1	L	38	THR	CA-CB-OG1	9.26	123.50	109.60
1	D	481	ALA	CA-C-O	-9.26	110.61	120.42
1	E	101	GLY	O-C-N	-9.26	110.67	122.70
1	L	202	SER	CA-C-O	9.26	132.23	121.49
1	G	72	HIS	O-C-N	-9.26	110.67	121.32
1	M	362	VAL	CA-C-O	-9.26	111.60	120.30
1	I	36	ARG	CA-C-O	-9.25	108.71	120.00
1	K	129	GLN	O-C-N	-9.25	112.04	122.03
1	L	44	MET	CA-C-O	-9.25	110.90	120.71
1	M	105	ARG	NE-CZ-NH1	-9.25	112.25	121.50
1	O	177	ALA	CA-C-O	9.25	130.51	120.24
1	G	96	ALA	CA-C-N	-9.25	110.51	122.16
1	G	96	ALA	C-N-CA	-9.25	110.51	122.16
1	G	191	ASP	CA-CB-CG	9.25	121.85	112.60
1	J	315	LEU	CA-C-N	9.25	132.74	121.83
1	J	315	LEU	C-N-CA	9.25	132.74	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	329	ASP	CB-CA-C	9.25	124.88	109.99
1	J	432	GLU	N-CA-C	9.25	124.75	113.38
1	M	217	GLU	CA-C-N	-9.25	109.81	122.30
1	M	217	GLU	C-N-CA	-9.25	109.81	122.30
1	C	13	LYS	CA-C-O	-9.24	107.29	120.51
1	D	189	ASP	CA-C-N	9.24	139.20	121.54
1	D	189	ASP	C-N-CA	9.24	139.20	121.54
1	O	91	ASP	CA-CB-CG	9.24	121.84	112.60
1	J	450	GLY	O-C-N	-9.24	115.55	123.59
1	M	85	GLN	O-C-N	-9.24	110.10	122.49
1	F	274	HIS	CG-CD2-NE2	9.24	116.44	107.20
1	I	227	VAL	N-CA-CB	9.24	126.59	111.44
1	J	199	SER	CA-C-O	-9.24	110.54	120.80
1	I	137	THR	CA-CB-OG1	9.24	123.46	109.60
1	D	68	MET	N-CA-CB	-9.24	95.09	110.42
1	B	111	LEU	CA-C-O	-9.23	108.31	119.49
1	G	315	LEU	O-C-N	-9.23	111.19	123.19
1	H	377	ARG	NH1-CZ-NH2	9.23	131.30	119.30
1	N	141	GLU	CA-CB-CG	9.23	132.57	114.10
1	K	91	ASP	CA-CB-CG	9.23	121.83	112.60
1	F	259	ALA	CA-C-N	9.23	135.37	120.60
1	F	259	ALA	C-N-CA	9.23	135.37	120.60
1	I	356	GLU	CB-CA-C	9.23	125.58	110.81
1	O	31	ILE	CA-C-N	9.23	133.18	120.63
1	O	31	ILE	C-N-CA	9.23	133.18	120.63
1	E	188	VAL	CA-C-N	9.23	138.46	123.33
1	E	188	VAL	C-N-CA	9.23	138.46	123.33
1	M	125	GLN	N-CA-C	9.23	123.04	111.69
1	H	429	ASP	O-C-N	-9.23	110.83	122.82
1	O	59	ASN	CA-C-N	9.23	133.91	120.90
1	O	59	ASN	C-N-CA	9.23	133.91	120.90
1	J	47	MET	O-C-N	-9.22	111.77	122.84
1	M	185	GLU	CB-CG-CD	9.22	128.28	112.60
1	P	9	PRO	N-CA-CB	-9.22	93.57	103.25
1	D	220	SER	CA-C-O	-9.22	110.94	120.71
1	K	27	ALA	O-C-N	-9.22	109.65	122.37
1	M	241	GLU	N-CA-CB	-9.22	96.69	111.62
1	M	450	GLY	CA-C-O	-9.22	111.17	121.77
1	E	360	ARG	NH1-CZ-NH2	-9.22	107.32	119.30
1	F	243	ALA	N-CA-C	9.21	130.43	110.80
1	L	303	VAL	O-C-N	-9.21	112.62	122.67
1	O	72	HIS	O-C-N	-9.21	110.72	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	42	LYS	CB-CA-C	9.21	125.68	109.65
1	G	127	ALA	O-C-N	9.21	135.88	122.43
1	C	182	VAL	CA-C-O	-9.21	110.35	120.85
1	E	125	GLN	OE1-CD-NE2	9.21	131.81	122.60
1	E	354	VAL	O-C-N	-9.21	111.56	122.06
1	H	225	LYS	CA-C-N	9.21	139.13	121.54
1	H	225	LYS	C-N-CA	9.21	139.13	121.54
1	O	341	LYS	N-CA-CB	9.21	125.41	110.40
1	A	150	LEU	CA-C-O	-9.21	110.66	120.42
1	B	52	LEU	CA-C-O	-9.21	108.22	119.18
1	K	312	ALA	O-C-N	-9.20	108.20	122.93
1	C	377	ARG	CA-C-N	9.20	138.53	121.97
1	C	377	ARG	C-N-CA	9.20	138.53	121.97
1	D	339	HIS	CB-CG-ND1	9.20	136.50	122.70
1	F	218	ARG	NE-CZ-NH1	-9.20	112.30	121.50
1	N	337	CYS	CA-C-O	-9.20	110.86	121.16
1	B	130	LYS	O-C-N	9.20	131.87	122.12
1	K	75	ALA	O-C-N	-9.20	110.36	122.59
1	K	228	THR	O-C-N	-9.20	110.35	122.59
1	A	155	MET	N-CA-C	9.20	123.76	112.54
1	E	209	ILE	CA-C-O	-9.20	109.28	120.78
1	G	67	GLU	O-C-N	-9.19	111.67	122.15
1	K	118	THR	O-C-N	9.20	133.58	122.27
1	L	21	GLN	CA-CB-CG	9.20	132.49	114.10
1	O	478	GLN	OE1-CD-NE2	-9.19	113.41	122.60
1	A	61	GLY	O-C-N	-9.19	110.75	122.70
1	K	79	ILE	CA-CB-CG2	9.19	126.13	110.50
1	A	257	SER	CA-C-O	-9.19	110.04	120.24
1	B	330	SER	CA-C-N	9.19	138.11	121.94
1	B	330	SER	C-N-CA	9.19	138.11	121.94
1	D	475	GLN	N-CA-C	-9.19	99.39	111.24
1	G	286	ARG	NE-CZ-NH2	9.19	127.47	119.20
1	A	30	ILE	N-CA-CB	9.19	120.27	110.62
1	O	168	GLU	CA-C-O	9.19	130.47	120.82
1	H	179	SER	O-C-N	-9.18	110.45	122.39
1	L	224	PRO	CB-CA-C	9.18	123.80	110.85
1	O	221	ALA	O-C-N	9.18	132.97	122.22
1	N	154	ALA	N-CA-C	9.18	123.80	112.23
1	C	155	MET	CA-C-O	-9.18	110.72	120.63
1	H	325	LYS	CA-CB-CG	9.18	132.46	114.10
1	I	18	ARG	CB-CA-C	9.18	125.52	110.92
1	K	479	SER	O-C-N	9.18	132.66	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	34	THR	CA-CB-CG2	9.18	126.11	110.50
1	N	416	GLU	CA-C-O	-9.18	108.86	119.60
1	B	57	VAL	CA-C-O	-9.18	110.05	120.97
1	F	57	VAL	O-C-N	9.18	133.84	123.10
1	J	420	ARG	O-C-N	9.18	131.85	122.12
1	P	115	VAL	O-C-N	-9.18	112.68	122.68
1	K	97	VAL	N-CA-C	9.18	119.99	110.72
1	A	300	GLY	CA-C-N	9.17	134.60	120.75
1	A	300	GLY	C-N-CA	9.17	134.60	120.75
1	C	341	LYS	N-CA-C	-9.17	102.09	113.28
1	E	45	ASP	CA-C-N	9.17	137.85	121.89
1	E	45	ASP	C-N-CA	9.17	137.85	121.89
1	H	155	MET	N-CA-C	9.17	122.43	111.33
1	M	313	GLN	N-CA-C	9.17	122.59	111.40
1	N	29	ARG	NE-CZ-NH2	9.17	127.46	119.20
1	A	385	THR	CA-C-N	9.17	139.05	121.54
1	A	385	THR	C-N-CA	9.17	139.05	121.54
1	J	82	ALA	CA-C-N	9.17	136.02	120.71
1	J	82	ALA	C-N-CA	9.17	136.02	120.71
1	K	370	GLY	CA-C-N	9.17	139.05	121.54
1	K	370	GLY	C-N-CA	9.17	139.05	121.54
1	O	218	ARG	NE-CZ-NH2	9.17	127.45	119.20
1	H	306	ASN	OD1-CG-ND2	-9.17	113.43	122.60
1	E	285	ARG	CG-CD-NE	9.17	132.16	112.00
1	G	50	ASP	O-C-N	-9.17	109.83	122.94
1	M	377	ARG	CD-NE-CZ	9.17	137.23	124.40
1	O	384	SER	CA-C-N	9.17	136.26	120.68
1	O	384	SER	C-N-CA	9.17	136.26	120.68
1	P	495	ALA	O-C-N	-9.17	111.28	123.10
1	O	373	ILE	N-CA-CB	9.16	126.35	111.23
1	I	302	ASN	O-C-N	-9.16	112.55	123.27
1	I	228	THR	CA-CB-CG2	9.16	126.07	110.50
1	J	145	GLN	CA-C-O	-9.16	110.69	121.32
1	J	312	ALA	CA-C-N	9.16	141.54	122.58
1	J	312	ALA	C-N-CA	9.16	141.54	122.58
1	C	348	ARG	CG-CD-NE	9.16	132.15	112.00
1	L	67	GLU	N-CA-C	9.16	122.19	111.02
1	J	239	ILE	CA-C-N	9.16	134.74	122.84
1	J	239	ILE	C-N-CA	9.16	134.74	122.84
1	A	10	GLU	O-C-N	-9.15	110.41	122.59
1	A	400	ILE	N-CA-CB	9.15	121.91	110.47
1	C	193	ILE	CA-C-O	9.15	131.86	120.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	395	GLU	O-C-N	-9.15	110.16	122.43
1	B	469	PRO	CA-N-CD	-9.15	99.19	112.00
1	L	204	ASP	CA-CB-CG	-9.15	103.45	112.60
1	A	88	GLU	CB-CG-CD	9.15	128.15	112.60
1	G	66	ARG	N-CA-C	-9.15	101.68	113.12
1	E	198	LYS	CA-C-O	-9.15	111.02	120.71
1	E	252	ALA	CA-C-N	9.14	135.69	120.88
1	E	252	ALA	C-N-CA	9.14	135.69	120.88
1	G	482	GLU	CA-C-O	-9.14	108.36	119.43
1	K	463	GLU	N-CA-C	9.14	122.23	111.71
1	M	251	VAL	CA-C-O	-9.14	110.37	120.25
1	A	378	ILE	O-C-N	-9.14	113.51	123.20
1	I	374	GLU	CB-CG-CD	9.14	128.15	112.60
1	O	84	THR	N-CA-C	9.14	121.25	111.28
1	O	285	ARG	NE-CZ-NH1	9.14	130.64	121.50
1	D	331	MET	CA-C-N	-9.14	111.17	123.14
1	D	331	MET	C-N-CA	-9.14	111.17	123.14
1	P	403	ARG	NE-CZ-NH2	-9.14	110.97	119.20
1	K	406	LEU	O-C-N	-9.14	110.60	122.39
1	I	293	GLU	N-CA-CB	9.14	125.56	110.39
1	J	21	GLN	CA-C-O	9.14	130.68	120.90
1	K	404	GLU	CA-C-N	9.14	132.87	120.44
1	K	404	GLU	C-N-CA	9.14	132.87	120.44
1	B	36	ARG	NE-CZ-NH1	-9.14	112.36	121.50
1	C	360	ARG	N-CA-CB	9.13	124.37	110.30
1	D	465	GLY	CA-C-N	9.13	138.41	121.97
1	D	465	GLY	C-N-CA	9.13	138.41	121.97
1	G	36	ARG	NE-CZ-NH1	-9.13	112.36	121.50
1	P	14	ARG	CA-C-O	-9.13	110.56	120.24
1	F	294	LYS	N-CA-CB	9.13	124.44	110.28
1	L	344	THR	CA-C-O	-9.13	111.03	121.81
1	N	85	GLN	CB-CG-CD	9.13	128.13	112.60
1	O	365	ALA	N-CA-C	9.13	126.44	111.37
1	P	297	LYS	O-C-N	-9.13	109.39	122.36
1	F	183	ASP	CA-C-O	-9.13	110.40	121.36
1	H	319	GLY	CA-C-O	-9.13	104.68	120.57
1	N	195	ILE	CA-C-O	-9.13	111.41	121.09
1	F	221	ALA	N-CA-CB	-9.13	96.70	110.12
1	I	31	ILE	CA-C-N	9.13	135.95	120.71
1	I	31	ILE	C-N-CA	9.13	135.95	120.71
1	J	93	THR	CA-C-N	9.13	133.25	120.29
1	J	93	THR	C-N-CA	9.13	133.25	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	187	LYS	CB-CA-C	9.13	125.57	111.70
1	C	469	PRO	O-C-N	-9.13	110.32	122.64
1	M	64	ILE	N-CA-CB	9.13	126.29	111.23
1	N	256	ALA	CA-C-O	-9.13	111.24	120.82
1	O	339	HIS	CE1-NE2-CD2	9.13	118.13	109.00
1	O	468	GLU	CA-C-N	9.13	131.25	119.84
1	O	468	GLU	C-N-CA	9.13	131.25	119.84
1	F	337	CYS	CA-C-O	-9.12	111.11	121.15
1	P	488	LEU	O-C-N	9.12	132.90	122.22
1	J	379	VAL	N-CA-C	9.12	120.77	108.27
1	K	489	ARG	O-C-N	-9.12	110.46	122.59
1	L	222	GLN	CA-C-O	-9.12	110.79	120.55
1	C	286	ARG	CA-C-O	-9.12	107.47	120.51
1	M	300	GLY	CA-C-N	9.12	138.96	121.54
1	D	220	SER	O-C-N	-9.12	111.63	123.21
1	J	27	ALA	CA-C-O	-9.12	111.31	120.70
1	M	120	VAL	CA-C-O	-9.12	108.54	119.85
1	M	300	GLY	C-N-CA	9.12	138.96	121.54
1	P	53	GLY	O-C-N	9.12	133.81	122.41
1	A	366	VAL	N-CA-C	9.12	119.92	110.62
1	B	463	GLU	O-C-N	-9.11	111.06	122.27
1	H	474	THR	N-CA-CB	9.12	123.65	110.16
1	J	97	VAL	N-CA-C	9.11	128.30	109.34
1	M	419	PRO	O-C-N	-9.12	110.33	122.64
1	B	41	PRO	O-C-N	9.11	134.94	122.64
1	N	42	LYS	O-C-N	-9.11	112.80	122.19
1	K	464	ASN	CA-C-O	-9.11	108.01	119.31
1	M	209	ILE	O-C-N	-9.11	112.62	122.83
1	P	143	GLY	CA-C-O	-9.11	104.72	120.57
1	A	425	ASN	CA-CB-CG	9.11	121.71	112.60
1	I	361	ALA	CA-C-N	9.11	135.95	120.29
1	I	361	ALA	C-N-CA	9.11	135.95	120.29
1	J	184	ASP	CB-CG-OD2	9.11	139.34	118.40
1	L	482	GLU	CA-C-O	9.10	130.00	119.35
1	C	71	GLU	OE1-CD-OE2	9.10	144.74	122.90
1	K	360	ARG	CA-CB-CG	9.10	132.30	114.10
1	K	439	ALA	CB-CA-C	9.10	125.95	110.84
1	M	454	PHE	CE1-CZ-CE2	9.10	136.38	120.00
1	N	18	ARG	CA-C-O	9.10	129.53	119.24
1	N	317	ASP	CB-CG-OD1	9.10	139.33	118.40
1	P	241	GLU	CA-C-O	-9.10	111.32	121.51
1	E	418	ILE	O-C-N	9.10	126.24	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	327	SER	O-C-N	-9.10	110.49	122.59
1	H	187	LYS	CB-CG-CD	9.10	132.22	111.30
1	N	9	PRO	O-C-N	-9.10	111.90	122.91
1	C	119	ILE	CB-CA-C	-9.10	100.48	111.94
1	C	359	ALA	CA-C-N	9.10	136.14	120.68
1	C	359	ALA	C-N-CA	9.10	136.14	120.68
1	F	86	GLU	N-CA-CB	9.10	123.17	109.98
1	J	9	PRO	CA-C-O	-9.10	110.58	121.95
1	N	344	THR	CA-C-O	9.10	131.38	120.92
1	C	163	ALA	N-CA-CB	9.09	125.86	110.49
1	D	428	LEU	N-CA-CB	9.09	125.86	110.49
1	E	489	ARG	NH1-CZ-NH2	-9.09	107.48	119.30
1	L	375	ASP	CA-C-O	9.09	131.51	120.60
1	O	315	LEU	N-CA-CB	9.09	127.46	111.00
1	D	221	ALA	O-C-N	9.09	135.27	122.36
1	D	373	ILE	N-CA-C	9.09	119.64	110.82
1	I	361	ALA	CA-C-O	-9.09	109.83	120.10
1	M	107	ALA	N-CA-CB	9.09	126.29	110.39
1	N	218	ARG	NE-CZ-NH2	9.09	127.38	119.20
1	F	68	MET	CA-C-O	-9.09	107.52	120.51
1	I	274	HIS	ND1-CG-CD2	9.09	115.19	106.10
1	P	154	ALA	N-CA-C	9.09	122.10	111.02
1	B	404	GLU	O-C-N	9.08	134.60	122.43
1	B	422	LEU	CA-C-O	-9.08	108.89	119.61
1	I	450	GLY	CA-C-O	-9.08	112.63	121.90
1	G	174	ILE	CA-CB-CG1	9.08	125.84	110.40
1	J	409	ARG	NE-CZ-NH1	9.08	130.58	121.50
1	L	283	ALA	O-C-N	-9.08	112.90	123.25
1	L	11	ASN	OD1-CG-ND2	-9.08	113.52	122.60
1	O	31	ILE	O-C-N	-9.08	111.22	122.57
1	M	74	ALA	N-CA-C	-9.08	100.33	111.40
1	A	15	TYR	N-CA-C	9.07	130.13	110.80
1	H	18	ARG	O-C-N	-9.07	112.23	122.03
1	K	49	VAL	CA-C-O	-9.07	110.93	120.64
1	N	377	ARG	CA-C-O	-9.07	111.64	121.44
1	K	75	ALA	CA-C-O	9.07	133.48	120.51
1	F	150	LEU	CA-C-O	9.07	130.40	119.97
1	G	464	ASN	CA-C-N	9.07	139.19	121.41
1	G	464	ASN	C-N-CA	9.07	139.19	121.41
1	J	63	THR	CA-CB-CG2	9.07	125.92	110.50
1	J	364	ASP	CA-C-O	9.07	130.21	119.60
1	L	403	ARG	CA-C-O	9.07	131.08	120.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	179	SER	O-C-N	9.07	135.81	122.39
1	N	294	LYS	N-CA-CB	9.07	123.93	110.33
1	O	72	HIS	N-CA-C	9.07	129.85	109.81
1	B	409	ARG	CA-C-O	-9.07	111.48	121.00
1	E	473	LYS	CA-CB-CG	9.07	132.23	114.10
1	H	209	ILE	O-C-N	-9.07	112.75	122.45
1	K	92	GLY	O-C-N	-9.07	112.44	122.50
1	O	437	VAL	CA-C-O	-9.07	111.01	120.71
1	A	183	ASP	CA-CB-CG	9.06	121.67	112.60
1	B	265	GLN	CA-C-O	9.06	130.71	119.11
1	N	91	ASP	CA-C-O	-9.06	110.58	120.92
1	D	236	ASN	OD1-CG-ND2	-9.06	113.54	122.60
1	G	274	HIS	CA-C-O	9.06	130.46	119.49
1	K	311	SER	O-C-N	-9.06	110.53	122.59
1	L	155	MET	N-CA-C	9.06	123.60	112.54
1	J	232	ILE	CA-C-O	-9.06	112.25	121.59
1	M	461	MET	CA-C-N	9.06	138.85	121.54
1	M	461	MET	C-N-CA	9.06	138.85	121.54
1	E	8	LEU	CA-C-O	-9.06	109.27	120.23
1	E	20	ALA	CA-C-O	-9.06	108.98	120.31
1	L	420	ARG	O-C-N	9.06	131.88	122.09
1	E	296	ALA	CA-C-N	9.06	138.31	122.09
1	E	296	ALA	C-N-CA	9.06	138.31	122.09
1	H	369	VAL	CA-C-O	-9.06	109.46	120.78
1	J	370	GLY	CA-C-N	9.06	138.84	121.54
1	J	370	GLY	C-N-CA	9.06	138.84	121.54
1	L	378	ILE	N-CA-C	9.06	121.66	108.53
1	B	51	ASP	O-C-N	9.05	134.63	122.59
1	N	432	GLU	N-CA-CB	9.05	123.13	109.91
1	O	245	GLU	N-CA-C	9.05	130.08	110.80
1	D	229	ASP	CA-C-O	9.05	131.72	121.58
1	H	12	MET	CA-C-O	-9.05	107.57	120.51
1	N	148	GLU	CA-C-O	9.05	130.58	120.90
1	I	200	GLY	O-C-N	-9.05	110.94	122.70
1	D	201	ALA	O-C-N	-9.05	110.56	122.59
1	I	98	VAL	CA-C-O	-9.05	111.01	121.05
1	N	374	GLU	CB-CG-CD	9.05	127.98	112.60
1	N	487	LEU	CB-CA-C	9.05	128.42	110.42
1	O	381	GLY	CA-C-O	-9.05	108.68	119.72
1	B	272	ALA	N-CA-C	9.04	120.91	111.14
1	H	289	LYS	O-C-N	9.04	135.20	122.36
1	J	224	PRO	O-C-N	9.04	134.85	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	495	ALA	CA-C-O	-9.04	110.20	121.78
1	N	16	MET	CA-C-O	-9.04	111.77	121.36
1	O	69	SER	CA-C-O	-9.04	107.58	120.51
1	A	462	CYS	CA-C-N	-9.04	107.89	122.26
1	A	462	CYS	C-N-CA	-9.04	107.89	122.26
1	B	62	VAL	CA-C-O	-9.04	109.48	120.78
1	K	342	ALA	O-C-N	-9.04	112.75	122.96
1	N	458	VAL	CA-CB-CG2	9.04	125.77	110.40
1	B	81	VAL	O-C-N	-9.04	113.37	122.23
1	G	112	ASP	CA-CB-CG	9.04	121.64	112.60
1	N	474	THR	CA-C-O	-9.04	109.03	119.60
1	J	32	ALA	O-C-N	-9.04	111.38	121.95
1	K	145	GLN	CB-CG-CD	-9.04	97.24	112.60
1	O	362	VAL	N-CA-C	9.04	118.96	110.74
1	C	493	VAL	N-CA-CB	9.04	122.94	111.83
1	E	51	ASP	CA-CB-CG	9.04	121.64	112.60
1	J	420	ARG	CA-C-O	-9.04	110.97	120.55
1	C	21	GLN	OE1-CD-NE2	-9.03	113.57	122.60
1	I	126	ALA	O-C-N	-9.03	109.24	122.43
1	P	66	ARG	NH1-CZ-NH2	-9.04	107.55	119.30
1	C	385	THR	CA-C-N	9.03	132.57	120.65
1	C	385	THR	C-N-CA	9.03	132.57	120.65
1	F	436	LYS	O-C-N	9.03	131.84	122.09
1	G	235	LEU	CA-C-N	9.03	133.56	120.38
1	G	235	LEU	C-N-CA	9.03	133.56	120.38
1	I	439	ALA	CA-C-O	-9.03	108.27	119.38
1	D	311	SER	CA-C-N	9.03	133.11	120.29
1	D	311	SER	C-N-CA	9.03	133.11	120.29
1	L	94	THR	O-C-N	-9.03	110.58	122.59
1	N	48	LEU	CA-C-O	-9.03	111.56	121.94
1	A	306	ASN	CA-CB-CG	9.03	121.63	112.60
1	I	467	VAL	N-CA-C	9.03	121.78	108.96
1	P	14	ARG	N-CA-C	9.03	123.14	108.34
1	P	193	ILE	O-C-N	-9.03	112.06	122.62
1	F	58	THR	CA-C-N	9.02	138.77	121.54
1	F	58	THR	C-N-CA	9.02	138.77	121.54
1	C	323	GLU	O-C-N	9.02	134.59	122.59
1	N	368	VAL	N-CA-C	9.02	122.33	111.05
1	B	246	MET	N-CA-CB	9.02	125.73	110.49
1	D	180	ALA	N-CA-C	9.02	124.72	112.90
1	J	210	LYS	CB-CG-CD	9.02	132.04	111.30
1	K	206	THR	CA-C-O	-9.02	110.33	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	140	CYS	CA-C-O	9.02	130.53	120.43
1	F	285	ARG	N-CA-C	9.02	124.45	110.20
1	M	21	GLN	CA-C-O	-9.02	110.82	120.92
1	M	200	GLY	O-C-N	-9.02	110.98	122.70
1	B	63	THR	N-CA-CB	9.02	125.72	110.49
1	G	108	GLU	O-C-N	9.02	131.83	122.09
1	J	57	VAL	N-CA-CB	-9.02	100.66	111.21
1	K	81	VAL	N-CA-CB	9.02	125.62	110.56
1	N	90	GLY	CA-C-N	9.02	133.53	120.82
1	N	90	GLY	C-N-CA	9.02	133.53	120.82
1	I	63	THR	CA-C-O	-9.01	109.61	119.97
1	C	277	ALA	CA-C-O	-9.01	109.02	119.56
1	J	348	ARG	O-C-N	-9.01	112.85	122.94
1	A	235	LEU	CA-C-N	9.01	135.76	120.72
1	A	235	LEU	C-N-CA	9.01	135.76	120.72
1	B	433	ILE	CB-CA-C	-9.01	99.98	112.14
1	K	116	HIS	CA-C-O	-9.01	107.82	120.16
1	P	409	ARG	NH1-CZ-NH2	-9.01	107.59	119.30
1	F	315	LEU	CA-C-O	-9.01	111.05	121.68
1	P	126	ALA	O-C-N	-9.01	110.52	122.23
1	P	275	TYR	CG-CD1-CE1	9.01	134.71	121.20
1	L	64	ILE	N-CA-C	9.01	119.81	110.36
1	A	153	ILE	N-CA-CB	9.00	121.72	110.47
1	I	10	GLU	CB-CG-CD	9.00	127.91	112.60
1	P	342	ALA	N-CA-C	-9.00	95.56	109.52
1	B	319	GLY	O-C-N	-9.00	108.59	122.18
1	F	293	GLU	CA-C-N	9.00	133.99	120.31
1	F	293	GLU	C-N-CA	9.00	133.99	120.31
1	H	364	ASP	N-CA-CB	9.00	125.70	110.49
1	O	275	TYR	N-CA-CB	9.00	125.70	110.49
1	P	429	ASP	CB-CA-C	9.00	123.12	110.16
1	B	30	ILE	CB-CA-C	-9.00	100.18	111.70
1	H	116	HIS	CB-CA-C	9.00	127.90	110.17
1	J	183	ASP	CA-C-O	-9.00	110.46	120.81
1	K	306	ASN	O-C-N	-9.00	111.58	122.65
1	O	115	VAL	CA-C-O	-9.00	109.53	120.78
1	H	57	VAL	CA-CB-CG2	-9.00	95.11	110.40
1	B	138	ILE	CB-CA-C	-8.99	100.19	112.24
1	B	242	THR	CA-C-N	8.99	138.72	121.54
1	B	242	THR	C-N-CA	8.99	138.72	121.54
1	F	405	GLN	CA-C-O	-8.99	111.44	120.70
1	C	453	VAL	O-C-N	-8.99	108.55	122.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	289	LYS	CA-C-N	8.99	132.52	120.65
1	F	289	LYS	C-N-CA	8.99	132.52	120.65
1	I	69	SER	CA-C-O	-8.99	107.65	120.51
1	M	294	LYS	N-CA-C	8.99	122.21	111.33
1	B	372	THR	CA-C-N	8.99	131.85	120.88
1	B	372	THR	C-N-CA	8.99	131.85	120.88
1	E	400	ILE	N-CA-C	8.99	118.92	110.74
1	B	479	SER	N-CA-CB	8.99	125.68	110.49
1	H	119	ILE	CB-CA-C	-8.99	101.21	111.55
1	J	169	LYS	O-C-N	-8.99	111.10	122.34
1	L	124	TYR	CA-C-O	8.99	130.26	120.10
1	J	33	GLU	O-C-N	8.99	133.07	122.20
1	G	400	ILE	CA-C-N	8.99	138.70	121.54
1	G	400	ILE	C-N-CA	8.99	138.70	121.54
1	H	172	GLU	CA-C-O	8.99	130.24	120.80
1	I	66	ARG	CG-CD-NE	8.99	131.77	112.00
1	I	242	THR	CA-C-O	-8.99	110.47	120.81
1	O	471	ARG	NE-CZ-NH1	8.99	130.49	121.50
1	M	63	THR	CA-CB-CG2	8.98	125.77	110.50
1	O	14	ARG	CA-C-O	-8.98	111.00	120.70
1	F	200	GLY	O-C-N	-8.98	111.02	122.70
1	I	446	ASN	O-C-N	8.98	134.53	122.59
1	K	318	ALA	CA-C-O	-8.98	110.66	120.36
1	C	233	ALA	CA-C-O	-8.98	110.65	120.43
1	D	221	ALA	CA-C-O	-8.98	109.10	119.60
1	D	452	ASN	CA-C-N	8.98	135.34	120.62
1	D	452	ASN	C-N-CA	8.98	135.34	120.62
1	L	324	ARG	NE-CZ-NH2	8.98	127.28	119.20
1	K	232	ILE	O-C-N	-8.97	112.97	122.57
1	P	323	GLU	CA-C-O	-8.97	110.70	121.02
1	G	276	LEU	N-CA-CB	8.97	124.19	110.28
1	A	332	ILE	CA-C-O	-8.97	110.97	120.48
1	C	247	LEU	N-CA-C	8.97	120.83	111.14
1	G	167	LYS	CA-C-O	-8.97	111.30	120.90
1	N	85	GLN	CA-CB-CG	8.97	132.04	114.10
1	G	98	VAL	CB-CA-C	-8.97	100.27	112.02
1	I	467	VAL	CA-C-O	-8.97	112.16	121.67
1	L	47	MET	N-CA-C	8.97	125.53	107.41
1	M	305	THR	CA-CB-OG1	8.97	123.05	109.60
1	N	145	GLN	CG-CD-NE2	8.97	129.85	116.40
1	C	87	LYS	CA-CB-CG	8.97	132.03	114.10
1	B	140	CYS	O-C-N	-8.96	112.38	123.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	364	ASP	N-CA-CB	8.96	123.51	110.06
1	I	305	THR	CA-CB-OG1	8.96	123.05	109.60
1	M	462	CYS	CA-C-O	-8.97	107.69	120.51
1	N	339	HIS	CB-CG-CD2	8.97	142.86	131.20
1	I	353	HIS	CA-C-O	-8.96	107.69	120.51
1	J	61	GLY	CA-C-N	8.96	138.10	121.97
1	J	61	GLY	C-N-CA	8.96	138.10	121.97
1	F	462	CYS	N-CA-CB	8.96	125.64	110.49
1	L	312	ALA	N-CA-C	8.96	123.22	111.75
1	E	132	GLN	CA-C-O	-8.96	111.31	120.90
1	J	133	GLU	CB-CG-CD	8.96	127.83	112.60
1	L	336	GLU	CA-C-O	-8.96	107.69	120.51
1	M	265	GLN	CA-C-N	8.96	135.66	122.39
1	M	265	GLN	C-N-CA	8.96	135.66	122.39
1	K	171	ALA	N-CA-C	8.96	124.02	113.18
1	M	43	GLY	CA-C-O	8.96	136.16	120.57
1	M	350	THR	CA-CB-OG1	8.96	123.03	109.60
1	A	313	GLN	OE1-CD-NE2	8.96	131.56	122.60
1	B	181	VAL	N-CA-CB	8.96	126.00	111.23
1	F	460	ASP	CA-CB-CG	-8.96	103.64	112.60
1	K	118	THR	CA-C-O	-8.95	109.67	119.97
1	K	236	ASN	O-C-N	-8.95	110.84	122.39
1	B	138	ILE	O-C-N	-8.95	110.02	121.84
1	B	387	VAL	O-C-N	8.95	133.76	122.57
1	D	114	ASN	CB-CG-OD1	8.95	138.70	120.80
1	H	106	LYS	CA-C-O	-8.95	109.98	120.10
1	O	411	PHE	CA-CB-CG	8.95	122.75	113.80
1	L	482	GLU	CB-CG-CD	8.95	127.81	112.60
1	I	69	SER	O-C-N	-8.95	110.69	122.59
1	K	448	CYS	O-C-N	-8.95	109.36	122.96
1	O	217	GLU	CA-C-N	-8.95	110.40	123.11
1	O	217	GLU	C-N-CA	-8.95	110.40	123.11
1	F	432	GLU	N-CA-C	8.94	121.11	111.36
1	L	343	VAL	N-CA-CB	-8.95	99.11	111.19
1	C	302	ASN	CB-CG-OD1	8.94	138.69	120.80
1	K	388	GLU	CB-CG-CD	8.94	127.80	112.60
1	E	285	ARG	O-C-N	8.94	133.21	122.84
1	O	146	ASP	CB-CA-C	8.94	123.25	109.84
1	B	105	ARG	NE-CZ-NH2	8.94	127.25	119.20
1	J	273	GLN	OE1-CD-NE2	-8.94	113.66	122.60
1	M	87	LYS	CA-C-O	-8.94	111.49	120.70
1	M	145	GLN	OE1-CD-NE2	8.94	131.54	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	320	LEU	CA-C-N	8.94	138.06	121.97
1	O	320	LEU	C-N-CA	8.94	138.06	121.97
1	I	30	ILE	CB-CA-C	-8.94	100.27	112.24
1	I	400	ILE	O-C-N	-8.93	109.58	121.82
1	J	9	PRO	CA-C-N	8.93	133.55	120.87
1	J	9	PRO	C-N-CA	8.93	133.55	120.87
1	M	218	ARG	CA-C-O	-8.93	110.42	120.43
1	O	358	VAL	O-C-N	-8.93	111.40	122.57
1	P	171	ALA	CA-C-N	8.93	132.05	120.44
1	P	171	ALA	C-N-CA	8.93	132.05	120.44
1	E	253	GLU	N-CA-CB	8.93	123.20	110.07
1	B	490	ILE	CA-C-O	-8.93	109.62	120.78
1	F	153	ILE	CA-C-N	8.93	132.58	120.44
1	F	153	ILE	C-N-CA	8.93	132.58	120.44
1	F	221	ALA	CA-C-O	-8.93	111.09	120.55
1	I	415	LEU	N-CA-CB	8.93	125.58	110.49
1	D	173	ILE	O-C-N	8.93	134.44	122.12
1	D	351	THR	O-C-N	-8.93	112.37	123.17
1	G	229	ASP	CA-C-N	8.93	135.30	122.09
1	G	229	ASP	C-N-CA	8.93	135.30	122.09
1	H	279	GLU	N-CA-CB	8.93	125.32	111.39
1	F	353	HIS	CA-C-O	-8.92	110.96	120.42
1	I	14	ARG	CA-C-O	-8.92	110.78	120.24
1	J	129	GLN	N-CA-CB	8.92	124.11	110.28
1	J	245	GLU	N-CA-C	8.92	129.81	110.80
1	J	278	LYS	O-C-N	-8.92	112.53	122.08
1	B	338	LYS	N-CA-C	8.92	121.08	111.36
1	D	203	ILE	O-C-N	-8.92	109.81	122.12
1	J	400	ILE	N-CA-C	8.92	120.72	111.00
1	L	84	THR	O-C-N	8.92	131.57	122.12
1	N	259	ALA	CA-C-N	8.92	135.61	120.72
1	N	259	ALA	C-N-CA	8.92	135.61	120.72
1	O	480	ALA	O-C-N	8.92	132.46	122.11
1	L	243	ALA	O-C-N	-8.92	110.73	122.59
1	M	341	LYS	CA-C-O	8.92	130.28	119.49
1	E	112	ASP	CA-C-N	8.91	136.91	122.65
1	E	112	ASP	C-N-CA	8.91	136.91	122.65
1	E	413	ASP	CA-CB-CG	-8.91	103.69	112.60
1	I	279	GLU	CA-C-O	-8.91	110.34	120.24
1	A	141	GLU	CA-C-O	-8.91	111.18	121.16
1	G	494	ILE	O-C-N	-8.91	109.66	122.76
1	I	472	VAL	CA-C-O	-8.91	111.41	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	266	LYS	O-C-N	-8.91	111.87	123.28
1	M	375	ASP	CA-CB-CG	8.91	121.51	112.60
1	M	400	ILE	CB-CA-C	8.91	125.90	111.29
1	G	70	VAL	N-CA-C	8.91	127.87	109.34
1	H	158	ILE	N-CA-C	8.91	127.87	109.34
1	I	132	GLN	OE1-CD-NE2	8.91	131.51	122.60
1	I	358	VAL	CA-C-N	8.90	132.02	120.44
1	I	358	VAL	C-N-CA	8.90	132.02	120.44
1	K	304	ILE	O-C-N	-8.90	111.44	122.57
1	P	357	GLU	O-C-N	-8.90	111.43	122.20
1	B	368	VAL	CA-C-N	8.90	134.62	120.82
1	B	368	VAL	C-N-CA	8.90	134.62	120.82
1	C	425	ASN	N-CA-C	8.90	123.14	111.75
1	F	189	ASP	CA-C-O	-8.90	110.81	120.24
1	G	411	PHE	CA-CB-CG	8.90	122.70	113.80
1	J	307	ILE	CA-CB-CG1	8.90	125.53	110.40
1	J	311	SER	CA-C-N	8.90	135.59	121.44
1	J	311	SER	C-N-CA	8.90	135.59	121.44
1	K	176	GLU	N-CA-CB	8.90	123.46	110.20
1	K	292	MET	N-CA-CB	8.90	122.97	110.07
1	P	215	ASP	C-N-CA	8.90	135.54	122.99
1	B	290	SER	CA-C-N	8.90	134.83	120.60
1	B	290	SER	C-N-CA	8.90	134.83	120.60
1	F	252	ALA	CA-C-N	8.90	137.31	121.92
1	F	252	ALA	C-N-CA	8.90	137.31	121.92
1	M	296	ALA	N-CA-CB	8.90	123.33	110.16
1	P	215	ASP	CA-C-N	8.90	135.54	122.99
1	I	452	ASN	N-CA-CB	8.90	125.52	110.49
1	A	212	VAL	N-CA-C	8.89	120.74	107.75
1	A	334	VAL	CA-CB-CG2	8.89	125.52	110.40
1	D	132	GLN	CG-CD-NE2	8.89	129.74	116.40
1	H	469	PRO	CA-N-CD	-8.89	99.55	112.00
1	J	315	LEU	N-CA-C	8.89	123.40	108.90
1	H	166	ALA	O-C-N	-8.89	110.76	122.59
1	P	85	GLN	CB-CG-CD	8.89	127.72	112.60
1	P	348	ARG	CB-CA-C	8.89	125.82	109.46
1	O	448	CYS	CA-C-N	8.89	138.52	121.54
1	O	448	CYS	C-N-CA	8.89	138.52	121.54
1	K	113	GLN	CA-C-O	8.89	130.10	119.61
1	B	182	VAL	CA-C-O	-8.89	109.67	120.78
1	B	472	VAL	O-C-N	-8.89	111.46	122.57
1	D	411	PHE	CA-CB-CG	8.89	122.69	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	469	PRO	N-CA-CB	-8.89	93.92	103.25
1	I	237	CYS	O-C-N	-8.89	112.85	123.16
1	I	369	VAL	O-C-N	8.89	133.46	121.90
1	L	442	ALA	CA-C-O	-8.89	110.97	120.92
1	P	494	ILE	O-C-N	8.89	133.68	122.57
1	H	348	ARG	CA-C-O	-8.88	110.41	121.78
1	H	439	ALA	O-C-N	8.88	134.41	122.59
1	I	77	MET	CA-C-O	8.88	130.60	119.05
1	K	369	VAL	CA-CB-CG1	8.88	125.50	110.40
1	K	404	GLU	N-CA-C	8.88	123.53	112.87
1	J	47	MET	CA-C-N	8.88	133.48	120.87
1	J	47	MET	C-N-CA	8.88	133.48	120.87
1	N	489	ARG	CA-C-N	-8.88	107.72	120.69
1	N	489	ARG	C-N-CA	-8.88	107.72	120.69
1	E	439	ALA	O-C-N	8.88	132.32	122.20
1	I	126	ALA	CA-C-O	8.88	130.47	119.11
1	I	192	LEU	O-C-N	-8.88	110.78	122.59
1	I	301	ALA	CA-C-N	-8.88	110.25	122.77
1	I	301	ALA	C-N-CA	-8.88	110.25	122.77
1	O	254	ILE	CA-CB-CG1	8.88	125.49	110.40
1	G	245	GLU	CA-CB-CG	8.88	131.85	114.10
1	I	157	SER	CA-C-N	8.87	137.94	121.97
1	I	157	SER	C-N-CA	8.87	137.94	121.97
1	O	42	LYS	CA-C-O	8.88	131.29	120.55
1	P	42	LYS	N-CA-CB	8.88	123.75	110.53
1	N	59	ASN	N-CA-CB	8.87	125.49	110.49
1	O	114	ASN	N-CA-C	8.87	129.70	110.80
1	O	279	GLU	CB-CG-CD	8.87	127.68	112.60
1	G	246	MET	N-CA-CB	8.87	125.48	110.49
1	E	268	ILE	O-C-N	-8.87	113.49	123.07
1	F	429	ASP	N-CA-CB	8.87	124.31	110.21
1	J	444	ASN	OD1-CG-ND2	8.87	131.47	122.60
1	N	85	GLN	N-CA-CB	8.87	125.48	110.49
1	C	364	ASP	CA-C-N	8.87	133.32	120.38
1	C	364	ASP	C-N-CA	8.87	133.32	120.38
1	D	25	ILE	CA-C-O	-8.86	109.70	120.78
1	E	134	LEU	O-C-N	-8.86	111.37	122.27
1	F	189	ASP	CA-CB-CG	8.87	121.47	112.60
1	L	11	ASN	CB-CG-OD1	8.87	138.53	120.80
1	N	216	LYS	CA-C-N	8.87	133.40	120.90
1	N	216	LYS	C-N-CA	8.87	133.40	120.90
1	B	10	GLU	CG-CD-OE1	8.86	138.78	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	195	ILE	CA-C-O	-8.86	111.70	121.09
1	E	351	THR	CA-C-O	8.86	133.25	121.46
1	H	9	PRO	N-CA-CB	8.86	111.06	103.35
1	I	478	GLN	OE1-CD-NE2	-8.86	113.74	122.60
1	I	20	ALA	CA-C-O	-8.86	110.09	120.10
1	I	440	ALA	N-CA-C	8.86	123.39	112.23
1	D	147	LYS	CA-C-N	8.86	132.87	120.29
1	D	147	LYS	C-N-CA	8.86	132.87	120.29
1	J	411	PHE	CB-CG-CD1	8.86	135.76	120.70
1	A	137	THR	N-CA-C	8.86	123.64	113.01
1	N	207	GLU	N-CA-C	8.86	123.87	110.14
1	A	403	ARG	NH1-CZ-NH2	8.86	130.81	119.30
1	C	496	ALA	O-C-N	-8.86	110.81	122.59
1	D	454	PHE	CA-C-O	-8.86	111.59	120.89
1	G	18	ARG	CB-CA-C	8.86	124.98	110.81
1	A	39	LEU	O-C-N	-8.85	112.04	122.93
1	B	494	ILE	CA-CB-CG1	8.85	125.45	110.40
1	B	496	ALA	CA-C-O	-8.85	111.23	121.68
1	C	34	THR	CA-CB-OG1	8.85	122.88	109.60
1	G	274	HIS	N-CA-C	8.85	123.18	112.38
1	I	127	ALA	CA-C-O	-8.85	108.99	119.35
1	J	377	ARG	CD-NE-CZ	8.85	136.79	124.40
1	N	136	LYS	N-CA-C	8.85	129.65	110.80
1	J	181	VAL	CB-CA-C	-8.85	99.17	111.65
1	P	474	THR	CA-CB-CG2	8.85	125.54	110.50
1	G	353	HIS	CG-CD2-NE2	8.85	116.05	107.20
1	K	475	GLN	OE1-CD-NE2	-8.85	113.75	122.60
1	A	297	LYS	N-CA-C	8.85	122.19	111.40
1	D	419	PRO	N-CA-CB	-8.85	94.34	103.19
1	E	63	THR	N-CA-CB	8.85	123.25	110.16
1	O	91	ASP	O-C-N	-8.85	113.20	123.11
1	O	399	GLY	N-CA-C	8.85	127.13	113.86
1	H	348	ARG	O-C-N	-8.84	110.68	122.97
1	I	52	LEU	O-C-N	-8.84	110.48	122.33
1	G	217	GLU	CB-CA-C	-8.84	94.56	109.50
1	A	273	GLN	N-CA-CB	8.84	125.42	110.49
1	B	462	CYS	O-C-N	-8.84	111.95	122.11
1	D	330	SER	N-CA-C	8.84	129.62	110.80
1	M	152	LYS	CA-C-N	8.84	134.69	120.55
1	M	152	LYS	C-N-CA	8.84	134.69	120.55
1	H	384	SER	O-C-N	-8.84	111.86	122.11
1	K	271	LEU	N-CA-C	8.84	123.84	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	186	GLY	CA-C-N	8.83	138.41	121.54
1	E	186	GLY	C-N-CA	8.83	138.41	121.54
1	E	335	GLU	N-CA-C	8.83	123.40	110.59
1	H	7	VAL	CA-C-O	-8.83	105.78	120.80
1	M	13	LYS	CA-CB-CG	8.83	131.76	114.10
1	N	39	LEU	CA-C-O	-8.83	110.65	120.81
1	P	29	ARG	CA-C-O	-8.83	109.27	120.31
1	A	309	ASP	O-C-N	8.83	133.17	122.48
1	B	222	GLN	OE1-CD-NE2	-8.83	113.77	122.60
1	I	317	ASP	O-C-N	-8.83	112.94	123.27
1	K	394	ARG	CD-NE-CZ	8.83	136.76	124.40
1	B	12	MET	O-C-N	-8.83	110.85	122.59
1	B	374	GLU	O-C-N	-8.83	109.32	122.39
1	C	21	GLN	CA-C-O	-8.83	110.12	120.10
1	H	240	GLU	CA-C-O	-8.83	110.57	120.54
1	J	286	ARG	CD-NE-CZ	-8.83	112.04	124.40
1	N	201	ALA	CA-C-O	-8.83	107.89	120.51
1	N	344	THR	O-C-N	-8.83	112.92	123.16
1	D	113	GLN	OE1-CD-NE2	8.82	131.42	122.60
1	L	49	VAL	CA-C-O	-8.82	109.75	120.78
1	P	33	GLU	CA-C-O	-8.82	111.10	120.63
1	A	416	GLU	O-C-N	-8.82	109.83	122.36
1	I	466	VAL	CA-C-N	8.82	135.03	122.77
1	I	466	VAL	C-N-CA	8.82	135.03	122.77
1	C	374	GLU	CA-C-O	-8.82	109.38	119.79
1	I	172	GLU	O-C-N	-8.82	112.50	122.03
1	N	435	VAL	CG1-CB-CG2	8.82	130.19	110.80
1	B	362	VAL	N-CA-C	8.81	121.78	112.96
1	F	313	GLN	O-C-N	-8.81	112.86	122.38
1	N	33	GLU	OE1-CD-OE2	-8.81	101.75	122.90
1	O	87	LYS	N-CA-C	8.81	121.69	111.11
1	C	363	ASP	CA-CB-CG	8.81	121.41	112.60
1	D	67	GLU	N-CA-CB	8.81	123.17	110.13
1	H	50	ASP	CA-CB-CG	-8.81	103.79	112.60
1	J	422	LEU	CA-C-N	8.81	131.89	120.44
1	J	422	LEU	C-N-CA	8.81	131.89	120.44
1	M	190	LYS	N-CA-CB	-8.81	97.20	109.98
1	N	280	GLY	CA-C-N	8.81	134.18	122.90
1	N	280	GLY	C-N-CA	8.81	134.18	122.90
1	O	480	ALA	CA-C-O	-8.81	111.55	120.80
1	A	288	LYS	CA-C-O	-8.81	110.79	121.36
1	G	67	GLU	CA-C-O	8.81	129.76	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	345	MET	CA-C-N	8.81	133.65	121.05
1	J	345	MET	C-N-CA	8.81	133.65	121.05
1	G	312	ALA	N-CA-C	8.81	123.02	111.75
1	I	395	GLU	CA-C-O	8.81	130.00	119.61
1	D	363	ASP	CA-CB-CG	8.81	121.41	112.60
1	G	180	ALA	CA-C-N	8.80	131.65	120.56
1	G	180	ALA	C-N-CA	8.80	131.65	120.56
1	E	386	GLU	O-C-N	8.80	132.82	122.17
1	K	13	LYS	CA-CB-CG	8.80	131.71	114.10
1	H	80	GLU	CA-C-N	8.80	132.92	120.42
1	H	80	GLU	C-N-CA	8.80	132.92	120.42
1	L	131	ALA	CA-C-N	8.80	132.44	120.38
1	L	131	ALA	C-N-CA	8.80	132.44	120.38
1	L	445	GLY	CA-C-N	8.80	135.42	120.72
1	L	445	GLY	C-N-CA	8.80	135.42	120.72
1	M	397	ALA	O-C-N	-8.80	111.44	122.27
1	N	253	GLU	N-CA-CB	8.80	123.16	110.13
1	B	315	LEU	N-CA-C	8.80	123.78	110.14
1	B	375	ASP	OD1-CG-OD2	8.80	144.01	122.90
1	D	141	GLU	CA-C-O	-8.80	110.89	120.92
1	A	293	GLU	CA-C-N	8.79	132.78	120.29
1	A	293	GLU	C-N-CA	8.79	132.78	120.29
1	C	402	GLY	CA-C-N	8.80	138.34	121.54
1	C	402	GLY	C-N-CA	8.80	138.34	121.54
1	D	31	ILE	CA-CB-CG1	8.80	125.35	110.40
1	E	281	ILE	N-CA-CB	8.80	120.61	110.49
1	I	340	PRO	CA-N-CD	-8.80	99.69	112.00
1	P	418	ILE	O-C-N	8.80	126.05	120.42
1	K	143	GLY	CA-C-O	-8.79	105.27	120.57
1	K	294	LYS	N-CA-CB	8.79	122.73	109.98
1	F	144	ALA	N-CA-CB	8.79	125.35	110.49
1	J	225	LYS	O-C-N	-8.79	110.90	122.59
1	A	350	THR	N-CA-C	8.79	129.52	110.80
1	G	359	ALA	N-CA-CB	8.79	123.17	110.16
1	J	52	LEU	CA-C-N	8.79	136.66	122.25
1	J	52	LEU	C-N-CA	8.79	136.66	122.25
1	M	381	GLY	CA-C-N	8.79	138.63	121.41
1	M	381	GLY	C-N-CA	8.79	138.63	121.41
1	G	28	GLY	O-C-N	-8.78	111.28	122.70
1	H	85	GLN	CG-CD-NE2	8.78	129.58	116.40
1	E	145	GLN	CB-CA-C	8.78	126.80	110.11
1	N	47	MET	CA-C-O	-8.78	111.18	120.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	149	ILE	CA-C-O	-8.78	110.99	120.47
1	B	254	ILE	O-C-N	8.78	130.51	121.91
1	C	389	LEU	N-CA-C	-8.78	101.71	111.28
1	D	153	ILE	CA-C-O	8.78	129.73	120.25
1	F	105	ARG	CA-C-O	8.78	129.98	120.24
1	I	209	ILE	CA-C-O	-8.78	109.81	120.78
1	I	452	ASN	CA-C-O	-8.78	107.96	120.51
1	D	191	ASP	OD1-CG-OD2	8.78	143.96	122.90
1	L	313	GLN	N-CA-CB	8.78	123.79	110.19
1	N	371	CYS	N-CA-C	8.77	122.48	111.69
1	D	320	LEU	O-C-N	-8.77	112.65	123.44
1	H	238	ALA	O-C-N	-8.77	110.92	122.59
1	H	473	LYS	N-CA-CB	8.77	123.14	110.16
1	N	85	GLN	OE1-CD-NE2	-8.77	113.83	122.60
1	G	53	GLY	CA-C-N	8.77	138.29	121.54
1	G	53	GLY	C-N-CA	8.77	138.29	121.54
1	I	377	ARG	NH1-CZ-NH2	8.77	130.70	119.30
1	L	389	LEU	CA-C-O	-8.77	111.52	120.90
1	P	127	ALA	N-CA-C	8.77	123.08	112.38
1	A	121	VAL	CA-CB-CG1	-8.77	95.50	110.40
1	C	260	ASN	CA-CB-CG	8.77	121.37	112.60
1	E	142	VAL	N-CA-C	8.77	119.28	108.06
1	F	299	THR	CA-CB-CG2	8.77	125.40	110.50
1	P	459	GLU	N-CA-CB	-8.77	95.26	111.13
1	G	227	VAL	N-CA-C	8.76	120.44	108.17
1	F	29	ARG	NE-CZ-NH1	8.76	130.26	121.50
1	O	453	VAL	N-CA-CB	-8.76	98.62	110.54
1	B	136	LYS	CB-CG-CD	8.76	131.45	111.30
1	I	147	LYS	CA-C-O	-8.76	111.17	120.63
1	E	38	THR	CA-C-N	8.76	133.98	121.02
1	E	38	THR	C-N-CA	8.76	133.98	121.02
1	E	188	VAL	N-CA-C	8.76	120.95	108.17
1	B	100	ALA	CA-C-O	-8.76	110.52	120.24
1	I	153	ILE	CA-CB-CG2	8.76	125.39	110.50
1	J	259	ALA	CA-C-O	-8.76	111.42	121.66
1	N	324	ARG	NE-CZ-NH2	8.76	127.08	119.20
1	P	455	THR	N-CA-CB	8.76	123.25	110.20
1	C	206	THR	CA-C-O	-8.75	110.94	120.92
1	G	49	VAL	CA-C-O	-8.75	112.17	121.19
1	B	32	ALA	CA-C-N	8.75	132.37	120.38
1	B	32	ALA	C-N-CA	8.75	132.37	120.38
1	G	473	LYS	CA-C-N	8.75	131.82	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	473	LYS	C-N-CA	8.75	131.82	120.44
1	I	68	MET	O-C-N	-8.75	110.95	122.59
1	D	274	HIS	ND1-CG-CD2	8.75	114.85	106.10
1	E	487	LEU	N-CA-CB	8.75	122.98	110.12
1	E	497	GLU	N-CA-CB	8.75	125.37	110.50
1	F	472	VAL	CA-C-N	8.75	132.36	120.38
1	F	472	VAL	C-N-CA	8.75	132.36	120.38
1	I	182	VAL	O-C-N	-8.75	111.64	122.57
1	O	452	ASN	CA-C-O	8.75	130.73	120.58
1	I	65	LEU	O-C-N	-8.74	109.94	122.36
1	I	281	ILE	CB-CA-C	-8.74	101.82	111.35
1	J	222	GLN	CA-C-N	8.74	143.13	121.80
1	J	222	GLN	C-N-CA	8.74	143.13	121.80
1	K	94	THR	CA-CB-CG2	8.74	125.36	110.50
1	L	461	MET	O-C-N	-8.74	110.96	122.59
1	P	420	ARG	O-C-N	8.74	131.08	122.07
1	D	313	GLN	N-CA-C	8.74	129.42	110.80
1	F	40	GLY	CA-C-N	8.74	129.28	119.32
1	F	40	GLY	C-N-CA	8.74	129.28	119.32
1	J	491	ASP	O-C-N	8.74	133.63	121.83
1	F	107	ALA	N-CA-C	-8.74	101.22	112.23
1	K	147	LYS	CA-C-O	-8.74	109.92	119.97
1	A	316	GLY	N-CA-C	8.74	123.28	112.79
1	C	372	THR	CA-CB-OG1	-8.74	96.49	109.60
1	K	269	ASP	CA-CB-CG	8.74	121.34	112.60
1	M	399	GLY	O-C-N	-8.74	111.34	122.70
1	O	466	VAL	CB-CA-C	-8.74	103.44	113.22
1	B	332	ILE	O-C-N	8.73	132.72	123.03
1	K	279	GLU	CA-C-O	-8.73	109.62	118.97
1	N	125	GLN	OE1-CD-NE2	8.73	131.33	122.60
1	E	72	HIS	N-CA-CB	8.73	121.83	110.04
1	J	152	LYS	O-C-N	-8.73	113.08	122.07
1	E	14	ARG	NE-CZ-NH1	-8.73	112.77	121.50
1	I	432	GLU	N-CA-C	8.73	120.80	111.28
1	L	196	GLU	CA-C-N	8.73	135.81	123.07
1	L	196	GLU	C-N-CA	8.73	135.81	123.07
1	N	10	GLU	CA-CB-CG	8.73	131.56	114.10
1	M	438	ARG	CD-NE-CZ	8.73	136.62	124.40
1	O	167	LYS	O-C-N	8.73	132.15	122.20
1	F	338	LYS	CA-C-N	8.72	143.09	121.80
1	F	338	LYS	C-N-CA	8.72	143.09	121.80
1	B	85	GLN	OE1-CD-NE2	-8.72	113.88	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	256	ALA	CA-C-O	-8.72	108.04	120.51
1	J	223	MET	O-C-N	-8.72	111.29	121.32
1	K	338	LYS	O-C-N	8.72	131.05	122.07
1	N	275	TYR	O-C-N	8.72	131.05	122.07
1	P	12	MET	CA-C-N	8.72	133.09	120.71
1	P	12	MET	C-N-CA	8.72	133.09	120.71
1	A	224	PRO	CB-CA-C	8.72	125.95	111.56
1	D	114	ASN	CA-CB-CG	8.72	121.32	112.60
1	H	18	ARG	NE-CZ-NH1	8.72	130.22	121.50
1	I	47	MET	N-CA-C	8.72	123.42	107.73
1	L	487	LEU	N-CA-CB	8.72	125.14	110.32
1	M	118	THR	CA-C-N	8.72	133.21	120.74
1	M	118	THR	C-N-CA	8.72	133.21	120.74
1	M	206	THR	CA-CB-OG1	8.72	122.68	109.60
1	P	58	THR	OG1-CB-CG2	8.72	126.74	109.30
1	I	455	THR	N-CA-C	8.71	120.78	111.28
1	D	146	ASP	CA-C-O	-8.71	111.57	121.15
1	G	63	THR	CA-CB-CG2	8.71	125.31	110.50
1	H	211	GLY	O-C-N	-8.71	111.38	122.70
1	O	323	GLU	O-C-N	8.71	134.43	122.41
1	J	156	THR	OG1-CB-CG2	8.71	126.72	109.30
1	M	337	CYS	CA-C-O	-8.71	111.41	121.16
1	P	353	HIS	CE1-NE2-CD2	-8.71	100.29	109.00
1	A	213	LEU	O-C-N	-8.71	112.16	123.13
1	G	72	HIS	CB-CG-ND1	8.71	135.76	122.70
1	G	281	ILE	CB-CA-C	-8.71	99.05	110.98
1	P	294	LYS	N-CA-C	8.71	120.85	111.36
1	A	173	ILE	N-CA-C	8.71	124.42	111.89
1	B	196	GLU	CA-C-O	8.71	130.93	120.92
1	G	66	ARG	NE-CZ-NH2	8.71	127.03	119.20
1	G	474	THR	N-CA-C	8.71	120.38	111.07
1	M	452	ASN	OD1-CG-ND2	-8.71	113.89	122.60
1	M	162	GLY	O-C-N	-8.70	111.38	122.70
1	N	105	ARG	NE-CZ-NH2	8.71	127.03	119.20
1	N	199	SER	CA-C-O	-8.71	110.89	120.38
1	P	386	GLU	CG-CD-OE1	8.71	138.42	118.40
1	D	172	GLU	O-C-N	-8.70	110.00	122.36
1	E	266	LYS	O-C-N	-8.70	112.64	123.17
1	G	463	GLU	N-CA-CB	8.70	123.68	110.19
1	H	59	ASN	CA-CB-CG	8.70	121.30	112.60
1	O	280	GLY	CA-C-O	-8.70	105.43	120.57
1	B	51	ASP	CA-CB-CG	8.70	121.30	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	350	THR	CA-C-N	8.70	136.30	122.21
1	D	350	THR	C-N-CA	8.70	136.30	122.21
1	J	65	LEU	N-CA-CB	8.70	123.00	110.13
1	J	190	LYS	CA-C-N	8.70	138.15	121.54
1	J	190	LYS	C-N-CA	8.70	138.15	121.54
1	P	368	VAL	N-CA-CB	8.70	123.63	110.58
1	P	438	ARG	CA-C-O	-8.70	111.50	121.07
1	N	345	MET	N-CA-CB	-8.70	95.76	110.46
1	A	93	THR	CA-CB-CG2	8.70	125.28	110.50
1	B	478	GLN	CA-C-N	8.70	138.15	121.54
1	B	478	GLN	C-N-CA	8.70	138.15	121.54
1	F	225	LYS	CA-C-O	-8.70	109.42	122.38
1	H	472	VAL	N-CA-C	8.70	127.43	109.34
1	J	187	LYS	O-C-N	-8.70	105.09	122.22
1	K	44	MET	CA-C-O	-8.70	111.15	120.80
1	P	244	SER	CB-CA-C	8.70	127.72	110.42
1	E	201	ALA	CA-C-O	-8.69	108.08	120.51
1	C	409	ARG	NE-CZ-NH2	8.69	127.02	119.20
1	O	327	SER	O-C-N	8.69	133.79	122.40
1	A	11	ASN	CB-CG-OD1	8.69	138.18	120.80
1	A	167	LYS	CB-CG-CD	8.69	131.29	111.30
1	O	421	THR	O-C-N	-8.69	112.91	122.12
1	O	271	LEU	N-CA-C	8.69	129.30	110.80
1	D	368	VAL	O-C-N	8.68	133.72	121.82
1	F	291	ASP	CA-CB-CG	-8.68	103.92	112.60
1	G	38	THR	CA-CB-OG1	8.68	122.62	109.60
1	I	246	MET	CA-CB-CG	8.68	131.47	114.10
1	I	346	LEU	O-C-N	-8.68	111.04	122.59
1	A	430	ALA	CA-C-O	-8.68	111.89	121.00
1	L	64	ILE	CA-C-O	8.68	130.29	121.27
1	B	224	PRO	N-CA-CB	8.68	112.36	103.25
1	E	48	LEU	CA-C-O	-8.68	112.10	121.99
1	C	18	ARG	O-C-N	-8.67	110.59	122.30
1	F	281	ILE	N-CA-CB	8.67	125.54	111.23
1	B	12	MET	N-CA-C	8.67	129.27	110.80
1	C	80	GLU	CA-C-O	-8.67	111.36	120.55
1	B	403	ARG	CA-C-O	8.67	132.91	120.51
1	E	285	ARG	CA-C-N	8.67	138.10	121.54
1	E	285	ARG	C-N-CA	8.67	138.10	121.54
1	K	269	ASP	CA-C-O	-8.67	108.11	120.51
1	M	154	ALA	O-C-N	-8.67	112.93	122.12
1	H	394	ARG	NE-CZ-NH2	-8.67	111.40	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	129	GLN	CA-CB-CG	8.67	131.43	114.10
1	O	307	ILE	CA-C-O	-8.67	111.98	121.17
1	D	348	ARG	O-C-N	-8.66	112.21	123.21
1	H	398	GLU	CA-C-N	8.66	138.39	121.41
1	H	398	GLU	C-N-CA	8.66	138.39	121.41
1	P	115	VAL	CA-C-O	8.66	131.42	120.76
1	D	98	VAL	N-CA-CB	8.66	121.66	110.57
1	G	115	VAL	CB-CA-C	8.66	122.94	111.33
1	G	229	ASP	CA-C-O	8.66	130.20	120.84
1	E	66	ARG	CA-C-O	-8.66	108.13	120.51
1	H	450	GLY	N-CA-C	8.66	123.18	112.79
1	A	135	LEU	N-CA-CB	8.66	122.55	109.91
1	A	187	LYS	N-CA-CB	8.66	125.12	110.49
1	D	389	LEU	CA-C-O	-8.66	111.24	120.42
1	F	63	THR	CA-C-N	8.66	137.56	121.97
1	F	63	THR	C-N-CA	8.66	137.56	121.97
1	O	35	VAL	CA-C-O	-8.66	111.31	120.57
1	P	266	LYS	O-C-N	-8.66	111.08	122.94
1	O	368	VAL	CA-C-O	-8.66	109.15	119.36
1	C	31	ILE	O-C-N	-8.65	111.75	122.57
1	F	59	ASN	N-CA-CB	8.65	125.11	110.49
1	E	243	ALA	N-CA-C	8.65	129.23	110.80
1	I	405	GLN	OE1-CD-NE2	-8.65	113.95	122.60
1	M	446	ASN	OD1-CG-ND2	8.65	131.25	122.60
1	O	372	THR	CA-C-N	8.65	137.54	121.97
1	O	372	THR	C-N-CA	8.65	137.54	121.97
1	P	189	ASP	CA-C-N	8.65	135.78	122.29
1	P	189	ASP	C-N-CA	8.65	135.78	122.29
1	A	208	LEU	CA-C-O	-8.65	110.84	120.70
1	B	493	VAL	CB-CA-C	-8.65	99.20	111.31
1	G	130	LYS	N-CA-C	8.65	120.32	111.07
1	M	80	GLU	CG-CD-OE1	8.64	138.28	118.40
1	F	474	THR	O-C-N	-8.64	110.62	122.46
1	G	428	LEU	CA-C-O	-8.64	110.98	120.92
1	J	377	ARG	CG-CD-NE	8.64	131.02	112.00
1	P	42	LYS	O-C-N	-8.64	111.09	122.42
1	M	53	GLY	CA-C-N	8.64	133.01	120.82
1	M	53	GLY	C-N-CA	8.64	133.01	120.82
1	D	72	HIS	CB-CG-ND1	8.64	135.66	122.70
1	D	132	GLN	O-C-N	-8.64	112.96	122.12
1	L	402	GLY	CA-C-O	-8.64	113.70	122.25
1	O	172	GLU	CB-CA-C	8.64	125.11	110.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	94	THR	CA-C-O	-8.64	109.42	119.61
1	G	425	ASN	CA-C-O	-8.64	109.04	119.49
1	E	110	LEU	O-C-N	-8.63	111.11	122.59
1	G	91	ASP	O-C-N	-8.63	110.75	122.23
1	M	174	ILE	O-C-N	-8.63	112.63	121.96
1	P	305	THR	N-CA-CB	8.63	125.08	110.49
1	M	426	ALA	CA-C-O	-8.63	109.05	119.32
1	P	276	LEU	CA-C-O	-8.63	111.31	120.63
1	I	65	LEU	CA-C-O	8.63	129.70	119.60
1	L	115	VAL	CA-C-O	8.63	131.14	121.13
1	I	452	ASN	CA-C-N	8.63	137.50	121.97
1	I	452	ASN	C-N-CA	8.63	137.50	121.97
1	J	488	LEU	CA-C-O	-8.63	109.61	119.79
1	P	184	ASP	N-CA-CB	8.63	125.07	110.49
1	J	471	ARG	NE-CZ-NH1	-8.62	112.88	121.50
1	K	468	GLU	O-C-N	-8.62	114.93	121.14
1	P	118	THR	N-CA-CB	8.62	125.07	110.49
1	A	8	LEU	CA-C-O	-8.62	106.14	120.80
1	K	129	GLN	CA-C-N	8.62	132.18	120.54
1	K	129	GLN	C-N-CA	8.62	132.18	120.54
1	L	45	ASP	N-CA-CB	-8.62	98.56	110.29
1	C	279	GLU	CA-C-N	8.62	138.31	121.41
1	C	279	GLU	C-N-CA	8.62	138.31	121.41
1	G	97	VAL	O-C-N	-8.62	113.55	122.25
1	O	195	ILE	N-CA-CB	-8.62	104.03	112.65
1	G	489	ARG	NE-CZ-NH1	-8.62	112.88	121.50
1	K	319	GLY	CA-C-O	-8.62	103.61	119.55
1	K	471	ARG	NE-CZ-NH2	-8.62	111.45	119.20
1	G	399	GLY	CA-C-N	8.61	134.43	120.30
1	G	399	GLY	C-N-CA	8.61	134.43	120.30
1	C	190	LYS	CA-C-N	8.61	132.17	120.54
1	C	190	LYS	C-N-CA	8.61	132.17	120.54
1	E	433	ILE	N-CA-C	8.61	121.86	111.09
1	F	265	GLN	CA-C-N	8.61	137.99	121.54
1	C	329	ASP	CB-CA-C	8.61	125.13	109.37
1	D	431	ILE	O-C-N	-8.61	111.81	122.57
1	F	265	GLN	C-N-CA	8.61	137.99	121.54
1	F	299	THR	CA-CB-OG1	8.61	122.52	109.60
1	I	362	VAL	CA-C-O	-8.61	110.95	120.25
1	H	141	GLU	N-CA-CB	-8.61	97.11	110.46
1	J	376	GLY	O-C-N	-8.61	113.07	122.54
1	G	367	GLY	CA-C-N	8.61	132.65	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	367	GLY	C-N-CA	8.61	132.65	120.42
1	O	35	VAL	N-CA-C	8.61	121.81	111.05
1	C	354	VAL	O-C-N	-8.61	112.25	122.06
1	D	303	VAL	CA-CB-CG2	8.61	125.03	110.40
1	H	161	LYS	CA-C-O	-8.61	112.24	121.45
1	H	476	ALA	CA-C-O	-8.61	109.34	119.15
1	I	296	ALA	O-C-N	-8.61	111.79	122.20
1	L	98	VAL	CB-CA-C	-8.61	100.75	112.02
1	B	389	LEU	O-C-N	8.60	131.04	122.09
1	D	206	THR	CB-CA-C	8.60	124.30	110.19
1	L	340	PRO	N-CA-CB	-8.60	94.22	103.25
1	M	306	ASN	CB-CG-OD1	8.60	138.00	120.80
1	M	345	MET	CA-C-N	8.60	133.75	121.02
1	M	345	MET	C-N-CA	8.60	133.75	121.02
1	P	88	GLU	CA-C-N	8.60	134.94	121.35
1	P	88	GLU	C-N-CA	8.60	134.94	121.35
1	A	471	ARG	CG-CD-NE	8.60	130.92	112.00
1	F	353	HIS	N-CA-C	8.60	120.73	111.36
1	C	145	GLN	N-CA-CB	8.60	124.42	110.40
1	E	119	ILE	CA-C-O	-8.60	110.03	120.78
1	H	471	ARG	N-CA-CB	8.60	123.07	110.26
1	P	274	HIS	N-CA-CB	8.60	122.75	109.94
1	P	472	VAL	CA-C-O	-8.60	110.03	120.78
1	A	223	MET	CA-C-N	8.60	130.59	119.84
1	A	223	MET	C-N-CA	8.60	130.59	119.84
1	G	420	ARG	CA-C-O	-8.60	112.05	120.90
1	H	240	GLU	CA-CB-CG	8.60	131.29	114.10
1	A	360	ARG	CD-NE-CZ	8.59	136.43	124.40
1	E	239	ILE	CA-C-N	8.59	136.72	123.23
1	E	239	ILE	C-N-CA	8.59	136.72	123.23
1	J	195	ILE	CA-C-O	-8.59	110.04	120.78
1	O	117	PRO	CA-N-CD	8.59	124.03	112.00
1	B	474	THR	CA-C-N	8.59	132.12	120.44
1	B	474	THR	C-N-CA	8.59	132.12	120.44
1	B	111	LEU	CA-C-N	8.59	136.17	121.14
1	B	111	LEU	C-N-CA	8.59	136.17	121.14
1	C	290	SER	O-C-N	-8.59	111.17	122.59
1	E	11	ASN	OD1-CG-ND2	8.59	131.19	122.60
1	H	169	LYS	CA-CB-CG	8.59	131.28	114.10
1	D	380	SER	O-C-N	-8.59	112.37	122.93
1	M	21	GLN	O-C-N	8.59	131.98	122.11
1	M	311	SER	O-C-N	-8.59	111.17	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	113	GLN	CA-C-N	8.58	133.77	119.35
1	D	113	GLN	C-N-CA	8.58	133.77	119.35
1	F	356	GLU	N-CA-CB	8.58	122.94	110.06
1	G	115	VAL	N-CA-CB	8.58	120.35	110.82
1	J	144	ALA	N-CA-C	8.58	124.06	113.50
1	J	278	LYS	CA-C-N	8.58	138.31	121.58
1	J	278	LYS	C-N-CA	8.58	138.31	121.58
1	N	18	ARG	CB-CA-C	8.58	122.93	109.03
1	K	292	MET	O-C-N	-8.58	112.82	122.09
1	E	224	PRO	CB-CA-C	8.58	125.72	111.56
1	J	83	LYS	O-C-N	8.58	132.55	122.17
1	J	294	LYS	CA-C-N	8.58	133.35	120.31
1	J	294	LYS	C-N-CA	8.58	133.35	120.31
1	M	493	VAL	N-CA-CB	8.58	122.53	112.15
1	B	228	THR	CA-C-O	-8.58	108.24	120.51
1	B	429	ASP	O-C-N	-8.58	113.00	123.04
1	D	496	ALA	O-C-N	8.58	134.58	122.74
1	H	487	LEU	O-C-N	8.58	134.00	122.59
1	M	152	LYS	N-CA-CB	-8.58	99.18	110.59
1	E	174	ILE	N-CA-C	8.58	120.35	111.00
1	O	496	ALA	N-CA-CB	8.58	124.98	110.49
1	G	171	ALA	CA-C-O	8.57	129.38	119.18
1	K	188	VAL	CA-C-O	-8.57	111.27	120.36
1	B	304	ILE	CA-C-N	8.57	137.91	121.54
1	B	304	ILE	C-N-CA	8.57	137.91	121.54
1	C	303	VAL	CA-CB-CG1	8.57	124.97	110.40
1	G	54	ASP	CB-CG-OD2	8.57	138.11	118.40
1	H	302	ASN	CB-CA-C	8.57	124.54	109.72
1	M	486	MET	O-C-N	8.57	133.99	122.59
1	M	324	ARG	NH1-CZ-NH2	-8.57	108.16	119.30
1	M	244	SER	N-CA-CB	8.57	124.97	110.49
1	J	243	ALA	N-CA-C	8.56	129.04	110.80
1	J	264	CYS	O-C-N	-8.56	112.37	123.16
1	B	313	GLN	N-CA-CB	8.56	125.06	110.50
1	G	133	GLU	N-CA-C	8.56	120.23	111.07
1	H	72	HIS	ND1-CG-CD2	8.56	114.66	106.10
1	O	134	LEU	O-C-N	-8.56	111.01	122.49
1	A	14	ARG	CA-C-O	-8.56	111.46	120.70
1	F	117	PRO	N-CA-CB	-8.56	94.26	103.25
1	H	148	GLU	N-CA-CB	8.56	124.35	110.40
1	I	77	MET	N-CA-CB	8.56	125.37	110.39
1	K	197	LYS	CA-C-O	-8.56	111.14	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	357	GLU	CA-C-O	-8.56	112.08	120.90
1	N	74	ALA	CA-C-N	8.56	132.60	120.28
1	N	74	ALA	C-N-CA	8.56	132.60	120.28
1	D	338	LYS	CA-C-O	-8.55	110.74	120.24
1	L	307	ILE	N-CA-C	8.55	118.57	110.53
1	L	319	GLY	CA-C-N	8.56	134.68	121.76
1	L	319	GLY	C-N-CA	8.56	134.68	121.76
1	L	465	GLY	CA-C-O	-8.56	109.37	119.04
1	D	435	VAL	CA-C-N	8.55	131.56	120.44
1	D	435	VAL	C-N-CA	8.55	131.56	120.44
1	E	470	LEU	CB-CA-C	8.55	126.21	110.56
1	J	69	SER	CA-C-O	-8.55	108.28	120.51
1	O	38	THR	CA-CB-OG1	8.55	122.43	109.60
1	O	299	THR	N-CA-CB	8.55	124.94	110.49
1	A	79	ILE	CA-CB-CG2	8.55	125.04	110.50
1	E	205	ASP	O-C-N	-8.55	111.36	122.39
1	F	54	ASP	CB-CG-OD1	8.55	138.07	118.40
1	F	170	LEU	N-CA-C	8.55	121.68	111.33
1	F	191	ASP	CA-C-N	8.55	134.28	120.60
1	F	191	ASP	C-N-CA	8.55	134.28	120.60
1	G	363	ASP	O-C-N	-8.55	111.11	122.23
1	P	216	LYS	O-C-N	-8.55	113.12	123.30
1	A	435	VAL	O-C-N	8.55	132.03	122.12
1	B	352	GLU	CA-C-O	-8.55	110.63	120.20
1	C	403	ARG	CD-NE-CZ	-8.55	112.43	124.40
1	D	184	ASP	OD1-CG-OD2	-8.55	102.38	122.90
1	G	217	GLU	CA-C-O	8.55	131.37	121.28
1	M	398	GLU	CB-CG-CD	8.55	127.13	112.60
1	G	125	GLN	CA-C-O	-8.55	110.75	120.24
1	N	224	PRO	CA-C-N	8.55	134.86	122.21
1	N	224	PRO	C-N-CA	8.55	134.86	122.21
1	G	256	ALA	N-CA-C	8.54	120.37	111.14
1	H	243	ALA	N-CA-C	8.54	129.00	110.80
1	I	342	ALA	CA-C-N	8.54	133.39	122.37
1	I	342	ALA	C-N-CA	8.54	133.39	122.37
1	M	338	LYS	CA-C-O	-8.54	112.03	121.00
1	O	57	VAL	O-C-N	-8.54	112.18	122.77
1	D	420	ARG	CA-C-O	-8.54	111.83	120.80
1	J	346	LEU	CB-CA-C	8.54	122.65	109.84
1	L	22	ARG	CD-NE-CZ	8.54	136.36	124.40
1	B	310	LEU	O-C-N	8.54	133.75	122.82
1	B	477	ILE	O-C-N	-8.54	111.52	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	29	ARG	N-CA-C	-8.54	102.05	111.36
1	F	353	HIS	CB-CG-CD2	-8.54	120.10	131.20
1	O	18	ARG	NE-CZ-NH2	8.54	126.89	119.20
1	O	300	GLY	CA-C-N	8.54	137.85	121.54
1	D	66	ARG	CA-C-O	-8.54	111.50	120.55
1	N	56	VAL	CA-C-O	-8.54	110.64	121.48
1	H	243	ALA	CA-C-N	8.54	137.84	121.54
1	H	243	ALA	C-N-CA	8.54	137.84	121.54
1	I	417	VAL	N-CA-C	8.54	127.10	109.34
1	N	193	ILE	N-CA-CB	-8.54	101.35	111.60
1	O	300	GLY	C-N-CA	8.54	137.85	121.54
1	P	295	LEU	O-C-N	-8.54	111.77	122.27
1	F	242	THR	N-CA-C	8.54	121.90	108.67
1	G	23	MET	N-CA-C	8.54	121.35	111.11
1	H	280	GLY	CA-C-O	-8.54	109.99	119.04
1	M	421	THR	CA-C-O	-8.53	109.16	119.49
1	L	349	GLY	CA-C-N	8.53	137.84	121.54
1	G	432	GLU	N-CA-C	8.53	120.20	111.07
1	H	444	ASN	CA-C-N	-8.53	109.80	121.23
1	H	444	ASN	C-N-CA	-8.53	109.80	121.23
1	J	14	ARG	CA-CB-CG	8.53	131.17	114.10
1	H	478	GLN	CG-CD-OE1	8.53	137.86	120.80
1	J	472	VAL	CA-C-O	-8.53	110.11	120.78
1	L	132	GLN	O-C-N	8.53	131.16	122.12
1	L	349	GLY	C-N-CA	8.53	137.84	121.54
1	L	326	ILE	O-C-N	-8.53	114.16	123.20
1	L	462	CYS	CA-C-O	-8.53	108.31	120.51
1	F	459	GLU	CA-C-O	-8.53	111.76	121.40
1	A	333	PHE	O-C-N	-8.53	113.39	123.03
1	D	347	ILE	CB-CA-C	8.53	121.64	111.32
1	P	237	CYS	CB-CA-C	8.53	123.34	111.23
1	C	289	LYS	CB-CA-C	8.53	125.17	110.68
1	E	45	ASP	O-C-N	8.53	133.57	122.23
1	H	170	LEU	N-CA-C	8.53	122.66	111.75
1	J	408	VAL	O-C-N	8.53	130.47	121.94
1	K	492	ASP	CA-C-N	-8.53	114.86	122.96
1	K	492	ASP	C-N-CA	-8.53	114.86	122.96
1	N	433	ILE	N-CA-C	8.53	121.75	111.09
1	O	435	VAL	O-C-N	8.53	130.61	121.83
1	E	59	ASN	OD1-CG-ND2	-8.52	114.08	122.60
1	A	24	ASN	OD1-CG-ND2	8.52	131.12	122.60
1	A	201	ALA	CA-C-O	-8.52	108.32	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	154	ALA	N-CA-C	8.52	120.34	111.14
1	G	253	GLU	CA-C-N	8.52	137.31	121.97
1	G	253	GLU	C-N-CA	8.52	137.31	121.97
1	K	403	ARG	N-CA-CB	8.52	123.67	109.78
1	O	77	MET	CA-CB-CG	8.52	131.14	114.10
1	E	302	ASN	CA-C-O	-8.52	111.68	120.54
1	K	142	VAL	O-C-N	-8.52	111.92	122.57
1	K	447	LYS	CA-C-N	-8.52	110.27	123.13
1	K	447	LYS	C-N-CA	-8.52	110.27	123.13
1	A	482	GLU	CA-C-N	8.52	132.21	120.63
1	A	482	GLU	C-N-CA	8.52	132.21	120.63
1	C	378	ILE	N-CA-CB	8.52	125.28	111.23
1	I	286	ARG	NE-CZ-NH1	8.52	130.02	121.50
1	O	206	THR	CA-C-N	8.52	138.30	123.05
1	O	206	THR	C-N-CA	8.52	138.30	123.05
1	J	373	ILE	N-CA-CB	8.52	125.28	111.23
1	E	49	VAL	CB-CA-C	-8.51	97.33	111.29
1	N	285	ARG	NH1-CZ-NH2	-8.51	108.23	119.30
1	B	355	ILE	O-C-N	-8.51	111.93	122.57
1	C	377	ARG	NE-CZ-NH2	-8.51	111.54	119.20
1	H	33	GLU	CB-CG-CD	8.51	127.07	112.60
1	B	52	LEU	CA-C-N	8.51	136.47	122.09
1	B	52	LEU	C-N-CA	8.51	136.47	122.09
1	M	324	ARG	NE-CZ-NH2	8.51	126.86	119.20
1	H	468	GLU	CA-C-N	8.51	129.64	120.11
1	H	468	GLU	C-N-CA	8.51	129.64	120.11
1	M	11	ASN	CB-CG-OD1	8.51	137.81	120.80
1	N	37	SER	N-CA-C	8.51	123.71	113.16
1	I	15	TYR	N-CA-C	8.50	123.28	109.59
1	K	419	PRO	N-CA-C	-8.50	102.01	113.40
1	L	48	LEU	O-C-N	8.50	132.48	122.79
1	O	131	ALA	N-CA-CB	8.50	124.86	110.49
1	F	108	GLU	CA-C-N	8.50	132.79	120.38
1	F	108	GLU	C-N-CA	8.50	132.79	120.38
1	J	438	ARG	CB-CA-C	-8.50	97.53	110.88
1	A	274	HIS	CA-C-O	8.50	129.99	119.11
1	A	457	ALA	CA-C-N	8.50	133.39	121.66
1	A	457	ALA	C-N-CA	8.50	133.39	121.66
1	H	159	THR	CA-CB-CG2	8.50	124.95	110.50
1	H	319	GLY	O-C-N	8.50	133.75	122.70
1	I	114	ASN	CA-C-O	8.50	132.66	120.51
1	J	332	ILE	CA-C-O	-8.50	110.71	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	324	ARG	NH1-CZ-NH2	-8.50	108.25	119.30
1	F	190	LYS	N-CA-C	8.49	128.89	110.80
1	K	358	VAL	O-C-N	-8.49	112.27	122.12
1	D	105	ARG	NH1-CZ-NH2	-8.49	108.26	119.30
1	E	431	ILE	O-C-N	-8.49	113.29	121.87
1	L	444	ASN	OD1-CG-ND2	8.49	131.09	122.60
1	L	489	ARG	CB-CA-C	8.49	124.27	110.09
1	P	133	GLU	N-CA-CB	8.49	122.78	110.47
1	K	306	ASN	CA-CB-CG	8.49	121.09	112.60
1	P	122	LYS	O-C-N	-8.49	113.12	122.12
1	I	481	ALA	CA-C-O	-8.49	111.55	120.55
1	J	195	ILE	N-CA-CB	-8.49	97.22	111.23
1	M	229	ASP	CA-C-O	8.49	130.15	120.98
1	A	263	PHE	CA-C-O	-8.49	111.49	120.40
1	E	429	ASP	CA-C-O	8.49	130.37	120.69
1	G	247	LEU	N-CA-CB	8.49	124.83	110.49
1	L	464	ASN	CA-CB-CG	-8.49	104.11	112.60
1	M	63	THR	O-C-N	-8.49	112.35	122.11
1	P	50	ASP	CA-C-N	8.49	137.75	121.54
1	P	50	ASP	C-N-CA	8.49	137.75	121.54
1	H	263	PHE	CA-CB-CG	8.48	122.28	113.80
1	J	339	HIS	CB-CG-ND1	8.48	135.42	122.70
1	N	77	MET	CB-CA-C	-8.48	98.19	111.17
1	B	387	VAL	CA-C-O	-8.48	110.18	120.78
1	E	236	ASN	O-C-N	-8.48	110.97	122.33
1	G	30	ILE	N-CA-C	8.48	126.98	109.34
1	K	221	ALA	CA-C-O	-8.48	108.95	119.38
1	O	371	CYS	CA-C-O	8.48	129.83	119.31
1	P	289	LYS	CA-C-O	-8.48	111.92	120.82
1	B	349	GLY	CA-C-O	-8.48	105.82	120.57
1	C	55	VAL	CA-C-O	-8.48	111.49	120.48
1	F	248	LYS	N-CA-C	8.48	121.66	111.82
1	H	357	GLU	CA-C-O	-8.48	109.48	119.15
1	K	189	ASP	O-C-N	-8.48	111.93	123.12
1	K	369	VAL	N-CA-C	8.48	121.65	111.05
1	M	489	ARG	NE-CZ-NH2	-8.48	111.57	119.20
1	N	338	LYS	CA-C-O	-8.48	108.39	120.51
1	C	292	MET	CA-CB-CG	8.48	131.05	114.10
1	H	286	ARG	CA-CB-CG	8.48	131.05	114.10
1	C	212	VAL	CA-C-O	-8.47	111.71	120.27
1	B	55	VAL	O-C-N	8.47	132.22	123.07
1	D	218	ARG	CA-C-O	-8.47	112.09	121.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	417	VAL	O-C-N	8.47	131.01	121.94
1	D	469	PRO	O-C-N	-8.47	111.20	122.64
1	F	494	ILE	CA-CB-CG2	8.47	124.91	110.50
1	M	425	ASN	CA-C-O	-8.47	108.42	119.10
1	C	72	HIS	CB-CA-C	8.47	126.86	110.17
1	E	12	MET	CA-C-O	-8.47	108.40	120.51
1	F	14	ARG	NH1-CZ-NH2	8.47	130.31	119.30
1	P	38	THR	N-CA-C	8.47	120.29	111.14
1	B	440	ALA	CA-C-O	-8.47	109.69	119.60
1	K	286	ARG	NE-CZ-NH2	8.47	126.82	119.20
1	D	16	MET	CA-C-O	-8.47	111.58	121.82
1	E	242	THR	CA-CB-CG2	8.47	124.90	110.50
1	J	285	ARG	CD-NE-CZ	8.47	136.25	124.40
1	P	353	HIS	CA-CB-CG	-8.47	105.33	113.80
1	G	319	GLY	O-C-N	8.47	130.38	122.17
1	C	282	VAL	CA-C-O	-8.46	111.39	121.80
1	H	443	SER	N-CA-CB	-8.46	98.28	110.81
1	I	352	GLU	N-CA-C	8.47	120.13	111.07
1	M	99	VAL	O-C-N	-8.47	111.99	122.57
1	J	326	ILE	O-C-N	-8.46	114.38	123.18
1	M	414	ALA	CA-C-O	-8.46	109.11	119.18
1	C	297	LYS	N-CA-CB	8.46	122.83	110.47
1	F	59	ASN	CA-C-N	8.46	137.70	121.54
1	F	59	ASN	C-N-CA	8.46	137.70	121.54
1	I	259	ALA	CA-C-O	-8.46	111.91	121.39
1	J	24	ASN	CA-C-N	8.46	137.20	121.97
1	J	24	ASN	C-N-CA	8.46	137.20	121.97
1	B	394	ARG	NE-CZ-NH2	8.46	126.81	119.20
1	H	32	ALA	CA-C-O	-8.46	111.92	120.80
1	D	244	SER	CA-C-O	-8.46	108.42	120.51
1	D	495	ALA	CA-C-N	8.46	138.06	123.01
1	D	495	ALA	C-N-CA	8.46	138.06	123.01
1	J	216	LYS	CA-C-O	-8.46	110.93	120.32
1	K	200	GLY	CA-C-O	-8.46	105.85	120.57
1	G	119	ILE	CA-CB-CG1	8.46	124.77	110.40
1	M	288	LYS	CB-CA-C	8.46	124.76	109.62
1	C	452	ASN	CA-C-O	-8.45	112.59	121.55
1	F	288	LYS	CA-C-N	8.45	134.24	120.63
1	F	288	LYS	C-N-CA	8.45	134.24	120.63
1	I	223	MET	CA-C-N	8.45	130.41	119.84
1	I	223	MET	C-N-CA	8.45	130.41	119.84
1	K	323	GLU	CA-C-O	-8.45	111.30	121.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	263	PHE	O-C-N	-8.45	111.97	123.12
1	N	388	GLU	CA-C-O	8.45	129.59	120.55
1	H	132	GLN	CA-C-N	8.45	134.82	120.71
1	H	132	GLN	C-N-CA	8.45	134.82	120.71
1	H	360	ARG	NH1-CZ-NH2	8.45	130.28	119.30
1	A	230	ALA	N-CA-C	8.45	123.48	109.46
1	G	192	LEU	O-C-N	-8.45	111.36	122.59
1	L	135	LEU	CA-C-N	-8.45	109.40	122.49
1	B	265	GLN	CB-CG-CD	8.44	126.95	112.60
1	F	236	ASN	CA-C-N	8.44	137.98	122.02
1	F	236	ASN	C-N-CA	8.44	137.98	122.02
1	H	324	ARG	NE-CZ-NH1	-8.45	113.06	121.50
1	J	220	SER	O-C-N	-8.45	112.25	123.23
1	L	135	LEU	C-N-CA	-8.45	109.40	122.49
1	I	373	ILE	CB-CA-C	8.44	122.98	111.92
1	N	244	SER	O-C-N	-8.44	111.36	122.59
1	F	163	ALA	CA-C-N	-8.44	105.42	121.54
1	F	163	ALA	C-N-CA	-8.44	105.42	121.54
1	L	200	GLY	CA-C-O	-8.44	105.88	120.57
1	D	454	PHE	CG-CD1-CE1	8.44	135.05	120.70
1	P	149	ILE	CA-C-O	-8.44	109.38	119.85
1	C	466	VAL	O-C-N	8.44	133.12	122.57
1	K	357	GLU	N-CA-CB	8.44	122.83	110.26
1	N	403	ARG	NE-CZ-NH1	-8.44	113.06	121.50
1	H	305	THR	CA-CB-CG2	8.44	124.84	110.50
1	J	394	ARG	CD-NE-CZ	8.44	136.21	124.40
1	L	63	THR	N-CA-C	8.44	122.99	112.87
1	M	237	CYS	CA-C-O	-8.44	111.57	121.44
1	H	407	ALA	O-C-N	8.43	130.80	122.03
1	M	174	ILE	N-CA-C	8.43	119.00	110.23
1	P	324	ARG	NE-CZ-NH2	8.43	126.79	119.20
1	A	348	ARG	CD-NE-CZ	-8.43	112.60	124.40
1	D	153	ILE	O-C-N	-8.43	110.27	121.82
1	A	50	ASP	CA-C-N	8.43	132.41	120.28
1	A	50	ASP	C-N-CA	8.43	132.41	120.28
1	B	278	LYS	CA-C-N	8.43	137.02	121.52
1	B	278	LYS	C-N-CA	8.43	137.02	121.52
1	B	283	ALA	CA-C-N	8.43	133.98	122.77
1	B	283	ALA	C-N-CA	8.43	133.98	122.77
1	I	225	LYS	CA-C-O	-8.43	108.46	120.51
1	L	209	ILE	CA-C-O	-8.43	110.25	120.78
1	M	368	VAL	O-C-N	-8.42	112.04	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	313	GLN	CG-CD-OE1	8.42	137.64	120.80
1	G	111	LEU	O-C-N	-8.42	111.39	122.59
1	L	409	ARG	CD-NE-CZ	8.42	136.19	124.40
1	I	441	HIS	N-CA-C	8.42	120.54	111.36
1	E	302	ASN	CB-CA-C	8.42	124.25	110.78
1	B	229	ASP	CB-CA-C	8.42	127.17	110.42
1	B	273	GLN	N-CA-CB	8.42	122.48	109.94
1	C	393	LEU	CB-CA-C	8.42	127.58	109.99
1	D	287	VAL	O-C-N	-8.42	112.05	122.57
1	E	461	MET	CA-C-O	-8.42	108.47	120.51
1	F	190	LYS	CG-CD-CE	8.42	130.66	111.30
1	F	362	VAL	N-CA-C	8.42	119.28	111.45
1	K	68	MET	O-C-N	-8.42	111.40	122.59
1	M	366	VAL	CA-C-O	8.42	129.56	120.47
1	P	394	ARG	CA-C-O	8.42	129.58	120.24
1	A	475	GLN	CB-CG-CD	8.41	126.91	112.60
1	E	242	THR	CA-CB-OG1	8.41	122.22	109.60
1	E	135	LEU	CA-C-O	8.41	129.88	119.11
1	I	372	THR	O-C-N	8.41	133.78	122.59
1	L	12	MET	CA-C-N	8.41	137.61	121.54
1	L	12	MET	C-N-CA	8.41	137.61	121.54
1	L	474	THR	CA-CB-CG2	8.41	124.80	110.50
1	M	339	HIS	CA-C-O	-8.41	111.39	121.15
1	J	21	GLN	O-C-N	-8.41	113.34	122.09
1	N	181	VAL	N-CA-C	8.41	126.83	109.34
1	O	16	MET	O-C-N	-8.41	110.72	121.74
1	O	12	MET	N-CA-C	8.41	121.95	109.59
1	D	376	GLY	CA-C-N	-8.41	108.35	122.64
1	D	376	GLY	C-N-CA	-8.41	108.35	122.64
1	O	90	GLY	CA-C-N	8.41	134.67	121.56
1	O	90	GLY	C-N-CA	8.41	134.67	121.56
1	O	236	ASN	CA-CB-CG	8.41	121.01	112.60
1	J	238	ALA	CA-C-O	-8.40	108.49	120.51
1	D	299	THR	O-C-N	-8.40	111.42	122.59
1	F	94	THR	N-CA-CB	8.40	123.42	110.14
1	F	295	LEU	CA-C-O	-8.40	109.88	119.79
1	G	12	MET	O-C-N	-8.40	111.41	122.59
1	J	203	ILE	O-C-N	8.40	134.64	122.04
1	K	51	ASP	CA-C-O	-8.40	111.19	121.02
1	M	20	ALA	CA-C-O	-8.40	111.98	120.80
1	M	280	GLY	CA-C-O	-8.40	108.52	119.44
1	N	65	LEU	CD1-CG-CD2	8.40	129.28	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	259	ALA	CA-C-N	8.40	135.84	121.14
1	A	259	ALA	C-N-CA	8.40	135.84	121.14
1	E	140	CYS	N-CA-C	8.40	122.77	107.99
1	A	286	ARG	NE-CZ-NH2	8.40	126.76	119.20
1	B	414	ALA	N-CA-CB	8.40	123.23	110.30
1	B	438	ARG	CD-NE-CZ	-8.40	112.64	124.40
1	E	181	VAL	CB-CA-C	-8.40	100.99	112.24
1	H	246	MET	CA-CB-CG	8.40	130.89	114.10
1	M	184	ASP	CA-CB-CG	8.40	121.00	112.60
1	N	8	LEU	CA-C-N	8.40	128.91	119.92
1	N	8	LEU	C-N-CA	8.40	128.91	119.92
1	N	138	ILE	O-C-N	-8.40	113.68	121.91
1	P	112	ASP	N-CA-C	-8.40	103.17	113.41
1	O	155	MET	CA-C-O	-8.40	111.83	121.07
1	P	489	ARG	CD-NE-CZ	8.40	136.15	124.40
1	F	91	ASP	CA-CB-CG	8.39	121.00	112.60
1	F	207	GLU	CA-C-O	-8.39	111.66	121.82
1	F	250	MET	CA-C-O	8.39	129.56	120.24
1	M	189	ASP	CA-C-O	8.39	129.34	120.36
1	P	120	VAL	N-CA-C	-8.39	102.36	110.42
1	M	270	ASP	OD1-CG-OD2	-8.39	102.76	122.90
1	N	249	ASP	N-CA-CB	8.39	123.40	110.14
1	A	272	ALA	N-CA-C	8.39	120.20	111.14
1	G	496	ALA	CA-C-N	8.39	136.81	121.70
1	G	496	ALA	C-N-CA	8.39	136.81	121.70
1	P	87	LYS	CA-C-N	8.39	137.57	121.54
1	P	87	LYS	C-N-CA	8.39	137.57	121.54
1	B	191	ASP	N-CA-C	8.39	123.17	113.19
1	C	260	ASN	N-CA-CB	8.39	123.63	110.46
1	G	319	GLY	CA-C-O	-8.39	112.58	120.80
1	K	140	CYS	N-CA-C	8.39	123.12	108.52
1	O	338	LYS	O-C-N	-8.39	112.21	122.11
1	P	337	CYS	CA-C-N	8.39	131.73	120.65
1	P	337	CYS	C-N-CA	8.39	131.73	120.65
1	P	426	ALA	CB-CA-C	8.39	127.12	110.42
1	E	7	VAL	CA-C-O	-8.39	106.54	120.80
1	F	129	GLN	OE1-CD-NE2	8.39	130.99	122.60
1	G	174	ILE	O-C-N	8.39	130.62	121.90
1	P	317	ASP	N-CA-CB	8.39	125.92	111.74
1	C	318	ALA	CA-C-N	8.39	129.42	120.03
1	C	318	ALA	C-N-CA	8.39	129.42	120.03
1	L	119	ILE	CA-C-O	-8.39	110.30	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	335	GLU	CA-C-N	8.39	134.06	122.07
1	O	335	GLU	C-N-CA	8.39	134.06	122.07
1	E	479	SER	CA-CB-OG	8.38	127.87	111.10
1	E	487	LEU	O-C-N	-8.39	113.23	122.12
1	J	182	VAL	CA-C-O	-8.38	109.57	120.89
1	K	29	ARG	NE-CZ-NH1	-8.39	113.11	121.50
1	K	375	ASP	CA-CB-CG	8.38	120.98	112.60
1	L	68	MET	CA-C-N	8.39	137.56	121.54
1	L	68	MET	C-N-CA	8.39	137.56	121.54
1	D	110	LEU	N-CA-C	8.38	123.60	113.12
1	D	7	VAL	O-C-N	-8.38	109.59	123.00
1	F	119	ILE	N-CA-C	-8.38	103.71	111.67
1	M	317	ASP	O-C-N	-8.38	113.46	123.27
1	H	377	ARG	NE-CZ-NH1	-8.38	113.12	121.50
1	M	421	THR	CA-CB-CG2	8.38	124.75	110.50
1	B	43	GLY	O-C-N	8.38	131.36	123.48
1	B	239	ILE	CA-CB-CG2	8.38	124.74	110.50
1	D	19	ASP	O-C-N	8.38	130.70	122.07
1	E	41	PRO	CA-C-N	8.38	137.09	122.09
1	E	41	PRO	C-N-CA	8.38	137.09	122.09
1	E	283	ALA	O-C-N	8.38	133.03	123.48
1	M	434	LEU	N-CA-C	-8.38	102.11	111.07
1	M	49	VAL	CA-CB-CG2	8.38	124.64	110.40
1	P	270	ASP	CA-CB-CG	8.37	120.97	112.60
1	C	93	THR	CA-C-N	8.37	131.50	120.28
1	C	93	THR	C-N-CA	8.37	131.50	120.28
1	E	85	GLN	CB-CA-C	8.37	124.23	110.92
1	G	285	ARG	CD-NE-CZ	8.37	136.12	124.40
1	G	459	GLU	O-C-N	-8.37	111.89	123.11
1	G	461	MET	CA-C-O	-8.37	111.94	120.90
1	H	89	VAL	O-C-N	-8.37	112.10	122.57
1	J	134	LEU	N-CA-C	8.37	128.63	110.80
1	B	487	LEU	O-C-N	-8.37	111.46	122.59
1	C	203	ILE	CA-C-N	8.37	137.23	122.42
1	C	203	ILE	C-N-CA	8.37	137.23	122.42
1	P	198	LYS	CA-C-O	-8.37	110.19	119.98
1	P	478	GLN	CG-CD-NE2	8.37	128.95	116.40
1	F	200	GLY	CA-C-N	8.37	137.52	121.54
1	F	200	GLY	C-N-CA	8.37	137.52	121.54
1	D	62	VAL	N-CA-C	8.36	126.74	109.34
1	J	156	THR	O-C-N	8.36	130.99	122.12
1	K	158	ILE	CA-C-N	8.36	135.07	121.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	158	ILE	C-N-CA	8.36	135.07	121.86
1	L	178	VAL	O-C-N	8.36	130.60	121.90
1	P	163	ALA	N-CA-C	8.36	121.19	110.65
1	P	275	TYR	CA-C-O	-8.37	112.22	121.00
1	A	371	CYS	CA-C-O	-8.36	111.87	121.07
1	E	33	GLU	O-C-N	8.36	131.73	122.20
1	E	272	ALA	N-CA-C	8.36	121.60	111.40
1	J	265	GLN	O-C-N	-8.36	112.44	122.22
1	B	92	GLY	CA-C-N	8.36	131.69	120.65
1	B	92	GLY	C-N-CA	8.36	131.69	120.65
1	H	247	LEU	N-CA-C	8.36	120.17	111.14
1	K	184	ASP	CB-CG-OD2	8.36	137.63	118.40
1	D	216	LYS	O-C-N	-8.36	112.63	123.16
1	F	449	ALA	CA-C-N	-8.36	114.00	122.69
1	F	449	ALA	C-N-CA	-8.36	114.00	122.69
1	O	313	GLN	OE1-CD-NE2	-8.36	114.24	122.60
1	A	272	ALA	CA-C-N	8.35	137.50	121.54
1	A	272	ALA	C-N-CA	8.35	137.50	121.54
1	C	91	ASP	O-C-N	-8.35	113.15	123.01
1	D	121	VAL	CB-CA-C	-8.35	101.41	111.94
1	E	358	VAL	O-C-N	8.35	133.37	122.26
1	E	444	ASN	OD1-CG-ND2	8.35	130.95	122.60
1	G	269	ASP	CA-CB-CG	8.35	120.95	112.60
1	N	443	SER	CB-CA-C	8.35	125.85	110.56
1	O	366	VAL	O-C-N	-8.35	111.15	122.26
1	L	313	GLN	CB-CG-CD	8.35	126.80	112.60
1	P	302	ASN	CB-CA-C	8.35	124.59	110.81
1	P	281	ILE	CB-CA-C	-8.35	101.31	111.08
1	C	240	GLU	N-CA-CB	8.35	124.28	110.42
1	D	221	ALA	N-CA-CB	-8.35	97.81	110.33
1	E	73	PRO	N-CA-CB	8.35	112.41	103.39
1	I	228	THR	CA-C-O	-8.35	108.57	120.51
1	J	147	LYS	O-C-N	-8.35	113.35	122.03
1	J	205	ASP	CB-CA-C	-8.35	100.87	111.22
1	K	323	GLU	CB-CA-C	-8.35	97.52	110.88
1	N	116	HIS	O-C-N	-8.35	112.08	121.43
1	L	462	CYS	N-CA-C	8.35	128.58	110.80
1	A	56	VAL	N-CA-CB	8.35	122.78	112.10
1	D	253	GLU	CA-C-O	8.35	129.64	119.79
1	H	476	ALA	CA-C-N	8.35	136.99	121.97
1	H	476	ALA	C-N-CA	8.35	136.99	121.97
1	J	441	HIS	CB-CG-ND1	-8.35	110.18	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	291	ASP	CA-CB-CG	8.35	120.95	112.60
1	P	296	ALA	O-C-N	-8.35	112.64	122.15
1	F	372	THR	O-C-N	8.34	133.21	121.95
1	F	444	ASN	CA-CB-CG	8.34	120.94	112.60
1	G	324	ARG	NE-CZ-NH2	-8.34	111.69	119.20
1	H	476	ALA	N-CA-C	-8.34	103.12	113.38
1	P	243	ALA	N-CA-C	8.34	128.57	110.80
1	N	197	LYS	O-C-N	-8.34	113.84	123.27
1	E	372	THR	CA-CB-OG1	8.34	122.11	109.60
1	I	306	ASN	O-C-N	-8.34	111.14	122.23
1	E	463	GLU	CA-C-O	8.34	129.26	120.42
1	F	377	ARG	NH1-CZ-NH2	8.34	130.14	119.30
1	H	191	ASP	CA-C-O	8.34	129.10	119.18
1	J	364	ASP	O-C-N	-8.34	110.52	122.36
1	L	396	TYR	O-C-N	8.34	133.67	122.49
1	P	302	ASN	CA-CB-CG	8.34	120.94	112.60
1	K	120	VAL	O-C-N	-8.34	113.45	121.87
1	B	461	MET	CA-C-N	8.34	133.32	120.82
1	B	461	MET	C-N-CA	8.34	133.32	120.82
1	G	424	GLU	O-C-N	-8.34	113.09	122.09
1	D	183	ASP	CA-C-O	-8.34	111.55	120.80
1	G	411	PHE	CG-CD1-CE1	8.34	134.87	120.70
1	K	476	ALA	N-CA-C	8.34	120.37	111.28
1	L	36	ARG	CA-C-O	-8.34	112.05	120.80
1	O	119	ILE	CB-CA-C	-8.34	101.96	111.80
1	A	116	HIS	CA-C-O	8.33	131.57	120.16
1	C	294	LYS	N-CA-CB	8.33	123.19	110.28
1	B	95	THR	O-C-N	-8.33	110.58	122.41
1	H	313	GLN	OE1-CD-NE2	-8.33	114.27	122.60
1	L	489	ARG	O-C-N	-8.33	111.93	122.34
1	M	55	VAL	N-CA-C	8.33	120.10	107.77
1	M	245	GLU	CB-CG-CD	8.33	126.76	112.60
1	N	343	VAL	CA-C-O	-8.33	110.37	120.78
1	P	275	TYR	O-C-N	8.33	130.69	122.03
1	J	306	ASN	CA-CB-CG	8.33	120.93	112.60
1	L	333	PHE	CG-CD1-CE1	8.33	134.86	120.70
1	A	481	ALA	N-CA-C	8.33	122.41	111.75
1	J	363	ASP	CA-CB-CG	8.33	120.93	112.60
1	E	450	GLY	O-C-N	-8.32	116.36	123.60
1	F	190	LYS	O-C-N	-8.32	111.52	122.59
1	K	494	ILE	N-CA-CB	-8.32	101.63	110.95
1	L	245	GLU	CB-CG-CD	8.32	126.75	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	409	ARG	N-CA-CB	8.32	122.14	110.07
1	M	14	ARG	CA-CB-CG	8.32	130.75	114.10
1	M	152	LYS	N-CA-C	-8.32	103.64	113.88
1	N	255	LYS	N-CA-C	8.32	121.93	111.69
1	P	47	MET	N-CA-CB	8.32	124.56	110.49
1	A	67	GLU	CA-C-O	-8.32	112.06	120.80
1	I	222	GLN	CA-CB-CG	8.32	130.74	114.10
1	A	410	ALA	N-CA-C	8.32	122.53	112.38
1	E	191	ASP	CA-CB-CG	-8.32	104.28	112.60
1	M	474	THR	N-CA-C	8.32	119.97	111.07
1	B	237	CYS	CA-C-O	-8.32	111.67	120.40
1	C	21	GLN	CG-CD-OE1	8.32	137.44	120.80
1	G	230	ALA	N-CA-C	8.32	123.94	109.96
1	L	355	ILE	O-C-N	-8.32	112.17	122.57
1	M	353	HIS	N-CA-C	8.32	120.43	111.36
1	C	236	ASN	CA-C-N	8.32	133.83	122.77
1	C	236	ASN	C-N-CA	8.32	133.83	122.77
1	D	66	ARG	CB-CA-C	-8.32	96.99	110.79
1	I	165	LYS	N-CA-CB	8.32	122.46	109.82
1	L	152	LYS	CA-C-O	-8.32	112.33	120.90
1	N	306	ASN	CB-CG-OD1	8.32	137.43	120.80
1	P	170	LEU	CA-C-O	8.32	129.53	119.97
1	B	62	VAL	CA-C-N	8.31	137.42	121.54
1	B	62	VAL	C-N-CA	8.31	137.42	121.54
1	C	497	GLU	CA-C-O	-8.31	106.67	120.80
1	F	496	ALA	CA-C-O	-8.31	108.62	120.51
1	G	119	ILE	CA-C-O	-8.31	110.39	120.78
1	G	204	ASP	N-CA-C	8.31	123.61	113.38
1	J	138	ILE	CA-C-N	8.31	137.42	121.54
1	J	138	ILE	C-N-CA	8.31	137.42	121.54
1	H	372	THR	N-CA-CB	8.31	123.14	110.42
1	K	403	ARG	NE-CZ-NH1	8.31	129.81	121.50
1	O	458	VAL	N-CA-C	-8.31	96.32	108.71
1	B	330	SER	O-C-N	-8.31	112.75	122.89
1	C	130	LYS	O-C-N	8.31	133.20	122.39
1	D	184	ASP	CA-C-N	8.31	137.42	121.54
1	D	184	ASP	C-N-CA	8.31	137.42	121.54
1	I	142	VAL	CA-C-N	8.31	129.24	120.43
1	I	142	VAL	C-N-CA	8.31	129.24	120.43
1	J	122	LYS	O-C-N	8.31	133.93	122.46
1	A	313	GLN	CB-CG-CD	-8.31	98.47	112.60
1	C	107	ALA	CA-C-O	-8.31	109.16	119.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	355	ILE	CA-CB-CG1	8.31	124.52	110.40
1	O	156	THR	CA-C-O	8.31	129.57	119.10
1	O	256	ALA	CA-C-N	8.31	137.41	121.54
1	O	256	ALA	C-N-CA	8.31	137.41	121.54
1	O	477	ILE	O-C-N	-8.31	112.19	122.57
1	A	65	LEU	CD1-CG-CD2	8.30	129.07	110.80
1	F	265	GLN	CB-CG-CD	8.30	126.72	112.60
1	H	363	ASP	CA-C-N	8.30	137.40	121.54
1	H	363	ASP	C-N-CA	8.30	137.40	121.54
1	J	429	ASP	O-C-N	-8.31	112.13	122.68
1	N	254	ILE	O-C-N	-8.31	111.17	122.05
1	O	284	ALA	O-C-N	8.30	132.90	123.27
1	B	138	ILE	CA-CB-CG2	8.30	124.61	110.50
1	F	400	ILE	CA-C-O	-8.30	111.55	121.18
1	B	254	ILE	N-CA-CB	8.30	120.26	110.55
1	E	205	ASP	CA-CB-CG	8.30	120.90	112.60
1	G	472	VAL	CA-C-O	-8.30	111.83	120.71
1	H	474	THR	CA-C-N	8.30	136.79	121.52
1	H	474	THR	C-N-CA	8.30	136.79	121.52
1	L	422	LEU	CA-C-O	-8.30	110.42	119.97
1	M	112	ASP	N-CA-C	8.30	123.22	113.18
1	M	215	ASP	N-CA-CB	8.30	124.52	110.49
1	G	417	VAL	CA-C-O	-8.30	111.51	120.47
1	J	187	LYS	CA-C-N	8.30	134.14	123.10
1	J	187	LYS	C-N-CA	8.30	134.14	123.10
1	H	267	GLY	N-CA-C	8.30	125.50	111.98
1	K	236	ASN	CA-CB-CG	8.30	120.90	112.60
1	P	142	VAL	O-C-N	-8.30	112.20	122.57
1	D	288	LYS	O-C-N	8.29	132.31	122.85
1	D	363	ASP	O-C-N	8.30	133.01	122.23
1	K	325	LYS	CA-C-O	8.30	129.76	120.80
1	N	182	VAL	CA-C-O	-8.30	110.48	121.02
1	N	291	ASP	CA-C-O	-8.30	108.65	120.51
1	P	145	GLN	CB-CA-C	-8.30	97.27	111.46
1	D	327	SER	CA-C-N	8.29	137.66	121.41
1	D	327	SER	C-N-CA	8.29	137.66	121.41
1	C	178	VAL	CA-C-N	8.29	137.38	121.54
1	C	178	VAL	C-N-CA	8.29	137.38	121.54
1	F	205	ASP	O-C-N	-8.29	111.56	122.59
1	J	431	ILE	O-C-N	8.29	132.94	122.57
1	A	116	HIS	CB-CG-CD2	-8.29	120.42	131.20
1	E	133	GLU	CA-C-O	-8.29	111.63	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	7	VAL	CA-CB-CG1	-8.29	96.31	110.40
1	G	273	GLN	CA-CB-CG	8.29	130.68	114.10
1	O	291	ASP	O-C-N	8.29	135.68	122.41
1	J	469	PRO	CA-C-O	-8.29	105.51	120.60
1	D	311	SER	O-C-N	-8.29	115.47	123.26
1	D	345	MET	CA-C-N	8.29	132.90	121.05
1	D	345	MET	C-N-CA	8.29	132.90	121.05
1	H	8	LEU	O-C-N	8.29	130.85	121.32
1	H	105	ARG	NE-CZ-NH2	8.29	126.66	119.20
1	D	377	ARG	CD-NE-CZ	8.29	136.00	124.40
1	F	294	LYS	N-CA-C	8.28	121.43	111.82
1	J	240	GLU	CA-CB-CG	8.29	130.67	114.10
1	N	161	LYS	CA-CB-CG	8.29	130.67	114.10
1	O	160	GLY	CA-C-N	8.28	136.74	122.82
1	O	160	GLY	C-N-CA	8.28	136.74	122.82
1	C	199	SER	O-C-N	-8.28	111.58	122.59
1	F	349	GLY	CA-C-N	8.28	137.36	121.54
1	F	349	GLY	C-N-CA	8.28	137.36	121.54
1	O	156	THR	CA-CB-OG1	8.28	122.03	109.60
1	K	463	GLU	CB-CA-C	8.28	125.95	110.63
1	C	12	MET	CA-C-N	8.28	137.35	121.54
1	C	12	MET	C-N-CA	8.28	137.35	121.54
1	C	240	GLU	N-CA-C	8.28	123.65	108.58
1	C	307	ILE	CA-C-O	-8.28	110.43	120.78
1	G	397	ALA	CB-CA-C	8.28	124.92	110.85
1	J	325	LYS	CA-C-O	-8.28	111.25	120.69
1	A	360	ARG	N-CA-CB	8.28	122.55	110.47
1	G	181	VAL	CB-CA-C	-8.28	101.38	111.97
1	H	42	LYS	CA-C-O	-8.28	109.83	119.59
1	C	492	ASP	CA-C-N	8.27	134.68	123.10
1	C	492	ASP	C-N-CA	8.27	134.68	123.10
1	G	14	ARG	N-CA-CB	8.27	123.42	110.84
1	G	303	VAL	O-C-N	-8.27	113.81	122.66
1	H	380	SER	N-CA-CB	-8.27	97.03	109.69
1	K	14	ARG	CA-C-O	-8.27	111.41	120.43
1	P	21	GLN	CA-C-N	8.27	131.37	120.28
1	P	21	GLN	C-N-CA	8.27	131.37	120.28
1	H	420	ARG	CA-C-O	-8.27	112.11	120.80
1	P	244	SER	CA-CB-OG	8.27	127.64	111.10
1	P	419	PRO	CA-C-O	8.27	131.50	119.34
1	B	265	GLN	O-C-N	-8.27	110.36	122.43
1	C	419	PRO	O-C-N	-8.27	111.47	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	167	LYS	CA-C-O	-8.27	111.35	121.02
1	J	55	VAL	CG1-CB-CG2	-8.27	92.61	110.80
1	L	483	SER	N-CA-CB	8.27	121.97	109.98
1	E	369	VAL	N-CA-CB	8.27	124.87	111.23
1	J	389	LEU	N-CA-CB	8.27	122.27	110.12
1	A	336	GLU	CB-CA-C	8.27	126.19	111.06
1	D	385	THR	CA-CB-CG2	8.27	124.55	110.50
1	E	476	ALA	CA-C-O	-8.27	111.70	120.63
1	J	304	ILE	CB-CG1-CD1	8.27	131.16	113.80
1	J	348	ARG	N-CA-CB	8.27	123.69	110.46
1	K	9	PRO	O-C-N	-8.27	111.48	122.64
1	N	201	ALA	CB-CA-C	8.27	126.87	110.42
1	P	337	CYS	CA-C-O	-8.27	111.50	120.92
1	J	437	VAL	N-CA-CB	8.26	121.15	110.57
1	N	400	ILE	CA-CB-CG1	8.26	124.45	110.40
1	A	7	VAL	CA-C-O	-8.26	106.75	120.80
1	D	411	PHE	CB-CA-C	8.26	124.33	109.29
1	E	218	ARG	NH1-CZ-NH2	-8.26	108.56	119.30
1	F	257	SER	O-C-N	-8.26	112.82	122.32
1	P	57	VAL	O-C-N	-8.26	114.04	122.30
1	F	385	THR	CA-CB-CG2	8.26	124.55	110.50
1	F	397	ALA	CA-C-O	-8.26	111.07	120.24
1	P	35	VAL	N-CA-C	8.26	121.22	112.96
1	E	493	VAL	N-CA-CB	8.26	124.86	111.23
1	J	217	GLU	CB-CG-CD	8.26	126.64	112.60
1	B	182	VAL	O-C-N	8.26	132.89	122.57
1	C	265	GLN	N-CA-CB	8.26	123.24	109.78
1	E	352	GLU	CB-CA-C	8.26	126.85	110.42
1	O	415	LEU	N-CA-CB	8.26	124.10	110.39
1	H	474	THR	O-C-N	-8.26	112.74	122.15
1	M	458	VAL	CA-C-O	-8.26	113.09	121.59
1	O	189	ASP	CA-CB-CG	8.26	120.86	112.60
1	E	187	LYS	CG-CD-CE	8.25	130.28	111.30
1	B	362	VAL	CA-C-N	8.25	132.16	120.28
1	B	362	VAL	C-N-CA	8.25	132.16	120.28
1	G	342	ALA	CA-C-N	8.25	135.33	122.70
1	G	342	ALA	C-N-CA	8.25	135.33	122.70
1	N	425	ASN	CA-C-N	8.25	137.30	121.54
1	N	425	ASN	C-N-CA	8.25	137.30	121.54
1	P	97	VAL	CA-C-N	8.25	131.58	120.77
1	P	97	VAL	C-N-CA	8.25	131.58	120.77
1	G	372	THR	CA-CB-OG1	8.25	121.98	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	129	GLN	OE1-CD-NE2	-8.25	114.35	122.60
1	J	274	HIS	ND1-CE1-NE2	-8.25	100.15	108.40
1	O	463	GLU	N-CA-CB	8.25	122.44	110.06
1	C	14	ARG	NE-CZ-NH1	-8.25	113.25	121.50
1	E	260	ASN	N-CA-C	8.25	121.19	111.71
1	E	285	ARG	CA-C-O	-8.25	111.42	121.89
1	H	269	ASP	CA-CB-CG	8.25	120.85	112.60
1	I	118	THR	CA-CB-OG1	8.25	121.97	109.60
1	I	193	ILE	O-C-N	-8.25	112.97	122.62
1	K	39	LEU	N-CA-C	8.25	122.49	110.28
1	L	93	THR	N-CA-C	-8.25	101.98	110.97
1	N	495	ALA	CA-C-N	8.25	137.29	121.54
1	N	495	ALA	C-N-CA	8.25	137.29	121.54
1	P	193	ILE	CA-C-O	8.25	130.69	121.04
1	B	288	LYS	CA-C-O	-8.24	111.99	121.47
1	E	105	ARG	NE-CZ-NH2	8.24	126.62	119.20
1	C	459	GLU	O-C-N	8.24	132.83	123.27
1	E	33	GLU	CA-C-O	-8.24	110.97	120.20
1	L	66	ARG	CD-NE-CZ	8.24	135.94	124.40
1	K	236	ASN	CA-C-N	8.24	134.62	123.00
1	K	236	ASN	C-N-CA	8.24	134.62	123.00
1	O	417	VAL	N-CA-C	8.24	118.17	110.42
1	M	206	THR	O-C-N	-8.24	111.63	122.59
1	O	238	ALA	N-CA-C	8.24	128.36	110.80
1	E	153	ILE	CA-CB-CG1	8.24	124.41	110.40
1	I	184	ASP	N-CA-CB	-8.24	99.18	111.71
1	L	433	ILE	N-CA-C	8.24	118.29	110.30
1	F	187	LYS	CA-CB-CG	8.24	130.58	114.10
1	H	346	LEU	O-C-N	-8.24	112.58	122.96
1	I	370	GLY	CA-C-O	8.24	134.90	120.57
1	O	293	GLU	N-CA-C	8.24	122.29	111.75
1	E	58	THR	N-CA-C	8.23	128.34	110.80
1	G	339	HIS	CA-C-O	-8.23	110.48	121.02
1	K	229	ASP	N-CA-CB	8.23	124.28	110.69
1	L	497	GLU	OE1-CD-OE2	8.23	142.66	122.90
1	M	86	GLU	N-CA-CB	8.23	122.32	110.13
1	P	373	ILE	CA-C-N	8.23	132.82	120.31
1	P	373	ILE	C-N-CA	8.23	132.82	120.31
1	C	192	LEU	CA-C-N	-8.23	112.75	122.95
1	C	192	LEU	C-N-CA	-8.23	112.75	122.95
1	C	296	ALA	N-CA-C	8.23	128.33	110.80
1	G	194	LYS	N-CA-CB	8.23	121.66	110.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	239	ILE	CB-CA-C	8.23	124.79	111.29
1	L	18	ARG	CA-C-N	8.23	131.65	120.54
1	L	18	ARG	C-N-CA	8.23	131.65	120.54
1	L	468	GLU	CA-C-N	8.23	130.13	119.84
1	L	468	GLU	C-N-CA	8.23	130.13	119.84
1	N	362	VAL	N-CA-C	8.23	121.19	112.96
1	G	405	GLN	O-C-N	-8.23	113.40	122.12
1	N	152	LYS	N-CA-C	8.23	121.86	111.24
1	N	489	ARG	NH1-CZ-NH2	-8.23	108.60	119.30
1	H	447	LYS	CA-CB-CG	8.23	130.55	114.10
1	I	403	ARG	CA-CB-CG	8.23	130.55	114.10
1	P	286	ARG	CA-C-O	-8.23	108.75	120.51
1	H	180	ALA	N-CA-C	8.22	122.57	112.54
1	A	150	LEU	O-C-N	8.22	131.52	122.15
1	J	448	CYS	N-CA-C	8.22	120.81	109.54
1	N	202	SER	N-CA-C	8.22	123.86	108.65
1	N	355	ILE	CA-CB-CG1	8.22	124.38	110.40
1	A	302	ASN	CB-CA-C	8.22	123.81	110.16
1	F	410	ALA	CB-CA-C	8.22	125.74	110.70
1	K	346	LEU	O-C-N	8.22	132.92	122.89
1	O	478	GLN	CA-C-O	-8.22	108.76	120.51
1	E	63	THR	CA-C-N	8.22	136.76	121.97
1	E	63	THR	C-N-CA	8.22	136.76	121.97
1	H	323	GLU	O-C-N	-8.22	111.75	122.43
1	M	439	ALA	N-CA-CB	8.22	122.88	110.22
1	C	72	HIS	CA-CB-CG	-8.22	105.58	113.80
1	E	86	GLU	N-CA-C	8.22	120.24	111.28
1	E	159	THR	CA-CB-OG1	8.22	121.92	109.60
1	H	441	HIS	CB-CG-CD2	8.22	141.88	131.20
1	J	304	ILE	CA-C-N	8.22	137.24	121.54
1	J	304	ILE	C-N-CA	8.22	137.24	121.54
1	K	83	LYS	N-CA-C	8.22	128.31	110.80
1	K	489	ARG	N-CA-CB	8.22	124.38	110.49
1	O	281	ILE	N-CA-C	8.22	120.39	107.98
1	B	9	PRO	CA-N-CD	-8.22	100.50	112.00
1	B	15	TYR	CA-C-N	8.22	137.23	121.54
1	B	15	TYR	C-N-CA	8.22	137.23	121.54
1	B	446	ASN	O-C-N	8.22	130.96	122.09
1	E	39	LEU	CB-CA-C	8.22	121.99	110.16
1	H	119	ILE	CA-C-O	8.21	129.35	120.32
1	I	152	LYS	O-C-N	-8.21	111.67	122.59
1	J	137	THR	CA-CB-OG1	8.21	121.92	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	420	ARG	O-C-N	8.21	131.64	122.11
1	P	47	MET	CA-C-O	-8.21	108.77	120.51
1	A	172	GLU	CA-C-N	-8.21	107.15	120.86
1	A	172	GLU	C-N-CA	-8.21	107.15	120.86
1	A	204	ASP	CB-CG-OD2	8.21	137.28	118.40
1	H	436	LYS	CA-C-N	-8.21	112.86	122.63
1	H	436	LYS	C-N-CA	-8.21	112.86	122.63
1	P	470	LEU	O-C-N	-8.21	112.25	122.19
1	A	318	ALA	CA-C-O	-8.21	111.47	120.33
1	C	37	SER	O-C-N	-8.21	112.16	122.26
1	E	257	SER	O-C-N	-8.21	112.42	122.11
1	F	22	ARG	NE-CZ-NH2	-8.21	111.81	119.20
1	H	26	LEU	CA-C-O	8.21	129.15	120.70
1	H	52	LEU	N-CA-CB	8.21	122.19	110.12
1	I	478	GLN	CA-CB-CG	-8.21	97.68	114.10
1	O	60	ASP	CB-CG-OD1	8.21	137.28	118.40
1	P	187	LYS	N-CA-CB	8.21	124.36	110.49
1	G	245	GLU	O-C-N	-8.21	111.68	122.59
1	A	444	ASN	N-CA-CB	8.20	121.75	110.10
1	B	373	ILE	CA-CB-CG1	8.21	124.35	110.40
1	E	60	ASP	CA-CB-CG	8.21	120.81	112.60
1	K	456	GLY	O-C-N	-8.21	112.03	122.70
1	E	484	THR	CA-CB-OG1	-8.20	97.29	109.60
1	G	463	GLU	CB-CG-CD	-8.21	98.65	112.60
1	O	206	THR	CA-CB-OG1	-8.21	97.29	109.60
1	B	44	MET	N-CA-CB	8.20	123.17	110.46
1	G	127	ALA	CA-C-O	-8.20	108.61	119.11
1	O	92	GLY	O-C-N	-8.20	112.73	122.33
1	N	72	HIS	O-C-N	-8.20	114.17	121.31
1	B	85	GLN	CA-CB-CG	8.20	130.50	114.10
1	C	72	HIS	CA-C-O	-8.20	108.93	120.16
1	E	26	LEU	N-CA-C	-8.20	101.02	111.02
1	F	201	ALA	CA-C-O	-8.20	108.79	120.51
1	H	185	GLU	N-CA-C	8.20	128.26	110.80
1	I	242	THR	CA-CB-CG2	8.20	124.44	110.50
1	A	145	GLN	CG-CD-NE2	8.20	128.70	116.40
1	D	191	ASP	CA-CB-CG	-8.20	104.40	112.60
1	E	172	GLU	N-CA-C	8.20	123.58	113.50
1	A	18	ARG	N-CA-C	8.19	128.25	110.80
1	A	336	GLU	CB-CG-CD	8.20	126.53	112.60
1	D	174	ILE	N-CA-C	8.20	119.93	111.00
1	O	214	VAL	O-C-N	-8.20	115.07	122.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	474	THR	CA-CB-CG2	8.19	124.43	110.50
1	J	299	THR	N-CA-C	8.19	120.21	111.28
1	K	33	GLU	CA-C-O	-8.19	111.02	120.20
1	B	330	SER	N-CA-CB	8.19	122.01	109.97
1	D	9	PRO	CA-C-N	8.19	137.19	121.54
1	D	9	PRO	C-N-CA	8.19	137.19	121.54
1	L	93	THR	CA-C-O	-8.19	112.40	121.00
1	L	181	VAL	N-CA-CB	8.19	119.91	110.65
1	C	263	PHE	CA-C-N	8.19	133.59	121.72
1	C	263	PHE	C-N-CA	8.19	133.59	121.72
1	N	377	ARG	O-C-N	-8.19	112.34	122.82
1	P	405	GLN	CB-CG-CD	8.19	126.52	112.60
1	I	441	HIS	O-C-N	-8.19	112.82	122.15
1	I	487	LEU	N-CA-C	-8.19	102.33	111.82
1	K	329	ASP	N-CA-CB	-8.19	98.87	111.56
1	L	409	ARG	CA-C-O	-8.19	112.27	120.70
1	L	488	LEU	N-CA-C	8.19	121.12	111.71
1	O	236	ASN	N-CA-C	-8.19	102.04	112.93
1	J	338	LYS	O-C-N	8.18	132.91	122.19
1	M	319	GLY	CA-C-N	8.18	137.34	121.63
1	M	319	GLY	C-N-CA	8.18	137.34	121.63
1	M	353	HIS	ND1-CE1-NE2	-8.18	100.22	108.40
1	I	388	GLU	CB-CG-CD	8.18	126.51	112.60
1	N	270	ASP	CA-C-O	-8.18	111.75	120.42
1	B	438	ARG	NE-CZ-NH1	8.18	129.68	121.50
1	C	463	GLU	O-C-N	-8.18	111.70	122.42
1	G	64	ILE	CA-CB-CG1	8.18	124.31	110.40
1	H	70	VAL	N-CA-CB	8.18	120.40	111.89
1	H	85	GLN	OE1-CD-NE2	-8.18	114.42	122.60
1	N	470	LEU	N-CA-C	8.18	123.39	113.41
1	H	247	LEU	N-CA-CB	8.18	121.93	110.07
1	J	337	CYS	N-CA-CB	8.18	124.31	110.49
1	K	9	PRO	CB-CA-C	8.18	125.06	111.56
1	M	295	LEU	N-CA-CB	8.18	123.97	110.39
1	A	140	CYS	CB-CA-C	8.18	123.60	110.19
1	C	493	VAL	O-C-N	-8.18	111.17	122.62
1	D	389	LEU	O-C-N	8.18	131.47	122.15
1	G	336	GLU	N-CA-C	8.18	128.21	110.80
1	J	43	GLY	CA-C-N	8.18	134.30	122.77
1	J	43	GLY	C-N-CA	8.18	134.30	122.77
1	D	240	GLU	CA-C-O	-8.17	111.06	121.11
1	I	332	ILE	N-CA-C	8.17	120.64	108.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	341	LYS	N-CA-C	-8.17	103.31	113.28
1	H	205	ASP	N-CA-CB	8.17	124.30	110.49
1	H	438	ARG	NH1-CZ-NH2	-8.17	108.68	119.30
1	L	349	GLY	CA-C-O	-8.17	112.06	121.46
1	M	77	MET	CB-CA-C	8.17	126.34	110.57
1	P	378	ILE	CA-C-O	-8.17	111.52	120.67
1	B	374	GLU	CA-C-O	-8.17	108.42	119.12
1	B	427	GLY	CA-C-O	8.17	128.08	119.01
1	D	136	LYS	CB-CG-CD	8.17	130.09	111.30
1	E	385	THR	N-CA-CB	8.17	123.09	109.78
1	K	115	VAL	CB-CA-C	8.17	124.43	111.69
1	A	357	GLU	CA-C-O	-8.17	112.49	120.90
1	C	81	VAL	CA-C-O	8.17	130.12	121.05
1	F	399	GLY	O-C-N	-8.17	114.34	122.18
1	H	101	GLY	CA-C-O	-8.17	112.00	120.66
1	H	408	VAL	CA-C-N	8.17	131.06	120.44
1	H	408	VAL	C-N-CA	8.17	131.06	120.44
1	J	62	VAL	O-C-N	-8.17	112.36	122.57
1	M	190	LYS	CA-C-O	-8.17	112.49	120.90
1	K	29	ARG	NE-CZ-NH2	8.17	126.55	119.20
1	L	84	THR	N-CA-CB	8.17	122.12	110.12
1	M	490	ILE	N-CA-CB	-8.17	101.75	110.82
1	N	389	LEU	N-CA-C	-8.17	101.31	111.11
1	D	178	VAL	O-C-N	-8.16	112.55	122.18
1	G	212	VAL	O-C-N	8.16	132.02	123.20
1	O	405	GLN	CB-CG-CD	8.16	126.48	112.60
1	P	438	ARG	NH1-CZ-NH2	-8.16	108.69	119.30
1	C	336	GLU	CB-CA-C	8.16	126.66	110.42
1	H	10	GLU	CB-CG-CD	8.16	126.47	112.60
1	H	173	ILE	CA-C-O	-8.16	109.73	119.85
1	D	190	LYS	O-C-N	-8.16	111.74	122.59
1	L	472	VAL	CA-C-O	-8.16	110.58	120.78
1	A	475	GLN	CA-C-O	8.16	128.82	119.27
1	H	24	ASN	CB-CG-ND2	-8.16	104.16	116.40
1	E	38	THR	N-CA-C	8.15	123.34	113.23
1	L	368	VAL	N-CA-C	8.15	120.90	112.83
1	M	131	ALA	N-CA-CB	8.15	122.29	110.06
1	O	462	CYS	O-C-N	-8.15	112.86	122.15
1	P	359	ALA	N-CA-CB	8.15	122.35	110.20
1	C	266	LYS	CA-C-N	8.15	137.39	121.41
1	C	266	LYS	C-N-CA	8.15	137.39	121.41
1	E	122	LYS	CA-C-N	8.15	137.39	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	122	LYS	C-N-CA	8.15	137.39	121.41
1	E	212	VAL	N-CA-C	8.15	120.07	108.17
1	G	327	SER	CA-C-O	-8.15	108.85	120.51
1	J	319	GLY	O-C-N	-8.15	112.10	122.70
1	O	107	ALA	N-CA-CB	8.15	122.08	109.94
1	A	143	GLY	CA-C-O	-8.15	111.65	122.24
1	C	111	LEU	CA-C-O	8.15	132.16	120.51
1	D	216	LYS	CA-C-O	8.15	130.37	121.16
1	F	209	ILE	O-C-N	-8.15	112.39	122.57
1	N	145	GLN	CB-CA-C	-8.15	99.88	111.85
1	N	306	ASN	CA-C-O	-8.15	112.11	121.72
1	A	353	HIS	CA-CB-CG	8.14	121.94	113.80
1	A	393	LEU	CA-C-N	8.14	132.11	120.79
1	A	393	LEU	C-N-CA	8.14	132.11	120.79
1	A	447	LYS	N-CA-C	8.14	119.85	110.97
1	K	486	MET	CA-C-N	8.14	132.27	120.38
1	C	102	GLU	CA-C-N	8.14	137.09	121.54
1	C	102	GLU	C-N-CA	8.14	137.09	121.54
1	D	50	ASP	N-CA-CB	8.14	123.49	110.46
1	F	63	THR	CA-C-O	-8.14	111.49	121.02
1	H	316	GLY	O-C-N	-8.14	112.45	122.71
1	K	486	MET	C-N-CA	8.14	132.27	120.38
1	H	475	GLN	CA-C-N	-8.14	108.17	122.26
1	H	475	GLN	C-N-CA	-8.14	108.17	122.26
1	C	152	LYS	CA-CB-CG	8.14	130.38	114.10
1	H	482	GLU	CG-CD-OE1	8.14	137.13	118.40
1	M	319	GLY	O-C-N	-8.14	112.45	122.71
1	B	205	ASP	CA-C-O	-8.14	110.10	119.05
1	H	11	ASN	CA-C-N	8.14	137.09	121.54
1	H	11	ASN	C-N-CA	8.14	137.09	121.54
1	M	494	ILE	N-CA-CB	8.14	120.94	111.66
1	A	422	LEU	CA-C-N	8.14	131.39	120.65
1	A	422	LEU	C-N-CA	8.14	131.39	120.65
1	D	99	VAL	O-C-N	-8.14	112.40	122.57
1	E	383	GLY	CA-C-O	-8.14	106.41	120.57
1	K	31	ILE	CA-C-N	8.14	134.06	120.88
1	B	353	HIS	CA-C-O	-8.14	112.28	120.82
1	C	417	VAL	CA-C-O	-8.14	112.59	121.05
1	G	91	ASP	N-CA-CB	8.14	121.61	110.38
1	K	31	ILE	C-N-CA	8.14	134.06	120.88
1	G	285	ARG	CA-CB-CG	8.14	130.37	114.10
1	L	314	ASP	CB-CG-OD1	8.14	137.11	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	341	LYS	CA-C-O	8.14	129.40	119.31
1	O	78	LEU	CA-C-N	8.14	134.15	120.64
1	O	78	LEU	C-N-CA	8.14	134.15	120.64
1	P	399	GLY	CA-C-N	8.14	130.65	120.72
1	P	399	GLY	C-N-CA	8.14	130.65	120.72
1	F	182	VAL	N-CA-C	8.13	126.26	109.34
1	C	277	ALA	CA-C-N	8.13	134.05	120.88
1	C	277	ALA	C-N-CA	8.13	134.05	120.88
1	E	254	ILE	CA-C-O	-8.13	111.78	120.64
1	J	274	HIS	O-C-N	-8.13	111.77	122.59
1	L	229	ASP	N-CA-CB	8.13	124.03	110.53
1	L	304	ILE	CA-C-N	8.13	137.07	121.54
1	L	304	ILE	C-N-CA	8.13	137.07	121.54
1	N	158	ILE	CA-C-N	8.13	135.96	122.87
1	N	158	ILE	C-N-CA	8.13	135.96	122.87
1	A	497	GLU	N-CA-CB	8.13	124.32	110.50
1	E	293	GLU	N-CA-CB	8.13	123.22	110.46
1	G	140	CYS	N-CA-CB	8.13	124.08	111.64
1	B	385	THR	CA-C-N	8.13	137.06	121.54
1	B	385	THR	C-N-CA	8.13	137.06	121.54
1	E	464	ASN	OD1-CG-ND2	-8.13	114.47	122.60
1	D	444	ASN	CA-CB-CG	8.13	120.73	112.60
1	F	141	GLU	CB-CG-CD	8.13	126.42	112.60
1	O	247	LEU	CA-C-O	-8.13	110.20	119.14
1	J	348	ARG	CB-CA-C	8.13	124.05	109.83
1	A	196	GLU	CB-CG-CD	-8.12	98.79	112.60
1	A	259	ALA	CA-C-O	-8.12	108.89	120.51
1	B	420	ARG	CD-NE-CZ	-8.12	113.03	124.40
1	O	116	HIS	CA-CB-CG	8.13	121.93	113.80
1	P	350	THR	O-C-N	-8.13	111.78	122.59
1	C	237	CYS	N-CA-CB	8.12	123.66	110.42
1	E	470	LEU	CA-C-N	8.12	133.01	120.82
1	E	470	LEU	C-N-CA	8.12	133.01	120.82
1	I	203	ILE	CA-C-N	8.12	135.96	121.66
1	I	203	ILE	C-N-CA	8.12	135.96	121.66
1	K	25	ILE	CB-CG1-CD1	8.12	130.86	113.80
1	K	355	ILE	CA-CB-CG1	8.12	124.21	110.40
1	N	425	ASN	N-CA-CB	8.12	121.76	109.98
1	D	289	LYS	N-CA-CB	8.12	123.02	109.78
1	E	202	SER	CA-CB-OG	8.12	127.35	111.10
1	N	410	ALA	N-CA-C	8.12	122.15	111.75
1	F	18	ARG	N-CA-C	8.12	119.76	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	324	ARG	NH1-CZ-NH2	8.12	129.86	119.30
1	K	286	ARG	CA-C-O	-8.12	108.36	119.16
1	L	184	ASP	CA-CB-CG	8.12	120.72	112.60
1	K	147	LYS	O-C-N	8.12	132.26	122.27
1	A	308	LYS	CA-C-N	8.12	135.42	122.11
1	A	308	LYS	C-N-CA	8.12	135.42	122.11
1	B	452	ASN	O-C-N	8.12	133.73	122.77
1	O	190	LYS	CA-C-O	8.12	129.32	120.80
1	B	46	LYS	N-CA-CB	8.12	124.29	110.57
1	H	416	GLU	CA-C-O	-8.12	111.23	120.24
1	O	339	HIS	CG-CD2-NE2	-8.12	99.08	107.20
1	I	20	ALA	O-C-N	8.11	131.71	122.22
1	B	350	THR	N-CA-C	8.11	128.08	110.80
1	C	155	MET	O-C-N	8.11	130.72	122.12
1	C	159	THR	N-CA-CB	8.11	123.63	110.41
1	D	172	GLU	CB-CA-C	8.11	125.97	109.67
1	L	246	MET	CA-CB-CG	8.11	130.32	114.10
1	O	253	GLU	CA-C-O	-8.11	112.30	120.82
1	A	270	ASP	N-CA-C	8.11	122.27	112.38
1	I	12	MET	CA-C-N	8.11	133.00	120.75
1	I	12	MET	C-N-CA	8.11	133.00	120.75
1	N	59	ASN	OD1-CG-ND2	-8.11	114.49	122.60
1	P	129	GLN	N-CA-CB	8.11	124.19	110.49
1	D	22	ARG	N-CA-C	8.11	124.75	111.37
1	D	242	THR	CA-C-N	8.11	137.02	121.54
1	D	242	THR	C-N-CA	8.11	137.02	121.54
1	E	426	ALA	O-C-N	-8.11	111.27	122.46
1	K	70	VAL	CA-C-O	-8.11	112.44	121.36
1	K	339	HIS	ND1-CE1-NE2	-8.11	100.29	108.40
1	M	116	HIS	CA-C-O	-8.11	109.06	120.16
1	A	35	VAL	O-C-N	8.10	132.70	122.57
1	B	471	ARG	NE-CZ-NH1	8.10	129.60	121.50
1	C	301	ALA	N-CA-C	8.10	128.06	110.80
1	F	25	ILE	CB-CG1-CD1	8.10	130.82	113.80
1	M	135	LEU	CA-C-N	8.10	131.95	120.28
1	G	10	GLU	CA-CB-CG	8.10	130.31	114.10
1	H	22	ARG	NH1-CZ-NH2	-8.10	108.77	119.30
1	H	251	VAL	N-CA-C	8.10	118.04	110.42
1	M	135	LEU	C-N-CA	8.10	131.95	120.28
1	P	418	ILE	CB-CA-C	-8.10	103.39	114.00
1	N	304	ILE	O-C-N	-8.10	114.30	122.97
1	H	378	ILE	N-CA-C	8.10	119.76	107.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	97	VAL	CA-C-N	8.10	130.82	120.70
1	C	97	VAL	C-N-CA	8.10	130.82	120.70
1	C	309	ASP	CA-C-N	8.10	132.32	120.90
1	C	309	ASP	C-N-CA	8.10	132.32	120.90
1	A	151	THR	CB-CA-C	8.10	124.23	110.79
1	A	411	PHE	CA-CB-CG	8.10	121.90	113.80
1	I	22	ARG	N-CA-C	8.10	121.02	111.71
1	K	360	ARG	N-CA-CB	8.10	124.17	110.49
1	I	288	LYS	CA-C-O	-8.09	112.48	121.87
1	J	256	ALA	N-CA-CB	8.09	122.26	110.20
1	F	324	ARG	CA-C-O	-8.09	111.70	120.36
1	G	146	ASP	O-C-N	-8.09	113.77	123.16
1	I	355	ILE	CA-C-N	8.09	131.47	120.54
1	I	355	ILE	C-N-CA	8.09	131.47	120.54
1	N	188	VAL	CA-C-O	-8.09	110.67	120.78
1	G	324	ARG	CA-C-O	-8.09	112.12	120.54
1	A	141	GLU	CB-CA-C	8.09	123.48	109.65
1	D	360	ARG	O-C-N	8.09	134.01	122.20
1	H	219	VAL	CA-CB-CG1	8.09	124.15	110.40
1	J	58	THR	N-CA-C	8.09	121.01	108.96
1	M	335	GLU	O-C-N	-8.09	111.83	122.59
1	O	183	ASP	O-C-N	-8.09	113.74	123.29
1	B	220	SER	O-C-N	-8.09	113.58	123.04
1	F	32	ALA	CA-C-O	8.09	129.23	120.90
1	D	390	SER	O-C-N	8.09	130.73	122.08
1	M	348	ARG	N-CA-CB	8.09	123.59	110.41
1	O	66	ARG	NE-CZ-NH2	8.09	126.48	119.20
1	P	475	GLN	OE1-CD-NE2	-8.09	114.52	122.60
1	B	293	GLU	N-CA-C	8.08	122.77	113.15
1	A	125	GLN	CA-C-O	-8.08	110.25	119.79
1	B	380	SER	N-CA-C	8.08	128.02	110.80
1	C	86	GLU	N-CA-C	8.08	120.88	111.02
1	C	98	VAL	O-C-N	8.08	130.26	121.94
1	F	125	GLN	CG-CD-NE2	-8.08	104.28	116.40
1	B	443	SER	N-CA-C	8.08	123.82	113.88
1	C	18	ARG	NH1-CZ-NH2	-8.08	108.80	119.30
1	F	145	GLN	CG-CD-NE2	-8.08	104.28	116.40
1	H	131	ALA	N-CA-C	-8.08	103.40	113.18
1	G	333	PHE	CA-C-O	-8.08	112.15	120.71
1	I	276	LEU	CA-C-N	8.08	135.28	121.14
1	I	276	LEU	C-N-CA	8.08	135.28	121.14
1	J	18	ARG	CA-C-N	8.08	132.94	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	18	ARG	C-N-CA	8.08	132.94	120.82
1	D	353	HIS	CB-CG-ND1	-8.08	110.58	122.70
1	F	137	THR	O-C-N	-8.08	110.89	122.36
1	K	223	MET	O-C-N	-8.08	113.93	121.20
1	P	256	ALA	CA-C-N	8.08	133.01	120.89
1	P	256	ALA	C-N-CA	8.08	133.01	120.89
1	K	389	LEU	O-C-N	8.08	130.39	122.07
1	P	177	ALA	CA-C-O	-8.08	111.86	120.42
1	E	63	THR	CA-CB-OG1	8.07	121.71	109.60
1	G	472	VAL	CA-C-N	8.07	134.39	120.58
1	G	472	VAL	C-N-CA	8.07	134.39	120.58
1	L	470	LEU	CA-C-O	8.07	128.37	119.24
1	C	360	ARG	NH1-CZ-NH2	-8.07	108.81	119.30
1	O	171	ALA	CA-C-O	-8.07	109.94	119.15
1	P	148	GLU	N-CA-CB	8.07	123.45	109.72
1	B	247	LEU	CA-C-N	8.07	134.40	120.68
1	B	247	LEU	C-N-CA	8.07	134.40	120.68
1	C	485	GLU	CB-CA-C	8.07	124.57	110.85
1	D	436	LYS	O-C-N	-8.07	113.76	122.07
1	I	293	GLU	CB-CG-CD	-8.07	98.88	112.60
1	J	236	ASN	CA-C-N	8.07	134.38	123.00
1	J	236	ASN	C-N-CA	8.07	134.38	123.00
1	F	309	ASP	CB-CG-OD2	-8.07	99.84	118.40
1	H	236	ASN	N-CA-CB	8.07	122.28	110.26
1	K	18	ARG	CA-C-O	8.07	129.34	120.63
1	L	237	CYS	O-C-N	-8.07	113.34	122.86
1	M	324	ARG	CA-C-O	-8.07	112.15	120.54
1	M	475	GLN	OE1-CD-NE2	8.07	130.67	122.60
1	A	299	THR	O-C-N	-8.06	113.38	122.09
1	I	120	VAL	CA-C-N	8.06	130.72	120.56
1	I	120	VAL	C-N-CA	8.06	130.72	120.56
1	O	137	THR	N-CA-C	8.06	123.25	113.41
1	G	479	SER	O-C-N	8.06	132.87	122.39
1	H	147	LYS	N-CA-C	8.06	123.46	112.90
1	J	386	GLU	CB-CG-CD	8.06	126.31	112.60
1	M	337	CYS	CA-C-N	8.06	131.29	120.65
1	M	337	CYS	C-N-CA	8.06	131.29	120.65
1	C	429	ASP	CA-CB-CG	8.06	120.66	112.60
1	C	190	LYS	CA-C-O	-8.06	108.98	120.51
1	F	113	GLN	CA-C-N	8.06	136.93	121.54
1	F	113	GLN	C-N-CA	8.06	136.93	121.54
1	G	246	MET	CA-C-N	8.06	136.93	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	246	MET	C-N-CA	8.06	136.93	121.54
1	H	72	HIS	CG-CD2-NE2	-8.06	99.14	107.20
1	M	71	GLU	N-CA-C	8.06	123.04	112.72
1	B	364	ASP	O-C-N	-8.06	111.42	122.30
1	I	212	VAL	N-CA-C	8.06	119.70	107.77
1	O	169	LYS	CA-C-O	-8.06	111.88	120.42
1	P	49	VAL	O-C-N	-8.06	112.50	122.57
1	A	444	ASN	OD1-CG-ND2	-8.06	114.54	122.60
1	E	79	ILE	CA-CB-CG1	8.05	124.09	110.40
1	E	306	ASN	CA-C-O	-8.06	112.46	121.89
1	E	460	ASP	CA-C-O	-8.06	112.23	121.66
1	G	62	VAL	CA-C-O	-8.06	110.71	120.78
1	K	210	LYS	N-CA-CB	8.05	124.10	110.49
1	M	114	ASN	CA-C-O	-8.06	108.99	120.51
1	M	279	GLU	CA-C-O	-8.05	109.93	119.35
1	N	302	ASN	O-C-N	-8.05	113.77	123.27
1	P	319	GLY	N-CA-C	8.06	124.65	114.66
1	E	451	LEU	N-CA-CB	8.05	123.55	111.23
1	F	452	ASN	CA-CB-CG	-8.05	104.55	112.60
1	H	226	LYS	O-C-N	-8.05	111.88	122.59
1	I	34	THR	O-C-N	-8.05	113.47	122.08
1	O	351	THR	CA-CB-CG2	8.05	124.19	110.50
1	G	186	GLY	CA-C-O	-8.05	106.57	120.57
1	H	129	GLN	CB-CA-C	8.05	125.32	110.11
1	H	483	SER	CA-C-O	-8.05	110.06	119.64
1	I	336	GLU	O-C-N	-8.05	111.89	122.59
1	N	439	ALA	CA-C-O	-8.05	110.29	119.79
1	G	413	ASP	N-CA-C	-8.05	103.35	113.01
1	I	63	THR	OG1-CB-CG2	-8.04	93.21	109.30
1	M	10	GLU	CA-C-O	-8.04	109.00	120.51
1	O	306	ASN	N-CA-CB	-8.04	98.37	110.60
1	C	246	MET	N-CA-CB	8.04	124.08	110.49
1	C	469	PRO	CA-C-O	-8.04	105.97	120.60
1	F	108	GLU	N-CA-C	8.04	120.05	111.28
1	G	255	LYS	CA-C-N	8.04	131.38	120.44
1	G	255	LYS	C-N-CA	8.04	131.38	120.44
1	H	12	MET	N-CA-C	8.04	127.93	110.80
1	J	348	ARG	CD-NE-CZ	-8.04	113.14	124.40
1	O	236	ASN	OD1-CG-ND2	-8.04	114.56	122.60
1	F	323	GLU	CB-CG-CD	8.04	126.27	112.60
1	G	253	GLU	CA-CB-CG	8.04	130.18	114.10
1	B	24	ASN	CB-CG-ND2	-8.04	104.34	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	396	TYR	CA-C-O	-8.04	112.38	120.82
1	J	15	TYR	CA-C-N	8.04	136.56	121.69
1	J	15	TYR	C-N-CA	8.04	136.56	121.69
1	K	353	HIS	CB-CG-ND1	-8.04	110.64	122.70
1	J	56	VAL	O-C-N	-8.04	112.52	122.57
1	M	13	LYS	CB-CG-CD	8.04	129.79	111.30
1	O	88	GLU	O-C-N	-8.04	113.08	122.32
1	A	438	ARG	O-C-N	-8.03	113.67	122.03
1	A	444	ASN	N-CA-C	8.04	123.49	111.04
1	A	469	PRO	CB-CA-C	8.03	122.64	110.75
1	A	397	ALA	N-CA-C	8.03	119.72	110.97
1	F	296	ALA	N-CA-C	8.03	122.18	112.38
1	I	373	ILE	CA-CB-CG1	8.03	124.06	110.40
1	J	354	VAL	CA-C-O	-8.03	110.74	120.78
1	P	269	ASP	CA-C-O	-8.03	111.48	120.32
1	A	481	ALA	CA-C-O	-8.03	111.21	120.20
1	M	21	GLN	CG-CD-OE1	8.03	136.86	120.80
1	M	472	VAL	CA-C-O	-8.03	110.74	120.78
1	N	364	ASP	O-C-N	-8.03	112.30	122.34
1	D	374	GLU	N-CA-CB	8.03	122.01	110.13
1	A	211	GLY	CA-C-N	8.03	133.77	123.10
1	A	211	GLY	C-N-CA	8.03	133.77	123.10
1	E	89	VAL	N-CA-C	8.03	125.12	113.16
1	I	116	HIS	ND1-CG-CD2	8.03	114.13	106.10
1	I	280	GLY	CA-C-N	8.03	135.19	121.63
1	I	280	GLY	C-N-CA	8.03	135.19	121.63
1	O	59	ASN	OD1-CG-ND2	-8.03	114.58	122.60
1	E	331	MET	O-C-N	8.02	133.11	123.24
1	K	307	ILE	CA-CB-CG2	8.02	124.14	110.50
1	N	496	ALA	O-C-N	-8.02	111.92	122.59
1	K	141	GLU	CA-C-O	-8.02	112.33	121.15
1	D	360	ARG	N-CA-C	-8.02	103.10	113.12
1	J	28	GLY	O-C-N	-8.02	114.19	122.13
1	J	420	ARG	CA-C-N	-8.02	107.15	122.06
1	J	420	ARG	C-N-CA	-8.02	107.15	122.06
1	L	185	GLU	CB-CG-CD	8.02	126.23	112.60
1	E	355	ILE	N-CA-C	8.02	118.60	110.82
1	E	113	GLN	N-CA-C	8.01	122.78	112.92
1	N	285	ARG	NE-CZ-NH2	-8.01	111.99	119.20
1	J	59	ASN	N-CA-C	-8.01	98.84	111.02
1	L	339	HIS	CA-C-O	-8.01	111.86	121.15
1	P	41	PRO	N-CD-CG	8.01	115.22	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	444	ASN	CB-CG-OD1	8.01	136.82	120.80
1	A	191	ASP	CA-CB-CG	-8.01	104.59	112.60
1	C	103	LEU	N-CA-CB	8.01	124.03	110.49
1	D	10	GLU	N-CA-CB	8.01	124.03	110.49
1	D	89	VAL	CA-C-O	-8.01	111.89	121.18
1	H	222	GLN	N-CA-C	8.01	120.92	111.71
1	P	161	LYS	CA-C-O	8.01	130.48	121.51
1	J	403	ARG	NH1-CZ-NH2	8.01	129.71	119.30
1	N	11	ASN	O-C-N	-8.01	111.94	122.59
1	P	11	ASN	CA-C-O	-8.01	109.06	120.51
1	D	372	THR	O-C-N	8.01	133.42	122.37
1	E	14	ARG	NE-CZ-NH2	8.01	126.41	119.20
1	E	360	ARG	NE-CZ-NH2	8.01	126.41	119.20
1	M	435	VAL	N-CA-CB	-8.01	100.46	110.47
1	A	14	ARG	NE-CZ-NH1	-8.00	113.50	121.50
1	C	383	GLY	CA-C-O	-8.00	110.52	119.88
1	D	114	ASN	CB-CG-ND2	-8.00	104.39	116.40
1	D	218	ARG	NE-CZ-NH1	-8.00	113.50	121.50
1	E	445	GLY	CA-C-O	8.00	130.81	122.56
1	E	452	ASN	CA-CB-CG	-8.00	104.60	112.60
1	H	288	LYS	N-CA-C	8.00	120.64	110.24
1	I	342	ALA	N-CA-CB	8.00	124.02	110.49
1	D	325	LYS	N-CA-CB	8.00	121.73	109.97
1	O	308	LYS	CG-CD-CE	8.00	129.71	111.30
1	P	258	GLY	CA-C-N	8.00	132.77	121.24
1	P	258	GLY	C-N-CA	8.00	132.77	121.24
1	K	496	ALA	O-C-N	-8.00	111.95	122.59
1	L	348	ARG	NH1-CZ-NH2	8.00	129.70	119.30
1	M	142	VAL	CA-C-N	8.00	131.93	121.13
1	M	142	VAL	C-N-CA	8.00	131.93	121.13
1	P	242	THR	CA-CB-OG1	8.00	121.60	109.60
1	C	99	VAL	CA-C-O	-8.00	110.78	120.78
1	D	15	TYR	CD1-CG-CD2	-8.00	106.10	118.10
1	D	466	VAL	CA-C-O	-8.00	110.78	120.78
1	J	60	ASP	N-CA-CB	8.00	121.51	109.19
1	K	373	ILE	CA-CB-CG2	8.00	124.10	110.50
1	L	486	MET	CB-CA-C	-8.00	98.32	110.88
1	O	64	ILE	N-CA-C	-8.00	104.96	112.96
1	P	239	ILE	CA-CB-CG1	8.00	124.00	110.40
1	K	11	ASN	O-C-N	-8.00	111.95	122.59
1	O	294	LYS	N-CA-CB	8.00	121.97	109.82
1	O	477	ILE	CA-CB-CG1	8.00	123.99	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	29	ARG	N-CA-CB	8.00	121.58	109.91
1	C	248	LYS	N-CA-CB	8.00	122.67	110.28
1	L	473	LYS	CA-C-N	8.00	132.81	120.82
1	L	473	LYS	C-N-CA	8.00	132.81	120.82
1	F	45	ASP	CB-CG-OD2	7.99	136.78	118.40
1	H	111	LEU	N-CA-CB	7.99	124.57	110.18
1	J	146	ASP	O-C-N	7.99	132.85	123.02
1	L	452	ASN	CB-CG-ND2	-7.99	104.41	116.40
1	A	181	VAL	CB-CA-C	-7.99	101.74	111.97
1	I	249	ASP	CA-CB-CG	7.99	120.59	112.60
1	M	291	ASP	N-CA-C	7.99	127.82	110.80
1	B	431	ILE	CA-C-N	-7.99	107.10	120.68
1	B	431	ILE	C-N-CA	-7.99	107.10	120.68
1	E	324	ARG	CB-CA-C	7.99	122.91	109.80
1	F	487	LEU	N-CA-C	-7.99	103.53	113.20
1	K	280	GLY	CA-C-N	7.99	136.35	121.97
1	K	280	GLY	C-N-CA	7.99	136.35	121.97
1	P	367	GLY	CA-C-N	7.99	131.77	120.42
1	P	367	GLY	C-N-CA	7.99	131.77	120.42
1	E	55	VAL	CA-C-O	-7.99	112.96	121.19
1	H	125	GLN	CA-C-N	7.99	130.99	120.28
1	H	125	GLN	C-N-CA	7.99	130.99	120.28
1	I	70	VAL	CG1-CB-CG2	7.99	128.38	110.80
1	I	169	LYS	CB-CA-C	7.99	123.52	110.90
1	N	424	GLU	CA-C-N	7.99	131.49	120.63
1	N	424	GLU	C-N-CA	7.99	131.49	120.63
1	P	435	VAL	O-C-N	7.99	129.94	121.87
1	E	466	VAL	O-C-N	-7.99	112.59	122.57
1	F	304	ILE	CA-CB-CG1	7.99	123.97	110.40
1	I	68	MET	CA-CB-CG	7.99	130.07	114.10
1	I	88	GLU	N-CA-CB	7.99	123.99	110.49
1	J	263	PHE	O-C-N	-7.99	114.01	123.27
1	L	339	HIS	ND1-CG-CD2	-7.99	98.11	106.10
1	M	139	ALA	O-C-N	-7.99	111.97	122.59
1	O	326	ILE	CA-CB-CG1	7.99	123.98	110.40
1	D	48	LEU	N-CA-C	7.98	122.30	110.48
1	K	113	GLN	O-C-N	-7.98	111.95	122.33
1	N	220	SER	CA-C-O	-7.98	112.32	121.66
1	F	53	GLY	CA-C-N	7.98	136.78	121.54
1	F	53	GLY	C-N-CA	7.98	136.78	121.54
1	L	441	HIS	CB-CG-CD2	7.98	141.57	131.20
1	M	268	ILE	CA-CB-CG2	7.98	124.07	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	14	ARG	NH1-CZ-NH2	-7.98	108.92	119.30
1	L	251	VAL	N-CA-C	7.98	118.56	110.82
1	A	54	ASP	CA-CB-CG	7.98	120.58	112.60
1	A	184	ASP	N-CA-CB	-7.98	99.89	111.70
1	D	449	ALA	CA-C-O	-7.98	110.76	120.89
1	G	425	ASN	CA-C-N	7.98	133.88	121.19
1	G	425	ASN	C-N-CA	7.98	133.88	121.19
1	I	184	ASP	CA-C-O	-7.98	113.02	122.27
1	J	339	HIS	ND1-CE1-NE2	-7.98	100.42	108.40
1	E	207	GLU	CA-C-O	-7.98	111.93	121.66
1	M	159	THR	CA-CB-CG2	7.98	124.06	110.50
1	N	465	GLY	O-C-N	7.98	133.07	122.70
1	A	333	PHE	CA-CB-CG	7.97	121.78	113.80
1	B	435	VAL	CA-C-O	-7.97	109.93	119.58
1	C	472	VAL	CA-C-N	7.97	131.29	120.44
1	C	472	VAL	C-N-CA	7.97	131.29	120.44
1	G	141	GLU	CA-C-O	-7.97	111.96	121.05
1	I	170	LEU	CA-C-O	-7.97	110.20	119.61
1	I	338	LYS	CB-CA-C	-7.97	97.40	110.79
1	K	131	ALA	CA-C-N	7.97	132.43	120.31
1	K	131	ALA	C-N-CA	7.97	132.43	120.31
1	P	97	VAL	CA-CB-CG2	7.97	123.95	110.40
1	B	90	GLY	CA-C-N	7.97	132.90	121.50
1	B	90	GLY	C-N-CA	7.97	132.90	121.50
1	E	169	LYS	O-C-N	-7.97	111.04	122.36
1	I	381	GLY	O-C-N	-7.97	112.34	122.70
1	L	274	HIS	CG-CD2-NE2	-7.97	99.23	107.20
1	N	193	ILE	N-CA-C	7.97	119.00	106.88
1	D	36	ARG	NE-CZ-NH1	-7.97	113.53	121.50
1	D	294	LYS	N-CA-CB	7.97	121.54	109.98
1	I	157	SER	N-CA-CB	7.97	121.62	110.07
1	N	116	HIS	CA-C-O	7.97	128.86	120.25
1	D	260	ASN	N-CA-C	7.97	127.77	110.80
1	E	141	GLU	CA-C-O	-7.97	111.97	121.05
1	C	57	VAL	N-CA-CB	-7.97	101.98	110.82
1	C	63	THR	N-CA-CB	7.97	123.95	110.49
1	C	280	GLY	CA-C-N	7.97	132.65	121.66
1	C	280	GLY	C-N-CA	7.97	132.65	121.66
1	J	454	PHE	CB-CG-CD2	-7.97	107.16	120.70
1	N	150	LEU	O-C-N	-7.97	111.87	122.23
1	C	435	VAL	CA-CB-CG1	-7.96	96.86	110.40
1	F	222	GLN	OE1-CD-NE2	-7.96	114.64	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	410	ALA	N-CA-C	7.96	120.87	111.71
1	M	287	VAL	CA-C-O	7.96	130.12	121.04
1	M	420	ARG	CD-NE-CZ	-7.96	113.25	124.40
1	K	461	MET	CA-C-N	7.96	136.75	121.54
1	K	461	MET	C-N-CA	7.96	136.75	121.54
1	K	461	MET	CA-C-O	-7.96	109.13	120.51
1	P	326	ILE	CA-CB-CG1	7.96	123.93	110.40
1	A	356	GLU	CA-C-N	7.96	131.45	120.63
1	A	356	GLU	C-N-CA	7.96	131.45	120.63
1	C	95	THR	CA-C-N	7.96	131.28	120.54
1	C	95	THR	C-N-CA	7.96	131.28	120.54
1	D	400	ILE	N-CA-C	7.96	125.89	109.34
1	L	83	LYS	CA-C-N	7.96	130.94	120.28
1	L	83	LYS	C-N-CA	7.96	130.94	120.28
1	L	422	LEU	O-C-N	7.96	132.06	122.27
1	A	116	HIS	ND1-CG-CD2	7.96	114.06	106.10
1	F	72	HIS	N-CA-CB	7.96	124.53	110.37
1	I	50	ASP	CB-CG-OD1	7.96	136.70	118.40
1	I	164	GLU	CG-CD-OE2	7.96	136.70	118.40
1	I	429	ASP	CA-C-O	7.95	129.76	120.69
1	M	84	THR	O-C-N	7.95	133.34	122.37
1	C	474	THR	CA-CB-OG1	7.95	121.53	109.60
1	K	123	GLY	O-C-N	7.95	133.04	122.70
1	N	426	ALA	N-CA-CB	7.95	123.93	110.49
1	D	490	ILE	CA-C-O	7.95	130.72	120.78
1	F	269	ASP	O-C-N	-7.95	111.93	121.79
1	F	363	ASP	CA-C-O	7.95	128.98	120.55
1	H	129	GLN	CA-C-N	7.95	130.93	120.28
1	H	129	GLN	C-N-CA	7.95	130.93	120.28
1	E	91	ASP	CA-CB-CG	7.95	120.55	112.60
1	E	277	ALA	CA-C-N	7.95	136.72	121.54
1	E	277	ALA	C-N-CA	7.95	136.72	121.54
1	K	351	THR	CA-C-O	7.95	131.40	121.46
1	M	312	ALA	CA-C-O	-7.95	109.60	119.38
1	N	158	ILE	N-CA-C	7.95	125.87	109.34
1	P	285	ARG	N-CA-C	7.95	121.32	110.35
1	P	364	ASP	CA-CB-CG	7.95	120.55	112.60
1	G	477	ILE	O-C-N	7.95	130.44	121.94
1	K	437	VAL	O-C-N	7.95	130.01	121.83
1	N	220	SER	O-C-N	7.95	133.38	122.41
1	A	442	ALA	CA-C-O	-7.94	112.13	120.55
1	C	351	THR	CB-CA-C	7.94	122.83	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	36	ARG	CD-NE-CZ	7.94	135.52	124.40
1	D	169	LYS	CA-CB-CG	7.94	129.99	114.10
1	H	265	GLN	CA-C-O	7.94	128.84	120.42
1	J	240	GLU	CA-C-O	-7.94	112.28	120.54
1	M	80	GLU	CA-C-N	-7.94	112.40	121.85
1	M	80	GLU	C-N-CA	-7.94	112.40	121.85
1	A	491	ASP	CA-C-O	7.94	128.17	121.02
1	E	239	ILE	CA-CB-CG1	7.94	123.90	110.40
1	G	74	ALA	CA-C-N	7.94	136.71	121.54
1	G	74	ALA	C-N-CA	7.94	136.71	121.54
1	J	27	ALA	CA-C-N	7.94	128.96	119.99
1	J	27	ALA	C-N-CA	7.94	128.96	119.99
1	L	97	VAL	CA-C-O	-7.94	112.23	121.05
1	J	51	ASP	CA-C-N	7.94	130.92	120.28
1	J	51	ASP	C-N-CA	7.94	130.92	120.28
1	K	260	ASN	N-CA-C	7.94	123.07	113.23
1	D	336	GLU	O-C-N	-7.94	112.03	122.59
1	E	313	GLN	O-C-N	-7.94	112.82	122.19
1	K	121	VAL	CA-C-O	-7.94	110.67	121.15
1	L	120	VAL	CA-CB-CG2	-7.94	96.91	110.40
1	O	389	LEU	CA-C-O	-7.94	112.41	120.90
1	J	195	ILE	O-C-N	7.94	132.49	122.57
1	N	246	MET	N-CA-CB	7.94	123.81	110.32
1	N	218	ARG	CA-C-N	7.93	136.25	121.97
1	N	218	ARG	C-N-CA	7.93	136.25	121.97
1	F	65	LEU	CA-C-O	7.93	127.86	119.14
1	G	443	SER	CA-C-O	-7.93	110.18	119.78
1	N	111	LEU	O-C-N	-7.93	111.80	122.43
1	C	166	ALA	N-CA-CB	-7.93	99.07	110.57
1	H	291	ASP	CA-C-O	-7.93	111.14	120.10
1	L	454	PHE	CD1-CG-CD2	7.93	130.50	118.60
1	P	120	VAL	CA-C-O	-7.93	112.77	121.17
1	P	253	GLU	CA-C-N	7.93	131.68	120.42
1	P	253	GLU	C-N-CA	7.93	131.68	120.42
1	B	404	GLU	CA-CB-CG	7.93	129.96	114.10
1	D	83	LYS	CA-C-O	-7.93	112.74	120.90
1	F	48	LEU	CA-C-O	-7.93	113.15	121.87
1	I	41	PRO	CA-N-CD	-7.93	100.90	112.00
1	N	93	THR	CA-C-N	7.93	136.68	121.54
1	N	93	THR	C-N-CA	7.93	136.68	121.54
1	B	452	ASN	CA-C-N	7.92	133.62	120.62
1	B	452	ASN	C-N-CA	7.92	133.62	120.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	349	GLY	CA-C-N	7.92	138.91	121.80
1	G	349	GLY	C-N-CA	7.92	138.91	121.80
1	H	57	VAL	O-C-N	-7.92	113.83	123.10
1	H	374	GLU	CG-CD-OE1	7.92	136.63	118.40
1	K	145	GLN	CA-C-N	7.92	132.38	121.05
1	K	145	GLN	C-N-CA	7.92	132.38	121.05
1	M	309	ASP	CA-CB-CG	7.92	120.53	112.60
1	N	378	ILE	CA-C-O	7.92	130.47	121.28
1	O	222	GLN	CG-CD-OE1	7.92	136.65	120.80
1	P	112	ASP	CA-CB-CG	7.92	120.52	112.60
1	I	292	MET	N-CA-CB	7.92	121.47	109.91
1	K	11	ASN	N-CA-CB	7.92	123.88	110.49
1	K	422	LEU	CA-C-N	7.92	131.21	120.44
1	K	422	LEU	C-N-CA	7.92	131.21	120.44
1	B	188	VAL	N-CA-CB	7.92	124.30	111.23
1	D	205	ASP	O-C-N	-7.92	110.52	122.08
1	J	115	VAL	N-CA-CB	7.92	124.30	111.23
1	A	11	ASN	CA-C-O	-7.92	111.31	119.78
1	D	16	MET	N-CA-CB	7.92	122.61	110.49
1	L	24	ASN	CA-C-N	7.92	131.14	120.77
1	L	24	ASN	C-N-CA	7.92	131.14	120.77
1	H	291	ASP	CA-C-N	7.92	131.23	120.54
1	H	291	ASP	C-N-CA	7.92	131.23	120.54
1	K	113	GLN	OE1-CD-NE2	7.92	130.52	122.60
1	N	257	SER	O-C-N	-7.92	112.06	122.59
1	P	77	MET	CB-CA-C	7.92	124.51	110.81
1	D	150	LEU	CA-C-N	7.92	131.94	120.38
1	D	150	LEU	C-N-CA	7.92	131.94	120.38
1	A	420	ARG	O-C-N	7.91	130.64	122.09
1	A	453	VAL	CA-C-O	-7.91	112.72	120.95
1	C	67	GLU	N-CA-CB	7.91	121.45	109.98
1	F	44	MET	CA-C-N	7.91	136.66	121.54
1	F	44	MET	C-N-CA	7.91	136.66	121.54
1	J	450	GLY	CA-C-O	7.91	130.90	121.88
1	K	60	ASP	CA-CB-CG	7.91	120.51	112.60
1	K	83	LYS	CA-C-O	-7.91	109.19	120.51
1	L	131	ALA	N-CA-C	7.91	119.91	111.28
1	M	299	THR	N-CA-C	7.91	119.91	111.28
1	O	272	ALA	N-CA-C	7.91	123.11	113.38
1	N	274	HIS	N-CA-C	7.91	119.90	111.28
1	C	313	GLN	OE1-CD-NE2	7.91	130.51	122.60
1	C	461	MET	N-CA-CB	7.91	123.86	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	89	VAL	CA-CB-CG1	7.91	123.85	110.40
1	F	260	ASN	N-CA-CB	7.91	123.77	110.32
1	B	199	SER	CA-C-O	-7.91	113.17	121.55
1	I	365	ALA	CA-C-O	-7.91	110.28	119.61
1	J	277	ALA	CA-C-N	7.91	131.78	120.79
1	J	277	ALA	C-N-CA	7.91	131.78	120.79
1	N	210	LYS	CB-CG-CD	7.91	129.49	111.30
1	P	350	THR	CA-C-N	7.91	139.41	123.20
1	P	350	THR	C-N-CA	7.91	139.41	123.20
1	C	363	ASP	CA-C-N	7.91	131.09	120.65
1	C	363	ASP	C-N-CA	7.91	131.09	120.65
1	K	59	ASN	CA-C-N	7.91	132.81	121.50
1	K	59	ASN	C-N-CA	7.91	132.81	121.50
1	K	156	THR	N-CA-C	7.91	120.99	111.82
1	E	272	ALA	N-CA-CB	7.91	121.83	110.13
1	G	144	ALA	CA-C-O	-7.91	112.37	121.07
1	G	236	ASN	CA-C-O	7.91	129.05	120.20
1	G	459	GLU	OE1-CD-OE2	-7.91	103.92	122.90
1	K	141	GLU	N-CA-C	7.91	121.39	110.24
1	K	383	GLY	O-C-N	-7.91	112.42	122.70
1	M	122	LYS	N-CA-C	-7.91	103.78	113.19
1	P	448	CYS	N-CA-C	7.91	121.96	107.73
1	P	482	GLU	CB-CG-CD	7.91	126.04	112.60
1	G	211	GLY	CA-C-O	-7.90	106.82	120.57
1	K	450	GLY	CA-C-O	7.90	129.86	121.64
1	A	183	ASP	CA-C-N	7.90	133.58	122.36
1	A	183	ASP	C-N-CA	7.90	133.58	122.36
1	B	124	TYR	O-C-N	-7.90	111.84	122.43
1	L	93	THR	CA-CB-OG1	7.90	121.45	109.60
1	O	425	ASN	N-CA-CB	7.90	121.97	110.20
1	P	238	ALA	CA-C-O	-7.90	109.21	120.51
1	K	61	GLY	N-CA-C	7.90	124.45	114.66
1	L	277	ALA	O-C-N	-7.90	111.85	122.43
1	F	456	GLY	N-CA-C	7.90	131.89	113.18
1	E	154	ALA	CA-C-O	-7.89	112.51	120.80
1	K	339	HIS	CB-CG-ND1	7.89	134.54	122.70
1	M	197	LYS	CB-CA-C	-7.89	99.01	111.17
1	C	432	GLU	O-C-N	7.89	131.72	122.17
1	F	237	CYS	N-CA-CB	7.89	122.56	110.49
1	I	274	HIS	CB-CG-CD2	-7.89	120.94	131.20
1	O	252	ALA	O-C-N	-7.89	112.09	122.59
1	H	403	ARG	CA-C-O	-7.89	109.23	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	394	ARG	NE-CZ-NH2	-7.89	112.10	119.20
1	M	235	LEU	O-C-N	-7.89	113.96	123.27
1	P	348	ARG	CG-CD-NE	7.89	129.35	112.00
1	M	364	ASP	CA-C-N	7.89	131.19	120.54
1	M	364	ASP	C-N-CA	7.89	131.19	120.54
1	J	68	MET	O-C-N	-7.88	112.10	122.59
1	K	303	VAL	N-CA-CB	-7.88	102.07	110.82
1	L	98	VAL	N-CA-C	-7.88	103.12	110.53
1	M	433	ILE	CB-CA-C	-7.88	101.34	112.22
1	M	444	ASN	CA-C-N	7.88	134.98	121.97
1	M	444	ASN	C-N-CA	7.88	134.98	121.97
1	N	348	ARG	NH1-CZ-NH2	7.88	129.55	119.30
1	P	478	GLN	CA-C-N	7.88	133.22	120.60
1	P	478	GLN	C-N-CA	7.88	133.22	120.60
1	C	422	LEU	O-C-N	7.88	131.97	122.27
1	J	339	HIS	CB-CG-CD2	-7.88	120.95	131.20
1	P	316	GLY	O-C-N	7.88	133.25	122.84
1	D	467	VAL	CA-CB-CG1	7.88	123.80	110.40
1	M	36	ARG	NE-CZ-NH1	-7.88	113.62	121.50
1	M	84	THR	N-CA-CB	7.88	122.50	110.44
1	B	440	ALA	N-CA-C	-7.88	102.58	112.90
1	E	357	GLU	CA-C-O	-7.88	110.91	119.97
1	I	348	ARG	NE-CZ-NH2	-7.88	112.11	119.20
1	N	400	ILE	N-CA-C	7.88	118.46	110.82
1	O	212	VAL	CA-C-O	7.88	129.31	121.19
1	O	385	THR	CB-CA-C	7.88	126.46	110.38
1	B	120	VAL	O-C-N	7.88	132.42	122.57
1	C	16	MET	CA-CB-CG	7.88	129.85	114.10
1	E	190	LYS	N-CA-C	7.88	127.58	110.80
1	H	341	LYS	O-C-N	-7.88	113.00	122.22
1	K	213	LEU	O-C-N	-7.88	114.13	123.27
1	K	279	GLU	N-CA-CB	7.88	121.62	110.67
1	O	304	ILE	CA-C-N	7.88	136.59	121.54
1	O	304	ILE	C-N-CA	7.88	136.59	121.54
1	A	129	GLN	N-CA-C	7.88	119.87	111.28
1	D	430	ALA	O-C-N	-7.88	111.17	122.36
1	E	213	LEU	CA-C-O	-7.88	112.35	120.54
1	L	172	GLU	CB-CA-C	7.88	123.34	110.90
1	M	28	GLY	CA-C-N	7.88	130.68	120.44
1	M	28	GLY	C-N-CA	7.88	130.68	120.44
1	M	495	ALA	N-CA-C	7.88	122.06	110.17
1	O	35	VAL	O-C-N	-7.88	113.92	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	31	ILE	CB-CA-C	7.88	124.21	111.29
1	P	378	ILE	O-C-N	-7.88	114.67	123.10
1	D	470	LEU	N-CA-CB	7.88	122.11	110.53
1	K	324	ARG	CA-C-O	-7.88	112.03	120.46
1	L	353	HIS	CG-CD2-NE2	-7.88	99.33	107.20
1	M	39	LEU	CB-CA-C	7.88	122.07	110.26
1	G	323	GLU	CA-C-N	7.87	133.08	122.84
1	G	323	GLU	C-N-CA	7.87	133.08	122.84
1	H	229	ASP	CA-C-O	7.87	129.00	120.58
1	I	438	ARG	NH1-CZ-NH2	7.87	129.53	119.30
1	G	322	GLU	CA-CB-CG	7.87	129.84	114.10
1	J	495	ALA	CA-C-O	-7.87	112.08	121.60
1	A	421	THR	CA-C-O	7.87	128.89	120.55
1	D	244	SER	CA-C-N	7.87	136.57	121.54
1	D	244	SER	C-N-CA	7.87	136.57	121.54
1	D	118	THR	N-CA-CB	7.87	124.27	110.42
1	F	172	GLU	CB-CG-CD	-7.87	99.22	112.60
1	J	141	GLU	N-CA-CB	7.87	121.73	109.69
1	L	216	LYS	CB-CG-CD	7.87	129.40	111.30
1	N	203	ILE	O-C-N	-7.87	112.73	122.57
1	P	346	LEU	CA-C-N	-7.87	112.59	123.13
1	P	346	LEU	C-N-CA	-7.87	112.59	123.13
1	O	317	ASP	CA-CB-CG	7.87	120.47	112.60
1	I	58	THR	N-CA-CB	-7.87	99.37	111.56
1	K	105	ARG	NH1-CZ-NH2	-7.87	109.07	119.30
1	O	397	ALA	CA-C-O	-7.87	110.51	119.79
1	A	236	ASN	CA-C-N	7.86	136.68	122.92
1	A	236	ASN	C-N-CA	7.86	136.68	122.92
1	F	489	ARG	O-C-N	-7.86	112.13	122.59
1	J	303	VAL	N-CA-C	7.86	119.99	109.37
1	O	155	MET	O-C-N	7.86	130.49	122.08
1	P	240	GLU	CG-CD-OE1	7.86	136.49	118.40
1	H	330	SER	CA-C-N	7.86	135.47	122.73
1	H	330	SER	C-N-CA	7.86	135.47	122.73
1	D	256	ALA	N-CA-CB	7.86	123.21	110.40
1	G	180	ALA	O-C-N	-7.86	110.72	122.20
1	H	315	LEU	CD1-CG-CD2	7.86	128.09	110.80
1	K	413	ASP	CA-C-O	7.86	129.00	119.49
1	A	216	LYS	N-CA-C	7.86	122.81	110.32
1	H	317	ASP	N-CA-CB	7.86	122.91	110.65
1	L	153	ILE	N-CA-C	7.86	118.40	110.23
1	L	161	LYS	O-C-N	-7.86	114.45	123.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	462	CYS	O-C-N	7.86	133.04	122.59
1	C	136	LYS	CA-C-O	-7.86	109.27	120.51
1	F	47	MET	CA-C-O	-7.86	111.44	121.11
1	F	231	LYS	CB-CA-C	7.86	123.31	111.76
1	G	190	LYS	CA-C-O	7.86	131.75	120.51
1	H	268	ILE	O-C-N	-7.86	114.59	123.00
1	H	354	VAL	CA-CB-CG1	7.86	123.76	110.40
1	I	410	ALA	CA-C-N	-7.86	110.31	122.49
1	I	410	ALA	C-N-CA	-7.86	110.31	122.49
1	J	13	LYS	N-CA-CB	-7.86	97.16	110.83
1	K	117	PRO	CA-C-N	7.86	132.25	120.31
1	K	117	PRO	C-N-CA	7.86	132.25	120.31
1	L	463	GLU	O-C-N	-7.86	112.13	122.42
1	M	301	ALA	CA-C-O	-7.86	109.27	120.51
1	O	339	HIS	CB-CG-CD2	-7.86	120.98	131.20
1	I	74	ALA	O-C-N	-7.86	113.55	122.03
1	B	453	VAL	CB-CA-C	-7.85	100.58	112.05
1	N	204	ASP	N-CA-CB	7.85	123.76	110.49
1	O	136	LYS	O-C-N	-7.85	113.25	122.20
1	E	57	VAL	O-C-N	-7.85	114.78	123.26
1	M	34	THR	N-CA-CB	7.85	123.76	110.49
1	P	156	THR	OG1-CB-CG2	7.85	125.00	109.30
1	C	142	VAL	CA-CB-CG2	7.85	123.75	110.40
1	D	180	ALA	CA-C-N	7.85	134.06	121.34
1	D	180	ALA	C-N-CA	7.85	134.06	121.34
1	K	341	LYS	N-CA-CB	7.85	121.03	110.59
1	C	216	LYS	CA-C-N	7.85	136.86	122.02
1	C	216	LYS	C-N-CA	7.85	136.86	122.02
1	D	215	ASP	CA-C-O	-7.85	111.44	121.17
1	E	267	GLY	CA-C-O	-7.85	106.91	120.57
1	F	24	ASN	CA-CB-CG	-7.85	104.75	112.60
1	K	228	THR	CA-C-N	-7.85	111.28	123.13
1	K	228	THR	C-N-CA	-7.85	111.28	123.13
1	O	254	ILE	CA-C-O	-7.85	110.12	119.85
1	J	266	LYS	CA-C-O	-7.85	107.46	120.80
1	K	437	VAL	CA-C-O	-7.85	112.53	120.85
1	B	276	LEU	N-CA-C	7.85	121.79	111.75
1	H	285	ARG	NH1-CZ-NH2	-7.85	109.10	119.30
1	K	228	THR	CB-CA-C	7.85	126.03	110.42
1	K	455	THR	N-CA-CB	7.85	122.10	110.33
1	E	468	GLU	CA-C-N	7.84	129.64	119.84
1	E	468	GLU	C-N-CA	7.84	129.64	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	420	ARG	CA-C-O	7.84	129.24	121.00
1	D	222	GLN	OE1-CD-NE2	-7.84	114.76	122.60
1	E	343	VAL	CA-CB-CG2	7.84	123.73	110.40
1	G	348	ARG	NH1-CZ-NH2	7.84	129.49	119.30
1	L	288	LYS	O-C-N	-7.84	113.43	122.68
1	P	355	ILE	CB-CA-C	-7.84	101.65	111.92
1	E	438	ARG	CA-C-O	-7.84	111.85	121.02
1	J	477	ILE	CA-C-O	-7.84	111.69	119.92
1	M	103	LEU	CA-C-O	-7.84	109.30	120.51
1	G	203	ILE	CA-C-N	7.84	135.82	122.26
1	G	203	ILE	C-N-CA	7.84	135.82	122.26
1	G	333	PHE	CD1-CE1-CZ	7.84	134.11	120.00
1	J	468	GLU	N-CA-C	7.84	121.61	110.40
1	K	496	ALA	CA-C-O	-7.84	109.30	120.51
1	E	267	GLY	CA-C-N	-7.83	111.39	122.75
1	E	267	GLY	C-N-CA	-7.83	111.39	122.75
1	O	145	GLN	CA-C-N	7.83	132.25	121.05
1	O	145	GLN	C-N-CA	7.83	132.25	121.05
1	E	54	ASP	OD1-CG-OD2	-7.83	104.11	122.90
1	E	399	GLY	O-C-N	7.83	132.88	122.70
1	L	371	CYS	N-CA-C	7.83	120.27	109.54
1	M	143	GLY	N-CA-C	-7.83	100.57	113.02
1	P	295	LEU	CA-C-N	7.83	131.41	120.29
1	P	295	LEU	C-N-CA	7.83	131.41	120.29
1	D	149	ILE	O-C-N	-7.83	113.04	122.12
1	F	239	ILE	CA-CB-CG2	7.83	123.81	110.50
1	O	188	VAL	CA-C-N	7.83	133.81	122.77
1	O	188	VAL	C-N-CA	7.83	133.81	122.77
1	E	151	THR	CA-CB-OG1	7.83	121.34	109.60
1	F	302	ASN	CB-CA-C	7.83	122.87	110.19
1	I	430	ALA	CA-C-N	7.83	131.57	120.53
1	I	430	ALA	C-N-CA	7.83	131.57	120.53
1	N	398	GLU	O-C-N	7.83	132.84	122.43
1	D	73	PRO	N-CA-CB	-7.83	95.03	103.25
1	D	238	ALA	CA-C-O	-7.83	109.32	120.51
1	G	25	ILE	CA-C-O	7.83	130.56	120.78
1	O	217	GLU	CB-CA-C	-7.83	96.43	110.36
1	P	225	LYS	O-C-N	-7.83	110.65	122.08
1	P	267	GLY	CA-C-N	-7.83	111.47	121.96
1	P	267	GLY	C-N-CA	-7.83	111.47	121.96
1	F	216	LYS	CA-C-N	7.82	137.79	122.07
1	F	216	LYS	C-N-CA	7.82	137.79	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	232	ILE	O-C-N	7.82	130.94	122.57
1	B	136	LYS	N-CA-C	7.82	127.46	110.80
1	G	346	LEU	CA-C-N	7.82	136.05	121.97
1	G	346	LEU	C-N-CA	7.82	136.05	121.97
1	H	101	GLY	N-CA-C	7.82	122.78	112.77
1	H	385	THR	CA-C-N	7.82	133.55	120.88
1	H	385	THR	C-N-CA	7.82	133.55	120.88
1	H	470	LEU	CB-CA-C	7.82	123.26	109.65
1	K	58	THR	CA-C-O	-7.82	111.22	120.60
1	P	229	ASP	CA-C-N	7.82	136.48	121.54
1	P	229	ASP	C-N-CA	7.82	136.48	121.54
1	E	256	ALA	CA-C-O	-7.82	109.33	120.51
1	I	462	CYS	O-C-N	-7.82	112.71	122.17
1	K	497	GLU	N-CA-CB	7.82	123.79	110.50
1	P	294	LYS	CB-CA-C	7.82	124.14	110.85
1	A	320	LEU	O-C-N	7.82	132.56	123.41
1	J	130	LYS	CA-C-O	-7.82	112.13	120.42
1	J	285	ARG	CA-C-O	-7.82	112.06	121.28
1	N	339	HIS	ND1-CG-CD2	-7.82	98.28	106.10
1	N	486	MET	CA-C-O	-7.82	109.33	120.51
1	E	411	PHE	CA-CB-CG	7.82	121.61	113.80
1	H	15	TYR	N-CA-CB	7.82	123.81	110.68
1	H	188	VAL	CA-C-O	-7.82	111.01	120.78
1	I	34	THR	CA-C-O	7.82	129.67	121.07
1	A	248	LYS	N-CA-C	-7.81	103.70	113.55
1	B	192	LEU	CA-C-O	-7.81	112.54	120.90
1	G	12	MET	CA-C-O	-7.81	109.34	120.51
1	I	326	ILE	CB-CA-C	7.81	122.53	110.50
1	K	339	HIS	CA-C-O	-7.81	109.46	120.16
1	O	118	THR	O-C-N	7.81	132.98	122.59
1	E	42	LYS	CA-C-N	7.81	127.42	119.92
1	E	42	LYS	C-N-CA	7.81	127.42	119.92
1	E	138	ILE	N-CA-CB	7.81	124.12	111.23
1	E	442	ALA	N-CA-C	7.81	122.24	112.87
1	J	19	ASP	O-C-N	-7.81	113.13	122.11
1	J	124	TYR	CG-CD1-CE1	7.81	132.91	121.20
1	N	476	ALA	N-CA-C	7.81	119.79	111.28
1	B	495	ALA	O-C-N	-7.81	114.01	123.30
1	H	496	ALA	CB-CA-C	7.81	125.96	110.42
1	M	352	GLU	CA-C-O	-7.81	109.34	120.51
1	C	416	GLU	O-C-N	-7.81	112.88	122.25
1	I	399	GLY	CA-C-O	-7.81	106.99	120.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	114	ASN	CA-C-O	-7.81	111.32	121.08
1	A	13	LYS	N-CA-C	7.80	121.55	110.23
1	C	358	VAL	N-CA-CB	7.80	122.79	110.54
1	K	479	SER	CA-C-O	-7.80	111.46	120.20
1	M	480	ALA	N-CA-C	7.80	120.54	111.02
1	D	86	GLU	N-CA-CB	7.80	121.71	110.16
1	E	459	GLU	CA-C-O	-7.80	112.33	121.46
1	J	487	LEU	CA-C-O	-7.80	109.35	120.51
1	O	450	GLY	CA-C-O	7.80	130.11	121.92
1	P	478	GLN	CA-CB-CG	7.80	129.71	114.10
1	A	405	GLN	CB-CA-C	-7.80	98.86	110.95
1	B	303	VAL	CB-CA-C	7.80	121.29	111.15
1	C	205	ASP	CA-C-N	7.80	131.82	120.82
1	C	205	ASP	C-N-CA	7.80	131.82	120.82
1	D	66	ARG	NE-CZ-NH1	-7.80	113.70	121.50
1	G	203	ILE	CA-C-O	-7.80	111.03	120.78
1	J	454	PHE	CG-CD2-CE2	-7.80	107.44	120.70
1	P	389	LEU	CA-C-N	7.80	131.63	120.79
1	P	389	LEU	C-N-CA	7.80	131.63	120.79
1	D	205	ASP	CB-CA-C	-7.80	101.44	111.50
1	G	84	THR	O-C-N	-7.80	112.09	122.23
1	J	185	GLU	N-CA-C	7.80	127.41	110.80
1	L	452	ASN	O-C-N	7.80	132.53	122.93
1	O	255	LYS	O-C-N	-7.80	111.78	122.46
1	P	417	VAL	CA-C-O	-7.80	110.59	120.03
1	D	41	PRO	CA-N-CD	-7.80	101.08	112.00
1	O	243	ALA	CA-C-O	-7.80	109.36	120.51
1	B	191	ASP	CA-C-N	7.80	131.07	120.54
1	B	191	ASP	C-N-CA	7.80	131.07	120.54
1	B	292	MET	N-CA-CB	7.80	121.28	109.98
1	C	278	LYS	O-C-N	-7.80	113.06	122.11
1	J	457	ALA	CB-CA-C	-7.80	94.91	110.42
1	M	182	VAL	CB-CA-C	-7.80	100.30	110.98
1	B	83	LYS	CA-C-O	-7.79	109.37	120.51
1	C	312	ALA	CA-C-O	-7.79	111.13	120.56
1	K	359	ALA	O-C-N	7.79	131.63	122.20
1	A	352	GLU	CA-C-N	7.79	130.57	120.44
1	A	352	GLU	C-N-CA	7.79	130.57	120.44
1	A	460	ASP	CA-CB-CG	7.79	120.39	112.60
1	G	93	THR	CA-CB-OG1	7.79	121.29	109.60
1	H	469	PRO	N-CA-CB	7.79	112.88	103.45
1	K	273	GLN	CA-C-O	-7.79	110.16	119.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	338	LYS	CA-C-N	7.79	131.62	122.89
1	M	338	LYS	C-N-CA	7.79	131.62	122.89
1	O	385	THR	CA-C-O	7.79	128.98	119.79
1	A	110	LEU	N-CA-C	7.79	121.29	111.24
1	M	189	ASP	O-C-N	-7.79	114.34	123.22
1	E	100	ALA	CA-C-O	-7.79	110.49	119.60
1	F	353	HIS	O-C-N	7.79	131.03	122.15
1	G	333	PHE	CE1-CZ-CE2	-7.79	105.98	120.00
1	P	215	ASP	N-CA-CB	7.79	123.65	110.49
1	B	36	ARG	NE-CZ-NH2	7.79	126.21	119.20
1	O	424	GLU	CA-C-O	-7.79	112.17	120.42
1	G	298	ALA	CA-C-O	-7.79	109.38	120.51
1	H	151	THR	O-C-N	7.79	132.86	122.43
1	I	254	ILE	O-C-N	-7.79	112.84	122.57
1	J	86	GLU	CA-C-O	-7.79	109.38	120.51
1	C	369	VAL	CA-CB-CG2	7.78	123.63	110.40
1	G	451	LEU	N-CA-CB	7.78	123.64	110.49
1	M	248	LYS	N-CA-C	7.78	120.85	111.82
1	O	23	MET	CA-C-N	7.78	130.56	120.44
1	O	23	MET	C-N-CA	7.78	130.56	120.44
1	J	202	SER	O-C-N	-7.78	112.24	122.59
1	J	375	ASP	O-C-N	-7.78	114.55	123.42
1	M	246	MET	N-CA-CB	7.78	122.46	109.78
1	P	13	LYS	CA-C-N	7.78	133.74	122.77
1	P	13	LYS	C-N-CA	7.78	133.74	122.77
1	A	403	ARG	N-CA-CB	7.78	121.79	110.20
1	B	378	ILE	O-C-N	-7.78	114.67	123.07
1	J	117	PRO	O-C-N	7.78	132.26	122.22
1	O	107	ALA	CA-C-O	-7.78	112.58	120.90
1	G	73	PRO	N-CA-CB	-7.78	94.73	103.44
1	G	419	PRO	CA-C-N	7.78	131.21	120.63
1	G	419	PRO	C-N-CA	7.78	131.21	120.63
1	P	465	GLY	N-CA-C	7.78	131.62	113.18
1	B	29	ARG	CA-C-N	7.78	130.96	120.77
1	B	29	ARG	C-N-CA	7.78	130.96	120.77
1	C	25	ILE	N-CA-C	-7.78	103.28	110.82
1	F	407	ALA	CA-C-O	-7.78	110.59	120.31
1	G	307	ILE	N-CA-C	7.78	125.52	109.34
1	L	85	GLN	CA-C-N	7.78	130.70	120.28
1	L	85	GLN	C-N-CA	7.78	130.70	120.28
1	P	111	LEU	CA-C-O	-7.78	109.39	120.51
1	C	276	LEU	N-CA-CB	7.78	121.67	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	117	PRO	CA-C-O	7.78	134.75	120.60
1	P	378	ILE	CB-CG1-CD1	7.78	130.13	113.80
1	B	22	ARG	NE-CZ-NH1	-7.77	113.73	121.50
1	M	29	ARG	N-CA-C	7.77	119.39	111.07
1	K	446	ASN	CA-C-N	7.77	133.87	120.58
1	K	446	ASN	C-N-CA	7.77	133.87	120.58
1	G	60	ASP	O-C-N	-7.77	112.28	122.77
1	G	256	ALA	CB-CA-C	7.77	123.17	110.90
1	H	494	ILE	CA-CB-CG2	7.77	123.71	110.50
1	L	270	ASP	CA-C-O	-7.77	106.77	118.65
1	P	231	LYS	O-C-N	-7.77	114.41	122.64
1	P	489	ARG	NE-CZ-NH1	7.77	129.27	121.50
1	P	61	GLY	N-CA-C	7.77	131.59	113.18
1	A	495	ALA	O-C-N	-7.76	113.06	123.15
1	L	373	ILE	CA-CB-CG1	7.76	123.60	110.40
1	P	220	SER	CA-C-N	7.76	136.37	121.54
1	P	220	SER	C-N-CA	7.76	136.37	121.54
1	A	460	ASP	CB-CG-OD2	7.76	136.26	118.40
1	I	431	ILE	CA-CB-CG2	7.76	123.70	110.50
1	O	51	ASP	N-CA-C	7.76	127.34	110.80
1	B	156	THR	N-CA-CB	7.76	124.15	110.18
1	C	56	VAL	O-C-N	-7.76	115.98	122.97
1	H	404	GLU	N-CA-C	7.76	119.74	111.28
1	N	131	ALA	CA-C-N	7.76	133.45	120.88
1	N	131	ALA	C-N-CA	7.76	133.45	120.88
1	O	353	HIS	CA-CB-CG	-7.76	106.04	113.80
1	A	187	LYS	CB-CA-C	7.76	125.86	110.42
1	C	496	ALA	N-CA-C	7.76	127.33	110.80
1	H	327	SER	CA-C-O	-7.76	109.42	119.59
1	I	71	GLU	O-C-N	-7.76	112.55	122.09
1	J	416	GLU	O-C-N	-7.76	111.93	122.33
1	O	472	VAL	N-CA-C	7.76	117.71	110.42
1	C	333	PHE	CB-CG-CD2	7.76	133.89	120.70
1	M	177	ALA	O-C-N	-7.76	111.34	122.36
1	A	313	GLN	N-CA-C	7.76	122.65	112.72
1	A	453	VAL	O-C-N	7.76	129.39	121.87
1	B	411	PHE	CD1-CG-CD2	-7.76	106.97	118.60
1	D	26	LEU	CA-C-O	-7.76	112.23	120.92
1	L	72	HIS	CA-C-N	7.76	127.47	119.56
1	L	72	HIS	C-N-CA	7.76	127.47	119.56
1	H	114	ASN	OD1-CG-ND2	-7.75	114.84	122.60
1	J	42	LYS	N-CA-C	7.75	122.18	112.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	38	THR	N-CA-CB	7.75	123.60	110.49
1	K	359	ALA	CA-C-N	7.75	136.35	121.54
1	K	359	ALA	C-N-CA	7.75	136.35	121.54
1	L	124	TYR	O-C-N	-7.75	113.15	122.22
1	N	110	LEU	CD1-CG-CD2	7.75	127.86	110.80
1	A	92	GLY	CA-C-N	7.75	130.52	120.44
1	A	92	GLY	C-N-CA	7.75	130.52	120.44
1	N	108	GLU	CA-CB-CG	7.75	129.60	114.10
1	C	256	ALA	CA-C-O	-7.75	111.06	119.97
1	E	110	LEU	CA-C-O	7.75	131.60	120.51
1	J	440	ALA	O-C-N	7.75	132.72	122.33
1	N	297	LYS	CA-CB-CG	7.75	129.60	114.10
1	P	119	ILE	CA-C-N	7.75	130.33	120.56
1	P	119	ILE	C-N-CA	7.75	130.33	120.56
1	B	33	GLU	CA-C-O	-7.75	112.26	120.63
1	D	439	ALA	CA-C-O	-7.75	111.06	119.97
1	A	286	ARG	CA-CB-CG	7.75	129.60	114.10
1	A	309	ASP	CB-CG-OD1	7.75	136.22	118.40
1	D	132	GLN	CA-C-N	7.75	131.29	120.29
1	D	132	GLN	C-N-CA	7.75	131.29	120.29
1	G	146	ASP	CA-C-O	-7.75	112.01	120.92
1	H	100	ALA	CA-C-O	-7.75	110.62	120.31
1	H	165	LYS	O-C-N	7.75	132.90	122.59
1	L	7	VAL	CB-CA-C	-7.75	96.68	111.40
1	N	424	GLU	CA-C-O	-7.75	109.43	120.51
1	A	428	LEU	O-C-N	-7.75	112.29	122.59
1	D	489	ARG	CD-NE-CZ	7.75	135.25	124.40
1	G	10	GLU	CB-CG-CD	7.75	125.77	112.60
1	M	220	SER	O-C-N	7.75	132.15	123.01
1	B	401	SER	N-CA-CB	7.75	123.58	110.49
1	M	64	ILE	O-C-N	-7.75	112.89	122.57
1	M	462	CYS	N-CA-CB	7.75	123.58	110.49
1	P	198	LYS	CB-CA-C	-7.75	101.03	110.94
1	B	307	ILE	N-CA-CB	7.74	124.01	111.23
1	K	448	CYS	N-CA-C	7.74	123.25	107.69
1	G	316	GLY	CA-C-N	7.74	133.85	122.39
1	G	316	GLY	C-N-CA	7.74	133.85	122.39
1	H	351	THR	N-CA-CB	7.74	123.09	110.55
1	H	459	GLU	CA-C-O	-7.74	113.17	121.45
1	P	478	GLN	N-CA-CB	7.74	121.09	110.10
1	A	471	ARG	CA-CB-CG	7.74	129.58	114.10
1	B	348	ARG	N-CA-C	7.74	127.29	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	68	MET	CB-CA-C	-7.74	98.80	111.50
1	H	224	PRO	CB-CA-C	7.74	124.33	111.56
1	I	12	MET	CB-CA-C	-7.74	98.39	110.78
1	K	49	VAL	O-C-N	-7.74	114.13	123.03
1	P	112	ASP	CB-CA-C	7.74	122.79	109.24
1	P	117	PRO	O-C-N	7.74	133.09	122.64
1	E	153	ILE	CB-CA-C	7.74	123.35	112.05
1	G	280	GLY	CA-C-N	7.74	132.81	122.90
1	G	280	GLY	C-N-CA	7.74	132.81	122.90
1	N	305	THR	O-C-N	-7.74	112.30	122.59
1	C	107	ALA	N-CA-C	-7.74	103.10	112.54
1	D	280	GLY	CA-C-O	-7.74	110.38	118.97
1	E	43	GLY	N-CA-C	7.74	120.41	111.36
1	F	253	GLU	CA-C-N	7.74	133.33	120.64
1	F	253	GLU	C-N-CA	7.74	133.33	120.64
1	H	369	VAL	O-C-N	7.74	132.24	122.57
1	L	190	LYS	CA-C-N	7.74	131.42	120.28
1	L	190	LYS	C-N-CA	7.74	131.42	120.28
1	N	122	LYS	O-C-N	-7.74	112.14	122.43
1	O	136	LYS	CA-C-O	-7.74	111.54	120.20
1	E	291	ASP	CA-C-N	7.73	132.06	120.31
1	E	291	ASP	C-N-CA	7.73	132.06	120.31
1	I	468	GLU	CA-C-N	7.73	127.64	120.21
1	I	468	GLU	C-N-CA	7.73	127.64	120.21
1	A	218	ARG	CA-C-O	-7.73	112.92	121.58
1	G	291	ASP	CA-CB-CG	7.73	120.33	112.60
1	H	39	LEU	N-CA-C	7.73	121.72	110.28
1	L	454	PHE	CG-CD2-CE2	-7.73	107.55	120.70
1	P	229	ASP	CA-C-O	7.73	130.87	122.13
1	F	263	PHE	O-C-N	-7.73	112.92	123.12
1	G	431	ILE	N-CA-CB	7.73	123.87	110.65
1	I	97	VAL	CG1-CB-CG2	7.73	127.81	110.80
1	K	14	ARG	N-CA-C	7.73	121.84	109.24
1	M	353	HIS	CB-CG-ND1	-7.73	111.10	122.70
1	F	374	GLU	CA-C-N	7.73	133.89	122.99
1	F	374	GLU	C-N-CA	7.73	133.89	122.99
1	H	401	SER	CA-CB-OG	7.73	126.56	111.10
1	J	272	ALA	CA-C-N	7.73	131.53	120.79
1	J	272	ALA	C-N-CA	7.73	131.53	120.79
1	K	291	ASP	CA-C-N	7.73	130.95	120.44
1	K	291	ASP	C-N-CA	7.73	130.95	120.44
1	N	453	VAL	CA-C-N	-7.73	110.45	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	453	VAL	C-N-CA	-7.73	110.45	120.65
1	P	94	THR	N-CA-C	-7.73	102.86	111.28
1	F	438	ARG	NE-CZ-NH2	-7.73	112.25	119.20
1	G	432	GLU	N-CA-CB	7.73	121.21	110.01
1	H	72	HIS	CA-C-O	7.73	126.20	119.71
1	A	58	THR	CA-C-O	7.72	129.54	120.43
1	C	55	VAL	N-CA-C	7.72	118.98	108.17
1	F	437	VAL	CA-C-O	-7.72	112.22	121.18
1	I	45	ASP	CA-CB-CG	-7.72	104.88	112.60
1	I	219	VAL	O-C-N	7.72	132.22	122.57
1	K	34	THR	N-CA-CB	7.72	123.54	110.49
1	M	156	THR	CA-C-O	7.72	129.09	119.05
1	O	378	ILE	CA-C-O	-7.72	112.47	120.27
1	O	443	SER	CB-CA-C	7.72	125.79	110.42
1	B	360	ARG	CA-C-O	-7.72	110.79	119.67
1	H	242	THR	CA-C-O	-7.72	109.47	120.51
1	N	380	SER	O-C-N	-7.72	113.52	123.02
1	O	30	ILE	CA-CB-CG1	7.72	123.53	110.40
1	B	341	LYS	CA-CB-CG	7.72	129.54	114.10
1	A	454	PHE	CD1-CE1-CZ	-7.72	106.11	120.00
1	H	91	ASP	CA-CB-CG	7.72	120.32	112.60
1	P	290	SER	N-CA-CB	7.72	123.54	110.49
1	A	484	THR	CB-CA-C	7.72	124.78	110.11
1	K	201	ALA	CA-C-O	-7.72	109.47	120.51
1	A	72	HIS	N-CA-CB	7.72	124.11	110.37
1	M	153	ILE	CA-C-N	7.72	130.62	120.28
1	M	153	ILE	C-N-CA	7.72	130.62	120.28
1	N	441	HIS	CA-CB-CG	7.72	121.52	113.80
1	O	159	THR	CA-CB-CG2	7.72	123.62	110.50
1	D	236	ASN	CA-C-O	-7.71	110.72	118.97
1	D	369	VAL	CB-CA-C	7.71	123.94	111.29
1	J	210	LYS	CA-CB-CG	7.71	129.53	114.10
1	J	221	ALA	N-CA-CB	-7.71	98.32	110.28
1	O	173	ILE	O-C-N	-7.71	112.93	122.57
1	P	166	ALA	O-C-N	-7.71	111.72	122.37
1	G	66	ARG	N-CA-CB	-7.71	98.62	110.42
1	D	347	ILE	N-CA-CB	7.71	121.48	112.15
1	H	195	ILE	CA-C-O	-7.71	111.14	120.78
1	I	215	ASP	O-C-N	-7.71	110.73	122.61
1	I	354	VAL	CA-CB-CG2	7.71	123.51	110.40
1	O	50	ASP	CA-CB-CG	-7.71	104.89	112.60
1	B	15	TYR	N-CA-CB	7.71	124.14	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	157	SER	O-C-N	7.71	131.83	122.35
1	H	382	GLY	CA-C-O	-7.71	107.16	120.57
1	I	188	VAL	N-CA-CB	7.71	123.95	111.23
1	I	292	MET	O-C-N	-7.71	114.01	122.03
1	P	301	ALA	CA-C-O	-7.71	112.67	121.15
1	M	199	SER	CA-C-O	7.71	129.36	120.96
1	N	246	MET	CA-CB-CG	7.71	129.52	114.10
1	A	56	VAL	N-CA-C	7.71	120.19	107.24
1	E	144	ALA	O-C-N	-7.71	114.13	122.07
1	F	23	MET	N-CA-C	7.71	120.66	111.33
1	J	247	LEU	O-C-N	7.71	130.29	122.12
1	L	26	LEU	CA-C-N	7.71	130.46	120.44
1	L	26	LEU	C-N-CA	7.71	130.46	120.44
1	P	248	LYS	CA-C-O	-7.71	112.96	120.90
1	C	306	ASN	OD1-CG-ND2	-7.71	114.89	122.60
1	H	16	MET	O-C-N	-7.70	112.34	122.59
1	I	114	ASN	CB-CG-OD1	7.70	136.21	120.80
1	K	333	PHE	CA-CB-CG	-7.70	106.10	113.80
1	O	359	ALA	CA-C-O	-7.70	110.15	119.32
1	P	283	ALA	CA-C-N	7.70	134.54	123.14
1	P	283	ALA	C-N-CA	7.70	134.54	123.14
1	G	305	THR	CA-CB-OG1	7.70	121.15	109.60
1	O	56	VAL	CA-CB-CG1	7.70	123.49	110.40
1	F	13	LYS	CA-C-O	-7.70	111.99	120.38
1	F	362	VAL	CA-CB-CG1	7.70	123.49	110.40
1	L	123	GLY	CA-C-N	7.70	131.37	120.28
1	L	123	GLY	C-N-CA	7.70	131.37	120.28
1	M	141	GLU	N-CA-CB	7.70	121.91	109.28
1	O	236	ASN	CA-C-O	7.70	130.47	120.07
1	P	9	PRO	N-CA-C	-7.70	96.61	112.47
1	A	62	VAL	O-C-N	-7.70	112.95	122.57
1	B	172	GLU	CG-CD-OE2	7.70	136.10	118.40
1	G	292	MET	O-C-N	-7.70	113.96	122.12
1	H	325	LYS	N-CA-CB	7.70	122.22	109.60
1	I	342	ALA	O-C-N	-7.70	112.36	122.59
1	J	304	ILE	CA-C-O	-7.70	114.33	121.72
1	N	22	ARG	NE-CZ-NH2	7.70	126.13	119.20
1	A	87	LYS	O-C-N	7.69	130.28	122.12
1	B	38	THR	CA-CB-OG1	7.69	121.14	109.60
1	G	69	SER	CA-C-O	-7.69	109.51	120.51
1	H	105	ARG	CA-C-N	7.69	131.36	120.28
1	H	105	ARG	C-N-CA	7.69	131.36	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	350	THR	CB-CA-C	-7.69	95.57	110.11
1	M	241	GLU	N-CA-C	-7.69	97.68	109.14
1	M	474	THR	N-CA-CB	7.69	121.16	110.01
1	N	261	VAL	N-CA-C	-7.69	98.19	108.35
1	N	464	ASN	CA-C-O	-7.69	109.36	120.13
1	P	182	VAL	N-CA-C	7.69	119.75	109.37
1	C	181	VAL	N-CA-CB	7.69	122.11	110.58
1	D	72	HIS	CB-CG-CD2	-7.69	121.20	131.20
1	E	368	VAL	N-CA-C	7.69	125.33	109.34
1	L	253	GLU	O-C-N	-7.69	111.44	122.36
1	N	320	LEU	N-CA-CB	7.69	123.28	110.59
1	P	98	VAL	CA-C-O	-7.69	113.41	121.41
1	B	40	GLY	CA-C-N	7.69	129.45	119.84
1	B	40	GLY	C-N-CA	7.69	129.45	119.84
1	C	107	ALA	N-CA-CB	7.69	123.15	110.39
1	C	136	LYS	N-CA-C	7.69	127.18	110.80
1	D	164	GLU	CA-C-N	7.69	136.22	121.54
1	D	164	GLU	C-N-CA	7.69	136.22	121.54
1	M	187	LYS	O-C-N	-7.69	114.72	123.48
1	N	421	THR	CA-CB-CG2	7.69	123.57	110.50
1	O	18	ARG	CA-C-O	-7.69	112.82	120.89
1	O	432	GLU	N-CA-CB	7.69	121.65	110.20
1	D	344	THR	CA-C-O	7.69	130.58	121.36
1	E	46	LYS	CA-C-O	-7.69	109.83	120.21
1	I	106	LYS	O-C-N	-7.69	112.13	122.43
1	A	79	ILE	CA-C-O	7.68	128.93	120.71
1	B	451	LEU	O-C-N	-7.68	112.45	122.83
1	C	119	ILE	N-CA-C	-7.68	103.44	111.58
1	C	494	ILE	CA-C-O	-7.68	111.66	120.65
1	P	259	ALA	CA-C-N	7.68	136.29	122.38
1	P	259	ALA	C-N-CA	7.68	136.29	122.38
1	L	430	ALA	N-CA-C	7.68	119.73	111.36
1	K	37	SER	N-CA-C	7.68	127.16	110.80
1	L	339	HIS	CB-CG-CD2	7.68	141.18	131.20
1	O	324	ARG	CA-CB-CG	7.68	129.46	114.10
1	A	483	SER	N-CA-CB	7.68	121.11	109.98
1	C	388	GLU	CB-CA-C	7.68	123.69	110.79
1	J	35	VAL	N-CA-C	7.68	125.31	109.34
1	C	214	VAL	CA-C-O	7.67	130.37	120.78
1	M	459	GLU	CA-C-O	-7.67	113.02	121.23
1	O	434	LEU	N-CA-C	7.67	127.14	110.80
1	B	60	ASP	CA-CB-CG	7.67	120.27	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	253	GLU	O-C-N	-7.67	113.21	122.11
1	J	430	ALA	CA-C-O	-7.67	109.54	120.51
1	K	103	LEU	N-CA-C	-7.67	103.66	112.87
1	N	227	VAL	CA-CB-CG1	7.67	123.44	110.40
1	N	494	ILE	CA-CB-CG2	7.67	123.54	110.50
1	O	331	MET	N-CA-CB	7.67	123.44	111.24
1	C	394	ARG	NH1-CZ-NH2	-7.67	109.33	119.30
1	D	472	VAL	CA-C-N	7.67	133.53	120.72
1	D	472	VAL	C-N-CA	7.67	133.53	120.72
1	G	403	ARG	N-CA-CB	7.67	122.90	110.40
1	H	18	ARG	CA-C-O	7.67	128.80	120.90
1	B	12	MET	CA-C-O	-7.67	109.55	120.51
1	B	411	PHE	CG-CD2-CE2	7.67	133.74	120.70
1	C	183	ASP	CA-C-O	-7.67	112.50	121.16
1	H	101	GLY	CA-C-N	7.67	130.56	120.28
1	H	101	GLY	C-N-CA	7.67	130.56	120.28
1	H	225	LYS	N-CA-CB	7.67	121.69	110.57
1	J	60	ASP	CA-C-N	7.67	136.44	121.41
1	J	60	ASP	C-N-CA	7.67	136.44	121.41
1	P	169	LYS	CB-CA-C	7.67	124.73	110.70
1	A	34	THR	CA-C-N	-7.67	108.17	121.97
1	A	34	THR	C-N-CA	-7.67	108.17	121.97
1	A	38	THR	CA-C-O	-7.67	113.00	120.90
1	L	18	ARG	CD-NE-CZ	7.67	135.13	124.40
1	N	179	SER	CA-CB-OG	7.67	126.43	111.10
1	A	153	ILE	O-C-N	-7.66	114.38	121.89
1	F	369	VAL	O-C-N	-7.66	113.94	121.83
1	H	435	VAL	N-CA-C	7.66	122.96	113.00
1	I	34	THR	N-CA-CB	7.66	121.47	109.82
1	K	176	GLU	CB-CG-CD	-7.66	99.57	112.60
1	M	89	VAL	CA-C-O	-7.66	112.73	120.85
1	P	306	ASN	CA-CB-CG	-7.66	104.94	112.60
1	C	132	GLN	O-C-N	-7.66	114.18	122.07
1	K	340	PRO	O-C-N	-7.66	113.76	123.03
1	G	204	ASP	N-CA-CB	7.66	121.94	110.53
1	K	359	ALA	N-CA-CB	7.66	122.74	109.72
1	K	343	VAL	N-CA-CB	-7.66	100.85	111.19
1	O	338	LYS	CG-CD-CE	7.66	128.91	111.30
1	F	41	PRO	N-CA-C	7.66	125.16	113.75
1	H	78	LEU	CB-CA-C	7.66	122.19	109.56
1	A	203	ILE	CA-CB-CG1	7.66	123.42	110.40
1	M	60	ASP	CA-C-N	7.66	128.42	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	60	ASP	C-N-CA	7.66	128.42	120.00
1	M	242	THR	O-C-N	-7.66	113.60	123.02
1	D	116	HIS	CB-CG-ND1	7.65	134.18	122.70
1	F	199	SER	O-C-N	-7.65	112.41	122.59
1	D	236	ASN	O-C-N	7.65	131.74	122.48
1	H	307	ILE	CA-CB-CG2	7.65	123.51	110.50
1	M	427	GLY	O-C-N	-7.65	114.91	122.41
1	N	475	GLN	OE1-CD-NE2	7.65	130.25	122.60
1	O	315	LEU	CA-C-O	-7.65	111.86	120.66
1	E	160	GLY	CA-C-O	-7.65	107.26	120.57
1	D	347	ILE	CA-C-N	-7.65	111.84	122.93
1	D	347	ILE	C-N-CA	-7.65	111.84	122.93
1	E	403	ARG	NE-CZ-NH1	-7.65	113.85	121.50
1	G	299	THR	O-C-N	-7.65	113.90	122.08
1	H	338	LYS	CA-C-N	7.65	140.46	121.80
1	H	338	LYS	C-N-CA	7.65	140.46	121.80
1	L	58	THR	CA-C-N	7.65	134.27	122.42
1	L	58	THR	C-N-CA	7.65	134.27	122.42
1	O	352	GLU	CA-C-O	-7.65	109.57	120.51
1	P	278	LYS	N-CA-C	7.65	120.29	111.11
1	M	428	LEU	CA-C-O	7.65	130.53	121.36
1	P	247	LEU	CA-C-O	7.65	128.74	120.10
1	D	11	ASN	CA-C-N	7.64	131.98	121.05
1	D	11	ASN	C-N-CA	7.64	131.98	121.05
1	D	99	VAL	CA-C-N	7.64	131.15	120.29
1	D	99	VAL	C-N-CA	7.64	131.15	120.29
1	D	339	HIS	CB-CG-CD2	-7.64	121.26	131.20
1	H	348	ARG	NE-CZ-NH1	7.64	129.15	121.50
1	D	196	GLU	CA-C-N	7.64	132.97	122.19
1	D	196	GLU	C-N-CA	7.64	132.97	122.19
1	D	227	VAL	CA-C-O	-7.64	112.11	120.67
1	F	269	ASP	CA-CB-CG	7.64	120.24	112.60
1	H	344	THR	OG1-CB-CG2	7.64	124.59	109.30
1	L	121	VAL	CA-C-O	-7.64	112.57	121.05
1	P	204	ASP	CA-CB-CG	7.64	120.24	112.60
1	F	270	ASP	CA-CB-CG	-7.64	104.96	112.60
1	G	251	VAL	CA-C-O	-7.64	112.53	120.71
1	I	446	ASN	CA-C-O	-7.64	109.58	120.51
1	K	81	VAL	N-CA-C	7.64	119.33	111.00
1	O	84	THR	CA-CB-CG2	7.64	123.49	110.50
1	N	184	ASP	N-CA-C	7.64	121.93	111.39
1	A	433	ILE	N-CA-C	7.64	118.43	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	323	GLU	CG-CD-OE1	7.64	135.96	118.40
1	H	76	LYS	N-CA-CB	7.64	121.58	110.20
1	K	94	THR	N-CA-CB	7.64	123.39	110.49
1	M	247	LEU	CA-C-N	7.64	131.92	120.31
1	M	247	LEU	C-N-CA	7.64	131.92	120.31
1	A	359	ALA	O-C-N	-7.63	112.10	122.33
1	M	105	ARG	O-C-N	7.63	130.89	122.11
1	D	277	ALA	N-CA-C	7.63	120.67	111.82
1	E	277	ALA	O-C-N	-7.63	112.00	122.46
1	G	187	LYS	CA-CB-CG	7.63	129.36	114.10
1	J	79	ILE	O-C-N	7.63	128.96	122.09
1	A	423	ALA	CA-C-N	7.63	133.32	121.19
1	A	423	ALA	C-N-CA	7.63	133.32	121.19
1	K	51	ASP	CA-C-N	7.63	131.91	120.31
1	K	51	ASP	C-N-CA	7.63	131.91	120.31
1	K	494	ILE	CB-CA-C	-7.63	102.15	111.08
1	C	69	SER	N-CA-CB	7.63	123.38	110.49
1	H	200	GLY	CA-C-O	-7.63	107.30	120.57
1	J	333	PHE	O-C-N	-7.63	114.41	123.03
1	M	133	GLU	OE1-CD-OE2	7.63	141.21	122.90
1	H	245	GLU	CA-CB-CG	7.63	129.35	114.10
1	N	451	LEU	O-C-N	-7.63	112.45	122.59
1	O	157	SER	N-CA-C	7.63	119.67	111.36
1	P	109	GLU	OE1-CD-OE2	7.63	141.21	122.90
1	P	490	ILE	CA-C-O	-7.63	111.25	120.78
1	B	494	ILE	CA-C-O	-7.62	112.00	120.84
1	C	293	GLU	CA-C-O	-7.62	111.20	119.97
1	E	310	LEU	O-C-N	-7.62	114.23	123.30
1	K	380	SER	CA-C-O	7.62	130.35	121.28
1	L	288	LYS	CA-C-N	7.62	131.51	120.38
1	L	288	LYS	C-N-CA	7.62	131.51	120.38
1	M	217	GLU	CB-CG-CD	7.62	125.56	112.60
1	M	458	VAL	O-C-N	-7.62	114.41	122.57
1	N	379	VAL	N-CA-C	7.62	121.16	108.81
1	H	164	GLU	N-CA-C	7.62	127.04	110.80
1	H	218	ARG	CA-C-O	-7.62	111.86	120.32
1	N	200	GLY	CA-C-N	7.62	136.10	121.54
1	N	200	GLY	C-N-CA	7.62	136.10	121.54
1	O	409	ARG	CB-CA-C	-7.62	98.91	110.88
1	O	497	GLU	CA-CB-CG	7.62	129.35	114.10
1	E	203	ILE	O-C-N	-7.62	113.04	122.57
1	G	307	ILE	CA-C-O	-7.62	111.25	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	140	CYS	CB-CA-C	7.62	125.59	110.42
1	A	427	GLY	CA-C-N	7.62	136.09	121.54
1	A	427	GLY	C-N-CA	7.62	136.09	121.54
1	I	185	GLU	CB-CG-CD	7.62	125.55	112.60
1	F	374	GLU	N-CA-C	-7.62	104.22	113.97
1	G	295	LEU	CA-C-O	-7.62	111.78	120.24
1	L	57	VAL	N-CA-C	7.62	117.27	106.53
1	O	226	LYS	CA-C-O	-7.62	109.62	120.51
1	P	89	VAL	N-CA-C	7.62	123.51	113.07
1	D	378	ILE	O-C-N	-7.62	115.03	123.03
1	J	326	ILE	CB-CA-C	7.62	120.70	110.42
1	K	81	VAL	CA-CB-CG1	7.62	123.35	110.40
1	B	34	THR	CA-C-N	-7.62	110.80	122.76
1	B	34	THR	C-N-CA	-7.62	110.80	122.76
1	K	239	ILE	CB-CA-C	7.62	123.78	111.29
1	P	137	THR	CB-CA-C	-7.62	95.43	109.29
1	B	91	ASP	CA-CB-CG	7.61	120.21	112.60
1	E	153	ILE	CA-C-O	7.61	128.94	120.64
1	E	274	HIS	CA-CB-CG	-7.61	106.19	113.80
1	G	330	SER	CB-CA-C	-7.61	95.67	109.38
1	I	73	PRO	O-C-N	-7.61	111.69	122.35
1	P	205	ASP	CA-CB-CG	7.61	120.21	112.60
1	L	44	MET	CB-CG-SD	7.61	135.54	112.70
1	G	113	GLN	CB-CA-C	-7.61	96.82	110.37
1	O	294	LYS	CA-C-N	7.61	136.07	121.54
1	O	294	LYS	C-N-CA	7.61	136.07	121.54
1	O	413	ASP	CB-CG-OD2	7.61	135.90	118.40
1	G	394	ARG	NE-CZ-NH2	-7.61	112.35	119.20
1	M	174	ILE	CB-CA-C	-7.61	101.96	111.70
1	B	25	ILE	CB-CA-C	-7.61	102.36	111.94
1	C	106	LYS	O-C-N	-7.61	114.06	122.12
1	F	181	VAL	CB-CA-C	-7.61	102.36	111.94
1	G	424	GLU	CB-CG-CD	-7.61	99.67	112.60
1	H	75	ALA	N-CA-C	-7.61	104.14	113.19
1	I	139	ALA	CA-C-N	-7.61	112.95	122.84
1	I	139	ALA	C-N-CA	-7.61	112.95	122.84
1	K	471	ARG	NE-CZ-NH1	7.61	129.11	121.50
1	G	145	GLN	CB-CG-CD	-7.61	99.67	112.60
1	G	191	ASP	CA-C-N	7.61	136.06	121.54
1	G	191	ASP	C-N-CA	7.61	136.06	121.54
1	H	203	ILE	CA-C-N	7.61	135.39	121.70
1	H	203	ILE	C-N-CA	7.61	135.39	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	83	LYS	N-CA-CB	7.61	121.39	110.13
1	D	288	LYS	CA-C-O	-7.60	112.84	121.81
1	E	129	GLN	CB-CA-C	7.60	122.11	109.56
1	E	432	GLU	CA-CB-CG	7.60	129.31	114.10
1	P	297	LYS	CB-CA-C	7.60	124.95	109.67
1	C	271	LEU	N-CA-CB	7.60	123.34	110.49
1	E	286	ARG	CD-NE-CZ	7.60	135.04	124.40
1	G	107	ALA	O-C-N	7.60	131.12	122.22
1	L	171	ALA	CA-C-N	7.60	130.78	120.44
1	L	171	ALA	C-N-CA	7.60	130.78	120.44
1	J	367	GLY	O-C-N	-7.60	112.82	122.70
1	D	172	GLU	CA-C-O	7.60	128.49	119.60
1	D	209	ILE	CA-C-O	-7.60	111.28	120.78
1	G	467	VAL	CA-C-O	-7.60	111.83	121.48
1	G	484	THR	N-CA-C	7.60	126.99	110.80
1	J	206	THR	CB-CA-C	7.60	123.35	110.81
1	M	143	GLY	CA-C-N	7.60	130.46	120.28
1	M	143	GLY	C-N-CA	7.60	130.46	120.28
1	B	339	HIS	CB-CG-ND1	7.60	134.10	122.70
1	E	393	LEU	O-C-N	-7.60	111.98	122.46
1	G	116	HIS	O-C-N	-7.60	112.58	121.32
1	H	254	ILE	O-C-N	-7.60	113.07	122.57
1	M	30	ILE	CB-CA-C	7.60	123.75	111.29
1	N	80	GLU	N-CA-C	-7.60	104.01	113.28
1	P	353	HIS	ND1-CE1-NE2	7.60	116.00	108.40
1	E	396	TYR	CA-C-N	7.60	131.08	120.29
1	E	396	TYR	C-N-CA	7.60	131.08	120.29
1	H	27	ALA	CA-C-O	-7.60	112.13	121.02
1	E	489	ARG	NE-CZ-NH2	7.59	126.03	119.20
1	L	60	ASP	CB-CG-OD1	7.59	135.87	118.40
1	L	378	ILE	O-C-N	-7.59	115.39	123.14
1	K	138	ILE	O-C-N	7.59	129.92	122.25
1	B	101	GLY	N-CA-C	7.59	121.67	112.49
1	E	88	GLU	CA-CB-CG	7.59	129.28	114.10
1	H	414	ALA	N-CA-C	7.59	121.03	111.69
1	J	160	GLY	CA-C-O	-7.59	107.36	120.57
1	K	275	TYR	N-CA-C	7.59	119.45	111.03
1	K	371	CYS	N-CA-CB	7.59	123.31	110.49
1	J	459	GLU	OE1-CD-OE2	7.59	141.11	122.90
1	O	242	THR	O-C-N	-7.59	113.04	122.68
1	A	105	ARG	NE-CZ-NH1	-7.59	113.91	121.50
1	G	320	LEU	N-CA-C	7.59	122.12	108.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	306	ASN	N-CA-CB	7.59	123.31	110.49
1	H	337	CYS	N-CA-C	7.59	120.43	108.67
1	J	155	MET	CA-C-O	-7.59	112.51	120.55
1	M	86	GLU	CB-CG-CD	7.59	125.50	112.60
1	O	364	ASP	N-CA-CB	7.59	121.90	110.22
1	N	225	LYS	O-C-N	-7.58	112.60	122.61
1	F	299	THR	O-C-N	-7.58	113.50	122.15
1	I	235	LEU	O-C-N	-7.58	114.32	123.19
1	L	428	LEU	CD1-CG-CD2	7.58	127.48	110.80
1	A	353	HIS	N-CA-C	7.58	119.18	111.07
1	B	266	LYS	CA-C-O	-7.58	112.24	121.11
1	E	338	LYS	CA-C-O	-7.58	112.38	120.42
1	F	255	LYS	CB-CA-C	7.58	123.09	109.29
1	E	358	VAL	CA-CB-CG1	7.58	123.29	110.40
1	J	336	GLU	CA-C-N	7.58	136.02	121.54
1	J	336	GLU	C-N-CA	7.58	136.02	121.54
1	K	446	ASN	O-C-N	-7.58	114.21	122.09
1	A	332	ILE	CA-CB-CG1	7.58	123.28	110.40
1	H	360	ARG	CD-NE-CZ	-7.58	113.79	124.40
1	M	287	VAL	N-CA-CB	7.58	119.63	110.31
1	O	418	ILE	N-CA-CB	7.58	121.82	111.21
1	P	432	GLU	OE1-CD-OE2	7.58	141.09	122.90
1	H	140	CYS	N-CA-C	7.58	126.94	110.80
1	L	395	GLU	CA-C-O	-7.58	110.26	119.43
1	O	85	GLN	CG-CD-NE2	-7.58	105.03	116.40
1	A	185	GLU	OE1-CD-OE2	7.58	141.08	122.90
1	E	306	ASN	N-CA-CB	-7.58	98.91	110.42
1	I	307	ILE	N-CA-CB	7.58	123.73	111.23
1	L	319	GLY	CA-C-O	7.58	128.20	120.09
1	O	85	GLN	CA-C-O	-7.58	110.06	119.38
1	E	472	VAL	N-CA-C	7.57	125.09	109.34
1	J	63	THR	CA-C-N	7.57	132.67	120.55
1	J	63	THR	C-N-CA	7.57	132.67	120.55
1	L	63	THR	CA-CB-CG2	7.57	123.37	110.50
1	I	181	VAL	N-CA-C	7.57	117.65	110.53
1	I	427	GLY	CA-C-O	-7.57	111.01	119.04
1	K	301	ALA	CB-CA-C	7.57	125.49	110.42
1	E	219	VAL	N-CA-CB	7.57	123.72	111.23
1	F	37	SER	N-CA-C	7.57	126.92	110.80
1	H	94	THR	N-CA-CB	7.57	121.25	110.12
1	L	306	ASN	CB-CG-ND2	-7.57	105.04	116.40
1	N	278	LYS	N-CA-C	7.57	121.44	111.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	367	GLY	CA-C-O	-7.57	112.42	120.90
1	D	34	THR	N-CA-CB	7.57	120.96	109.91
1	F	19	ASP	OD1-CG-OD2	-7.57	104.74	122.90
1	F	156	THR	CA-CB-OG1	7.57	120.95	109.60
1	L	79	ILE	N-CA-C	-7.57	102.75	111.00
1	M	237	CYS	CB-CA-C	7.57	125.30	109.79
1	M	336	GLU	CA-C-O	-7.57	109.69	120.51
1	A	354	VAL	N-CA-C	7.57	119.25	110.62
1	D	301	ALA	CA-C-O	-7.57	113.55	121.87
1	H	172	GLU	CB-CA-C	7.57	123.34	110.86
1	I	55	VAL	N-CA-CB	7.57	121.85	111.41
1	J	51	ASP	N-CA-C	7.57	126.92	110.80
1	C	176	GLU	CA-C-O	-7.56	112.91	120.70
1	H	245	GLU	CB-CG-CD	7.56	125.46	112.60
1	H	303	VAL	CB-CA-C	-7.56	103.06	111.23
1	I	455	THR	CA-C-O	-7.56	112.53	120.55
1	K	235	LEU	CB-CA-C	-7.56	98.56	110.74
1	N	86	GLU	N-CA-C	7.56	119.42	111.03
1	P	460	ASP	CA-CB-CG	-7.56	105.04	112.60
1	D	497	GLU	CB-CG-CD	-7.56	99.75	112.60
1	I	330	SER	CA-C-O	-7.56	112.00	120.54
1	J	90	GLY	CA-C-N	7.56	131.56	120.90
1	J	90	GLY	C-N-CA	7.56	131.56	120.90
1	G	350	THR	CA-CB-OG1	7.56	120.94	109.60
1	J	245	GLU	CA-CB-CG	7.56	129.22	114.10
1	D	274	HIS	CA-CB-CG	7.56	121.36	113.80
1	I	278	LYS	O-C-N	-7.56	111.63	122.36
1	K	407	ALA	O-C-N	7.56	131.01	122.32
1	O	340	PRO	CA-C-N	7.56	134.37	121.14
1	O	340	PRO	C-N-CA	7.56	134.37	121.14
1	C	35	VAL	CB-CA-C	7.56	123.68	111.29
1	G	374	GLU	CG-CD-OE1	7.56	135.78	118.40
1	K	340	PRO	CA-C-N	7.56	135.36	122.36
1	K	340	PRO	C-N-CA	7.56	135.36	122.36
1	D	153	ILE	CA-C-N	7.55	130.73	120.38
1	D	153	ILE	C-N-CA	7.55	130.73	120.38
1	D	330	SER	CA-CB-OG	7.55	126.21	111.10
1	E	198	LYS	O-C-N	7.55	132.81	123.21
1	G	303	VAL	CA-C-N	7.55	132.84	122.34
1	G	303	VAL	C-N-CA	7.55	132.84	122.34
1	G	471	ARG	CA-C-N	7.55	132.64	120.55
1	G	471	ARG	C-N-CA	7.55	132.64	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	313	GLN	CA-C-O	-7.55	110.65	119.64
1	M	216	LYS	N-CA-C	7.55	122.06	108.69
1	M	244	SER	CB-CA-C	7.55	125.45	110.42
1	N	164	GLU	CA-C-O	-7.55	109.71	120.51
1	O	462	CYS	N-CA-C	7.55	119.59	111.36
1	P	22	ARG	CB-CG-CD	7.55	128.68	111.30
1	L	435	VAL	CB-CA-C	-7.55	99.85	112.16
1	M	44	MET	CA-C-O	-7.55	113.37	121.45
1	B	209	ILE	O-C-N	-7.55	113.73	122.94
1	G	186	GLY	CA-C-N	7.55	133.79	121.86
1	G	186	GLY	C-N-CA	7.55	133.79	121.86
1	O	115	VAL	N-CA-CB	7.55	123.69	111.23
1	G	29	ARG	NE-CZ-NH1	-7.55	113.95	121.50
1	H	357	GLU	OE1-CD-OE2	7.55	141.02	122.90
1	K	119	ILE	N-CA-CB	7.55	119.18	110.65
1	P	455	THR	N-CA-C	-7.55	102.40	111.69
1	A	351	THR	CA-CB-OG1	7.55	120.92	109.60
1	K	136	LYS	N-CA-C	7.55	126.88	110.80
1	M	464	ASN	CA-C-N	7.55	136.20	121.41
1	M	464	ASN	C-N-CA	7.55	136.20	121.41
1	L	274	HIS	CB-CG-CD2	-7.55	121.39	131.20
1	N	463	GLU	CA-C-O	-7.55	110.69	119.59
1	O	291	ASP	N-CA-CB	7.55	123.70	110.42
1	H	254	ILE	CA-C-O	7.54	130.21	120.78
1	A	228	THR	CA-C-O	7.54	131.30	120.51
1	D	158	ILE	N-CA-CB	7.54	121.22	112.39
1	D	344	THR	O-C-N	-7.54	114.61	123.06
1	F	353	HIS	CG-CD2-NE2	-7.54	99.66	107.20
1	K	35	VAL	N-CA-C	7.54	125.03	109.34
1	L	392	LYS	N-CA-C	-7.54	104.21	113.41
1	N	366	VAL	O-C-N	-7.54	114.50	121.89
1	O	400	ILE	CA-C-O	-7.54	111.35	120.78
1	D	227	VAL	N-CA-CB	7.54	123.81	111.44
1	P	329	ASP	N-CA-C	7.54	121.61	110.30
1	M	343	VAL	CA-C-O	-7.54	113.42	121.19
1	A	11	ASN	O-C-N	-7.54	111.48	122.04
1	A	353	HIS	N-CA-CB	7.54	120.94	110.01
1	A	410	ALA	CA-C-O	7.54	128.61	119.49
1	D	129	GLN	CB-CA-C	7.54	122.91	110.92
1	H	385	THR	CA-CB-CG2	7.54	123.32	110.50
1	I	197	LYS	O-C-N	-7.54	113.64	123.21
1	L	116	HIS	N-CA-CB	7.54	123.79	110.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	128	ALA	CA-C-N	7.54	130.60	120.65
1	O	128	ALA	C-N-CA	7.54	130.60	120.65
1	G	54	ASP	OD1-CG-OD2	-7.54	104.81	122.90
1	G	299	THR	CA-C-N	7.54	136.18	121.41
1	G	299	THR	C-N-CA	7.54	136.18	121.41
1	G	337	CYS	N-CA-C	7.54	121.32	110.24
1	K	55	VAL	N-CA-C	7.54	118.75	107.75
1	A	279	GLU	CA-C-N	7.54	134.34	122.51
1	A	279	GLU	C-N-CA	7.54	134.34	122.51
1	A	388	GLU	CB-CG-CD	7.54	125.41	112.60
1	C	137	THR	O-C-N	-7.54	112.00	122.10
1	N	352	GLU	CB-CA-C	7.54	125.42	110.42
1	O	286	ARG	NH1-CZ-NH2	-7.54	109.50	119.30
1	P	228	THR	CA-C-N	-7.54	111.79	122.41
1	P	228	THR	C-N-CA	-7.54	111.79	122.41
1	C	345	MET	CA-C-O	-7.53	112.49	120.40
1	L	190	LYS	CA-C-O	-7.53	112.49	120.55
1	B	24	ASN	N-CA-CB	-7.53	98.12	110.40
1	I	247	LEU	O-C-N	-7.53	111.71	122.41
1	K	364	ASP	O-C-N	-7.53	113.01	122.27
1	N	403	ARG	CD-NE-CZ	-7.53	113.86	124.40
1	P	15	TYR	CA-C-O	7.53	128.22	120.24
1	F	63	THR	CA-CB-OG1	7.53	120.89	109.60
1	G	193	ILE	CA-C-O	-7.53	111.37	120.78
1	H	378	ILE	O-C-N	-7.53	115.35	123.18
1	O	15	TYR	CA-C-N	7.53	134.28	121.86
1	O	15	TYR	C-N-CA	7.53	134.28	121.86
1	P	324	ARG	CD-NE-CZ	7.53	134.94	124.40
1	C	142	VAL	N-CA-C	7.53	125.00	109.34
1	C	433	ILE	O-C-N	-7.53	114.53	121.91
1	E	156	THR	CA-C-O	-7.53	110.17	119.28
1	N	32	ALA	O-C-N	-7.53	113.96	122.09
1	A	7	VAL	CA-CB-CG2	-7.53	97.61	110.40
1	D	57	VAL	CA-CB-CG1	7.53	123.19	110.40
1	F	237	CYS	CA-C-N	-7.53	112.02	122.93
1	F	237	CYS	C-N-CA	-7.53	112.02	122.93
1	M	238	ALA	CA-C-O	-7.53	109.75	120.51
1	B	443	SER	CA-C-O	-7.52	110.74	119.24
1	N	396	TYR	N-CA-C	-7.52	103.04	112.90
1	K	8	LEU	CA-C-N	7.52	129.24	119.84
1	K	8	LEU	C-N-CA	7.52	129.24	119.84
1	K	406	LEU	N-CA-CB	-7.52	99.56	110.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	31	ILE	CA-C-O	-7.52	111.38	120.78
1	C	482	GLU	CA-C-N	7.52	133.06	120.88
1	C	482	GLU	C-N-CA	7.52	133.06	120.88
1	L	7	VAL	CA-CB-CG2	-7.52	97.61	110.40
1	N	246	MET	CA-C-O	7.52	128.59	119.49
1	B	164	GLU	CG-CD-OE2	7.52	135.69	118.40
1	C	141	GLU	CA-C-O	-7.52	109.76	120.51
1	G	426	ALA	N-CA-C	7.52	123.70	111.37
1	I	27	ALA	N-CA-C	-7.52	103.02	111.14
1	L	170	LEU	CB-CA-C	-7.52	96.94	110.70
1	A	396	TYR	O-C-N	7.52	132.76	122.46
1	D	312	ALA	N-CA-CB	7.52	121.29	110.16
1	E	357	GLU	CB-CG-CD	7.52	125.38	112.60
1	K	100	ALA	N-CA-C	7.52	119.26	111.14
1	O	229	ASP	CA-CB-CG	7.52	120.12	112.60
1	B	62	VAL	CB-CA-C	-7.51	98.97	111.29
1	B	422	LEU	CA-C-N	7.51	133.43	120.58
1	B	422	LEU	C-N-CA	7.51	133.43	120.58
1	C	105	ARG	N-CA-C	7.51	119.16	110.97
1	F	207	GLU	N-CA-C	7.51	122.01	110.36
1	H	298	ALA	CA-C-N	7.51	133.14	121.19
1	H	298	ALA	C-N-CA	7.51	133.14	121.19
1	I	303	VAL	CB-CA-C	7.51	123.61	111.29
1	J	114	ASN	O-C-N	7.51	132.59	122.59
1	L	250	MET	N-CA-CB	7.51	121.40	110.20
1	N	231	LYS	CA-C-N	7.51	130.57	120.50
1	N	231	LYS	C-N-CA	7.51	130.57	120.50
1	C	216	LYS	N-CA-C	7.51	121.17	109.07
1	B	378	ILE	CB-CA-C	7.51	122.15	110.28
1	D	113	GLN	CG-CD-NE2	-7.51	105.13	116.40
1	F	375	ASP	N-CA-C	7.51	121.14	108.90
1	H	221	ALA	N-CA-CB	-7.51	98.72	110.44
1	H	292	MET	CA-C-O	-7.51	112.86	120.90
1	H	329	ASP	CA-C-N	7.51	132.76	122.77
1	H	329	ASP	C-N-CA	7.51	132.76	122.77
1	K	88	GLU	CB-CG-CD	7.51	125.37	112.60
1	O	352	GLU	CB-CA-C	7.51	125.37	110.42
1	A	302	ASN	OD1-CG-ND2	-7.51	115.09	122.60
1	B	113	GLN	CA-C-O	-7.51	109.77	120.51
1	D	411	PHE	O-C-N	-7.51	112.43	122.49
1	M	487	LEU	CA-C-N	7.51	135.88	121.54
1	M	487	LEU	C-N-CA	7.51	135.88	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	279	GLU	N-CA-C	7.51	122.73	112.90
1	C	37	SER	N-CA-C	-7.51	103.43	112.59
1	D	407	ALA	CA-C-O	-7.51	112.97	120.70
1	H	247	LEU	CA-C-N	7.51	135.88	121.54
1	H	247	LEU	C-N-CA	7.51	135.88	121.54
1	K	485	GLU	CA-C-N	7.51	130.65	120.44
1	K	485	GLU	C-N-CA	7.51	130.65	120.44
1	P	116	HIS	O-C-N	-7.51	112.69	121.32
1	B	339	HIS	CB-CG-CD2	-7.50	121.44	131.20
1	G	238	ALA	CA-C-O	-7.50	109.78	120.51
1	K	425	ASN	CA-CB-CG	7.50	120.11	112.60
1	O	390	SER	O-C-N	7.50	132.57	122.59
1	D	79	ILE	CB-CG1-CD1	7.50	129.56	113.80
1	B	89	VAL	CA-C-O	-7.50	112.03	120.96
1	G	136	LYS	O-C-N	7.50	131.00	122.22
1	J	69	SER	CA-C-N	7.50	131.75	122.37
1	J	69	SER	C-N-CA	7.50	131.75	122.37
1	M	13	LYS	O-C-N	-7.50	114.49	123.27
1	M	229	ASP	N-CA-CB	7.50	121.12	110.24
1	N	187	LYS	CA-CB-CG	7.50	129.10	114.10
1	P	426	ALA	CA-C-N	7.50	136.11	121.41
1	P	426	ALA	C-N-CA	7.50	136.11	121.41
1	A	33	GLU	N-CA-C	-7.50	103.04	111.14
1	E	197	LYS	CA-C-O	-7.50	109.78	120.51
1	P	217	GLU	CA-C-N	-7.50	110.81	121.99
1	P	217	GLU	C-N-CA	-7.50	110.81	121.99
1	A	216	LYS	CA-C-O	-7.50	112.36	121.36
1	I	475	GLN	CB-CA-C	-7.50	98.34	110.79
1	N	159	THR	CA-CB-CG2	7.50	123.25	110.50
1	B	289	LYS	CA-C-N	7.50	135.86	121.54
1	B	289	LYS	C-N-CA	7.50	135.86	121.54
1	B	459	GLU	OE1-CD-OE2	7.50	140.89	122.90
1	D	271	LEU	CA-C-N	7.50	130.54	120.65
1	D	271	LEU	C-N-CA	7.50	130.54	120.65
1	D	405	GLN	CB-CG-CD	7.50	125.34	112.60
1	I	468	GLU	O-C-N	7.50	126.54	121.14
1	L	292	MET	CA-CB-CG	7.50	129.09	114.10
1	C	305	THR	N-CA-CB	7.50	123.16	110.49
1	D	50	ASP	N-CA-C	7.49	121.61	110.52
1	E	338	LYS	O-C-N	-7.49	113.61	122.15
1	H	438	ARG	CD-NE-CZ	7.49	134.89	124.40
1	O	13	LYS	CA-C-O	-7.49	112.15	120.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	374	GLU	N-CA-C	7.49	120.51	111.82
1	K	43	GLY	O-C-N	-7.49	112.96	122.70
1	L	27	ALA	O-C-N	7.49	129.79	122.07
1	P	305	THR	OG1-CB-CG2	7.49	124.28	109.30
1	B	202	SER	CA-C-N	7.49	132.19	121.55
1	B	202	SER	C-N-CA	7.49	132.19	121.55
1	E	22	ARG	CD-NE-CZ	-7.49	113.92	124.40
1	E	49	VAL	O-C-N	-7.49	113.21	122.57
1	F	333	PHE	CD1-CG-CD2	7.49	129.83	118.60
1	O	212	VAL	O-C-N	-7.49	114.76	123.00
1	G	416	GLU	CB-CG-CD	7.49	125.33	112.60
1	B	42	LYS	CA-C-O	-7.49	110.65	119.48
1	B	161	LYS	CA-CB-CG	7.49	129.07	114.10
1	D	99	VAL	CA-C-O	7.49	130.14	120.78
1	F	92	GLY	CA-C-N	7.49	131.19	120.79
1	F	92	GLY	C-N-CA	7.49	131.19	120.79
1	G	128	ALA	N-CA-CB	7.49	121.40	110.47
1	H	161	LYS	O-C-N	7.49	131.71	123.10
1	C	81	VAL	O-C-N	-7.48	114.12	121.90
1	M	113	GLN	N-CA-C	7.48	122.00	113.02
1	M	333	PHE	CD1-CE1-CZ	-7.48	106.53	120.00
1	C	292	MET	N-CA-C	7.48	119.13	110.97
1	H	341	LYS	CB-CA-C	7.48	124.47	110.63
1	I	114	ASN	N-CA-C	7.48	126.74	110.80
1	J	237	CYS	N-CA-CB	7.48	122.32	110.65
1	F	18	ARG	NE-CZ-NH1	7.48	128.98	121.50
1	N	423	ALA	O-C-N	-7.48	114.01	122.09
1	N	492	ASP	CB-CA-C	7.48	125.31	110.42
1	P	68	MET	CA-C-O	-7.48	109.81	120.51
1	B	37	SER	O-C-N	-7.48	112.64	122.59
1	C	313	GLN	CA-CB-CG	7.48	129.06	114.10
1	K	194	LYS	N-CA-C	-7.48	101.21	110.41
1	F	148	GLU	CB-CG-CD	7.48	125.31	112.60
1	O	207	GLU	CG-CD-OE1	7.48	135.59	118.40
1	O	357	GLU	CB-CG-CD	7.48	125.31	112.60
1	P	248	LYS	N-CA-CB	7.48	120.82	109.98
1	B	299	THR	O-C-N	-7.47	112.41	122.43
1	C	138	ILE	CB-CA-C	-7.47	100.57	112.16
1	E	288	LYS	CA-C-O	-7.47	112.50	120.80
1	I	207	GLU	CA-C-O	-7.47	112.86	121.68
1	J	81	VAL	N-CA-CB	7.47	123.56	111.23
1	K	33	GLU	O-C-N	7.47	130.72	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	172	GLU	CB-CG-CD	-7.47	99.90	112.60
1	E	308	LYS	CA-CB-CG	7.47	129.05	114.10
1	G	50	ASP	CA-C-O	-7.47	112.86	121.68
1	H	234	LEU	N-CA-C	7.47	120.44	108.41
1	O	425	ASN	OD1-CG-ND2	-7.47	115.13	122.60
1	F	214	VAL	CA-C-O	7.47	127.58	121.68
1	O	354	VAL	N-CA-CB	7.47	123.56	111.23
1	P	302	ASN	O-C-N	-7.47	113.97	122.93
1	E	77	MET	N-CA-CB	7.47	123.02	110.32
1	E	254	ILE	CA-CB-CG2	7.47	123.20	110.50
1	E	307	ILE	CA-CB-CG2	7.47	123.20	110.50
1	L	234	LEU	N-CA-CB	7.47	124.64	110.82
1	K	42	LYS	CA-C-O	-7.47	109.39	121.94
1	K	458	VAL	N-CA-C	7.47	119.45	109.37
1	B	306	ASN	OD1-CG-ND2	-7.47	115.13	122.60
1	D	217	GLU	N-CA-CB	7.47	121.95	110.60
1	I	285	ARG	CG-CD-NE	7.47	128.43	112.00
1	K	494	ILE	N-CA-C	7.47	119.59	108.54
1	L	29	ARG	N-CA-CB	7.47	121.21	110.16
1	M	463	GLU	N-CA-CB	7.47	122.09	110.44
1	O	64	ILE	N-CA-CB	-7.47	97.82	112.75
1	C	240	GLU	CA-C-O	-7.46	113.33	122.36
1	C	273	GLN	CB-CA-C	7.46	123.37	110.68
1	C	422	LEU	CA-C-N	7.46	130.61	120.38
1	C	422	LEU	C-N-CA	7.46	130.61	120.38
1	D	472	VAL	O-C-N	-7.46	113.90	121.96
1	E	450	GLY	CA-C-O	-7.46	113.58	121.57
1	F	11	ASN	CA-C-N	7.46	133.38	122.41
1	F	11	ASN	C-N-CA	7.46	133.38	122.41
1	F	290	SER	O-C-N	-7.46	114.27	122.03
1	G	89	VAL	CB-CA-C	-7.46	102.37	111.85
1	H	48	LEU	N-CA-CB	7.46	120.92	110.17
1	L	197	LYS	CA-C-O	-7.46	112.56	120.40
1	E	285	ARG	NE-CZ-NH1	7.46	128.96	121.50
1	H	12	MET	CA-C-N	7.46	135.79	121.54
1	H	12	MET	C-N-CA	7.46	135.79	121.54
1	N	497	GLU	CB-CG-CD	7.46	125.29	112.60
1	C	206	THR	CB-CA-C	7.46	121.54	109.90
1	D	44	MET	CA-C-O	-7.46	112.88	121.68
1	E	54	ASP	CA-CB-CG	7.46	120.06	112.60
1	I	170	LEU	O-C-N	7.46	132.03	122.33
1	L	219	VAL	CB-CA-C	7.46	123.53	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	339	HIS	CB-CA-C	-7.46	101.44	111.21
1	K	411	PHE	CA-C-N	7.46	130.50	120.65
1	K	411	PHE	C-N-CA	7.46	130.50	120.65
1	K	494	ILE	CA-C-N	-7.46	110.12	122.21
1	K	494	ILE	C-N-CA	-7.46	110.12	122.21
1	L	227	VAL	O-C-N	7.46	131.24	123.18
1	N	326	ILE	O-C-N	-7.46	114.77	123.05
1	C	193	ILE	N-CA-C	7.46	118.22	106.88
1	F	315	LEU	N-CA-CB	7.46	122.24	111.05
1	F	454	PHE	N-CA-C	7.46	120.50	111.40
1	H	360	ARG	NE-CZ-NH1	-7.46	114.04	121.50
1	I	434	LEU	O-C-N	-7.46	114.22	122.12
1	K	67	GLU	N-CA-CB	7.46	121.17	110.13
1	K	372	THR	O-C-N	7.46	131.29	122.34
1	N	454	PHE	CB-CG-CD1	-7.46	108.02	120.70
1	P	119	ILE	O-C-N	7.46	129.62	121.94
1	P	170	LEU	O-C-N	-7.46	113.09	122.27
1	A	347	ILE	N-CA-C	7.46	118.61	107.80
1	B	116	HIS	ND1-CE1-NE2	7.46	115.86	108.40
1	B	252	ALA	N-CA-C	7.46	120.28	111.71
1	C	30	ILE	N-CA-CB	-7.46	102.79	110.62
1	K	308	LYS	CA-C-N	7.46	133.36	120.68
1	K	308	LYS	C-N-CA	7.46	133.36	120.68
1	O	208	LEU	CA-C-O	-7.46	108.40	120.85
1	C	202	SER	CA-C-N	7.46	133.39	121.09
1	C	202	SER	C-N-CA	7.46	133.39	121.09
1	D	217	GLU	CA-C-O	-7.46	111.67	121.73
1	C	289	LYS	CA-C-O	7.45	128.68	120.63
1	E	417	VAL	CA-C-O	-7.45	111.46	120.78
1	K	256	ALA	N-CA-CB	7.45	121.16	110.13
1	M	475	GLN	N-CA-CB	-7.45	98.82	110.30
1	P	182	VAL	O-C-N	7.45	130.27	122.67
1	B	13	LYS	N-CA-CB	7.45	122.78	110.63
1	F	98	VAL	CA-CB-CG1	7.45	123.07	110.40
1	I	45	ASP	O-C-N	7.45	132.50	122.59
1	B	180	ALA	CB-CA-C	7.45	123.31	110.79
1	I	189	ASP	CA-C-N	7.45	132.95	120.88
1	I	189	ASP	C-N-CA	7.45	132.95	120.88
1	N	375	ASP	N-CA-CB	7.45	122.42	110.65
1	A	243	ALA	N-CA-C	7.45	126.66	110.80
1	G	287	VAL	CA-C-O	-7.45	111.61	120.99
1	J	41	PRO	N-CA-C	7.45	127.81	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	212	VAL	CB-CA-C	-7.45	97.77	111.18
1	P	233	ALA	CA-C-N	-7.45	112.13	122.93
1	P	233	ALA	C-N-CA	-7.45	112.13	122.93
1	O	429	ASP	CB-CG-OD1	7.45	135.53	118.40
1	A	129	GLN	CA-C-N	7.45	133.34	120.68
1	A	129	GLN	C-N-CA	7.45	133.34	120.68
1	A	340	PRO	N-CA-CB	-7.45	95.43	103.25
1	B	252	ALA	O-C-N	-7.45	113.51	122.22
1	C	72	HIS	N-CA-C	7.45	126.27	109.81
1	F	199	SER	CA-C-O	-7.45	109.86	120.51
1	G	148	GLU	N-CA-CB	7.45	123.07	110.49
1	H	60	ASP	CA-CB-CG	7.45	120.05	112.60
1	J	108	GLU	CA-C-N	-7.45	109.56	120.28
1	J	108	GLU	C-N-CA	-7.45	109.56	120.28
1	N	348	ARG	O-C-N	-7.45	114.62	123.03
1	C	269	ASP	CA-C-O	-7.44	112.29	121.67
1	I	135	LEU	CB-CA-C	-7.44	97.08	110.70
1	N	393	LEU	N-CA-C	-7.44	104.00	113.23
1	A	478	GLN	CB-CG-CD	7.44	125.25	112.60
1	C	109	GLU	CA-C-O	7.44	131.15	120.51
1	P	58	THR	CA-C-N	7.44	133.95	122.42
1	P	58	THR	C-N-CA	7.44	133.95	122.42
1	C	154	ALA	N-CA-CB	-7.44	99.11	110.20
1	H	439	ALA	CA-C-N	7.44	130.86	120.29
1	H	439	ALA	C-N-CA	7.44	130.86	120.29
1	N	490	ILE	O-C-N	-7.44	115.57	122.79
1	O	356	GLU	CB-CA-C	7.44	125.22	110.42
1	M	89	VAL	CA-CB-CG2	7.44	123.05	110.40
1	P	336	GLU	CG-CD-OE2	7.44	135.51	118.40
1	B	395	GLU	CB-CG-CD	-7.44	99.96	112.60
1	C	304	ILE	CA-CB-CG2	7.44	123.14	110.50
1	G	78	LEU	CA-C-N	7.44	130.98	120.42
1	G	78	LEU	C-N-CA	7.44	130.98	120.42
1	G	88	GLU	CG-CD-OE1	7.44	135.50	118.40
1	J	489	ARG	O-C-N	7.44	132.48	122.59
1	N	26	LEU	CA-C-N	7.44	131.61	120.31
1	N	26	LEU	C-N-CA	7.44	131.61	120.31
1	B	44	MET	CA-C-O	-7.43	112.45	121.89
1	D	350	THR	CA-CB-OG1	7.43	120.75	109.60
1	G	438	ARG	NE-CZ-NH2	-7.43	112.51	119.20
1	L	454	PHE	N-CA-C	7.43	119.03	111.07
1	A	473	LYS	CA-C-O	-7.43	111.99	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	265	GLN	O-C-N	7.43	129.72	122.07
1	K	186	GLY	CA-C-N	7.43	135.73	121.54
1	K	186	GLY	C-N-CA	7.43	135.73	121.54
1	L	320	LEU	N-CA-CB	7.43	122.08	110.71
1	M	339	HIS	CB-CG-CD2	7.43	140.86	131.20
1	I	266	LYS	CA-C-O	-7.43	111.70	121.73
1	A	28	GLY	O-C-N	-7.43	113.04	122.70
1	F	322	GLU	O-C-N	-7.43	114.46	123.30
1	C	135	LEU	N-CA-CB	7.43	120.75	109.91
1	O	383	GLY	CA-C-O	-7.43	107.64	120.57
1	A	376	GLY	CA-C-N	7.43	133.46	122.99
1	A	376	GLY	C-N-CA	7.43	133.46	122.99
1	B	379	VAL	CA-C-N	7.43	135.72	121.54
1	B	379	VAL	C-N-CA	7.43	135.72	121.54
1	D	62	VAL	CB-CA-C	-7.43	99.11	111.29
1	F	373	ILE	N-CA-CB	7.43	122.19	110.31
1	G	30	ILE	CA-CB-CG1	7.43	123.02	110.40
1	H	105	ARG	O-C-N	7.43	130.11	122.09
1	I	369	VAL	CA-CB-CG2	7.43	123.03	110.40
1	K	54	ASP	CA-C-N	7.43	132.98	123.10
1	K	54	ASP	C-N-CA	7.43	132.98	123.10
1	L	24	ASN	CA-C-O	-7.43	113.25	120.90
1	M	276	LEU	N-CA-CB	7.43	123.04	110.49
1	P	386	GLU	CA-C-O	7.43	128.50	120.55
1	A	406	LEU	N-CA-CB	7.42	122.45	110.42
1	F	128	ALA	N-CA-C	-7.42	104.35	113.41
1	F	368	VAL	CA-C-N	7.42	130.96	120.42
1	F	368	VAL	C-N-CA	7.42	130.96	120.42
1	G	341	LYS	CA-C-N	7.42	135.14	122.37
1	G	341	LYS	C-N-CA	7.42	135.14	122.37
1	H	210	LYS	O-C-N	-7.42	112.72	122.59
1	K	98	VAL	CA-CB-CG2	7.42	123.02	110.40
1	L	83	LYS	CA-C-O	-7.42	113.25	120.90
1	N	138	ILE	CA-CB-CG2	-7.42	97.88	110.50
1	O	497	GLU	N-CA-CB	7.42	123.12	110.50
1	I	447	LYS	CA-C-N	-7.42	111.92	123.13
1	I	447	LYS	C-N-CA	-7.42	111.92	123.13
1	H	477	ILE	O-C-N	-7.42	113.29	122.57
1	L	298	ALA	N-CA-CB	7.42	123.03	110.49
1	M	251	VAL	CA-CB-CG2	7.42	123.02	110.40
1	O	202	SER	O-C-N	-7.42	109.79	122.11
1	C	439	ALA	CA-C-N	7.42	131.59	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	439	ALA	C-N-CA	7.42	131.59	120.31
1	H	297	LYS	CB-CA-C	7.42	123.25	110.79
1	L	444	ASN	O-C-N	7.42	133.03	122.20
1	O	491	ASP	CA-C-O	-7.42	114.77	121.67
1	B	207	GLU	CA-C-O	-7.42	112.78	121.46
1	H	293	GLU	CA-CB-CG	7.42	128.93	114.10
1	P	265	GLN	N-CA-C	7.42	126.60	110.80
1	A	302	ASN	O-C-N	-7.42	114.67	123.27
1	B	27	ALA	N-CA-C	7.42	121.23	112.93
1	F	353	HIS	ND1-CG-CD2	7.41	113.51	106.10
1	G	292	MET	CA-C-O	-7.41	112.69	120.55
1	G	350	THR	N-CA-CB	7.41	121.68	110.19
1	G	358	VAL	CA-CB-CG1	7.41	123.00	110.40
1	I	98	VAL	CB-CA-C	-7.41	102.31	112.02
1	I	129	GLN	CG-CD-OE1	7.41	135.63	120.80
1	K	111	LEU	N-CA-CB	7.41	123.02	110.49
1	B	393	LEU	O-C-N	-7.41	111.89	122.41
1	L	344	THR	CA-C-N	-7.41	111.35	122.47
1	L	344	THR	C-N-CA	-7.41	111.35	122.47
1	D	111	LEU	N-CA-C	-7.41	104.37	113.19
1	I	250	MET	CA-C-O	-7.41	110.12	119.31
1	J	155	MET	O-C-N	7.41	129.98	122.12
1	G	225	LYS	CB-CA-C	-7.41	101.43	111.88
1	G	297	LYS	N-CA-C	7.41	122.42	113.23
1	H	296	ALA	O-C-N	-7.41	113.16	122.27
1	I	471	ARG	NH1-CZ-NH2	-7.41	109.67	119.30
1	J	236	ASN	CB-CG-ND2	7.41	127.51	116.40
1	K	483	SER	N-CA-C	-7.41	104.22	113.55
1	O	330	SER	O-C-N	-7.41	114.41	122.85
1	L	143	GLY	CA-C-N	-7.41	107.89	121.52
1	L	143	GLY	C-N-CA	-7.41	107.89	121.52
1	L	421	THR	N-CA-CB	7.41	121.17	110.06
1	O	49	VAL	CA-C-O	-7.41	114.74	120.96
1	O	265	GLN	CA-C-N	7.41	136.87	121.32
1	O	265	GLN	C-N-CA	7.41	136.87	121.32
1	P	242	THR	CB-CA-C	7.41	121.92	109.48
1	P	309	ASP	N-CA-CB	7.41	123.01	110.49
1	P	486	MET	N-CA-CB	7.41	123.01	110.49
1	B	305	THR	O-C-N	-7.40	112.74	122.59
1	C	294	LYS	O-C-N	-7.40	113.16	122.27
1	E	273	GLN	CA-C-N	7.40	135.68	121.54
1	E	273	GLN	C-N-CA	7.40	135.68	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	386	GLU	CG-CD-OE1	7.40	135.43	118.40
1	I	245	GLU	CA-CB-CG	7.40	128.91	114.10
1	M	128	ALA	N-CA-CB	7.40	120.61	110.10
1	N	281	ILE	CA-C-O	-7.40	112.52	120.59
1	G	99	VAL	CA-C-N	7.40	133.24	120.58
1	G	99	VAL	C-N-CA	7.40	133.24	120.58
1	G	113	GLN	CA-C-O	-7.40	110.47	119.43
1	L	31	ILE	CB-CA-C	7.40	123.43	111.29
1	L	280	GLY	O-C-N	7.40	132.32	122.70
1	M	286	ARG	CB-CA-C	7.40	123.30	111.23
1	M	347	ILE	N-CA-CB	7.40	121.23	111.90
1	O	151	THR	O-C-N	-7.40	111.43	122.39
1	P	233	ALA	O-C-N	7.40	131.97	123.31
1	J	49	VAL	O-C-N	-7.40	114.56	123.00
1	J	141	GLU	O-C-N	-7.40	113.78	122.95
1	K	458	VAL	CA-C-O	7.40	129.72	121.13
1	L	366	VAL	O-C-N	-7.40	114.80	122.20
1	O	30	ILE	N-CA-C	7.40	124.73	109.34
1	O	122	LYS	CA-C-O	-7.40	112.70	120.55
1	H	117	PRO	N-CD-CG	-7.40	92.10	103.20
1	C	465	GLY	N-CA-C	-7.40	105.89	114.69
1	D	299	THR	CA-C-O	7.40	131.09	120.51
1	F	330	SER	N-CA-C	7.40	120.98	109.96
1	M	21	GLN	CB-CA-C	-7.40	98.46	110.74
1	M	398	GLU	N-CA-CB	7.40	123.44	110.42
1	A	74	ALA	CA-C-O	7.40	129.21	121.07
1	E	169	LYS	CA-C-O	7.40	128.25	119.60
1	N	272	ALA	O-C-N	-7.40	114.10	122.09
1	O	184	ASP	O-C-N	7.40	132.23	122.47
1	O	440	ALA	N-CA-CB	7.40	121.11	110.16
1	H	76	LYS	CA-C-N	7.39	135.66	121.54
1	H	76	LYS	C-N-CA	7.39	135.66	121.54
1	I	115	VAL	CA-CB-CG2	7.39	122.97	110.40
1	I	188	VAL	CA-C-O	-7.39	111.54	120.78
1	M	94	THR	CA-CB-CG2	7.39	123.07	110.50
1	P	462	CYS	N-CA-C	7.39	123.57	111.37
1	B	88	GLU	CG-CD-OE2	7.39	135.40	118.40
1	F	325	LYS	N-CA-CB	7.39	121.22	110.06
1	L	15	TYR	N-CA-CB	7.39	122.38	110.77
1	N	425	ASN	CB-CG-OD1	7.39	135.58	120.80
1	P	305	THR	O-C-N	-7.39	112.76	122.59
1	E	256	ALA	CA-C-N	7.39	131.98	120.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	256	ALA	C-N-CA	7.39	131.98	120.89
1	K	472	VAL	O-C-N	-7.39	113.33	122.57
1	H	142	VAL	CA-C-O	-7.39	111.54	120.78
1	H	178	VAL	N-CA-CB	7.39	123.42	111.23
1	J	317	ASP	CA-CB-CG	7.39	119.99	112.60
1	M	99	VAL	CA-C-O	7.39	130.02	120.78
1	N	117	PRO	CA-C-O	-7.39	107.15	120.60
1	B	425	ASN	CB-CA-C	7.39	125.12	110.42
1	J	140	CYS	CA-C-O	-7.39	109.95	120.51
1	P	245	GLU	CG-CD-OE1	7.39	135.39	118.40
1	G	436	LYS	O-C-N	-7.38	113.23	122.17
1	G	454	PHE	CD1-CG-CD2	7.38	129.68	118.60
1	I	480	ALA	CA-C-N	7.38	130.18	120.28
1	I	480	ALA	C-N-CA	7.38	130.18	120.28
1	J	310	LEU	O-C-N	7.38	131.95	122.87
1	J	352	GLU	CA-C-O	-7.38	109.95	120.51
1	N	287	VAL	O-C-N	-7.38	113.34	122.57
1	P	438	ARG	O-C-N	7.38	129.98	122.08
1	G	316	GLY	N-CA-C	7.38	123.16	112.60
1	G	347	ILE	N-CA-CB	7.38	123.41	111.23
1	A	93	THR	CA-CB-OG1	7.38	120.67	109.60
1	D	252	ALA	N-CA-C	7.38	121.39	112.38
1	F	253	GLU	CA-C-O	7.38	127.26	119.14
1	G	21	GLN	CG-CD-NE2	-7.38	105.33	116.40
1	N	497	GLU	CA-CB-CG	7.38	128.86	114.10
1	E	483	SER	CA-C-N	-7.38	111.57	122.86
1	E	483	SER	C-N-CA	-7.38	111.57	122.86
1	P	359	ALA	CB-CA-C	7.38	124.21	110.70
1	C	392	LYS	CA-C-O	7.38	129.00	120.00
1	D	157	SER	CA-C-O	-7.38	110.93	119.05
1	F	36	ARG	NE-CZ-NH2	7.38	125.84	119.20
1	L	455	THR	CA-C-O	7.38	128.23	119.60
1	N	209	ILE	CA-CB-CG1	7.38	122.94	110.40
1	N	313	GLN	OE1-CD-NE2	-7.38	115.22	122.60
1	P	394	ARG	N-CA-C	-7.38	102.62	111.69
1	B	340	PRO	CA-C-O	-7.38	113.14	121.11
1	L	107	ALA	CA-C-O	7.38	127.96	119.18
1	L	377	ARG	CD-NE-CZ	7.38	134.73	124.40
1	N	486	MET	N-CA-C	-7.38	95.09	110.80
1	B	358	VAL	CA-C-O	7.38	128.95	120.03
1	E	81	VAL	CA-CB-CG1	7.38	122.94	110.40
1	E	375	ASP	CA-CB-CG	-7.38	105.22	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	46	LYS	CA-C-N	-7.38	111.91	123.12
1	H	46	LYS	C-N-CA	-7.38	111.91	123.12
1	J	420	ARG	N-CA-C	7.38	119.32	111.28
1	L	381	GLY	O-C-N	-7.38	113.11	122.70
1	L	405	GLN	OE1-CD-NE2	-7.38	115.22	122.60
1	D	103	LEU	O-C-N	7.37	132.31	122.43
1	I	21	GLN	N-CA-C	-7.37	102.62	111.69
1	J	158	ILE	CA-C-O	-7.37	111.56	120.78
1	K	62	VAL	CA-C-O	-7.37	111.56	120.78
1	M	222	GLN	CB-CG-CD	7.37	125.13	112.60
1	H	437	VAL	O-C-N	7.37	132.24	121.99
1	H	447	LYS	O-C-N	-7.37	112.79	122.59
1	I	377	ARG	NE-CZ-NH1	-7.37	114.13	121.50
1	L	231	LYS	CA-C-O	-7.37	112.04	121.11
1	N	239	ILE	CA-CB-CG2	7.37	123.03	110.50
1	F	197	LYS	CA-C-O	-7.37	112.47	120.36
1	L	285	ARG	O-C-N	-7.37	113.87	123.16
1	A	7	VAL	CB-CA-C	-7.37	97.40	111.40
1	B	76	LYS	CA-C-O	-7.37	110.73	119.35
1	G	462	CYS	CA-C-O	-7.37	109.97	120.51
1	H	201	ALA	N-CA-C	7.37	126.50	110.80
1	L	412	ALA	N-CA-C	-7.37	101.74	111.24
1	A	195	ILE	CA-C-O	-7.37	111.57	120.78
1	M	154	ALA	N-CA-C	7.37	119.31	111.28
1	M	86	GLU	O-C-N	-7.37	113.26	122.17
1	N	273	GLN	CA-CB-CG	7.37	128.83	114.10
1	A	222	GLN	CA-CB-CG	7.36	128.83	114.10
1	B	298	ALA	O-C-N	-7.36	113.57	122.11
1	F	43	GLY	CA-C-O	-7.36	109.18	122.14
1	A	474	THR	N-CA-CB	7.36	120.94	110.12
1	I	76	LYS	CA-C-N	7.36	135.76	121.18
1	I	76	LYS	C-N-CA	7.36	135.76	121.18
1	E	198	LYS	N-CA-CB	-7.36	98.84	110.69
1	E	361	ALA	CA-C-N	7.36	132.33	120.55
1	E	361	ALA	C-N-CA	7.36	132.33	120.55
1	F	245	GLU	CA-C-N	7.36	138.74	121.52
1	F	245	GLU	C-N-CA	7.36	138.74	121.52
1	L	50	ASP	CB-CG-OD1	7.36	135.33	118.40
1	M	15	TYR	CA-C-N	7.36	135.79	121.66
1	M	15	TYR	C-N-CA	7.36	135.79	121.66
1	M	397	ALA	CA-C-O	7.36	128.43	119.97
1	O	59	ASN	O-C-N	-7.36	114.24	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	487	LEU	N-CA-CB	7.36	121.77	109.78
1	G	307	ILE	O-C-N	-7.36	113.37	122.57
1	I	8	LEU	CA-C-O	7.36	130.24	120.16
1	I	312	ALA	CA-C-O	-7.36	112.07	120.24
1	M	15	TYR	CG-CD2-CE2	-7.36	110.16	121.20
1	E	374	GLU	CB-CG-CD	7.36	125.10	112.60
1	M	116	HIS	CB-CG-ND1	-7.36	111.67	122.70
1	A	168	GLU	CA-C-O	-7.35	113.03	120.90
1	K	81	VAL	CA-C-O	7.35	128.58	120.71
1	K	388	GLU	N-CA-CB	7.35	121.04	110.16
1	L	57	VAL	CA-C-O	-7.35	109.81	121.36
1	B	125	GLN	CA-C-O	-7.35	113.17	120.89
1	C	240	GLU	OE1-CD-OE2	-7.35	105.26	122.90
1	G	79	ILE	CB-CA-C	7.35	122.37	112.22
1	K	80	GLU	CB-CA-C	-7.35	96.78	110.01
1	L	185	GLU	CA-C-O	-7.35	110.00	120.51
1	B	441	HIS	O-C-N	7.35	129.97	122.03
1	F	20	ALA	O-C-N	7.35	130.64	122.11
1	J	420	ARG	NH1-CZ-NH2	-7.35	109.74	119.30
1	L	84	THR	CA-C-N	-7.35	109.85	120.29
1	L	84	THR	C-N-CA	-7.35	109.85	120.29
1	O	298	ALA	CA-C-N	7.35	135.58	121.54
1	O	298	ALA	C-N-CA	7.35	135.58	121.54
1	A	271	LEU	O-C-N	7.35	132.18	122.33
1	D	178	VAL	CA-C-O	7.35	127.65	119.42
1	F	135	LEU	CA-C-O	-7.35	112.69	120.55
1	G	299	THR	CA-CB-OG1	7.35	120.62	109.60
1	M	193	ILE	CB-CG1-CD1	7.35	129.23	113.80
1	P	359	ALA	CA-C-O	-7.35	112.08	120.24
1	D	87	LYS	O-C-N	7.35	130.56	122.11
1	D	302	ASN	CB-CG-OD1	7.35	135.50	120.80
1	E	245	GLU	N-CA-C	7.35	126.45	110.80
1	H	403	ARG	CD-NE-CZ	-7.35	114.11	124.40
1	K	84	THR	CA-CB-OG1	7.35	120.62	109.60
1	L	90	GLY	O-C-N	7.35	132.25	122.70
1	L	403	ARG	N-CA-CB	7.35	121.76	109.78
1	B	427	GLY	CA-C-N	7.35	131.62	120.82
1	B	427	GLY	C-N-CA	7.35	131.62	120.82
1	J	169	LYS	N-CA-CB	-7.35	99.62	110.49
1	F	139	ALA	CA-C-O	-7.34	112.87	120.80
1	F	478	GLN	CA-C-O	-7.34	111.13	120.31
1	J	469	PRO	O-C-N	7.34	132.55	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	37	SER	N-CA-CB	-7.34	100.22	110.65
1	B	42	LYS	O-C-N	7.34	131.07	122.19
1	B	205	ASP	N-CA-C	-7.34	104.18	113.72
1	C	322	GLU	CA-C-O	-7.34	112.46	120.24
1	E	77	MET	CB-CA-C	7.34	125.81	110.32
1	G	400	ILE	CA-CB-CG2	7.34	122.98	110.50
1	I	490	ILE	CA-CB-CG2	7.34	122.98	110.50
1	N	247	LEU	N-CA-CB	7.34	121.14	110.20
1	N	282	VAL	CA-C-O	7.34	130.49	121.54
1	B	97	VAL	N-CA-C	7.34	124.60	109.34
1	J	479	SER	O-C-N	7.34	131.30	122.27
1	K	259	ALA	CA-C-O	-7.34	112.21	120.43
1	O	321	VAL	CA-C-N	7.34	134.04	122.74
1	O	321	VAL	C-N-CA	7.34	134.04	122.74
1	B	402	GLY	CA-C-O	7.34	129.51	122.25
1	C	458	VAL	CA-CB-CG2	7.34	122.87	110.40
1	F	469	PRO	CA-C-O	-7.34	107.25	120.60
1	I	285	ARG	O-C-N	7.34	131.54	123.10
1	N	249	ASP	N-CA-C	7.34	121.14	111.75
1	C	237	CYS	CA-C-O	-7.33	112.51	120.36
1	H	147	LYS	N-CA-CB	7.33	121.33	110.33
1	H	403	ARG	NH1-CZ-NH2	7.33	128.84	119.30
1	D	203	ILE	CA-C-N	7.33	133.92	122.26
1	D	203	ILE	C-N-CA	7.33	133.92	122.26
1	J	425	ASN	CA-C-O	-7.33	111.14	119.79
1	N	47	MET	CA-CB-CG	7.33	128.76	114.10
1	E	313	GLN	CA-C-N	7.33	135.54	121.54
1	E	313	GLN	C-N-CA	7.33	135.54	121.54
1	I	81	VAL	O-C-N	-7.33	113.53	122.18
1	N	445	GLY	CA-C-N	7.33	132.75	120.88
1	N	445	GLY	C-N-CA	7.33	132.75	120.88
1	C	359	ALA	N-CA-C	7.33	120.32	111.82
1	D	423	ALA	N-CA-C	7.33	122.50	112.90
1	E	414	ALA	CA-C-O	-7.33	111.14	119.79
1	G	10	GLU	CA-C-O	-7.33	112.89	120.80
1	K	294	LYS	CA-C-O	-7.33	113.35	120.90
1	P	30	ILE	CA-C-O	-7.33	111.62	120.78
1	B	130	LYS	N-CA-C	7.33	119.27	111.28
1	N	217	GLU	CA-C-O	-7.33	113.09	121.15
1	O	395	GLU	O-C-N	-7.33	112.35	122.46
1	B	162	GLY	O-C-N	-7.32	113.18	122.70
1	D	277	ALA	O-C-N	-7.32	113.26	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	494	ILE	CA-C-O	-7.32	112.25	120.74
1	A	48	LEU	N-CA-C	7.32	120.82	110.50
1	D	120	VAL	CA-CB-CG2	7.32	122.85	110.40
1	P	433	ILE	CA-C-O	-7.32	112.88	120.71
1	B	99	VAL	CA-C-N	7.32	133.10	120.58
1	B	99	VAL	C-N-CA	7.32	133.10	120.58
1	J	438	ARG	NE-CZ-NH2	-7.32	112.61	119.20
1	A	206	THR	CA-C-N	7.32	135.11	122.81
1	A	206	THR	C-N-CA	7.32	135.11	122.81
1	D	91	ASP	O-C-N	-7.32	113.81	122.81
1	F	369	VAL	N-CA-CB	7.32	121.56	110.58
1	H	184	ASP	N-CA-C	7.32	121.51	112.58
1	C	124	TYR	O-C-N	7.32	130.49	122.15
1	E	481	ALA	N-CA-C	7.32	119.26	111.28
1	G	236	ASN	OD1-CG-ND2	-7.32	115.28	122.60
1	G	270	ASP	N-CA-CB	7.32	121.10	110.20
1	J	108	GLU	O-C-N	7.32	129.99	122.09
1	K	399	GLY	CA-C-O	-7.32	107.84	120.57
1	K	466	VAL	CA-C-O	7.32	129.93	120.78
1	L	128	ALA	CB-CA-C	7.32	122.55	110.92
1	L	144	ALA	O-C-N	-7.32	111.97	122.36
1	N	228	THR	O-C-N	-7.32	112.86	122.59
1	A	301	ALA	CA-C-O	-7.32	113.80	121.55
1	B	471	ARG	CG-CD-NE	7.32	128.09	112.00
1	D	18	ARG	CA-C-O	7.32	128.47	119.11
1	H	231	LYS	CA-C-O	-7.32	112.51	121.58
1	N	62	VAL	CB-CA-C	-7.32	99.29	111.29
1	N	286	ARG	NE-CZ-NH2	7.32	125.78	119.20
1	B	325	LYS	CB-CA-C	7.31	124.97	110.42
1	P	114	ASN	N-CA-C	7.31	127.92	113.29
1	B	87	LYS	O-C-N	-7.31	113.48	122.11
1	F	332	ILE	O-C-N	7.31	131.29	122.95
1	I	192	LEU	N-CA-CB	7.31	122.85	110.49
1	I	259	ALA	CB-CA-C	-7.31	99.47	111.68
1	J	184	ASP	OD1-CG-OD2	-7.31	105.35	122.90
1	P	150	LEU	O-C-N	7.31	129.70	122.09
1	I	86	GLU	CA-C-O	-7.31	111.16	119.79
1	N	131	ALA	N-CA-CB	7.31	121.62	110.44
1	A	432	GLU	CB-CA-C	7.31	123.07	110.79
1	F	257	SER	CA-C-O	7.31	129.40	120.56
1	K	477	ILE	N-CA-CB	7.31	124.77	110.95
1	L	363	ASP	CA-C-N	7.31	130.67	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	363	ASP	C-N-CA	7.31	130.67	120.29
1	M	91	ASP	CA-CB-CG	7.31	119.91	112.60
1	O	24	ASN	CA-C-N	7.31	135.13	121.97
1	O	24	ASN	C-N-CA	7.31	135.13	121.97
1	P	36	ARG	NE-CZ-NH2	7.31	125.78	119.20
1	B	59	ASN	CA-C-N	7.31	132.20	121.31
1	B	59	ASN	C-N-CA	7.31	132.20	121.31
1	B	495	ALA	CB-CA-C	7.31	123.08	109.71
1	D	224	PRO	N-CD-CG	-7.31	92.24	103.20
1	E	404	GLU	CA-C-N	7.31	129.94	120.44
1	E	404	GLU	C-N-CA	7.31	129.94	120.44
1	F	136	LYS	CA-C-O	-7.31	112.02	120.20
1	G	271	LEU	CA-C-N	7.31	130.07	120.28
1	G	271	LEU	C-N-CA	7.31	130.07	120.28
1	G	422	LEU	CA-C-O	-7.31	111.84	120.10
1	I	64	ILE	CA-CB-CG1	7.31	122.82	110.40
1	I	405	GLN	CB-CG-CD	7.31	125.02	112.60
1	J	273	GLN	O-C-N	7.31	129.90	122.08
1	N	208	LEU	O-C-N	-7.31	114.07	122.84
1	C	215	ASP	CB-CG-OD1	7.31	135.20	118.40
1	F	218	ARG	O-C-N	-7.31	112.87	122.59
1	H	231	LYS	CA-CB-CG	7.31	128.71	114.10
1	M	195	ILE	CB-CA-C	-7.31	103.85	111.23
1	P	473	LYS	N-CA-C	7.31	120.11	111.71
1	A	294	LYS	CB-CA-C	7.30	123.27	110.85
1	C	465	GLY	CA-C-O	-7.30	111.45	119.27
1	D	359	ALA	O-C-N	7.30	132.78	122.41
1	H	358	VAL	O-C-N	7.30	132.20	122.12
1	I	27	ALA	CA-C-O	-7.30	113.18	120.70
1	J	47	MET	CA-C-O	7.30	130.09	121.11
1	G	275	TYR	CB-CA-C	7.30	123.06	110.79
1	P	411	PHE	CA-CB-CG	7.30	121.10	113.80
1	B	222	GLN	O-C-N	-7.30	114.44	122.03
1	C	333	PHE	CB-CG-CD1	-7.30	108.29	120.70
1	C	420	ARG	NH1-CZ-NH2	7.30	128.79	119.30
1	G	477	ILE	CA-CB-CG1	7.30	122.81	110.40
1	H	366	VAL	O-C-N	-7.30	112.49	122.05
1	D	242	THR	N-CA-C	7.30	119.66	109.15
1	N	269	ASP	O-C-N	-7.30	114.77	122.94
1	N	350	THR	CB-CA-C	-7.30	98.62	110.08
1	J	147	LYS	CA-C-O	-7.30	113.34	121.00
1	L	176	GLU	CB-CG-CD	-7.30	100.19	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	240	GLU	CA-C-N	7.30	133.71	122.11
1	O	240	GLU	C-N-CA	7.30	133.71	122.11
1	D	302	ASN	OD1-CG-ND2	-7.30	115.30	122.60
1	H	286	ARG	N-CA-C	7.30	126.34	110.80
1	I	365	ALA	N-CA-C	7.30	121.83	112.34
1	L	374	GLU	CG-CD-OE1	7.30	135.18	118.40
1	N	189	ASP	OD1-CG-OD2	-7.30	105.39	122.90
1	H	19	ASP	CA-C-O	-7.29	111.86	120.10
1	D	234	LEU	O-C-N	-7.29	113.49	123.12
1	E	347	ILE	CA-C-O	-7.29	111.21	120.69
1	F	453	VAL	O-C-N	7.29	128.94	121.87
1	J	258	GLY	CA-C-N	7.29	135.16	122.32
1	J	258	GLY	C-N-CA	7.29	135.16	122.32
1	K	53	GLY	CA-C-N	7.29	131.48	121.05
1	K	53	GLY	C-N-CA	7.29	131.48	121.05
1	L	50	ASP	CA-CB-CG	-7.29	105.31	112.60
1	L	218	ARG	CA-C-N	7.29	135.10	121.97
1	L	218	ARG	C-N-CA	7.29	135.10	121.97
1	L	344	THR	N-CA-C	-7.29	100.70	110.55
1	C	151	THR	CA-C-O	-7.29	110.27	119.31
1	D	368	VAL	CA-C-N	7.29	135.09	121.97
1	D	368	VAL	C-N-CA	7.29	135.09	121.97
1	F	22	ARG	NH1-CZ-NH2	7.29	128.78	119.30
1	N	208	LEU	CA-C-N	7.29	133.95	121.63
1	N	208	LEU	C-N-CA	7.29	133.95	121.63
1	O	351	THR	CA-CB-OG1	7.29	120.54	109.60
1	H	145	GLN	N-CA-CB	7.29	122.66	110.41
1	M	212	VAL	CB-CA-C	7.29	121.12	110.77
1	G	321	VAL	CA-C-O	7.29	127.45	120.31
1	H	254	ILE	N-CA-C	7.29	124.50	109.34
1	H	310	LEU	O-C-N	-7.29	114.91	123.22
1	O	35	VAL	CA-C-N	7.29	130.37	120.38
1	O	35	VAL	C-N-CA	7.29	130.37	120.38
1	E	243	ALA	O-C-N	-7.29	112.90	122.59
1	F	120	VAL	N-CA-C	-7.29	102.31	110.62
1	L	307	ILE	CA-C-O	-7.29	112.96	121.05
1	A	398	GLU	N-CA-CB	7.29	122.80	110.49
1	C	467	VAL	O-C-N	-7.29	115.17	122.97
1	C	481	ALA	CA-C-N	7.29	135.79	121.58
1	C	481	ALA	C-N-CA	7.29	135.79	121.58
1	D	325	LYS	CA-CB-CG	7.29	128.67	114.10
1	F	52	LEU	N-CA-C	7.29	120.14	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	260	ASN	O-C-N	7.29	132.19	122.43
1	N	274	HIS	ND1-CE1-NE2	7.29	115.69	108.40
1	A	157	SER	N-CA-C	7.28	120.27	111.82
1	G	414	ALA	CA-C-O	-7.28	112.15	120.24
1	H	264	CYS	CA-C-O	-7.28	112.99	120.71
1	K	234	LEU	O-C-N	-7.28	114.06	123.02
1	N	198	LYS	O-C-N	-7.28	114.36	123.17
1	D	239	ILE	CA-C-N	7.28	134.66	123.23
1	D	239	ILE	C-N-CA	7.28	134.66	123.23
1	E	432	GLU	N-CA-C	7.28	119.11	111.03
1	H	93	THR	O-C-N	7.28	129.84	122.12
1	D	56	VAL	O-C-N	-7.28	113.47	122.57
1	J	257	SER	O-C-N	-7.28	112.91	122.59
1	P	129	GLN	CB-CG-CD	7.28	124.98	112.60
1	C	52	LEU	O-C-N	-7.28	112.68	122.43
1	G	353	HIS	ND1-CE1-NE2	7.28	115.68	108.40
1	N	58	THR	CA-CB-CG2	-7.28	98.12	110.50
1	P	494	ILE	CB-CA-C	-7.28	99.35	111.29
1	E	216	LYS	N-CA-C	7.28	121.69	109.76
1	F	156	THR	O-C-N	7.28	130.50	122.20
1	G	433	ILE	CB-CA-C	-7.28	102.49	112.24
1	H	74	ALA	O-C-N	7.28	129.83	122.12
1	I	305	THR	N-CA-CB	7.28	122.79	110.49
1	K	159	THR	CA-C-N	7.28	135.67	121.41
1	K	159	THR	C-N-CA	7.28	135.67	121.41
1	P	456	GLY	CA-C-O	-7.28	107.91	120.57
1	B	290	SER	N-CA-CB	7.28	122.79	110.49
1	D	54	ASP	CA-C-O	-7.28	113.03	120.96
1	J	302	ASN	CA-CB-CG	7.28	119.88	112.60
1	N	119	ILE	CA-CB-CG1	7.28	122.77	110.40
1	I	339	HIS	CA-C-O	-7.27	110.19	120.16
1	O	251	VAL	CB-CA-C	7.27	121.25	111.87
1	D	72	HIS	CG-CD2-NE2	7.27	114.47	107.20
1	E	433	ILE	CB-CA-C	-7.27	100.48	112.26
1	H	193	ILE	CA-CB-CG2	7.27	122.86	110.50
1	L	191	ASP	N-CA-CB	7.27	121.42	110.22
1	N	113	GLN	CB-CG-CD	-7.27	100.24	112.60
1	N	285	ARG	CA-C-N	7.27	133.96	122.61
1	N	285	ARG	C-N-CA	7.27	133.96	122.61
1	O	9	PRO	CA-C-N	7.27	133.46	121.39
1	O	9	PRO	C-N-CA	7.27	133.46	121.39
1	E	49	VAL	CA-CB-CG2	-7.27	98.04	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	347	ILE	CA-CB-CG1	7.27	122.76	110.40
1	I	155	MET	CB-CA-C	7.27	123.04	110.68
1	J	138	ILE	CB-CA-C	-7.27	99.16	111.37
1	M	236	ASN	CA-CB-CG	7.27	119.87	112.60
1	M	287	VAL	O-C-N	-7.27	114.75	122.67
1	M	407	ALA	O-C-N	7.27	130.54	122.11
1	P	193	ILE	N-CA-C	7.27	118.27	107.15
1	C	68	MET	CG-SD-CE	7.27	116.89	100.90
1	F	412	ALA	O-C-N	7.27	130.68	122.32
1	H	147	LYS	CA-CB-CG	7.27	128.64	114.10
1	H	305	THR	O-C-N	-7.27	112.92	122.59
1	K	248	LYS	O-C-N	7.27	132.17	122.43
1	M	155	MET	CA-CB-CG	7.27	128.63	114.10
1	M	274	HIS	CB-CG-CD2	7.27	140.65	131.20
1	P	109	GLU	CA-C-O	-7.27	111.89	120.10
1	G	392	LYS	CG-CD-CE	7.27	128.01	111.30
1	J	342	ALA	CA-C-O	-7.27	110.12	120.51
1	K	313	GLN	CA-C-O	-7.27	110.12	120.51
1	A	129	GLN	CG-CD-OE1	7.26	135.33	120.80
1	D	66	ARG	O-C-N	7.26	129.82	122.12
1	E	317	ASP	CB-CA-C	7.26	120.94	111.42
1	B	352	GLU	CB-CA-C	7.26	124.55	110.46
1	C	185	GLU	N-CA-C	7.26	126.27	110.80
1	I	10	GLU	CA-C-O	7.26	130.90	120.51
1	M	96	ALA	CA-C-O	7.26	128.45	120.82
1	P	32	ALA	CB-CA-C	-7.26	99.48	110.88
1	P	307	ILE	N-CA-CB	7.26	123.21	111.23
1	C	270	ASP	O-C-N	-7.26	112.93	122.59
1	E	7	VAL	CA-CB-CG2	-7.26	98.05	110.40
1	E	471	ARG	N-CA-CB	7.26	121.62	109.78
1	E	481	ALA	O-C-N	7.26	129.82	122.12
1	F	211	GLY	N-CA-C	7.26	121.72	111.19
1	J	236	ASN	N-CA-CB	-7.26	99.88	110.70
1	K	136	LYS	CB-CA-C	7.26	124.87	110.42
1	L	238	ALA	CA-C-N	7.26	131.26	122.26
1	L	238	ALA	C-N-CA	7.26	131.26	122.26
1	O	451	LEU	N-CA-CB	7.26	123.35	110.79
1	A	22	ARG	O-C-N	7.26	130.46	122.11
1	A	117	PRO	N-CA-CB	7.26	110.87	103.25
1	A	151	THR	CA-C-N	7.26	130.31	120.44
1	A	151	THR	C-N-CA	7.26	130.31	120.44
1	C	409	ARG	CA-C-O	7.26	128.12	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	486	MET	N-CA-CB	7.26	122.76	110.49
1	G	120	VAL	N-CA-CB	7.26	123.21	111.23
1	I	208	LEU	CB-CA-C	-7.26	101.09	111.76
1	M	411	PHE	CD1-CG-CD2	-7.26	107.71	118.60
1	N	329	ASP	O-C-N	-7.26	112.94	122.59
1	A	221	ALA	CA-C-N	7.26	130.01	120.28
1	A	221	ALA	C-N-CA	7.26	130.01	120.28
1	L	304	ILE	N-CA-C	7.26	119.27	108.96
1	M	361	ALA	CA-C-N	7.26	129.70	122.66
1	M	361	ALA	C-N-CA	7.26	129.70	122.66
1	P	315	LEU	N-CA-CB	7.26	123.00	110.81
1	D	14	ARG	NE-CZ-NH1	7.26	128.76	121.50
1	O	11	ASN	OD1-CG-ND2	-7.26	115.34	122.60
1	I	288	LYS	CB-CG-CD	7.25	127.99	111.30
1	C	271	LEU	O-C-N	-7.25	112.94	122.59
1	L	484	THR	N-CA-C	7.25	121.78	113.15
1	P	326	ILE	CA-C-O	-7.25	112.67	120.36
1	P	366	VAL	CA-C-O	7.25	126.89	119.20
1	B	132	GLN	CA-CB-CG	7.25	128.60	114.10
1	G	182	VAL	CA-CB-CG1	-7.25	98.07	110.40
1	H	216	LYS	N-CA-C	7.25	117.81	108.24
1	H	383	GLY	CA-C-N	7.25	132.63	120.88
1	H	383	GLY	C-N-CA	7.25	132.63	120.88
1	K	23	MET	CA-C-N	7.25	130.33	120.54
1	K	23	MET	C-N-CA	7.25	130.33	120.54
1	O	463	GLU	N-CA-C	7.25	120.11	111.33
1	A	20	ALA	N-CA-C	7.25	118.87	110.97
1	C	477	ILE	CA-CB-CG1	7.25	122.72	110.40
1	A	187	LYS	CG-CD-CE	7.25	127.97	111.30
1	A	357	GLU	N-CA-CB	7.25	120.49	109.98
1	B	331	MET	CA-C-O	7.25	129.45	120.54
1	A	481	ALA	O-C-N	7.25	130.46	122.20
1	F	141	GLU	N-CA-C	7.25	120.72	110.50
1	F	251	VAL	N-CA-C	7.25	118.04	110.72
1	H	107	ALA	CA-C-N	7.25	129.86	120.44
1	H	107	ALA	C-N-CA	7.25	129.86	120.44
1	H	348	ARG	CA-C-N	7.25	131.25	121.83
1	H	348	ARG	C-N-CA	7.25	131.25	121.83
1	G	432	GLU	CA-C-O	7.24	128.43	120.82
1	N	234	LEU	N-CA-C	7.24	121.05	109.24
1	A	113	GLN	O-C-N	-7.24	112.96	122.59
1	A	304	ILE	O-C-N	-7.24	113.52	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	279	GLU	CA-C-O	-7.24	112.88	120.55
1	F	316	GLY	CA-C-O	7.24	130.37	122.33
1	G	352	GLU	N-CA-C	7.24	123.32	111.37
1	L	215	ASP	CB-CG-OD1	7.24	135.06	118.40
1	O	106	LYS	O-C-N	-7.24	113.90	122.15
1	D	95	THR	CA-C-O	-7.24	112.81	120.55
1	E	70	VAL	CA-CB-CG1	7.24	122.71	110.40
1	L	341	LYS	N-CA-CB	7.24	120.97	110.47
1	N	457	ALA	O-C-N	7.24	131.20	122.88
1	J	223	MET	N-CA-CB	7.24	123.25	110.37
1	N	110	LEU	O-C-N	7.24	132.38	122.46
1	P	270	ASP	CB-CA-C	7.24	124.82	110.42
1	P	374	GLU	O-C-N	-7.24	113.37	122.27
1	A	47	MET	CA-C-N	7.24	132.30	120.94
1	A	47	MET	C-N-CA	7.24	132.30	120.94
1	E	461	MET	CB-CA-C	7.24	124.82	110.42
1	I	84	THR	N-CA-CB	7.24	120.72	109.94
1	I	366	VAL	CA-C-O	7.24	127.90	119.36
1	J	377	ARG	NE-CZ-NH1	-7.24	114.26	121.50
1	K	323	GLU	N-CA-CB	7.24	121.31	109.88
1	L	206	THR	O-C-N	-7.24	114.47	123.01
1	L	294	LYS	N-CA-C	7.24	121.69	113.01
1	P	480	ALA	O-C-N	-7.24	113.72	122.48
1	D	314	ASP	O-C-N	-7.23	112.97	122.59
1	O	271	LEU	CA-CB-CG	7.23	141.62	116.30
1	C	71	GLU	O-C-N	-7.23	113.19	122.09
1	J	111	LEU	N-CA-CB	7.23	122.71	110.49
1	C	468	GLU	OE1-CD-OE2	-7.23	105.55	122.90
1	D	285	ARG	NH1-CZ-NH2	-7.23	109.90	119.30
1	L	439	ALA	CB-CA-C	7.23	122.79	110.79
1	L	472	VAL	CA-CB-CG1	7.23	122.69	110.40
1	G	94	THR	N-CA-CB	7.23	122.71	110.49
1	L	432	GLU	N-CA-CB	7.23	121.17	110.33
1	F	129	GLN	N-CA-C	7.23	121.34	112.23
1	G	218	ARG	CB-CA-C	7.23	121.10	110.26
1	J	251	VAL	N-CA-C	7.23	118.88	111.00
1	C	432	GLU	CB-CA-C	7.23	122.93	110.79
1	F	399	GLY	CA-C-N	7.23	129.54	120.72
1	F	399	GLY	C-N-CA	7.23	129.54	120.72
1	G	274	HIS	CB-CG-CD2	-7.23	121.81	131.20
1	H	195	ILE	CB-CA-C	7.23	123.14	111.29
1	I	286	ARG	NH1-CZ-NH2	-7.23	109.91	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	313	GLN	O-C-N	-7.22	111.44	123.00
1	P	404	GLU	CA-C-N	7.22	135.34	121.54
1	P	404	GLU	C-N-CA	7.22	135.34	121.54
1	P	446	ASN	CA-CB-CG	-7.22	105.38	112.60
1	A	298	ALA	O-C-N	-7.22	112.98	122.59
1	A	421	THR	CA-CB-OG1	7.22	120.43	109.60
1	P	371	CYS	N-CA-C	7.22	126.18	110.80
1	F	12	MET	N-CA-C	7.22	120.70	107.99
1	M	278	LYS	CB-CA-C	7.22	122.78	110.79
1	F	205	ASP	N-CA-C	7.22	126.18	110.80
1	F	479	SER	N-CA-CB	7.22	121.34	110.22
1	H	35	VAL	CG1-CB-CG2	7.22	126.68	110.80
1	H	51	ASP	CA-CB-CG	-7.22	105.38	112.60
1	K	221	ALA	N-CA-CB	-7.22	98.40	110.39
1	I	338	LYS	CA-C-O	-7.22	112.83	120.55
1	L	320	LEU	O-C-N	-7.22	113.71	123.24
1	M	291	ASP	CA-C-N	7.22	132.67	121.19
1	M	291	ASP	C-N-CA	7.22	132.67	121.19
1	O	288	LYS	CB-CA-C	7.22	122.54	109.62
1	A	111	LEU	CA-C-N	7.22	137.39	121.80
1	A	111	LEU	C-N-CA	7.22	137.39	121.80
1	D	225	LYS	CA-C-N	7.22	135.32	121.54
1	D	225	LYS	C-N-CA	7.22	135.32	121.54
1	F	66	ARG	CG-CD-NE	-7.22	96.12	112.00
1	J	91	ASP	N-CA-CB	7.22	121.17	109.69
1	E	195	ILE	CA-C-O	-7.21	111.76	120.78
1	G	198	LYS	O-C-N	-7.21	114.05	123.28
1	H	72	HIS	CA-CB-CG	-7.21	106.58	113.80
1	J	73	PRO	CA-C-N	7.21	130.17	120.65
1	J	73	PRO	C-N-CA	7.21	130.17	120.65
1	J	325	LYS	O-C-N	7.21	131.48	123.04
1	M	430	ALA	N-CA-CB	7.21	120.67	110.07
1	O	39	LEU	CA-C-O	7.21	129.11	120.81
1	O	302	ASN	CB-CA-C	7.21	122.27	110.22
1	P	346	LEU	O-C-N	7.21	131.72	123.06
1	M	285	ARG	NE-CZ-NH2	-7.21	112.71	119.20
1	O	92	GLY	CA-C-N	7.21	135.32	121.54
1	O	92	GLY	C-N-CA	7.21	135.32	121.54
1	B	112	ASP	O-C-N	-7.21	112.51	122.46
1	B	229	ASP	CA-CB-CG	7.21	119.81	112.60
1	K	72	HIS	CB-CA-C	7.21	121.46	109.85
1	L	345	MET	CB-CA-C	-7.21	100.99	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	356	GLU	CA-C-N	7.21	130.44	120.63
1	L	356	GLU	C-N-CA	7.21	130.44	120.63
1	N	98	VAL	CA-CB-CG1	7.21	122.66	110.40
1	N	338	LYS	O-C-N	-7.21	113.00	122.59
1	A	297	LYS	CA-C-N	7.21	135.31	121.54
1	A	297	LYS	C-N-CA	7.21	135.31	121.54
1	A	217	GLU	N-CA-CB	-7.21	98.66	110.41
1	B	68	MET	O-C-N	-7.21	113.00	122.59
1	G	454	PHE	CA-C-O	-7.21	112.84	120.55
1	I	56	VAL	CA-C-O	-7.21	111.77	120.78
1	B	474	THR	CA-CB-OG1	7.21	120.41	109.60
1	D	212	VAL	CA-C-N	-7.21	112.63	122.86
1	D	212	VAL	C-N-CA	-7.21	112.63	122.86
1	H	446	ASN	CB-CA-C	-7.21	99.56	110.88
1	P	336	GLU	CG-CD-OE1	-7.21	101.82	118.40
1	K	218	ARG	NE-CZ-NH2	-7.21	112.72	119.20
1	H	372	THR	O-C-N	-7.20	111.68	122.20
1	H	490	ILE	CA-C-O	7.20	129.78	120.78
1	L	202	SER	O-C-N	-7.20	112.80	122.74
1	L	393	LEU	CB-CA-C	7.20	124.17	109.55
1	M	389	LEU	CA-C-O	-7.20	112.91	120.55
1	E	422	LEU	CB-CA-C	7.20	122.75	110.79
1	G	321	VAL	O-C-N	-7.20	116.04	123.03
1	H	493	VAL	CA-C-O	7.20	132.67	121.36
1	L	314	ASP	CA-C-O	7.20	130.81	120.51
1	O	346	LEU	CA-C-O	-7.20	113.11	120.96
1	A	342	ALA	N-CA-CB	7.20	121.88	110.65
1	B	431	ILE	N-CA-C	7.20	118.83	110.62
1	B	494	ILE	O-C-N	-7.20	115.30	122.93
1	E	181	VAL	O-C-N	-7.20	112.33	121.84
1	G	336	GLU	CB-CG-CD	7.20	124.84	112.60
1	I	477	ILE	CA-CB-CG1	7.20	122.64	110.40
1	K	116	HIS	ND1-CG-CD2	7.20	113.30	106.10
1	A	352	GLU	CB-CG-CD	7.20	124.84	112.60
1	D	11	ASN	O-C-N	-7.20	113.02	122.59
1	D	69	SER	N-CA-CB	7.20	122.66	110.49
1	E	408	VAL	CA-C-O	-7.20	113.46	120.95
1	J	396	TYR	CB-CG-CD2	7.20	131.60	120.80
1	K	357	GLU	N-CA-C	-7.20	102.44	112.45
1	M	247	LEU	O-C-N	-7.20	112.78	122.43
1	P	360	ARG	NE-CZ-NH2	-7.20	112.72	119.20
1	D	368	VAL	CA-C-O	-7.20	112.48	120.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	362	VAL	N-CA-C	7.20	118.84	111.00
1	L	438	ARG	CD-NE-CZ	-7.20	114.32	124.40
1	N	145	GLN	OE1-CD-NE2	-7.20	115.40	122.60
1	P	414	ALA	CA-C-O	-7.20	113.49	120.90
1	G	146	ASP	CA-CB-CG	7.20	119.80	112.60
1	G	421	THR	CA-CB-OG1	7.20	120.39	109.60
1	H	320	LEU	CA-C-O	-7.20	111.69	120.54
1	I	477	ILE	N-CA-CB	7.20	122.58	110.56
1	N	414	ALA	N-CA-C	7.20	120.54	111.69
1	O	297	LYS	CA-C-N	7.20	135.28	121.54
1	O	297	LYS	C-N-CA	7.20	135.28	121.54
1	P	121	VAL	CA-C-O	-7.20	113.54	121.17
1	E	270	ASP	CA-CB-CG	-7.19	105.41	112.60
1	L	430	ALA	CB-CA-C	7.19	123.08	110.85
1	C	199	SER	N-CA-C	7.19	126.12	110.80
1	D	360	ARG	N-CA-CB	7.19	121.42	110.42
1	E	115	VAL	N-CA-CB	7.19	123.10	111.23
1	I	378	ILE	CA-C-O	-7.19	113.50	121.92
1	P	248	LYS	N-CA-C	7.19	119.01	111.03
1	P	339	HIS	CB-CG-ND1	7.19	133.49	122.70
1	A	31	ILE	CA-C-N	7.19	137.33	121.80
1	A	31	ILE	C-N-CA	7.19	137.33	121.80
1	G	88	GLU	O-C-N	-7.19	113.03	122.59
1	M	365	ALA	O-C-N	-7.19	114.61	122.09
1	H	491	ASP	CA-CB-CG	-7.19	105.41	112.60
1	A	488	LEU	CA-C-N	7.19	135.27	121.54
1	A	488	LEU	C-N-CA	7.19	135.27	121.54
1	E	40	GLY	N-CA-C	7.19	127.00	112.34
1	F	474	THR	CA-CB-OG1	7.19	120.38	109.60
1	K	135	LEU	N-CA-CB	7.19	121.11	110.33
1	L	62	VAL	CA-C-O	-7.19	111.80	120.78
1	N	273	GLN	N-CA-CB	7.19	120.84	110.06
1	F	177	ALA	CA-C-O	7.18	128.47	119.78
1	J	341	LYS	O-C-N	-7.18	112.92	122.19
1	J	356	GLU	CA-C-O	-7.18	111.13	119.61
1	K	31	ILE	CA-C-O	7.18	129.76	120.78
1	K	85	GLN	CB-CG-CD	7.18	124.81	112.60
1	L	261	VAL	CA-C-O	-7.18	112.95	120.64
1	N	87	LYS	CA-C-N	7.18	135.26	121.54
1	N	87	LYS	C-N-CA	7.18	135.26	121.54
1	N	453	VAL	O-C-N	7.18	129.92	121.80
1	K	420	ARG	NE-CZ-NH2	-7.18	112.74	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	496	ALA	N-CA-C	7.18	126.10	110.80
1	H	273	GLN	CA-CB-CG	7.18	128.46	114.10
1	K	158	ILE	CB-CA-C	-7.18	99.52	111.29
1	L	426	ALA	O-C-N	-7.18	110.92	122.41
1	L	496	ALA	O-C-N	-7.18	114.51	123.27
1	N	76	LYS	CA-C-O	7.18	128.26	119.79
1	N	266	LYS	CA-C-O	-7.18	112.66	120.92
1	A	316	GLY	CA-C-O	-7.18	114.32	121.93
1	F	8	LEU	O-C-N	7.18	128.27	121.38
1	A	113	GLN	CA-C-N	7.18	135.25	121.54
1	A	113	GLN	C-N-CA	7.18	135.25	121.54
1	G	205	ASP	CA-C-O	-7.18	110.18	119.80
1	J	388	GLU	N-CA-C	-7.18	102.86	111.69
1	K	393	LEU	CA-C-O	7.18	127.33	119.15
1	N	404	GLU	O-C-N	7.18	132.05	122.43
1	O	214	VAL	CA-C-O	7.18	128.61	121.72
1	A	464	ASN	CA-CB-CG	-7.17	105.43	112.60
1	B	88	GLU	OE1-CD-OE2	-7.17	105.68	122.90
1	H	84	THR	N-CA-CB	7.17	122.09	110.40
1	K	340	PRO	CB-CA-C	-7.17	102.20	111.46
1	L	342	ALA	N-CA-CB	7.17	122.61	110.49
1	M	326	ILE	CA-C-O	-7.17	113.48	121.09
1	N	442	ALA	CA-C-O	-7.17	110.64	119.18
1	O	412	ALA	O-C-N	7.17	131.99	122.30
1	B	163	ALA	O-C-N	7.17	132.13	122.59
1	G	286	ARG	CA-C-N	7.17	131.16	120.69
1	G	286	ARG	C-N-CA	7.17	131.16	120.69
1	H	374	GLU	OE1-CD-OE2	-7.17	105.69	122.90
1	K	46	LYS	CA-C-N	-7.17	112.30	123.13
1	K	46	LYS	C-N-CA	-7.17	112.30	123.13
1	B	420	ARG	O-C-N	-7.17	113.65	122.11
1	I	287	VAL	O-C-N	-7.17	114.41	122.66
1	L	370	GLY	O-C-N	7.17	130.43	122.54
1	P	222	GLN	CA-C-O	-7.17	110.65	119.18
1	C	406	LEU	CA-C-O	-7.17	110.26	120.51
1	G	63	THR	N-CA-CB	7.17	122.61	110.49
1	A	286	ARG	CA-C-O	-7.17	110.26	120.51
1	E	116	HIS	CB-CA-C	7.17	124.29	110.17
1	F	68	MET	N-CA-CB	-7.17	98.38	110.49
1	E	401	SER	CA-C-O	-7.17	110.26	120.51
1	F	203	ILE	N-CA-CB	-7.17	99.41	111.23
1	D	122	LYS	CA-CB-CG	7.17	128.43	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	491	ASP	CB-CG-OD2	7.17	134.88	118.40
1	H	56	VAL	CA-CB-CG1	7.17	122.58	110.40
1	H	344	THR	CA-C-O	-7.17	112.76	121.36
1	B	22	ARG	NH1-CZ-NH2	7.16	128.61	119.30
1	H	63	THR	N-CA-CB	7.16	122.50	110.32
1	J	12	MET	N-CA-C	7.16	121.51	109.76
1	J	280	GLY	CA-C-N	7.16	131.32	122.37
1	J	280	GLY	C-N-CA	7.16	131.32	122.37
1	I	216	LYS	CA-C-O	-7.16	113.01	120.89
1	M	198	LYS	CA-C-N	7.16	131.29	121.05
1	M	198	LYS	C-N-CA	7.16	131.29	121.05
1	B	381	GLY	CA-C-O	-7.16	114.74	122.76
1	C	69	SER	CA-C-N	7.16	134.86	121.97
1	C	69	SER	C-N-CA	7.16	134.86	121.97
1	F	431	ILE	CA-C-O	-7.16	113.60	121.05
1	G	431	ILE	CA-CB-CG1	7.16	122.57	110.40
1	H	351	THR	O-C-N	-7.16	113.73	122.68
1	L	207	GLU	N-CA-C	7.16	120.77	109.81
1	A	242	THR	CA-CB-OG1	7.16	120.34	109.60
1	K	327	SER	CA-C-O	-7.16	111.84	119.00
1	D	421	THR	N-CA-CB	7.16	122.58	110.49
1	H	232	ILE	O-C-N	7.16	128.95	122.65
1	K	184	ASP	OD1-CG-OD2	-7.16	105.72	122.90
1	N	266	LYS	O-C-N	-7.16	114.86	123.16
1	O	152	LYS	O-C-N	-7.16	112.77	122.36
1	A	236	ASN	CB-CG-OD1	7.15	135.11	120.80
1	A	414	ALA	CA-C-O	-7.15	112.02	120.10
1	D	22	ARG	NE-CZ-NH1	7.15	128.65	121.50
1	E	76	LYS	O-C-N	7.15	132.52	122.36
1	N	279	GLU	CA-C-N	7.15	135.43	121.41
1	N	279	GLU	C-N-CA	7.15	135.43	121.41
1	P	191	ASP	N-CA-C	7.15	122.00	113.28
1	A	430	ALA	N-CA-CB	7.15	120.35	109.91
1	E	15	TYR	CB-CG-CD2	7.15	131.52	120.80
1	E	149	ILE	CA-C-O	-7.15	110.92	119.36
1	L	58	THR	N-CA-C	7.15	120.31	109.23
1	A	24	ASN	CB-CG-ND2	-7.15	105.68	116.40
1	A	434	LEU	CA-C-O	-7.15	110.59	119.38
1	E	220	SER	N-CA-CB	7.15	120.85	110.06
1	G	98	VAL	O-C-N	7.15	129.33	121.90
1	G	426	ALA	O-C-N	7.15	130.85	122.20
1	O	14	ARG	CD-NE-CZ	7.15	134.41	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	176	GLU	CA-C-O	-7.15	112.31	120.24
1	D	466	VAL	O-C-N	-7.15	113.64	122.57
1	L	45	ASP	CA-C-N	7.15	134.66	122.37
1	L	45	ASP	C-N-CA	7.15	134.66	122.37
1	A	89	VAL	N-CA-C	7.14	123.81	113.16
1	A	198	LYS	CA-C-O	-7.14	113.10	121.46
1	C	485	GLU	N-CA-C	7.14	119.15	111.36
1	D	285	ARG	CA-C-N	7.14	135.19	121.54
1	D	285	ARG	C-N-CA	7.14	135.19	121.54
1	I	55	VAL	N-CA-C	7.14	118.11	108.11
1	P	431	ILE	N-CA-CB	7.14	122.87	110.65
1	C	159	THR	CA-C-O	-7.14	112.79	121.36
1	D	294	LYS	CA-C-N	7.14	132.65	120.72
1	D	294	LYS	C-N-CA	7.14	132.65	120.72
1	H	93	THR	CA-C-O	-7.14	112.98	120.55
1	I	314	ASP	CA-C-O	-7.14	110.30	120.51
1	K	413	ASP	CA-C-N	7.14	132.82	120.68
1	K	413	ASP	C-N-CA	7.14	132.82	120.68
1	N	413	ASP	CA-CB-CG	-7.14	105.46	112.60
1	J	347	ILE	CA-CB-CG2	7.14	122.64	110.50
1	K	284	ALA	CA-C-N	7.14	133.29	122.65
1	K	284	ALA	C-N-CA	7.14	133.29	122.65
1	K	411	PHE	CE1-CZ-CE2	-7.14	107.15	120.00
1	L	377	ARG	CG-CD-NE	7.14	127.71	112.00
1	E	274	HIS	CB-CG-ND1	-7.14	111.99	122.70
1	H	222	GLN	OE1-CD-NE2	7.14	129.74	122.60
1	H	412	ALA	CA-C-O	7.14	128.19	120.55
1	L	423	ALA	O-C-N	-7.14	114.44	122.08
1	L	449	ALA	O-C-N	7.14	132.09	122.59
1	B	407	ALA	O-C-N	7.14	129.74	122.03
1	M	82	ALA	CA-C-N	7.14	130.16	120.38
1	M	82	ALA	C-N-CA	7.14	130.16	120.38
1	E	294	LYS	N-CA-CB	7.14	121.02	110.53
1	F	73	PRO	CA-C-N	7.14	135.17	121.54
1	F	73	PRO	C-N-CA	7.14	135.17	121.54
1	G	63	THR	CB-CA-C	7.14	124.62	110.42
1	J	452	ASN	CA-CB-CG	-7.14	105.46	112.60
1	L	420	ARG	N-CA-C	7.14	118.85	111.14
1	A	290	SER	N-CA-CB	7.13	122.55	110.49
1	G	182	VAL	O-C-N	-7.13	115.39	122.67
1	G	401	SER	CA-C-O	-7.13	110.31	120.51
1	J	183	ASP	CB-CA-C	-7.13	98.47	109.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	296	ALA	CA-C-N	-7.13	109.32	122.09
1	M	296	ALA	C-N-CA	-7.13	109.32	122.09
1	N	188	VAL	CA-CB-CG2	7.13	122.53	110.40
1	N	259	ALA	CA-C-O	-7.13	113.13	120.84
1	N	442	ALA	O-C-N	7.13	132.54	122.41
1	O	291	ASP	N-CA-C	7.13	121.68	113.19
1	B	291	ASP	CA-CB-CG	7.13	119.73	112.60
1	E	86	GLU	N-CA-CB	7.13	120.60	110.12
1	F	208	LEU	O-C-N	7.13	132.09	122.82
1	J	122	LYS	CA-C-O	-7.13	109.78	119.05
1	K	41	PRO	O-C-N	7.13	132.46	122.55
1	P	30	ILE	CA-CB-CG2	7.13	122.62	110.50
1	P	357	GLU	CB-CA-C	7.13	122.68	110.84
1	A	29	ARG	CA-C-N	7.13	130.11	120.77
1	A	29	ARG	C-N-CA	7.13	130.11	120.77
1	B	35	VAL	CA-C-O	-7.13	112.85	119.91
1	P	57	VAL	CB-CA-C	-7.13	104.03	111.23
1	A	29	ARG	NE-CZ-NH2	7.13	125.62	119.20
1	B	94	THR	CA-CB-CG2	7.13	122.62	110.50
1	B	125	GLN	OE1-CD-NE2	7.13	129.73	122.60
1	D	132	GLN	CA-C-O	7.13	128.11	120.55
1	K	434	LEU	CA-C-O	-7.13	111.38	119.79
1	P	78	LEU	N-CA-C	7.13	123.50	114.31
1	A	356	GLU	CA-C-O	-7.13	110.32	120.51
1	C	326	ILE	CA-CB-CG1	7.13	122.51	110.40
1	E	281	ILE	N-CA-C	7.13	118.55	108.93
1	F	86	GLU	N-CA-C	7.13	118.94	111.03
1	J	189	ASP	CA-CB-CG	7.13	119.73	112.60
1	K	203	ILE	CB-CA-C	7.13	122.98	111.29
1	P	457	ALA	N-CA-C	7.13	118.97	108.14
1	P	478	GLN	O-C-N	-7.13	113.70	122.11
1	I	325	LYS	N-CA-C	-7.12	98.43	109.76
1	M	347	ILE	N-CA-C	7.12	118.61	107.28
1	P	18	ARG	NH1-CZ-NH2	7.12	128.56	119.30
1	P	476	ALA	CA-C-O	-7.12	110.32	120.51
1	A	442	ALA	O-C-N	7.12	129.67	122.12
1	C	85	GLN	CA-C-O	-7.12	112.93	120.55
1	C	470	LEU	N-CA-CB	7.12	121.35	110.81
1	F	432	GLU	OE1-CD-OE2	-7.12	105.80	122.90
1	K	409	ARG	NE-CZ-NH1	7.12	128.62	121.50
1	A	77	MET	N-CA-CB	7.12	121.33	110.79
1	C	140	CYS	CA-C-N	7.12	135.14	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	140	CYS	C-N-CA	7.12	135.14	121.54
1	D	66	ARG	N-CA-C	7.12	119.04	111.28
1	F	480	ALA	CA-C-N	7.12	130.13	120.44
1	F	480	ALA	C-N-CA	7.12	130.13	120.44
1	G	329	ASP	N-CA-C	-7.12	97.69	108.52
1	L	278	LYS	CA-CB-CG	7.12	128.34	114.10
1	M	13	LYS	CG-CD-CE	7.12	127.68	111.30
1	M	196	GLU	O-C-N	-7.12	114.91	122.96
1	B	406	LEU	CA-C-N	7.12	130.31	120.63
1	B	406	LEU	C-N-CA	7.12	130.31	120.63
1	D	373	ILE	CA-CB-CG1	7.12	122.50	110.40
1	I	386	GLU	CA-C-O	7.12	128.03	120.70
1	J	60	ASP	CB-CA-C	-7.12	101.04	109.80
1	K	25	ILE	CA-C-O	-7.12	111.88	120.78
1	L	360	ARG	CA-C-O	-7.12	111.39	119.79
1	P	312	ALA	N-CA-CB	7.12	120.95	110.56
1	A	36	ARG	NE-CZ-NH1	7.12	128.62	121.50
1	E	61	GLY	CA-C-O	-7.12	108.18	120.57
1	G	25	ILE	CA-C-N	7.12	131.13	120.31
1	G	25	ILE	C-N-CA	7.12	131.13	120.31
1	J	60	ASP	CB-CG-OD1	7.12	134.77	118.40
1	A	280	GLY	N-CA-C	7.12	124.17	114.92
1	E	344	THR	CA-CB-CG2	7.12	122.60	110.50
1	K	432	GLU	CB-CG-CD	-7.12	100.50	112.60
1	L	70	VAL	O-C-N	-7.12	113.67	122.57
1	N	90	GLY	O-C-N	7.12	131.95	122.70
1	N	265	GLN	OE1-CD-NE2	-7.12	115.48	122.60
1	O	313	GLN	N-CA-CB	7.12	121.01	110.33
1	B	86	GLU	CA-CB-CG	7.12	128.33	114.10
1	C	434	LEU	N-CA-C	-7.12	103.57	111.82
1	J	164	GLU	N-CA-C	-7.12	104.33	112.87
1	K	340	PRO	CA-C-O	-7.12	113.23	121.34
1	O	313	GLN	N-CA-C	7.12	122.22	112.90
1	P	313	GLN	O-C-N	-7.12	113.13	122.59
1	A	460	ASP	OD1-CG-OD2	-7.11	105.83	122.90
1	C	165	LYS	CG-CD-CE	7.11	127.66	111.30
1	E	398	GLU	CA-C-O	-7.11	106.49	119.36
1	I	409	ARG	NE-CZ-NH2	-7.11	112.80	119.20
1	G	230	ALA	CA-C-O	-7.11	112.74	120.92
1	A	399	GLY	O-C-N	-7.11	113.46	122.70
1	G	217	GLU	O-C-N	-7.11	114.92	123.10
1	H	207	GLU	CA-C-O	-7.11	111.53	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	335	GLU	CA-C-O	-7.11	112.89	121.28
1	M	305	THR	CA-C-N	7.11	135.12	121.54
1	M	305	THR	C-N-CA	7.11	135.12	121.54
1	N	94	THR	O-C-N	-7.11	113.14	122.59
1	A	394	ARG	NH1-CZ-NH2	-7.11	110.06	119.30
1	B	98	VAL	CB-CA-C	-7.11	102.71	112.02
1	C	264	CYS	CB-CA-C	7.11	121.95	110.29
1	H	114	ASN	N-CA-CB	7.11	122.50	110.49
1	H	467	VAL	O-C-N	-7.11	115.15	123.04
1	P	285	ARG	O-C-N	-7.11	112.78	122.23
1	P	368	VAL	CB-CA-C	7.11	122.03	112.22
1	B	173	ILE	CA-C-O	-7.11	112.97	120.57
1	F	218	ARG	NE-CZ-NH2	7.11	125.59	119.20
1	K	433	ILE	CA-C-O	-7.11	112.97	120.57
1	N	22	ARG	O-C-N	-7.11	112.73	122.46
1	P	303	VAL	CA-C-O	-7.11	111.90	120.78
1	P	403	ARG	CA-C-O	-7.11	112.89	120.42
1	K	41	PRO	CA-C-O	-7.10	108.83	118.78
1	L	180	ALA	O-C-N	-7.10	112.97	122.49
1	B	10	GLU	CA-C-O	-7.10	110.36	120.51
1	C	400	ILE	O-C-N	-7.10	113.69	122.57
1	G	165	LYS	N-CA-CB	7.10	120.78	110.20
1	K	237	CYS	CA-C-O	-7.10	112.70	120.30
1	L	362	VAL	CA-C-O	-7.10	112.51	120.96
1	M	417	VAL	O-C-N	7.10	129.63	121.96
1	N	43	GLY	CA-C-O	-7.10	112.25	122.62
1	P	378	ILE	N-CA-CB	-7.10	99.79	111.44
1	P	421	THR	CA-C-O	-7.10	113.02	120.55
1	F	142	VAL	N-CA-C	7.10	116.36	107.70
1	J	86	GLU	N-CA-C	7.10	125.93	110.80
1	O	173	ILE	N-CA-C	7.10	124.11	109.34
1	C	241	GLU	CB-CA-C	7.10	123.59	110.24
1	J	404	GLU	N-CA-CB	7.10	122.39	110.32
1	O	77	MET	CA-C-N	-7.10	111.08	122.23
1	O	77	MET	C-N-CA	-7.10	111.08	122.23
1	P	299	THR	CB-CA-C	7.10	124.55	110.42
1	P	396	TYR	CA-C-O	-7.10	113.39	120.70
1	F	65	LEU	N-CA-C	7.10	122.23	113.50
1	G	94	THR	CA-CB-OG1	7.10	120.25	109.60
1	G	137	THR	CA-C-N	7.10	132.47	121.19
1	G	137	THR	C-N-CA	7.10	132.47	121.19
1	I	346	LEU	CA-C-N	7.10	132.54	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	346	LEU	C-N-CA	7.10	132.54	123.10
1	J	125	GLN	OE1-CD-NE2	-7.10	115.50	122.60
1	N	129	GLN	CA-C-O	7.10	130.66	120.51
1	N	446	ASN	CB-CG-ND2	7.10	127.05	116.40
1	C	11	ASN	O-C-N	-7.09	114.94	121.89
1	E	444	ASN	CA-CB-CG	7.09	119.69	112.60
1	E	484	THR	CA-CB-CG2	-7.09	98.44	110.50
1	I	459	GLU	O-C-N	-7.09	115.16	123.25
1	L	128	ALA	N-CA-CB	7.09	120.60	109.82
1	M	96	ALA	N-CA-C	-7.09	103.48	111.07
1	N	296	ALA	N-CA-C	7.09	121.19	112.54
1	A	84	THR	CA-CB-CG2	7.09	122.56	110.50
1	C	287	VAL	CA-CB-CG1	7.09	122.46	110.40
1	K	132	GLN	CG-CD-OE1	7.09	134.99	120.80
1	D	114	ASN	O-C-N	7.09	128.45	121.85
1	D	206	THR	O-C-N	-7.09	114.90	123.27
1	L	85	GLN	CA-C-O	-7.09	112.90	120.42
1	A	181	VAL	O-C-N	-7.09	114.96	121.91
1	J	116	HIS	CB-CG-ND1	7.09	133.33	122.70
1	K	179	SER	N-CA-C	-7.09	104.37	113.16
1	N	23	MET	N-CA-C	7.09	118.66	111.07
1	G	308	LYS	O-C-N	7.09	132.02	122.59
1	K	244	SER	CA-C-O	-7.09	110.38	120.51
1	A	113	GLN	N-CA-C	7.09	125.89	110.80
1	G	116	HIS	CA-C-N	7.09	127.69	119.47
1	G	116	HIS	C-N-CA	7.09	127.69	119.47
1	G	335	GLU	O-C-N	-7.09	115.04	122.84
1	I	189	ASP	N-CA-C	7.09	120.66	110.10
1	M	83	LYS	CA-CB-CG	7.09	128.27	114.10
1	A	259	ALA	O-C-N	7.08	132.01	122.59
1	B	453	VAL	CA-CB-CG1	-7.08	98.36	110.40
1	E	273	GLN	CB-CA-C	7.08	122.50	110.74
1	G	289	LYS	CB-CA-C	7.08	123.74	110.63
1	P	435	VAL	N-CA-C	7.08	119.91	111.05
1	A	104	LEU	CA-C-O	7.08	128.35	119.78
1	E	371	CYS	CB-CA-C	-7.08	96.72	110.11
1	F	203	ILE	CA-CB-CG2	7.08	122.54	110.50
1	G	84	THR	N-CA-CB	7.08	120.75	110.20
1	O	89	VAL	N-CA-C	7.08	118.40	111.67
1	C	291	ASP	O-C-N	7.08	131.85	122.43
1	D	388	GLU	O-C-N	7.08	130.22	122.15
1	I	284	ALA	O-C-N	7.08	131.56	123.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	304	ILE	CA-C-O	-7.08	112.65	120.72
1	N	314	ASP	N-CA-C	7.08	125.88	110.80
1	P	124	TYR	N-CA-CB	-7.08	98.52	110.49
1	P	422	LEU	CA-C-O	-7.08	111.83	119.97
1	M	323	GLU	CA-C-N	7.08	132.04	122.84
1	M	323	GLU	C-N-CA	7.08	132.04	122.84
1	C	494	ILE	CB-CA-C	7.08	119.53	110.96
1	E	417	VAL	CB-CA-C	7.08	122.90	111.29
1	F	389	LEU	CA-C-O	-7.08	113.05	120.55
1	I	215	ASP	CA-C-N	7.08	135.22	121.63
1	I	215	ASP	C-N-CA	7.08	135.22	121.63
1	L	249	ASP	O-C-N	-7.08	112.69	122.46
1	M	36	ARG	CB-CA-C	-7.08	99.77	110.88
1	N	155	MET	N-CA-C	7.08	120.03	111.82
1	B	341	LYS	CB-CG-CD	7.08	127.58	111.30
1	E	221	ALA	O-C-N	-7.08	114.18	122.32
1	H	47	MET	N-CA-C	7.08	120.47	107.73
1	I	306	ASN	CA-C-N	7.08	134.71	121.97
1	I	306	ASN	C-N-CA	7.08	134.71	121.97
1	K	256	ALA	CA-C-N	7.08	135.06	121.54
1	K	256	ALA	C-N-CA	7.08	135.06	121.54
1	K	439	ALA	CA-C-O	-7.08	112.74	121.02
1	L	202	SER	CA-CB-OG	7.08	125.25	111.10
1	L	266	LYS	CA-C-O	-7.08	113.00	121.56
1	A	490	ILE	N-CA-C	7.08	124.06	109.34
1	G	315	LEU	CA-C-N	7.08	131.39	122.83
1	G	315	LEU	C-N-CA	7.08	131.39	122.83
1	I	189	ASP	CA-CB-CG	7.08	119.67	112.60
1	M	289	LYS	CG-CD-CE	7.08	127.57	111.30
1	N	217	GLU	CB-CA-C	7.08	121.09	109.70
1	A	458	VAL	O-C-N	7.07	130.66	122.81
1	D	308	LYS	O-C-N	-7.07	113.18	122.59
1	E	18	ARG	NE-CZ-NH1	7.07	128.57	121.50
1	F	21	GLN	CB-CG-CD	7.07	124.63	112.60
1	G	42	LYS	O-C-N	-7.07	113.18	122.59
1	I	484	THR	N-CA-CB	-7.07	99.99	110.53
1	F	256	ALA	CA-C-O	-7.07	110.06	119.11
1	J	429	ASP	CB-CA-C	7.07	123.32	111.30
1	O	369	VAL	N-CA-CB	7.07	120.70	110.52
1	P	227	VAL	N-CA-C	7.07	118.66	108.48
1	A	188	VAL	O-C-N	-7.07	115.62	123.26
1	A	212	VAL	CB-CA-C	7.07	120.81	110.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	136	LYS	CA-C-O	-7.07	110.40	120.51
1	C	65	LEU	N-CA-CB	7.07	121.06	110.53
1	D	476	ALA	N-CA-CB	7.07	122.44	110.49
1	K	344	THR	CA-C-O	-7.07	112.55	120.54
1	K	482	GLU	CB-CG-CD	7.07	124.62	112.60
1	N	87	LYS	CA-C-O	-7.07	110.40	120.51
1	O	197	LYS	N-CA-CB	7.07	121.68	110.65
1	P	225	LYS	CB-CA-C	-7.07	102.38	111.50
1	A	452	ASN	CB-CG-OD1	-7.07	106.66	120.80
1	E	494	ILE	O-C-N	-7.07	114.32	122.94
1	K	70	VAL	CB-CA-C	-7.07	99.80	111.32
1	M	155	MET	N-CA-CB	7.07	120.51	110.12
1	A	112	ASP	N-CA-CB	7.07	121.15	110.19
1	A	232	ILE	O-C-N	-7.07	115.14	122.63
1	C	409	ARG	N-CA-CB	-7.07	99.70	110.16
1	F	178	VAL	CA-CB-CG1	7.07	122.41	110.40
1	F	475	GLN	CA-C-N	7.07	133.51	121.14
1	F	475	GLN	C-N-CA	7.07	133.51	121.14
1	G	286	ARG	CD-NE-CZ	7.07	134.29	124.40
1	I	176	GLU	CA-C-O	-7.07	113.40	120.82
1	I	222	GLN	OE1-CD-NE2	-7.07	115.53	122.60
1	I	372	THR	CA-C-N	7.07	132.11	121.65
1	I	372	THR	C-N-CA	7.07	132.11	121.65
1	L	41	PRO	CA-C-N	7.07	133.96	122.65
1	L	41	PRO	C-N-CA	7.07	133.96	122.65
1	N	74	ALA	N-CA-CB	-7.07	99.70	110.16
1	P	178	VAL	N-CA-C	7.07	117.86	110.72
1	C	347	ILE	N-CA-C	7.07	119.40	107.18
1	I	31	ILE	O-C-N	-7.07	113.74	122.57
1	K	62	VAL	N-CA-CB	7.07	122.89	111.23
1	M	458	VAL	CB-CA-C	-7.07	101.53	111.28
1	O	47	MET	N-CA-C	7.07	120.39	108.02
1	O	54	ASP	N-CA-CB	-7.07	98.83	109.71
1	B	169	LYS	O-C-N	7.06	132.14	122.46
1	C	225	LYS	CB-CA-C	-7.06	102.53	111.22
1	E	275	TYR	O-C-N	7.06	129.38	122.03
1	G	362	VAL	N-CA-C	7.06	120.02	112.96
1	H	429	ASP	CA-CB-CG	7.06	119.66	112.60
1	M	493	VAL	CB-CA-C	-7.06	102.78	111.32
1	E	348	ARG	CB-CA-C	7.06	121.58	109.51
1	L	359	ALA	CA-C-N	7.06	132.68	120.68
1	L	359	ALA	C-N-CA	7.06	132.68	120.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	468	GLU	CA-C-N	7.06	128.67	119.84
1	N	468	GLU	C-N-CA	7.06	128.67	119.84
1	C	259	ALA	CA-C-N	7.06	135.19	122.06
1	C	259	ALA	C-N-CA	7.06	135.19	122.06
1	C	312	ALA	N-CA-C	7.06	122.36	111.56
1	D	78	LEU	CB-CA-C	7.06	121.41	109.55
1	I	223	MET	CA-C-O	-7.06	112.59	119.51
1	K	112	ASP	O-C-N	-7.06	114.08	122.27
1	M	144	ALA	CA-C-O	-7.06	113.07	120.55
1	N	157	SER	N-CA-C	7.06	118.87	111.03
1	P	39	LEU	CA-C-O	-7.06	110.42	120.51
1	A	74	ALA	CA-C-N	7.06	134.12	120.99
1	A	74	ALA	C-N-CA	7.06	134.12	120.99
1	A	130	LYS	CG-CD-CE	7.06	127.53	111.30
1	D	380	SER	CA-C-O	7.06	128.93	120.81
1	G	180	ALA	CB-CA-C	7.06	121.20	109.56
1	K	487	LEU	O-C-N	-7.06	114.15	122.20
1	O	24	ASN	CA-C-O	-7.06	113.41	120.82
1	E	156	THR	O-C-N	7.06	132.11	122.37
1	K	197	LYS	CA-C-N	-7.06	110.05	123.32
1	K	197	LYS	C-N-CA	-7.06	110.05	123.32
1	C	156	THR	OG1-CB-CG2	7.05	123.41	109.30
1	F	268	ILE	CA-CB-CG1	7.05	122.39	110.40
1	I	157	SER	CB-CA-C	7.05	122.05	110.90
1	K	124	TYR	CA-C-O	-7.05	110.56	119.31
1	M	489	ARG	O-C-N	-7.05	113.94	122.48
1	H	124	TYR	O-C-N	7.05	131.97	122.59
1	H	443	SER	O-C-N	-7.05	113.79	122.25
1	K	288	LYS	CB-CA-C	7.05	122.52	109.54
1	L	60	ASP	N-CA-CB	7.05	122.41	110.49
1	O	203	ILE	O-C-N	-7.05	112.88	122.26
1	O	416	GLU	CA-CB-CG	7.05	128.21	114.10
1	I	313	GLN	OE1-CD-NE2	7.05	129.65	122.60
1	J	265	GLN	CA-C-O	-7.05	112.13	120.10
1	P	117	PRO	CA-C-O	-7.05	107.77	120.60
1	A	154	ALA	N-CA-C	7.05	121.11	112.23
1	B	161	LYS	O-C-N	-7.05	116.48	123.46
1	B	341	LYS	CB-CA-C	7.05	123.26	109.72
1	C	322	GLU	O-C-N	-7.05	115.02	123.27
1	D	117	PRO	O-C-N	-7.05	113.12	122.64
1	I	132	GLN	O-C-N	7.05	131.97	122.59
1	J	10	GLU	O-C-N	-7.05	114.29	122.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	325	LYS	N-CA-CB	7.05	120.84	109.28
1	L	364	ASP	O-C-N	7.05	130.19	122.15
1	P	282	VAL	CA-CB-CG2	7.05	122.38	110.40
1	B	189	ASP	CA-C-N	7.05	133.34	122.42
1	B	189	ASP	C-N-CA	7.05	133.34	122.42
1	C	172	GLU	OE1-CD-OE2	7.05	139.81	122.90
1	C	380	SER	O-C-N	-7.05	113.22	122.59
1	D	7	VAL	N-CA-CB	-7.05	99.52	111.50
1	B	277	ALA	N-CA-CB	-7.05	99.76	110.33
1	G	212	VAL	CA-C-N	-7.05	113.06	123.00
1	G	212	VAL	C-N-CA	-7.05	113.06	123.00
1	G	257	SER	N-CA-C	7.05	125.81	110.80
1	H	98	VAL	N-CA-C	-7.05	104.33	110.74
1	I	108	GLU	CA-C-N	-7.05	110.73	120.38
1	I	108	GLU	C-N-CA	-7.05	110.73	120.38
1	K	133	GLU	O-C-N	7.05	129.70	122.09
1	L	379	VAL	O-C-N	-7.05	115.14	122.82
1	M	340	PRO	CA-N-CD	-7.05	102.14	112.00
1	N	105	ARG	O-C-N	-7.05	113.97	122.22
1	N	399	GLY	CA-C-O	-7.05	108.31	120.57
1	O	98	VAL	O-C-N	7.05	129.48	121.94
1	O	128	ALA	N-CA-CB	7.05	120.76	110.47
1	B	239	ILE	CA-C-N	7.04	133.36	123.07
1	B	239	ILE	C-N-CA	7.04	133.36	123.07
1	B	395	GLU	CB-CA-C	7.04	125.03	110.31
1	J	242	THR	CA-CB-OG1	7.04	120.17	109.60
1	J	492	ASP	O-C-N	-7.04	115.39	123.42
1	L	455	THR	CA-CB-OG1	-7.04	99.03	109.60
1	M	113	GLN	CA-C-N	7.04	135.00	121.54
1	M	113	GLN	C-N-CA	7.04	135.00	121.54
1	P	54	ASP	CA-CB-CG	7.04	119.64	112.60
1	C	26	LEU	CA-C-O	-7.04	110.97	119.49
1	E	137	THR	CA-CB-OG1	7.04	120.17	109.60
1	G	71	GLU	CG-CD-OE2	7.04	134.60	118.40
1	I	13	LYS	O-C-N	-7.04	114.15	122.81
1	O	296	ALA	O-C-N	7.04	131.96	122.59
1	O	478	GLN	CG-CD-OE1	7.04	134.89	120.80
1	J	212	VAL	CA-C-O	7.04	127.22	120.25
1	N	292	MET	N-CA-C	7.04	122.04	113.38
1	N	360	ARG	N-CA-C	-7.04	104.82	113.41
1	B	281	ILE	CA-C-O	-7.04	112.43	120.74
1	A	179	SER	N-CA-CB	7.04	122.28	110.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	408	VAL	CA-C-N	7.04	129.94	120.65
1	A	408	VAL	C-N-CA	7.04	129.94	120.65
1	B	241	GLU	OE1-CD-OE2	-7.04	106.01	122.90
1	D	357	GLU	CA-C-N	-7.04	110.00	121.19
1	D	357	GLU	C-N-CA	-7.04	110.00	121.19
1	E	156	THR	OG1-CB-CG2	7.04	123.38	109.30
1	L	412	ALA	CA-C-O	-7.04	113.41	120.80
1	I	488	LEU	CA-C-N	7.04	134.98	121.54
1	I	488	LEU	C-N-CA	7.04	134.98	121.54
1	J	458	VAL	O-C-N	-7.04	113.72	122.52
1	L	169	LYS	CG-CD-CE	7.04	127.49	111.30
1	N	448	CYS	N-CA-CB	7.04	122.38	110.49
1	P	97	VAL	CA-C-O	-7.04	113.97	120.73
1	C	113	GLN	CA-C-O	7.04	132.94	122.32
1	D	7	VAL	CB-CA-C	-7.04	98.03	111.40
1	J	34	THR	N-CA-C	7.04	125.79	110.80
1	L	195	ILE	O-C-N	-7.04	113.78	122.57
1	P	399	GLY	N-CA-C	7.04	129.85	113.18
1	C	205	ASP	CA-C-O	-7.03	110.45	120.51
1	F	488	LEU	N-CA-C	-7.03	102.82	111.40
1	G	8	LEU	N-CA-CB	7.03	122.89	110.37
1	H	24	ASN	OD1-CG-ND2	7.03	129.63	122.60
1	I	141	GLU	N-CA-CB	7.03	120.38	109.48
1	L	286	ARG	CA-C-O	-7.03	110.45	120.51
1	B	377	ARG	CA-C-O	-7.03	113.05	121.56
1	E	221	ALA	CA-C-O	-7.03	112.05	120.56
1	E	315	LEU	O-C-N	-7.03	113.24	122.59
1	F	423	ALA	CA-C-O	7.03	128.04	120.24
1	M	395	GLU	OE1-CD-OE2	-7.03	106.03	122.90
1	M	301	ALA	O-C-N	7.03	131.94	122.59
1	N	148	GLU	N-CA-CB	7.03	120.41	109.94
1	D	289	LYS	CB-CA-C	7.03	122.41	110.74
1	F	457	ALA	CA-C-N	-7.03	110.38	121.62
1	F	457	ALA	C-N-CA	-7.03	110.38	121.62
1	I	112	ASP	CB-CA-C	7.03	123.81	109.55
1	L	68	MET	O-C-N	-7.03	112.71	122.41
1	L	149	ILE	CA-C-N	7.03	130.00	120.44
1	L	149	ILE	C-N-CA	7.03	130.00	120.44
1	M	156	THR	N-CA-C	7.03	121.44	113.01
1	D	477	ILE	CB-CA-C	7.03	122.81	111.29
1	I	352	GLU	CA-C-N	7.03	134.96	121.54
1	I	352	GLU	C-N-CA	7.03	134.96	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	378	ILE	O-C-N	-7.03	115.16	122.82
1	K	400	ILE	CA-C-N	7.03	134.96	121.54
1	K	400	ILE	C-N-CA	7.03	134.96	121.54
1	M	85	GLN	CA-CB-CG	7.03	128.15	114.10
1	P	415	LEU	N-CA-CB	7.03	122.36	110.49
1	E	307	ILE	CA-C-N	7.02	134.96	121.54
1	E	307	ILE	C-N-CA	7.02	134.96	121.54
1	C	247	LEU	CB-CA-C	7.02	122.00	110.90
1	E	423	ALA	O-C-N	-7.02	114.51	122.09
1	H	405	GLN	CG-CD-NE2	7.02	126.93	116.40
1	K	352	GLU	CB-CA-C	7.02	124.40	110.42
1	L	7	VAL	CG1-CB-CG2	-7.02	95.35	110.80
1	O	426	ALA	N-CA-C	7.02	125.76	110.80
1	A	76	LYS	N-CA-CB	7.02	120.99	110.53
1	A	164	GLU	N-CA-CB	7.02	123.09	110.32
1	A	189	ASP	N-CA-CB	-7.02	99.46	110.06
1	B	248	LYS	CA-C-O	-7.02	111.51	119.79
1	N	403	ARG	NH1-CZ-NH2	7.02	128.43	119.30
1	C	330	SER	N-CA-C	7.02	121.11	109.46
1	D	12	MET	N-CA-CB	-7.02	98.60	109.48
1	D	125	GLN	CB-CG-CD	7.02	124.53	112.60
1	E	12	MET	N-CA-CB	7.02	122.35	110.49
1	J	333	PHE	CD1-CG-CD2	-7.02	108.08	118.60
1	J	478	GLN	CA-C-O	7.02	128.13	120.90
1	K	124	TYR	CG-CD1-CE1	7.02	131.73	121.20
1	B	354	VAL	CB-CA-C	7.02	123.03	112.16
1	G	466	VAL	N-CA-C	7.02	123.93	109.34
1	H	193	ILE	O-C-N	-7.02	113.80	122.57
1	P	437	VAL	N-CA-C	7.02	117.12	110.53
1	D	272	ALA	N-CA-CB	7.01	120.15	109.91
1	F	58	THR	CA-C-O	-7.01	111.58	120.14
1	F	220	SER	O-C-N	7.01	131.20	123.13
1	H	27	ALA	N-CA-CB	7.01	121.64	109.72
1	H	320	LEU	CD1-CG-CD2	7.01	126.23	110.80
1	N	259	ALA	CB-CA-C	-7.01	99.52	111.31
1	P	319	GLY	CA-C-N	7.01	134.29	121.94
1	P	319	GLY	C-N-CA	7.01	134.29	121.94
1	P	468	GLU	N-CA-C	7.01	120.91	110.39
1	E	54	ASP	O-C-N	-7.01	113.26	122.59
1	G	317	ASP	CB-CA-C	7.01	120.94	110.14
1	B	354	VAL	CA-CB-CG1	7.01	122.32	110.40
1	H	180	ALA	CA-C-N	7.01	130.62	122.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	180	ALA	C-N-CA	7.01	130.62	122.35
1	K	187	LYS	CG-CD-CE	7.01	127.42	111.30
1	M	472	VAL	N-CA-C	7.01	123.92	109.34
1	O	325	LYS	N-CA-CB	7.01	120.59	109.51
1	A	265	GLN	CG-CD-OE1	7.01	134.82	120.80
1	A	284	ALA	O-C-N	7.01	133.64	122.99
1	A	472	VAL	O-C-N	-7.01	113.81	122.57
1	B	91	ASP	O-C-N	-7.01	114.84	123.04
1	C	182	VAL	CA-C-N	-7.01	111.58	122.87
1	C	182	VAL	C-N-CA	-7.01	111.58	122.87
1	K	460	ASP	O-C-N	-7.01	114.12	122.46
1	O	385	THR	CA-CB-OG1	7.01	120.11	109.60
1	K	430	ALA	N-CA-C	7.01	125.73	110.80
1	B	85	GLN	O-C-N	-7.01	113.04	122.43
1	B	187	LYS	N-CA-C	7.01	119.89	108.26
1	D	482	GLU	CA-C-N	-7.01	109.80	121.92
1	D	482	GLU	C-N-CA	-7.01	109.80	121.92
1	E	131	ALA	N-CA-CB	7.01	120.38	109.94
1	F	354	VAL	CA-CB-CG2	7.01	122.31	110.40
1	G	392	LYS	N-CA-C	-7.01	105.26	113.88
1	J	164	GLU	CA-CB-CG	7.01	128.12	114.10
1	A	128	ALA	N-CA-C	-7.00	101.95	112.04
1	B	411	PHE	CA-C-O	-7.00	110.84	119.18
1	G	85	GLN	CB-CA-C	7.00	122.37	110.74
1	O	93	THR	CA-C-O	-7.00	110.49	120.51
1	O	293	GLU	N-CA-CB	7.00	121.21	110.14
1	O	222	GLN	CG-CD-NE2	-7.00	105.90	116.40
1	A	256	ALA	N-CA-C	7.00	120.30	111.69
1	A	282	VAL	O-C-N	-7.00	115.04	122.81
1	K	103	LEU	CA-C-O	-7.00	110.28	119.10
1	K	189	ASP	CB-CG-OD1	-7.00	102.30	118.40
1	L	21	GLN	CA-C-O	-7.00	110.50	120.51
1	O	158	ILE	N-CA-C	7.00	123.90	109.34
1	I	165	LYS	CA-CB-CG	7.00	128.10	114.10
1	K	349	GLY	CA-C-N	7.00	134.91	121.54
1	K	349	GLY	C-N-CA	7.00	134.91	121.54
1	B	455	THR	CA-C-O	7.00	128.01	120.24
1	C	285	ARG	CG-CD-NE	7.00	127.40	112.00
1	G	305	THR	CA-C-O	-7.00	110.50	120.51
1	O	245	GLU	CB-CG-CD	7.00	124.50	112.60
1	P	7	VAL	CA-CB-CG2	-7.00	98.50	110.40
1	P	281	ILE	CA-C-O	-7.00	112.48	120.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	154	ALA	N-CA-C	7.00	120.30	111.69
1	F	105	ARG	NH1-CZ-NH2	7.00	128.40	119.30
1	I	311	SER	CA-C-N	7.00	132.54	120.58
1	I	311	SER	C-N-CA	7.00	132.54	120.58
1	A	412	ALA	N-CA-C	-7.00	102.87	111.40
1	A	357	GLU	N-CA-C	-6.99	103.27	111.03
1	D	29	ARG	CB-CA-C	6.99	125.85	110.18
1	D	179	SER	O-C-N	6.99	132.74	122.39
1	H	448	CYS	CA-C-O	6.99	127.84	120.36
1	I	114	ASN	CA-CB-CG	6.99	119.59	112.60
1	J	51	ASP	CA-C-O	-6.99	110.51	120.51
1	J	107	ALA	CA-C-N	6.99	129.95	120.44
1	J	107	ALA	C-N-CA	6.99	129.95	120.44
1	J	332	ILE	O-C-N	6.99	131.47	122.94
1	L	79	ILE	CB-CG1-CD1	6.99	128.49	113.80
1	O	183	ASP	N-CA-CB	6.99	121.55	110.57
1	B	428	LEU	N-CA-CB	6.99	121.11	109.92
1	F	417	VAL	N-CA-C	6.99	119.79	111.05
1	G	22	ARG	CD-NE-CZ	6.99	134.19	124.40
1	G	95	THR	O-C-N	-6.99	113.29	122.59
1	B	202	SER	N-CA-CB	6.99	122.31	110.49
1	D	124	TYR	CG-CD1-CE1	6.99	131.69	121.20
1	F	299	THR	CA-C-O	-6.99	113.01	120.42
1	J	305	THR	N-CA-CB	6.99	122.30	110.49
1	L	141	GLU	CA-C-N	-6.99	109.39	121.97
1	L	141	GLU	C-N-CA	-6.99	109.39	121.97
1	B	469	PRO	CA-C-N	-6.99	111.66	122.49
1	B	469	PRO	C-N-CA	-6.99	111.66	122.49
1	F	344	THR	CA-C-N	-6.99	111.99	122.47
1	F	344	THR	C-N-CA	-6.99	111.99	122.47
1	G	86	GLU	N-CA-C	6.99	118.69	111.14
1	I	392	LYS	N-CA-C	-6.99	105.28	113.88
1	J	478	GLN	CG-CD-NE2	-6.99	105.92	116.40
1	K	415	LEU	N-CA-CB	6.99	122.62	110.39
1	N	192	LEU	CA-C-N	-6.99	114.28	122.95
1	N	192	LEU	C-N-CA	-6.99	114.28	122.95
1	D	364	ASP	CA-CB-CG	6.99	119.59	112.60
1	B	472	VAL	N-CA-C	6.99	123.87	109.34
1	C	338	LYS	CB-CG-CD	6.99	127.36	111.30
1	O	270	ASP	CA-CB-CG	-6.99	105.61	112.60
1	A	132	GLN	CG-CD-NE2	-6.98	105.92	116.40
1	D	106	LYS	N-CA-C	6.98	118.58	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	25	ILE	CB-CG1-CD1	6.98	128.47	113.80
1	P	339	HIS	O-C-N	6.98	127.11	121.17
1	P	467	VAL	N-CA-C	6.98	118.87	108.46
1	A	65	LEU	N-CA-CB	6.98	120.80	110.53
1	H	35	VAL	CA-C-O	-6.98	112.05	120.78
1	K	260	ASN	CA-C-O	6.98	127.44	119.27
1	L	221	ALA	CA-C-O	-6.98	108.48	119.23
1	M	58	THR	N-CA-C	6.98	119.79	108.76
1	A	478	GLN	CA-C-O	-6.98	113.08	120.55
1	B	336	GLU	CB-CA-C	6.98	122.54	111.51
1	B	413	ASP	CA-CB-CG	-6.98	105.62	112.60
1	C	40	GLY	N-CA-C	6.98	126.58	112.34
1	C	441	HIS	CB-CG-CD2	6.98	140.28	131.20
1	D	184	ASP	CB-CG-OD1	6.98	134.46	118.40
1	E	80	GLU	CA-CB-CG	6.98	128.06	114.10
1	E	400	ILE	CA-C-O	-6.98	111.94	121.15
1	F	435	VAL	O-C-N	6.98	129.69	121.80
1	H	66	ARG	NH1-CZ-NH2	-6.98	110.23	119.30
1	J	196	GLU	CA-C-O	-6.98	113.77	121.87
1	J	462	CYS	N-CA-C	6.98	125.67	110.80
1	K	290	SER	CA-CB-OG	6.98	125.06	111.10
1	P	55	VAL	CA-C-N	6.98	132.28	123.14
1	P	55	VAL	C-N-CA	6.98	132.28	123.14
1	B	34	THR	CA-CB-OG1	6.98	120.06	109.60
1	B	309	ASP	OD1-CG-OD2	6.98	139.65	122.90
1	B	426	ALA	CA-C-O	-6.98	111.05	119.49
1	C	403	ARG	CG-CD-NE	6.98	127.35	112.00
1	D	385	THR	CA-C-N	6.98	134.87	121.54
1	D	385	THR	C-N-CA	6.98	134.87	121.54
1	I	294	LYS	N-CA-CB	6.98	120.01	110.10
1	J	148	GLU	N-CA-CB	6.98	122.28	110.49
1	K	353	HIS	CB-CG-CD2	6.98	140.27	131.20
1	B	73	PRO	O-C-N	-6.98	112.68	122.38
1	C	203	ILE	O-C-N	6.98	131.54	122.26
1	D	76	LYS	CA-C-O	-6.98	111.11	119.27
1	A	454	PHE	CG-CD2-CE2	-6.97	108.84	120.70
1	C	60	ASP	CA-C-O	-6.97	112.72	120.60
1	E	65	LEU	N-CA-C	6.97	121.79	113.28
1	E	125	GLN	CA-C-N	6.97	132.54	120.68
1	E	125	GLN	C-N-CA	6.97	132.54	120.68
1	G	70	VAL	CA-C-N	6.97	134.86	121.54
1	G	70	VAL	C-N-CA	6.97	134.86	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	301	ALA	O-C-N	-6.97	114.59	122.75
1	F	336	GLU	N-CA-C	6.97	121.02	111.54
1	F	476	ALA	CA-C-O	-6.97	110.66	119.31
1	H	353	HIS	CE1-NE2-CD2	-6.97	102.03	109.00
1	L	281	ILE	N-CA-C	6.97	123.84	109.34
1	P	490	ILE	O-C-N	6.97	131.28	122.57
1	A	420	ARG	CA-C-O	-6.97	113.52	120.70
1	D	209	ILE	O-C-N	-6.97	113.86	122.57
1	E	217	GLU	CA-C-O	-6.97	113.28	121.16
1	J	29	ARG	NE-CZ-NH2	6.97	125.47	119.20
1	N	146	ASP	CA-CB-CG	-6.97	105.63	112.60
1	H	119	ILE	N-CA-C	6.97	117.80	111.81
1	H	277	ALA	N-CA-C	-6.97	103.45	112.23
1	J	263	PHE	CA-CB-CG	6.97	120.77	113.80
1	L	414	ALA	CA-C-O	-6.97	113.44	120.90
1	O	66	ARG	O-C-N	-6.97	114.84	122.09
1	O	102	GLU	N-CA-CB	-6.97	99.84	110.16
1	O	493	VAL	CG1-CB-CG2	6.97	126.13	110.80
1	A	202	SER	O-C-N	-6.97	113.32	122.59
1	D	148	GLU	N-CA-CB	6.97	120.47	110.16
1	G	289	LYS	N-CA-C	6.97	119.72	111.71
1	O	318	ALA	CA-C-N	6.97	135.07	121.41
1	O	318	ALA	C-N-CA	6.97	135.07	121.41
1	P	222	GLN	N-CA-C	-6.97	104.78	113.28
1	D	94	THR	N-CA-CB	6.96	122.26	110.49
1	D	205	ASP	N-CA-CB	6.96	120.70	110.25
1	E	132	GLN	CB-CG-CD	-6.96	100.76	112.60
1	I	240	GLU	CG-CD-OE1	6.96	134.42	118.40
1	K	439	ALA	O-C-N	6.96	130.63	122.20
1	N	98	VAL	N-CA-C	-6.96	104.20	111.58
1	O	89	VAL	CB-CA-C	6.96	120.02	111.80
1	P	267	GLY	CA-C-O	-6.96	108.45	120.57
1	M	225	LYS	CA-C-O	-6.96	110.55	120.51
1	O	438	ARG	NE-CZ-NH1	6.96	128.46	121.50
1	C	129	GLN	N-CA-CB	6.96	120.17	110.07
1	C	424	GLU	N-CA-C	-6.96	103.13	111.69
1	L	348	ARG	CA-CB-CG	6.96	128.02	114.10
1	P	21	GLN	CB-CA-C	-6.96	99.67	110.81
1	P	139	ALA	N-CA-C	-6.96	99.59	109.96
1	B	144	ALA	CA-C-N	-6.96	111.06	122.54
1	B	144	ALA	C-N-CA	-6.96	111.06	122.54
1	G	190	LYS	CB-CA-C	6.96	124.27	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	82	ALA	N-CA-C	6.96	120.25	111.69
1	O	256	ALA	N-CA-C	6.96	118.66	111.14
1	O	347	ILE	O-C-N	-6.96	115.68	123.20
1	P	475	GLN	CG-CD-NE2	6.96	126.84	116.40
1	B	357	GLU	O-C-N	-6.96	114.22	122.15
1	F	58	THR	N-CA-C	6.96	119.73	108.32
1	G	100	ALA	CA-C-O	-6.96	112.52	120.24
1	K	443	SER	N-CA-CB	6.96	125.69	111.21
1	F	393	LEU	CB-CA-C	6.96	124.85	110.31
1	L	59	ASN	CA-C-N	6.96	134.83	121.54
1	L	59	ASN	C-N-CA	6.96	134.83	121.54
1	O	368	VAL	CA-C-N	6.96	130.69	120.74
1	O	368	VAL	C-N-CA	6.96	130.69	120.74
1	G	52	LEU	CB-CA-C	6.96	124.02	110.67
1	I	282	VAL	CA-C-O	6.96	129.47	120.78
1	K	155	MET	CA-CB-CG	6.96	128.01	114.10
1	P	110	LEU	N-CA-C	6.96	125.61	110.80
1	B	58	THR	OG1-CB-CG2	6.95	123.21	109.30
1	G	64	ILE	CA-CB-CG2	6.95	122.32	110.50
1	J	215	ASP	CB-CA-C	6.95	124.26	110.42
1	M	224	PRO	CA-N-CD	-6.95	102.27	112.00
1	P	118	THR	CA-CB-OG1	6.95	120.03	109.60
1	B	174	ILE	CA-C-O	-6.95	113.33	121.05
1	C	382	GLY	O-C-N	6.95	128.90	122.57
1	C	488	LEU	CB-CA-C	-6.95	99.25	110.79
1	P	165	LYS	N-CA-C	6.95	118.65	111.14
1	L	16	MET	CA-CB-CG	-6.95	100.20	114.10
1	M	276	LEU	CA-C-O	-6.95	110.57	120.51
1	K	85	GLN	CA-C-O	-6.95	111.59	119.79
1	K	285	ARG	O-C-N	-6.95	115.06	123.19
1	M	104	LEU	O-C-N	-6.95	112.92	122.30
1	H	181	VAL	CB-CA-C	-6.95	103.56	111.55
1	B	429	ASP	CA-CB-CG	6.95	119.55	112.60
1	C	76	LYS	CA-C-O	-6.95	111.23	119.15
1	E	344	THR	OG1-CB-CG2	6.95	123.19	109.30
1	H	422	LEU	CA-C-O	-6.95	110.58	120.51
1	I	415	LEU	CA-C-O	-6.95	110.58	120.51
1	M	258	GLY	CA-C-N	-6.95	112.40	122.19
1	M	258	GLY	C-N-CA	-6.95	112.40	122.19
1	O	89	VAL	CA-C-O	-6.95	113.40	120.69
1	C	62	VAL	CA-C-N	6.94	134.80	121.54
1	C	62	VAL	C-N-CA	6.94	134.80	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	86	GLU	CG-CD-OE2	6.94	134.37	118.40
1	H	294	LYS	CA-C-N	6.94	134.80	121.54
1	H	294	LYS	C-N-CA	6.94	134.80	121.54
1	L	435	VAL	CA-C-O	-6.94	112.75	120.25
1	P	471	ARG	NE-CZ-NH1	6.94	128.44	121.50
1	A	363	ASP	CB-CG-OD1	6.94	134.36	118.40
1	B	20	ALA	N-CA-C	-6.94	103.64	111.14
1	B	237	CYS	CA-C-N	6.94	134.80	121.54
1	B	237	CYS	C-N-CA	6.94	134.80	121.54
1	C	169	LYS	CA-C-O	-6.94	111.15	119.27
1	G	105	ARG	NE-CZ-NH1	-6.94	114.56	121.50
1	M	120	VAL	O-C-N	-6.94	112.96	122.05
1	N	398	GLU	CA-C-O	-6.94	110.36	119.10
1	O	485	GLU	N-CA-C	6.94	120.23	111.69
1	L	281	ILE	CB-CA-C	-6.94	99.91	111.29
1	M	227	VAL	O-C-N	6.94	130.32	123.03
1	P	32	ALA	CA-C-O	-6.94	113.53	120.82
1	B	294	LYS	N-CA-CB	6.94	120.60	110.26
1	F	129	GLN	O-C-N	-6.94	113.03	122.33
1	I	144	ALA	N-CA-C	6.94	125.58	110.80
1	J	348	ARG	NE-CZ-NH2	6.94	125.44	119.20
1	M	460	ASP	CA-CB-CG	-6.94	105.66	112.60
1	N	343	VAL	O-C-N	6.94	131.24	122.57
1	M	451	LEU	CB-CA-C	6.94	122.33	111.72
1	D	157	SER	CA-C-N	6.93	130.86	122.26
1	D	157	SER	C-N-CA	6.93	130.86	122.26
1	L	470	LEU	O-C-N	-6.93	113.07	122.36
1	A	371	CYS	O-C-N	-6.93	114.66	122.08
1	C	457	ALA	CA-C-N	6.93	131.50	121.80
1	C	457	ALA	C-N-CA	6.93	131.50	121.80
1	I	130	LYS	CA-C-O	-6.93	110.60	120.51
1	I	264	CYS	CA-C-N	6.93	131.79	120.63
1	I	264	CYS	C-N-CA	6.93	131.79	120.63
1	N	241	GLU	N-CA-C	-6.93	98.77	109.52
1	O	320	LEU	O-C-N	-6.93	113.37	122.59
1	A	161	LYS	CA-CB-CG	6.93	127.96	114.10
1	C	163	ALA	CA-C-O	6.93	130.42	120.51
1	H	464	ASN	CA-CB-CG	-6.93	105.67	112.60
1	N	477	ILE	N-CA-CB	6.93	118.17	110.62
1	A	73	PRO	N-CA-CB	-6.93	95.91	103.39
1	A	355	ILE	CA-C-O	-6.93	112.12	120.78
1	B	190	LYS	CA-C-N	6.93	137.74	121.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	190	LYS	C-N-CA	6.93	137.74	121.52
1	C	370	GLY	CA-C-O	-6.93	110.00	119.01
1	E	93	THR	CA-C-N	6.93	134.78	121.54
1	E	93	THR	C-N-CA	6.93	134.78	121.54
1	H	260	ASN	CA-CB-CG	6.93	119.53	112.60
1	H	431	ILE	CA-CB-CG2	6.93	122.28	110.50
1	I	458	VAL	CA-CB-CG2	6.93	122.18	110.40
1	K	362	VAL	CA-C-N	6.93	131.21	120.82
1	K	362	VAL	C-N-CA	6.93	131.21	120.82
1	M	182	VAL	CA-C-O	-6.93	113.04	120.59
1	M	378	ILE	CA-C-N	-6.93	114.16	123.10
1	M	378	ILE	C-N-CA	-6.93	114.16	123.10
1	A	152	LYS	CA-CB-CG	6.93	127.96	114.10
1	A	226	LYS	CB-CA-C	-6.93	96.64	110.42
1	F	126	ALA	CB-CA-C	6.93	124.51	110.38
1	L	186	GLY	CA-C-N	6.93	134.13	121.94
1	L	186	GLY	C-N-CA	6.93	134.13	121.94
1	N	356	GLU	N-CA-CB	6.93	122.19	110.49
1	P	236	ASN	O-C-N	-6.93	113.68	122.34
1	A	280	GLY	CA-C-O	-6.92	111.31	119.07
1	D	289	LYS	CB-CG-CD	6.92	127.23	111.30
1	D	170	LEU	CA-C-N	6.92	130.83	120.31
1	D	170	LEU	C-N-CA	6.92	130.83	120.31
1	G	473	LYS	N-CA-C	6.92	120.21	111.69
1	B	241	GLU	CA-C-O	-6.92	113.55	121.58
1	K	50	ASP	N-CA-C	6.92	120.89	109.96
1	L	145	GLN	O-C-N	-6.92	113.51	122.37
1	A	409	ARG	NE-CZ-NH2	-6.92	112.97	119.20
1	A	485	GLU	N-CA-C	6.92	122.01	113.50
1	F	330	SER	CA-CB-OG	6.92	124.94	111.10
1	H	13	LYS	O-C-N	-6.92	113.39	122.59
1	H	230	ALA	CA-C-O	6.92	128.17	120.70
1	J	239	ILE	CB-CG1-CD1	6.92	128.33	113.80
1	J	291	ASP	CA-CB-CG	6.92	119.52	112.60
1	M	136	LYS	N-CA-CB	6.92	120.88	110.22
1	B	114	ASN	CA-C-O	-6.92	110.62	120.51
1	C	37	SER	CA-C-O	-6.92	111.79	119.95
1	G	116	HIS	CB-CG-CD2	6.92	140.19	131.20
1	G	466	VAL	CA-C-O	-6.92	112.13	120.78
1	H	38	THR	CA-C-O	-6.92	111.42	119.24
1	I	9	PRO	N-CA-CB	6.92	110.51	103.25
1	N	115	VAL	CB-CA-C	6.92	122.48	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	274	HIS	CA-CB-CG	6.92	120.72	113.80
1	I	120	VAL	O-C-N	6.92	131.21	122.57
1	A	460	ASP	CA-C-N	-6.91	110.29	120.38
1	A	460	ASP	C-N-CA	-6.91	110.29	120.38
1	B	79	ILE	CB-CA-C	-6.91	102.81	112.14
1	F	205	ASP	CB-CG-OD2	6.91	134.30	118.40
1	I	203	ILE	CB-CA-C	6.91	122.63	111.29
1	J	138	ILE	CA-C-O	-6.91	111.25	119.54
1	O	71	GLU	N-CA-CB	6.91	122.17	110.49
1	O	229	ASP	N-CA-CB	6.91	122.14	110.46
1	E	10	GLU	CB-CG-CD	6.91	124.35	112.60
1	L	95	THR	N-CA-C	6.91	118.50	110.97
1	A	250	MET	CA-C-O	6.91	127.35	119.27
1	B	114	ASN	CA-CB-CG	6.91	119.51	112.60
1	F	149	ILE	O-C-N	-6.91	114.03	122.18
1	F	406	LEU	O-C-N	-6.91	112.92	122.46
1	P	275	TYR	CD1-CE1-CZ	-6.91	107.16	119.60
1	A	67	GLU	CB-CA-C	-6.91	99.46	110.86
1	D	33	GLU	N-CA-CB	6.91	122.17	110.49
1	D	37	SER	N-CA-C	6.91	125.51	110.80
1	I	191	ASP	O-C-N	-6.91	114.91	122.09
1	O	359	ALA	CB-CA-C	6.91	121.84	110.17
1	C	195	ILE	CA-C-N	6.91	131.30	121.42
1	C	195	ILE	C-N-CA	6.91	131.30	121.42
1	H	169	LYS	O-C-N	6.91	131.59	122.33
1	M	441	HIS	N-CA-C	6.91	120.93	112.23
1	N	81	VAL	CA-C-O	6.91	126.52	119.20
1	P	220	SER	CA-C-O	-6.91	113.07	120.46
1	A	219	VAL	N-CA-C	6.91	123.70	109.34
1	A	265	GLN	N-CA-C	-6.91	103.19	111.69
1	A	354	VAL	O-C-N	-6.91	115.12	121.89
1	B	377	ARG	CD-NE-CZ	6.91	134.07	124.40
1	B	410	ALA	N-CA-C	6.91	119.69	111.33
1	C	120	VAL	N-CA-C	6.91	117.61	110.36
1	H	94	THR	CA-CB-CG2	6.91	122.24	110.50
1	L	429	ASP	N-CA-CB	6.91	120.99	109.94
1	M	13	LYS	CA-C-O	-6.91	112.92	120.24
1	N	241	GLU	CA-C-O	-6.91	113.36	121.44
1	D	87	LYS	N-CA-C	6.90	122.76	111.37
1	A	58	THR	CA-CB-OG1	6.90	119.95	109.60
1	D	428	LEU	CA-C-N	-6.90	110.81	121.02
1	D	428	LEU	C-N-CA	-6.90	110.81	121.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	432	GLU	CB-CA-C	6.90	121.65	110.95
1	K	339	HIS	CA-CB-CG	6.90	120.70	113.80
1	K	481	ALA	N-CA-C	6.90	122.76	111.37
1	L	339	HIS	CG-CD2-NE2	6.90	114.10	107.20
1	O	11	ASN	CA-C-N	6.90	131.18	121.24
1	O	11	ASN	C-N-CA	6.90	131.18	121.24
1	O	137	THR	CA-C-O	6.90	127.21	119.41
1	A	338	LYS	CA-C-O	-6.90	111.53	119.60
1	D	78	LEU	CA-C-O	-6.90	111.46	119.05
1	J	221	ALA	N-CA-C	6.90	119.82	111.82
1	L	279	GLU	O-C-N	-6.90	112.14	122.28
1	B	217	GLU	CA-C-O	-6.90	113.47	121.82
1	C	178	VAL	CA-C-O	-6.90	112.75	120.96
1	D	15	TYR	CB-CG-CD1	-6.90	110.45	120.80
1	D	339	HIS	CA-C-O	-6.90	113.15	121.15
1	F	426	ALA	N-CA-CB	-6.90	100.57	110.57
1	G	286	ARG	CA-CB-CG	6.90	127.90	114.10
1	I	485	GLU	CB-CG-CD	-6.90	100.88	112.60
1	K	34	THR	CA-C-O	-6.90	110.65	120.51
1	K	184	ASP	N-CA-CB	-6.90	98.83	110.49
1	M	38	THR	N-CA-C	6.90	122.80	113.97
1	A	133	GLU	N-CA-CB	6.90	120.01	110.01
1	E	348	ARG	O-C-N	-6.90	115.34	123.06
1	K	110	LEU	N-CA-CB	6.90	120.07	110.07
1	B	248	LYS	N-CA-CB	6.89	120.92	110.30
1	B	486	MET	CA-C-O	-6.89	113.76	121.00
1	E	178	VAL	CA-CB-CG1	6.89	122.12	110.40
1	E	438	ARG	O-C-N	6.89	130.54	122.20
1	F	9	PRO	CA-C-O	-6.89	113.17	121.03
1	F	107	ALA	CA-C-N	6.89	129.52	120.28
1	F	107	ALA	C-N-CA	6.89	129.52	120.28
1	F	232	ILE	O-C-N	-6.89	115.33	122.63
1	J	88	GLU	N-CA-C	6.89	121.54	112.72
1	J	446	ASN	CB-CG-ND2	-6.89	106.06	116.40
1	O	361	ALA	N-CA-C	-6.89	104.13	112.54
1	P	269	ASP	CA-C-N	6.89	134.70	121.54
1	P	269	ASP	C-N-CA	6.89	134.70	121.54
1	G	49	VAL	CA-C-N	6.89	135.36	123.03
1	G	49	VAL	C-N-CA	6.89	135.36	123.03
1	I	146	ASP	CA-C-O	-6.89	113.06	120.92
1	J	333	PHE	CG-CD1-CE1	6.89	132.41	120.70
1	E	13	LYS	CA-C-O	-6.89	113.41	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	338	LYS	CA-C-N	6.89	138.61	121.80
1	N	338	LYS	C-N-CA	6.89	138.61	121.80
1	B	479	SER	O-C-N	6.89	131.75	122.59
1	E	105	ARG	CA-C-O	6.89	127.72	120.42
1	G	355	ILE	CB-CA-C	-6.89	102.99	111.87
1	H	410	ALA	N-CA-CB	6.89	120.83	110.22
1	I	134	LEU	N-CA-CB	6.89	120.35	110.16
1	J	483	SER	N-CA-CB	6.89	121.62	110.40
1	K	447	LYS	O-C-N	6.89	131.18	122.23
1	P	100	ALA	N-CA-C	-6.89	102.12	112.04
1	B	485	GLU	OE1-CD-OE2	6.88	139.42	122.90
1	J	293	GLU	N-CA-C	6.88	118.86	111.36
1	M	311	SER	CA-C-N	6.88	132.22	120.72
1	M	311	SER	C-N-CA	6.88	132.22	120.72
1	M	338	LYS	CB-CA-C	6.88	121.56	110.96
1	M	410	ALA	O-C-N	-6.88	114.17	122.22
1	G	145	GLN	CG-CD-NE2	6.88	126.72	116.40
1	B	130	LYS	N-CA-CB	6.88	120.24	110.12
1	C	50	ASP	N-CA-CB	6.88	120.28	110.44
1	C	172	GLU	CB-CA-C	6.88	123.50	109.67
1	I	454	PHE	CA-C-O	-6.88	110.67	120.51
1	J	268	ILE	CA-CB-CG2	6.88	122.20	110.50
1	M	259	ALA	O-C-N	6.88	131.07	123.22
1	G	245	GLU	OE1-CD-OE2	-6.88	106.39	122.90
1	M	184	ASP	CB-CG-OD1	6.88	134.22	118.40
1	N	307	ILE	CA-C-O	-6.88	112.18	120.78
1	F	76	LYS	CA-C-N	6.88	134.68	121.54
1	F	76	LYS	C-N-CA	6.88	134.68	121.54
1	F	247	LEU	CB-CA-C	6.88	120.91	109.56
1	I	8	LEU	N-CA-C	6.88	125.01	109.81
1	I	431	ILE	CA-C-O	6.88	128.20	121.05
1	J	309	ASP	CA-C-O	-6.88	111.00	119.18
1	L	254	ILE	CA-C-N	6.88	135.70	121.94
1	L	254	ILE	C-N-CA	6.88	135.70	121.94
1	L	265	GLN	OE1-CD-NE2	-6.88	115.72	122.60
1	N	326	ILE	CA-C-O	-6.88	113.19	120.76
1	I	285	ARG	CB-CA-C	6.88	121.12	109.50
1	I	315	LEU	CD1-CG-CD2	6.88	125.93	110.80
1	K	409	ARG	CD-NE-CZ	6.88	134.03	124.40
1	L	338	LYS	CA-C-N	6.88	130.59	122.89
1	L	338	LYS	C-N-CA	6.88	130.59	122.89
1	P	458	VAL	CA-CB-CG2	6.88	122.09	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	375	ASP	O-C-N	-6.88	114.29	123.23
1	K	113	GLN	CB-CG-CD	-6.88	100.91	112.60
1	M	438	ARG	CA-C-O	-6.88	113.54	120.90
1	B	482	GLU	CG-CD-OE1	6.87	134.21	118.40
1	D	63	THR	N-CA-C	6.87	125.44	110.80
1	G	376	GLY	N-CA-C	6.87	129.47	113.18
1	H	281	ILE	CB-CA-C	-6.87	102.52	111.25
1	I	304	ILE	N-CA-C	6.87	118.50	108.53
1	I	439	ALA	N-CA-C	-6.87	104.15	112.54
1	K	242	THR	CA-C-N	6.87	134.67	121.54
1	K	242	THR	C-N-CA	6.87	134.67	121.54
1	M	454	PHE	CD1-CE1-CZ	-6.87	107.63	120.00
1	N	493	VAL	CA-CB-CG1	6.87	122.09	110.40
1	C	401	SER	CA-C-O	-6.87	110.68	120.51
1	D	52	LEU	CB-CA-C	6.87	122.53	110.85
1	G	29	ARG	CA-C-O	-6.87	113.27	120.55
1	G	449	ALA	N-CA-CB	6.87	122.10	110.49
1	H	241	GLU	CA-C-N	6.87	134.66	121.54
1	H	241	GLU	C-N-CA	6.87	134.66	121.54
1	J	180	ALA	N-CA-C	6.87	121.75	113.23
1	L	32	ALA	CB-CA-C	-6.87	97.99	110.56
1	N	350	THR	CA-C-N	6.87	134.36	122.81
1	N	350	THR	C-N-CA	6.87	134.36	122.81
1	F	86	GLU	O-C-N	-6.87	114.61	122.03
1	I	374	GLU	OE1-CD-OE2	-6.87	106.42	122.90
1	N	302	ASN	CB-CA-C	6.87	121.46	110.19
1	F	471	ARG	CA-C-N	6.87	134.33	121.97
1	F	471	ARG	C-N-CA	6.87	134.33	121.97
1	H	124	TYR	CB-CA-C	6.87	124.09	110.42
1	C	133	GLU	O-C-N	-6.87	113.46	122.59
1	I	166	ALA	CA-C-O	-6.87	111.01	119.18
1	I	184	ASP	CA-CB-CG	6.87	119.47	112.60
1	I	189	ASP	CB-CA-C	6.87	120.61	109.90
1	P	90	GLY	CA-C-N	6.87	132.27	121.56
1	P	90	GLY	C-N-CA	6.87	132.27	121.56
1	B	160	GLY	CA-C-O	-6.86	108.63	120.57
1	F	83	LYS	O-C-N	-6.86	113.13	122.33
1	H	275	TYR	O-C-N	6.86	129.50	122.09
1	J	486	MET	CA-C-O	-6.86	113.59	120.80
1	O	460	ASP	N-CA-CB	6.86	120.73	109.88
1	D	293	GLU	CA-C-N	6.86	129.96	120.63
1	D	293	GLU	C-N-CA	6.86	129.96	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	135	LEU	O-C-N	-6.86	112.41	122.43
1	F	253	GLU	CG-CD-OE1	6.86	134.18	118.40
1	L	483	SER	CA-C-O	6.86	127.97	120.90
1	F	157	SER	CA-C-O	-6.86	113.21	120.55
1	F	194	LYS	O-C-N	6.86	131.09	122.65
1	G	18	ARG	CA-C-N	6.86	132.10	121.19
1	G	18	ARG	C-N-CA	6.86	132.10	121.19
1	K	187	LYS	CA-C-N	-6.86	113.46	122.99
1	K	187	LYS	C-N-CA	-6.86	113.46	122.99
1	O	98	VAL	N-CA-C	-6.86	103.97	110.42
1	O	471	ARG	N-CA-C	-6.86	104.79	113.02
1	A	290	SER	CA-CB-OG	6.86	124.81	111.10
1	A	295	LEU	CA-C-N	6.86	130.73	120.31
1	A	295	LEU	C-N-CA	6.86	130.73	120.31
1	E	341	LYS	CB-CA-C	6.86	124.37	110.38
1	G	155	MET	N-CA-C	6.86	125.41	110.80
1	N	468	GLU	CA-C-O	-6.86	112.25	120.41
1	O	79	ILE	N-CA-CB	6.86	125.45	111.05
1	P	10	GLU	OE1-CD-OE2	-6.86	106.44	122.90
1	A	228	THR	N-CA-C	6.86	125.40	110.80
1	B	7	VAL	CA-C-N	6.86	137.13	123.56
1	B	7	VAL	C-N-CA	6.86	137.13	123.56
1	E	104	LEU	CB-CA-C	-6.86	97.55	109.07
1	E	298	ALA	CA-C-N	6.86	129.76	120.44
1	E	298	ALA	C-N-CA	6.86	129.76	120.44
1	E	477	ILE	N-CA-CB	6.86	120.39	110.52
1	G	115	VAL	CA-CB-CG2	6.86	122.06	110.40
1	G	154	ALA	N-CA-CB	-6.86	99.56	110.19
1	H	56	VAL	O-C-N	6.86	130.60	123.20
1	I	496	ALA	CA-C-O	-6.86	110.71	120.51
1	K	180	ALA	N-CA-C	6.86	119.76	111.40
1	K	253	GLU	CA-C-O	-6.86	113.21	120.55
1	L	169	LYS	CA-C-N	6.86	132.30	120.58
1	L	169	LYS	C-N-CA	6.86	132.30	120.58
1	O	120	VAL	CA-C-O	6.86	129.35	120.78
1	B	336	GLU	CA-C-N	6.85	134.63	121.54
1	B	336	GLU	C-N-CA	6.85	134.63	121.54
1	H	292	MET	N-CA-CB	6.85	120.15	109.94
1	L	333	PHE	CZ-CE2-CD2	6.85	132.34	120.00
1	M	136	LYS	CA-C-O	-6.85	112.36	120.10
1	N	258	GLY	O-C-N	-6.85	113.79	122.70
1	O	403	ARG	NE-CZ-NH2	-6.85	113.03	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	493	VAL	CA-CB-CG1	6.85	122.05	110.40
1	F	291	ASP	N-CA-C	6.85	125.40	110.80
1	J	137	THR	CA-CB-CG2	6.85	122.15	110.50
1	K	337	CYS	CA-C-O	-6.85	113.47	122.03
1	N	74	ALA	O-C-N	6.85	129.96	122.15
1	B	69	SER	CB-CA-C	6.85	124.05	110.42
1	E	196	GLU	CA-C-O	-6.85	114.06	121.94
1	K	116	HIS	CG-CD2-NE2	-6.85	100.35	107.20
1	M	395	GLU	CG-CD-OE2	6.85	134.16	118.40
1	C	208	LEU	O-C-N	6.85	130.99	122.63
1	F	102	GLU	O-C-N	-6.85	113.48	122.59
1	M	336	GLU	N-CA-C	6.85	125.39	110.80
1	A	88	GLU	O-C-N	-6.85	113.48	122.59
1	A	297	LYS	CA-CB-CG	6.85	127.80	114.10
1	B	146	ASP	N-CA-C	-6.85	100.76	110.35
1	D	252	ALA	CA-C-N	6.85	132.32	120.68
1	D	252	ALA	C-N-CA	6.85	132.32	120.68
1	E	290	SER	CB-CA-C	-6.85	99.85	110.81
1	G	405	GLN	CA-C-O	6.85	128.03	120.63
1	H	448	CYS	N-CA-C	6.85	119.89	108.73
1	L	436	LYS	CA-C-O	-6.85	113.16	120.42
1	O	224	PRO	CA-N-CD	-6.85	102.41	112.00
1	D	24	ASN	CA-CB-CG	-6.85	105.75	112.60
1	D	70	VAL	CA-CB-CG1	6.85	122.04	110.40
1	H	38	THR	OG1-CB-CG2	6.85	122.99	109.30
1	H	199	SER	O-C-N	-6.85	113.48	122.59
1	B	444	ASN	CB-CG-ND2	-6.84	106.13	116.40
1	H	371	CYS	N-CA-CB	-6.84	100.50	110.70
1	M	373	ILE	CA-C-N	6.84	132.31	120.68
1	M	373	ILE	C-N-CA	6.84	132.31	120.68
1	D	228	THR	CB-CA-C	6.84	124.04	110.42
1	E	145	GLN	CA-C-O	-6.84	110.16	119.12
1	O	55	VAL	CG1-CB-CG2	-6.84	95.74	110.80
1	B	328	GLY	CA-C-O	-6.84	108.66	120.57
1	F	225	LYS	N-CA-CB	-6.84	101.83	110.45
1	F	313	GLN	CA-C-N	6.84	134.61	121.54
1	F	313	GLN	C-N-CA	6.84	134.61	121.54
1	H	96	ALA	CA-C-O	6.84	128.58	120.92
1	I	462	CYS	N-CA-C	-6.84	103.05	111.40
1	K	33	GLU	N-CA-C	-6.84	102.99	111.75
1	L	186	GLY	O-C-N	-6.84	113.81	122.70
1	M	313	GLN	CA-C-N	6.84	134.61	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	313	GLN	C-N-CA	6.84	134.61	121.54
1	O	478	GLN	N-CA-CB	6.84	122.05	110.49
1	B	121	VAL	CB-CA-C	-6.84	102.01	111.65
1	D	453	VAL	CB-CA-C	-6.84	102.06	112.05
1	K	252	ALA	CA-C-N	6.84	132.13	120.71
1	K	252	ALA	C-N-CA	6.84	132.13	120.71
1	L	363	ASP	CA-CB-CG	6.84	119.44	112.60
1	G	495	ALA	N-CA-C	6.84	120.30	109.50
1	K	335	GLU	CA-C-N	-6.84	113.40	123.93
1	K	335	GLU	C-N-CA	-6.84	113.40	123.93
1	M	430	ALA	CA-C-O	-6.84	113.62	120.80
1	A	374	GLU	O-C-N	-6.84	113.50	122.59
1	C	159	THR	N-CA-C	6.84	121.19	110.32
1	E	362	VAL	CA-C-O	-6.84	113.39	120.71
1	H	430	ALA	CA-C-O	-6.84	110.73	120.51
1	H	493	VAL	O-C-N	-6.84	112.29	122.20
1	L	299	THR	O-C-N	-6.84	115.03	122.07
1	O	489	ARG	CA-C-N	6.84	134.27	121.97
1	O	489	ARG	C-N-CA	6.84	134.27	121.97
1	P	256	ALA	O-C-N	6.84	129.37	122.12
1	A	251	VAL	CB-CA-C	6.83	120.87	111.92
1	F	489	ARG	N-CA-CB	6.83	122.04	110.49
1	G	270	ASP	O-C-N	-6.83	113.34	122.23
1	I	86	GLU	CB-CG-CD	6.83	124.22	112.60
1	B	477	ILE	CA-CB-CG1	6.83	122.02	110.40
1	C	319	GLY	CA-C-N	6.83	132.65	121.58
1	C	319	GLY	C-N-CA	6.83	132.65	121.58
1	D	21	GLN	CB-CA-C	-6.83	100.15	110.88
1	F	14	ARG	CD-NE-CZ	6.83	133.97	124.40
1	J	333	PHE	CA-C-O	6.83	130.00	121.66
1	K	268	ILE	N-CA-CB	6.83	122.50	111.23
1	M	59	ASN	OD1-CG-ND2	-6.83	115.77	122.60
1	O	314	ASP	CA-C-O	-6.83	110.74	120.51
1	O	428	LEU	N-CA-CB	6.83	120.68	110.29
1	P	65	LEU	CA-C-N	6.83	134.59	121.54
1	P	65	LEU	C-N-CA	6.83	134.59	121.54
1	B	474	THR	O-C-N	-6.83	113.93	122.20
1	C	25	ILE	O-C-N	6.83	130.78	121.90
1	D	339	HIS	ND1-CE1-NE2	-6.83	101.57	108.40
1	I	463	GLU	N-CA-CB	6.83	122.48	110.18
1	K	265	GLN	N-CA-C	-6.83	103.06	111.40
1	K	350	THR	CA-C-N	6.83	136.34	123.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	350	THR	C-N-CA	6.83	136.34	123.09
1	C	423	ALA	CA-C-O	6.83	128.01	120.63
1	B	129	GLN	CG-CD-OE1	6.83	134.46	120.80
1	D	249	ASP	CB-CG-OD1	6.83	134.10	118.40
1	L	228	THR	CB-CA-C	6.83	124.01	110.42
1	P	19	ASP	CA-CB-CG	6.83	119.43	112.60
1	I	105	ARG	NH1-CZ-NH2	-6.83	110.42	119.30
1	I	354	VAL	N-CA-CB	6.83	122.49	111.23
1	K	312	ALA	N-CA-CB	6.83	123.45	110.82
1	L	173	ILE	O-C-N	-6.83	113.18	122.26
1	N	111	LEU	N-CA-C	-6.83	104.21	112.54
1	N	382	GLY	O-C-N	-6.83	114.34	122.33
1	G	271	LEU	CA-C-O	6.83	128.20	120.90
1	I	67	GLU	CA-C-O	6.83	127.82	120.24
1	K	266	LYS	CA-C-O	-6.83	113.56	121.82
1	L	369	VAL	CB-CA-C	-6.83	102.03	111.65
1	N	446	ASN	CA-CB-CG	6.83	119.42	112.60
1	P	44	MET	O-C-N	-6.83	115.32	123.03
1	P	56	VAL	CA-CB-CG1	6.83	122.00	110.40
1	P	347	ILE	N-CA-CB	6.83	120.50	111.90
1	B	45	ASP	O-C-N	6.82	130.56	121.83
1	E	106	LYS	N-CA-CB	-6.82	99.28	110.40
1	F	55	VAL	CA-C-N	6.82	133.25	122.33
1	F	55	VAL	C-N-CA	6.82	133.25	122.33
1	F	438	ARG	CD-NE-CZ	6.82	133.95	124.40
1	L	279	GLU	CA-CB-CG	-6.82	100.45	114.10
1	M	296	ALA	CA-C-O	6.82	127.65	120.42
1	A	241	GLU	O-C-N	-6.82	115.05	123.44
1	B	57	VAL	O-C-N	6.82	132.07	122.59
1	D	312	ALA	CA-C-O	-6.82	113.19	120.42
1	A	9	PRO	O-C-N	-6.82	113.43	122.64
1	D	477	ILE	O-C-N	-6.82	114.05	122.57
1	E	95	THR	O-C-N	-6.82	113.12	122.46
1	I	25	ILE	N-CA-C	-6.82	103.69	110.30
1	K	26	LEU	O-C-N	-6.82	113.52	122.59
1	M	257	SER	CA-C-N	-6.82	108.04	121.41
1	M	257	SER	C-N-CA	-6.82	108.04	121.41
1	P	141	GLU	CA-C-N	6.82	134.25	121.97
1	P	141	GLU	C-N-CA	6.82	134.25	121.97
1	J	114	ASN	N-CA-CB	6.82	122.01	110.49
1	A	245	GLU	N-CA-C	6.82	125.32	110.80
1	J	204	ASP	O-C-N	-6.82	113.36	122.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	218	ARG	NH1-CZ-NH2	-6.82	110.44	119.30
1	P	360	ARG	N-CA-C	6.82	118.36	111.07
1	A	108	GLU	CA-C-O	6.82	127.64	120.42
1	A	428	LEU	CA-C-N	6.82	132.15	121.99
1	A	428	LEU	C-N-CA	6.82	132.15	121.99
1	B	371	CYS	N-CA-CB	6.82	120.42	110.26
1	E	236	ASN	CB-CG-ND2	6.82	126.62	116.40
1	H	304	ILE	CA-C-O	-6.82	112.26	120.78
1	L	273	GLN	CA-CB-CG	6.82	127.73	114.10
1	N	7	VAL	CA-CB-CG2	-6.82	98.81	110.40
1	D	177	ALA	N-CA-C	-6.81	103.64	112.23
1	H	336	GLU	CA-C-N	6.81	132.14	121.99
1	H	336	GLU	C-N-CA	6.81	132.14	121.99
1	I	329	ASP	OD1-CG-OD2	6.81	139.25	122.90
1	L	307	ILE	O-C-N	-6.81	114.81	121.90
1	A	52	LEU	CA-C-N	6.81	134.76	121.41
1	A	52	LEU	C-N-CA	6.81	134.76	121.41
1	A	489	ARG	NE-CZ-NH1	-6.81	114.69	121.50
1	C	326	ILE	O-C-N	-6.81	115.98	123.20
1	D	478	GLN	CA-C-O	-6.81	113.26	120.55
1	O	478	GLN	CA-CB-CG	6.81	127.72	114.10
1	E	292	MET	N-CA-C	6.81	119.72	111.82
1	L	196	GLU	CB-CG-CD	-6.81	101.02	112.60
1	A	165	LYS	CA-CB-CG	-6.81	100.48	114.10
1	D	20	ALA	CA-C-N	6.81	129.29	120.44
1	D	20	ALA	C-N-CA	6.81	129.29	120.44
1	I	315	LEU	CA-C-O	-6.81	110.77	120.51
1	K	59	ASN	OD1-CG-ND2	-6.81	115.79	122.60
1	A	129	GLN	CA-C-O	-6.81	113.33	120.55
1	C	129	GLN	CA-C-N	6.81	131.49	120.60
1	C	129	GLN	C-N-CA	6.81	131.49	120.60
1	F	213	LEU	CA-C-N	6.81	129.55	122.27
1	F	213	LEU	C-N-CA	6.81	129.55	122.27
1	G	322	GLU	CB-CA-C	6.81	122.02	109.70
1	P	52	LEU	O-C-N	-6.81	114.26	122.22
1	D	398	GLU	CA-C-O	-6.81	110.78	120.51
1	H	275	TYR	CG-CD1-CE1	6.81	131.41	121.20
1	H	335	GLU	N-CA-C	6.81	121.13	110.17
1	I	155	MET	N-CA-C	6.81	119.56	111.33
1	I	416	GLU	O-C-N	-6.81	112.69	122.36
1	O	210	LYS	CB-CA-C	6.81	123.96	110.42
1	A	142	VAL	CA-C-O	6.80	129.29	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	167	LYS	CB-CA-C	-6.80	99.28	110.85
1	D	459	GLU	CA-C-O	-6.80	112.44	120.60
1	E	465	GLY	O-C-N	-6.80	113.85	122.70
1	H	26	LEU	CA-C-N	6.80	132.01	121.19
1	H	26	LEU	C-N-CA	6.80	132.01	121.19
1	H	136	LYS	CB-CG-CD	6.80	126.95	111.30
1	I	311	SER	O-C-N	-6.80	117.29	123.41
1	I	368	VAL	N-CA-C	6.80	121.96	112.50
1	J	265	GLN	CA-C-N	6.80	133.95	121.70
1	J	265	GLN	C-N-CA	6.80	133.95	121.70
1	J	377	ARG	O-C-N	6.80	131.81	123.44
1	M	450	GLY	CA-C-N	6.80	131.91	122.79
1	M	450	GLY	C-N-CA	6.80	131.91	122.79
1	B	259	ALA	CA-C-N	6.80	133.04	121.14
1	B	259	ALA	C-N-CA	6.80	133.04	121.14
1	D	208	LEU	N-CA-C	6.80	120.40	108.56
1	F	313	GLN	CA-C-O	6.80	128.19	120.71
1	K	272	ALA	CB-CA-C	6.80	122.42	110.85
1	B	304	ILE	CA-C-O	-6.80	113.96	121.92
1	D	327	SER	CA-C-O	-6.80	110.11	119.16
1	G	287	VAL	O-C-N	-6.80	116.19	122.79
1	I	275	TYR	N-CA-CB	6.80	120.16	109.82
1	I	466	VAL	CA-C-O	-6.80	112.28	120.78
1	L	178	VAL	CA-C-O	-6.80	113.50	121.05
1	N	421	THR	CA-CB-OG1	6.80	119.80	109.60
1	A	14	ARG	O-C-N	6.80	132.07	123.23
1	A	330	SER	N-CA-C	6.80	119.66	109.25
1	A	387	VAL	N-CA-C	6.80	120.56	111.17
1	B	496	ALA	N-CA-C	6.80	120.21	109.81
1	C	14	ARG	CB-CG-CD	6.80	126.94	111.30
1	C	414	ALA	N-CA-C	6.80	120.80	112.23
1	H	362	VAL	O-C-N	-6.80	114.07	122.57
1	H	387	VAL	CA-CB-CG1	6.80	121.96	110.40
1	I	266	LYS	N-CA-CB	6.80	120.94	110.60
1	M	103	LEU	O-C-N	6.80	131.63	122.59
1	N	415	LEU	N-CA-CB	6.80	121.98	110.49
1	A	434	LEU	O-C-N	-6.80	113.32	122.43
1	B	214	VAL	CA-C-O	6.80	127.05	121.68
1	N	42	LYS	CG-CD-CE	6.80	126.94	111.30
1	B	189	ASP	CA-C-O	6.80	128.77	121.16
1	F	475	GLN	N-CA-C	-6.80	103.00	112.45
1	G	221	ALA	O-C-N	6.80	132.01	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	97	VAL	N-CA-C	6.80	121.93	112.35
1	K	70	VAL	CG1-CB-CG2	6.80	125.75	110.80
1	M	237	CYS	CA-C-N	6.80	134.52	121.54
1	M	237	CYS	C-N-CA	6.80	134.52	121.54
1	B	408	VAL	CA-CB-CG2	6.79	121.95	110.40
1	E	457	ALA	CB-CA-C	-6.79	97.92	111.91
1	E	483	SER	CB-CA-C	6.79	122.99	110.56
1	F	348	ARG	NE-CZ-NH1	6.79	128.29	121.50
1	H	441	HIS	ND1-CE1-NE2	6.79	115.19	108.40
1	K	174	ILE	CA-CB-CG1	6.79	121.95	110.40
1	K	268	ILE	O-C-N	-6.79	114.08	122.57
1	K	469	PRO	CB-CA-C	-6.79	100.35	111.56
1	L	217	GLU	CB-CG-CD	6.79	124.15	112.60
1	N	85	GLN	CA-C-N	6.79	129.87	120.63
1	N	85	GLN	C-N-CA	6.79	129.87	120.63
1	N	357	GLU	N-CA-CB	6.79	119.92	110.07
1	O	375	ASP	CB-CA-C	-6.79	96.23	109.68
1	P	362	VAL	N-CA-C	6.79	118.78	111.58
1	A	320	LEU	CA-C-O	-6.79	112.19	120.54
1	A	369	VAL	CA-C-N	6.79	127.48	119.94
1	A	369	VAL	C-N-CA	6.79	127.48	119.94
1	F	397	ALA	CB-CA-C	6.79	123.13	110.70
1	H	303	VAL	N-CA-C	6.79	118.23	107.98
1	L	471	ARG	CD-NE-CZ	-6.79	114.89	124.40
1	N	15	TYR	CA-C-O	-6.79	113.44	121.11
1	N	30	ILE	CA-CB-CG2	6.79	122.05	110.50
1	E	229	ASP	CB-CA-C	6.79	123.93	110.42
1	M	203	ILE	CA-CB-CG2	6.79	122.04	110.50
1	M	263	PHE	CA-CB-CG	6.79	120.59	113.80
1	A	71	GLU	CG-CD-OE1	6.79	134.02	118.40
1	D	454	PHE	CD1-CG-CD2	-6.79	108.42	118.60
1	H	90	GLY	CA-C-N	6.79	134.51	121.54
1	H	90	GLY	C-N-CA	6.79	134.51	121.54
1	J	210	LYS	CG-CD-CE	6.79	126.91	111.30
1	K	219	VAL	CA-CB-CG1	6.79	121.94	110.40
1	K	66	ARG	CD-NE-CZ	6.79	133.90	124.40
1	N	490	ILE	CA-CB-CG1	6.79	121.94	110.40
1	A	260	ASN	N-CA-C	6.79	121.30	112.89
1	A	359	ALA	CB-CA-C	6.79	124.22	110.38
1	B	38	THR	CA-C-N	6.79	130.80	120.82
1	B	38	THR	C-N-CA	6.79	130.80	120.82
1	D	215	ASP	CB-CA-C	6.79	122.77	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	356	GLU	CA-C-O	-6.79	113.30	120.63
1	K	490	ILE	O-C-N	-6.79	114.09	122.57
1	M	38	THR	CA-C-O	6.79	126.23	118.97
1	M	220	SER	CA-C-O	-6.79	113.31	121.05
1	O	474	THR	CA-C-N	6.79	131.14	121.71
1	O	474	THR	C-N-CA	6.79	131.14	121.71
1	P	254	ILE	CA-C-O	-6.79	113.66	120.85
1	A	137	THR	N-CA-CB	6.78	122.26	110.39
1	C	30	ILE	CA-C-N	-6.78	109.76	121.97
1	C	30	ILE	C-N-CA	-6.78	109.76	121.97
1	C	454	PHE	CA-CB-CG	-6.78	107.02	113.80
1	G	421	THR	CA-CB-CG2	6.78	122.03	110.50
1	I	211	GLY	O-C-N	-6.78	113.88	122.70
1	J	253	GLU	N-CA-CB	6.78	120.72	110.14
1	L	20	ALA	CA-C-O	-6.78	110.81	120.51
1	M	159	THR	O-C-N	-6.78	114.89	123.24
1	O	236	ASN	CB-CG-OD1	6.78	134.37	120.80
1	P	159	THR	CA-C-N	6.78	132.53	121.00
1	P	159	THR	C-N-CA	6.78	132.53	121.00
1	P	203	ILE	N-CA-C	6.78	123.45	109.34
1	B	41	PRO	CA-C-O	-6.78	108.26	120.60
1	C	433	ILE	N-CA-CB	6.78	118.48	110.55
1	F	183	ASP	OD1-CG-OD2	-6.78	106.62	122.90
1	J	59	ASN	CB-CG-ND2	-6.78	106.23	116.40
1	J	396	TYR	CB-CG-CD1	-6.78	110.63	120.80
1	B	280	GLY	CA-C-N	6.78	131.29	121.80
1	B	280	GLY	C-N-CA	6.78	131.29	121.80
1	C	157	SER	N-CA-C	6.78	120.77	112.23
1	D	18	ARG	NE-CZ-NH2	6.78	125.30	119.20
1	D	169	LYS	N-CA-C	6.78	121.64	113.23
1	J	228	THR	CA-C-N	-6.78	110.98	121.02
1	J	228	THR	C-N-CA	-6.78	110.98	121.02
1	K	217	GLU	CA-C-O	-6.78	113.04	120.36
1	A	60	ASP	O-C-N	-6.78	113.57	122.59
1	G	308	LYS	CA-C-N	6.78	132.21	120.68
1	G	308	LYS	C-N-CA	6.78	132.21	120.68
1	L	314	ASP	N-CA-CB	6.78	121.95	110.49
1	O	364	ASP	CA-CB-CG	6.78	119.38	112.60
1	O	474	THR	O-C-N	6.78	132.04	122.41
1	A	15	TYR	CA-C-N	6.78	134.48	121.54
1	A	15	TYR	C-N-CA	6.78	134.48	121.54
1	A	92	GLY	O-C-N	6.78	130.26	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	446	ASN	CA-C-N	6.78	129.59	120.65
1	A	446	ASN	C-N-CA	6.78	129.59	120.65
1	I	276	LEU	CA-C-O	-6.78	112.44	120.10
1	I	476	ALA	N-CA-C	-6.78	103.89	111.28
1	M	115	VAL	CA-CB-CG2	6.78	121.92	110.40
1	N	242	THR	CA-CB-CG2	6.78	122.02	110.50
1	O	215	ASP	N-CA-CB	6.78	121.94	110.49
1	O	462	CYS	N-CA-CB	6.78	120.19	110.16
1	P	141	GLU	CB-CA-C	6.78	120.98	109.53
1	F	371	CYS	N-CA-C	6.78	121.63	113.23
1	F	481	ALA	N-CA-C	6.78	118.46	111.14
1	H	365	ALA	CA-C-N	6.78	131.89	120.64
1	H	365	ALA	C-N-CA	6.78	131.89	120.64
1	K	484	THR	N-CA-C	6.78	119.68	111.82
1	L	69	SER	CA-C-O	-6.78	110.82	120.51
1	O	121	VAL	CA-C-N	6.78	129.36	120.28
1	O	121	VAL	C-N-CA	6.78	129.36	120.28
1	O	319	GLY	CA-C-N	6.78	134.48	121.54
1	O	319	GLY	C-N-CA	6.78	134.48	121.54
1	P	300	GLY	CA-C-N	6.78	130.45	120.90
1	P	300	GLY	C-N-CA	6.78	130.45	120.90
1	D	67	GLU	OE1-CD-OE2	6.77	139.16	122.90
1	D	362	VAL	N-CA-C	6.77	123.35	113.39
1	J	222	GLN	CA-C-O	-6.77	113.24	120.42
1	K	401	SER	N-CA-CB	6.77	121.94	110.49
1	O	171	ALA	O-C-N	6.77	131.29	122.42
1	P	31	ILE	CA-C-N	6.77	129.25	120.44
1	P	31	ILE	C-N-CA	6.77	129.25	120.44
1	A	180	ALA	CB-CA-C	6.77	119.84	109.34
1	J	467	VAL	CA-CB-CG1	6.77	121.91	110.40
1	K	8	LEU	CA-C-O	-6.77	114.27	120.50
1	M	71	GLU	CB-CA-C	-6.77	99.26	110.37
1	F	67	GLU	CA-C-O	-6.77	113.71	120.82
1	F	87	LYS	CA-C-N	6.77	134.47	121.54
1	F	87	LYS	C-N-CA	6.77	134.47	121.54
1	A	10	GLU	CB-CG-CD	6.77	124.11	112.60
1	A	403	ARG	NE-CZ-NH2	-6.77	113.11	119.20
1	B	335	GLU	CA-C-O	6.77	130.49	121.89
1	C	161	LYS	CA-CB-CG	6.77	127.64	114.10
1	C	246	MET	CA-C-O	6.77	130.19	120.51
1	M	90	GLY	O-C-N	6.77	131.50	122.70
1	M	257	SER	CA-CB-OG	6.77	124.64	111.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	351	THR	N-CA-C	6.77	120.66	109.96
1	B	462	CYS	N-CA-C	6.77	122.53	111.37
1	F	230	ALA	CA-C-N	6.77	134.47	123.37
1	F	230	ALA	C-N-CA	6.77	134.47	123.37
1	I	217	GLU	CB-CG-CD	6.77	124.10	112.60
1	G	405	GLN	CB-CG-CD	6.77	124.10	112.60
1	K	356	GLU	O-C-N	-6.77	113.59	122.59
1	L	395	GLU	CA-CB-CG	-6.77	100.57	114.10
1	A	67	GLU	N-CA-CB	6.76	120.02	110.07
1	B	64	ILE	O-C-N	-6.76	112.91	121.84
1	D	52	LEU	N-CA-C	-6.76	103.99	111.36
1	H	48	LEU	CA-C-N	6.76	131.97	122.23
1	H	48	LEU	C-N-CA	6.76	131.97	122.23
1	M	438	ARG	NE-CZ-NH1	6.76	128.26	121.50
1	G	105	ARG	CG-CD-NE	6.76	126.88	112.00
1	K	156	THR	O-C-N	-6.76	113.95	122.27
1	O	157	SER	O-C-N	6.76	129.86	122.15
1	P	345	MET	N-CA-CB	-6.76	96.98	110.64
1	A	111	LEU	N-CA-C	6.76	125.20	110.80
1	G	80	GLU	CA-CB-CG	6.76	127.62	114.10
1	H	324	ARG	CA-C-N	6.76	132.21	121.66
1	H	324	ARG	C-N-CA	6.76	132.21	121.66
1	I	131	ALA	N-CA-CB	6.76	120.80	109.78
1	J	292	MET	CA-C-O	-6.76	111.81	119.79
1	K	249	ASP	N-CA-CB	6.76	120.99	110.44
1	K	404	GLU	CA-CB-CG	6.76	127.62	114.10
1	M	204	ASP	N-CA-CB	6.76	121.21	110.73
1	N	477	ILE	O-C-N	-6.76	114.98	121.94
1	A	414	ALA	N-CA-CB	6.76	120.63	110.22
1	E	35	VAL	N-CA-C	6.76	123.40	109.34
1	F	413	ASP	CA-C-N	6.76	129.57	120.65
1	F	413	ASP	C-N-CA	6.76	129.57	120.65
1	J	64	ILE	CA-C-O	6.76	127.94	120.71
1	M	389	LEU	N-CA-C	-6.76	103.91	111.28
1	P	356	GLU	CG-CD-OE2	-6.76	102.85	118.40
1	C	195	ILE	CA-C-O	-6.76	112.33	120.78
1	A	147	LYS	O-C-N	-6.76	114.31	122.22
1	B	217	GLU	O-C-N	6.76	130.58	122.20
1	C	215	ASP	N-CA-CB	6.76	120.78	110.44
1	F	119	ILE	CA-CB-CG2	-6.76	99.01	110.50
1	F	487	LEU	CA-C-O	-6.76	110.27	119.12
1	M	455	THR	N-CA-C	-6.76	103.72	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	310	LEU	CA-C-O	-6.75	113.72	121.15
1	F	437	VAL	O-C-N	6.75	129.17	121.94
1	G	36	ARG	NE-CZ-NH2	6.75	125.28	119.20
1	K	98	VAL	N-CA-CB	6.75	119.22	110.57
1	K	466	VAL	O-C-N	-6.75	114.13	122.57
1	M	36	ARG	N-CA-C	6.75	118.30	111.07
1	N	84	THR	N-CA-CB	6.75	120.33	110.26
1	A	159	THR	O-C-N	6.75	131.79	123.21
1	B	366	VAL	CA-C-O	6.75	127.76	120.47
1	G	312	ALA	CA-C-N	6.75	134.44	121.54
1	G	312	ALA	C-N-CA	6.75	134.44	121.54
1	K	124	TYR	O-C-N	6.75	131.78	122.46
1	O	278	LYS	O-C-N	-6.75	112.82	122.41
1	P	146	ASP	CA-CB-CG	-6.75	105.85	112.60
1	P	148	GLU	CB-CG-CD	6.75	124.08	112.60
1	A	432	GLU	N-CA-CB	6.75	120.12	110.13
1	B	116	HIS	CB-CG-ND1	-6.75	112.57	122.70
1	B	253	GLU	N-CA-C	6.75	118.72	111.36
1	C	315	LEU	CA-C-O	-6.75	113.26	121.36
1	C	348	ARG	N-CA-C	6.75	121.06	110.32
1	G	33	GLU	CG-CD-OE1	6.75	133.93	118.40
1	G	127	ALA	N-CA-C	6.75	121.35	113.18
1	G	141	GLU	CB-CA-C	6.75	120.94	109.53
1	G	444	ASN	CA-C-N	-6.75	108.18	121.41
1	G	444	ASN	C-N-CA	-6.75	108.18	121.41
1	H	52	LEU	O-C-N	-6.75	114.96	122.12
1	L	373	ILE	CA-C-N	6.75	134.44	121.54
1	L	373	ILE	C-N-CA	6.75	134.44	121.54
1	P	271	LEU	N-CA-C	6.75	125.18	110.80
1	E	155	MET	N-CA-C	6.75	125.18	110.80
1	F	348	ARG	CB-CA-C	6.75	120.94	109.80
1	L	199	SER	CA-C-O	-6.75	114.18	121.94
1	L	314	ASP	CA-CB-CG	6.75	119.35	112.60
1	M	305	THR	N-CA-CB	6.75	121.90	110.49
1	M	478	GLN	N-CA-CB	6.75	119.77	109.98
1	B	27	ALA	CB-CA-C	-6.75	99.14	110.81
1	B	462	CYS	CA-C-N	6.75	130.57	120.31
1	B	462	CYS	C-N-CA	6.75	130.57	120.31
1	F	254	ILE	N-CA-C	6.75	121.88	112.50
1	I	496	ALA	CA-C-N	6.75	133.85	121.70
1	I	496	ALA	C-N-CA	6.75	133.85	121.70
1	L	86	GLU	N-CA-C	6.75	118.64	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	116	HIS	N-CA-CB	6.75	122.38	110.37
1	N	278	LYS	CA-C-O	-6.75	112.64	120.20
1	A	70	VAL	CA-C-O	-6.75	113.39	121.28
1	K	132	GLN	CG-CD-NE2	-6.75	106.28	116.40
1	O	288	LYS	CA-C-O	6.75	128.70	121.55
1	B	445	GLY	N-CA-C	-6.75	100.75	110.60
1	E	24	ASN	N-CA-CB	-6.75	99.04	110.51
1	H	376	GLY	N-CA-C	6.75	129.17	113.18
1	L	302	ASN	CA-CB-CG	-6.75	105.86	112.60
1	L	136	LYS	CB-CA-C	6.74	121.56	110.17
1	A	299	THR	N-CA-CB	6.74	119.85	110.07
1	L	360	ARG	CD-NE-CZ	6.74	133.84	124.40
1	P	235	LEU	N-CA-CB	-6.74	100.39	110.71
1	P	389	LEU	CA-C-O	-6.74	112.22	119.97
1	B	467	VAL	CA-C-O	-6.74	114.53	121.67
1	E	319	GLY	N-CA-C	6.74	123.67	115.31
1	K	256	ALA	O-C-N	6.74	130.33	122.17
1	O	493	VAL	N-CA-C	6.74	117.59	107.75
1	P	52	LEU	CA-C-N	6.74	134.81	121.53
1	P	52	LEU	C-N-CA	6.74	134.81	121.53
1	B	154	ALA	CA-C-N	6.74	134.41	121.54
1	B	154	ALA	C-N-CA	6.74	134.41	121.54
1	B	155	MET	O-C-N	-6.74	113.63	122.59
1	C	194	LYS	CA-C-O	-6.74	113.72	121.47
1	D	403	ARG	O-C-N	-6.74	113.63	122.59
1	G	301	ALA	CB-CA-C	-6.74	98.11	109.50
1	H	65	LEU	CB-CA-C	6.74	120.39	109.07
1	L	309	ASP	CA-CB-CG	6.74	119.34	112.60
1	A	115	VAL	N-CA-C	6.74	123.35	109.34
1	A	342	ALA	CA-C-O	-6.74	113.09	120.30
1	D	308	LYS	CA-CB-CG	6.74	127.58	114.10
1	G	292	MET	CA-C-N	6.74	129.31	120.28
1	G	292	MET	C-N-CA	6.74	129.31	120.28
1	I	36	ARG	NE-CZ-NH1	-6.74	114.76	121.50
1	N	242	THR	CA-CB-OG1	6.74	119.71	109.60
1	P	253	GLU	CB-CA-C	6.74	123.21	109.67
1	A	87	LYS	N-CA-C	6.74	118.62	111.28
1	B	47	MET	O-C-N	-6.74	114.41	122.63
1	C	152	LYS	CB-CG-CD	6.74	126.79	111.30
1	K	387	VAL	CA-C-N	6.74	129.85	120.29
1	K	387	VAL	C-N-CA	6.74	129.85	120.29
1	K	450	GLY	O-C-N	-6.74	114.77	122.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	181	VAL	CB-CA-C	-6.74	103.22	112.24
1	N	240	GLU	N-CA-C	6.74	119.72	108.20
1	P	39	LEU	N-CA-CB	6.74	121.87	110.49
1	B	253	GLU	CB-CG-CD	-6.73	101.15	112.60
1	D	363	ASP	N-CA-CB	6.73	120.23	110.20
1	G	494	ILE	CA-CB-CG1	6.73	121.85	110.40
1	N	173	ILE	N-CA-C	6.73	119.47	111.05
1	A	339	HIS	CA-CB-CG	6.73	120.53	113.80
1	B	15	TYR	CB-CG-CD2	6.73	130.90	120.80
1	D	477	ILE	N-CA-CB	6.73	122.34	111.23
1	E	218	ARG	CA-C-O	-6.73	110.88	120.51
1	F	9	PRO	N-CA-C	-6.73	100.63	110.80
1	G	336	GLU	CA-C-N	6.73	130.68	121.05
1	G	336	GLU	C-N-CA	6.73	130.68	121.05
1	H	443	SER	N-CA-C	6.73	122.39	114.04
1	I	468	GLU	N-CA-C	6.73	121.08	110.58
1	N	312	ALA	O-C-N	-6.73	113.50	122.19
1	O	352	GLU	CA-C-N	-6.73	111.76	120.65
1	O	352	GLU	C-N-CA	-6.73	111.76	120.65
1	P	475	GLN	CB-CA-C	-6.73	99.48	110.79
1	A	486	MET	CA-C-N	6.73	134.40	121.54
1	A	486	MET	C-N-CA	6.73	134.40	121.54
1	I	48	LEU	CA-C-O	6.73	129.68	121.87
1	I	224	PRO	CA-C-N	6.73	134.39	121.54
1	I	224	PRO	C-N-CA	6.73	134.39	121.54
1	J	179	SER	CA-CB-OG	6.73	124.56	111.10
1	C	110	LEU	O-C-N	-6.73	115.03	122.03
1	C	288	LYS	N-CA-C	6.73	121.26	109.96
1	D	424	GLU	CA-C-O	-6.73	113.70	120.90
1	G	454	PHE	CB-CG-CD2	-6.73	109.26	120.70
1	J	497	GLU	CG-CD-OE1	6.73	133.87	118.40
1	M	10	GLU	O-C-N	-6.73	113.64	122.59
1	P	158	ILE	CA-CB-CG1	6.73	121.84	110.40
1	H	309	ASP	CA-C-O	-6.73	110.31	119.05
1	L	428	LEU	O-C-N	6.73	130.55	122.68
1	A	494	ILE	CA-CB-CG2	6.72	121.93	110.50
1	E	183	ASP	CA-C-N	6.72	133.00	122.78
1	E	183	ASP	C-N-CA	6.72	133.00	122.78
1	L	65	LEU	N-CA-CB	6.72	120.42	110.33
1	M	14	ARG	O-C-N	-6.72	115.30	123.30
1	M	125	GLN	CG-CD-OE1	6.72	134.25	120.80
1	P	358	VAL	N-CA-CB	6.72	122.32	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	290	SER	N-CA-CB	6.72	121.85	110.49
1	G	209	ILE	O-C-N	-6.72	114.17	122.57
1	H	220	SER	CA-C-N	-6.72	109.83	121.66
1	H	220	SER	C-N-CA	-6.72	109.83	121.66
1	A	59	ASN	CA-C-O	-6.72	113.32	120.71
1	C	333	PHE	CA-CB-CG	6.72	120.52	113.80
1	K	418	ILE	CA-C-N	6.72	126.18	118.85
1	K	418	ILE	C-N-CA	6.72	126.18	118.85
1	M	46	LYS	O-C-N	6.72	131.46	123.33
1	P	489	ARG	N-CA-CB	6.72	119.72	109.98
1	B	322	GLU	CA-C-N	6.72	132.29	122.41
1	B	322	GLU	C-N-CA	6.72	132.29	122.41
1	E	396	TYR	CD1-CG-CD2	-6.72	108.02	118.10
1	H	123	GLY	O-C-N	6.72	131.44	122.70
1	H	181	VAL	CA-C-O	-6.72	112.93	120.32
1	H	439	ALA	N-CA-CB	6.72	121.84	110.49
1	M	164	GLU	CG-CD-OE2	6.72	133.85	118.40
1	P	431	ILE	N-CA-C	6.72	119.45	111.05
1	L	391	MET	CB-CA-C	6.72	123.88	110.17
1	L	453	VAL	N-CA-CB	-6.72	100.50	110.58
1	O	58	THR	O-C-N	-6.72	115.04	123.17
1	A	229	ASP	CA-C-N	6.72	131.66	122.19
1	A	229	ASP	C-N-CA	6.72	131.66	122.19
1	C	54	ASP	CA-CB-CG	6.72	119.32	112.60
1	E	188	VAL	CA-C-O	6.72	127.75	120.43
1	G	81	VAL	O-C-N	-6.72	115.65	122.23
1	I	311	SER	CA-C-O	6.72	128.51	121.06
1	M	37	SER	O-C-N	-6.72	113.06	122.06
1	F	116	HIS	O-C-N	-6.71	113.60	121.32
1	J	441	HIS	CB-CG-CD2	6.71	139.93	131.20
1	M	364	ASP	CA-C-O	-6.71	111.75	119.14
1	O	353	HIS	N-CA-C	6.71	118.29	110.97
1	B	447	LYS	CA-C-O	-6.71	113.75	120.80
1	F	73	PRO	CA-CB-CG	-6.71	91.75	104.50
1	F	204	ASP	CA-CB-CG	6.71	119.31	112.60
1	F	341	LYS	N-CA-CB	6.71	121.83	110.49
1	F	460	ASP	CA-C-O	-6.71	113.56	120.54
1	I	265	GLN	CA-C-O	6.71	127.53	119.61
1	J	277	ALA	N-CA-CB	-6.71	99.46	110.40
1	N	221	ALA	CA-C-O	-6.71	110.91	120.51
1	O	142	VAL	CB-CA-C	6.71	122.30	111.29
1	N	220	SER	CA-C-N	6.71	134.36	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	220	SER	C-N-CA	6.71	134.36	121.54
1	D	172	GLU	N-CA-CB	6.71	120.39	110.33
1	D	228	THR	O-C-N	-6.71	113.67	122.59
1	D	388	GLU	CA-C-O	-6.71	113.31	120.42
1	F	169	LYS	CA-C-O	-6.71	113.79	120.70
1	F	458	VAL	CA-CB-CG2	6.71	121.81	110.40
1	I	376	GLY	O-C-N	-6.71	113.98	122.70
1	I	403	ARG	O-C-N	-6.71	112.42	122.28
1	J	167	LYS	CA-C-O	-6.71	113.38	120.63
1	O	267	GLY	CA-C-O	-6.71	113.05	122.51
1	P	332	ILE	CA-C-O	-6.71	113.20	120.85
1	J	206	THR	CA-C-N	6.71	135.51	122.03
1	J	206	THR	C-N-CA	6.71	135.51	122.03
1	J	290	SER	O-C-N	6.71	129.23	122.12
1	P	242	THR	N-CA-C	6.71	120.76	109.76
1	B	302	ASN	CB-CG-ND2	-6.71	106.34	116.40
1	G	276	LEU	CA-CB-CG	6.71	139.77	116.30
1	H	11	ASN	CB-CA-C	6.71	123.76	110.42
1	K	166	ALA	N-CA-C	-6.71	104.85	113.16
1	B	193	ILE	O-C-N	-6.70	113.87	122.32
1	D	432	GLU	CB-CA-C	6.70	121.28	110.96
1	K	276	LEU	CA-C-N	6.70	133.85	121.52
1	K	276	LEU	C-N-CA	6.70	133.85	121.52
1	M	415	LEU	CA-C-N	6.70	135.35	121.94
1	M	415	LEU	C-N-CA	6.70	135.35	121.94
1	O	436	LYS	CG-CD-CE	6.70	126.72	111.30
1	B	204	ASP	CA-CB-CG	6.70	119.30	112.60
1	J	61	GLY	N-CA-C	6.70	129.06	113.18
1	I	216	LYS	N-CA-CB	6.70	123.12	111.39
1	M	404	GLU	CA-C-N	6.70	130.10	120.79
1	M	404	GLU	C-N-CA	6.70	130.10	120.79
1	O	64	ILE	CB-CA-C	-6.70	105.16	111.06
1	A	49	VAL	O-C-N	-6.70	114.20	122.57
1	B	14	ARG	NH1-CZ-NH2	-6.70	110.59	119.30
1	E	404	GLU	N-CA-CB	6.70	121.71	110.32
1	I	380	SER	N-CA-C	6.70	120.41	111.30
1	A	306	ASN	O-C-N	-6.70	113.48	121.79
1	A	351	THR	CA-CB-CG2	6.70	121.89	110.50
1	C	312	ALA	O-C-N	-6.70	114.62	122.32
1	I	214	VAL	CB-CA-C	-6.70	100.31	111.29
1	L	311	SER	CA-C-N	6.70	130.16	120.38
1	L	311	SER	C-N-CA	6.70	130.16	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	112	ASP	CA-CB-CG	6.70	119.30	112.60
1	C	270	ASP	CA-C-O	6.70	130.09	120.51
1	C	448	CYS	N-CA-C	6.70	122.39	108.53
1	F	358	VAL	N-CA-C	-6.70	104.30	113.00
1	L	383	GLY	CA-C-N	6.70	131.73	120.88
1	L	383	GLY	C-N-CA	6.70	131.73	120.88
1	M	212	VAL	N-CA-C	6.70	117.53	107.75
1	N	31	ILE	CB-CA-C	6.70	122.27	111.29
1	P	11	ASN	OD1-CG-ND2	6.70	129.30	122.60
1	K	439	ALA	CA-C-N	6.69	129.92	120.28
1	K	439	ALA	C-N-CA	6.69	129.92	120.28
1	A	72	HIS	N-CA-C	6.69	124.60	109.81
1	D	279	GLU	CA-C-O	6.69	127.10	119.27
1	I	36	ARG	NH1-CZ-NH2	-6.69	110.60	119.30
1	J	241	GLU	CB-CG-CD	6.69	123.98	112.60
1	L	120	VAL	O-C-N	-6.69	114.20	122.57
1	L	418	ILE	N-CA-CB	6.69	120.58	111.21
1	M	448	CYS	CB-CA-C	6.69	121.40	110.22
1	O	94	THR	N-CA-CB	6.69	121.80	110.49
1	O	432	GLU	N-CA-C	6.69	119.92	111.69
1	O	453	VAL	CA-C-O	-6.69	113.99	120.95
1	B	131	ALA	N-CA-CB	6.69	120.06	110.16
1	B	257	SER	O-C-N	-6.69	114.22	122.11
1	B	265	GLN	OE1-CD-NE2	-6.69	115.91	122.60
1	C	14	ARG	NH1-CZ-NH2	6.69	128.00	119.30
1	G	175	VAL	CA-C-N	6.69	129.91	120.28
1	G	175	VAL	C-N-CA	6.69	129.91	120.28
1	J	367	GLY	CA-C-N	6.69	134.01	121.97
1	J	367	GLY	C-N-CA	6.69	134.01	121.97
1	K	15	TYR	CB-CG-CD2	-6.69	110.76	120.80
1	O	416	GLU	O-C-N	-6.69	113.98	122.34
1	B	242	THR	CB-CA-C	6.69	121.26	110.29
1	F	329	ASP	CA-C-N	6.69	130.92	121.02
1	F	329	ASP	C-N-CA	6.69	130.92	121.02
1	J	409	ARG	CB-CA-C	-6.69	98.26	110.63
1	K	452	ASN	OD1-CG-ND2	-6.69	115.91	122.60
1	L	161	LYS	CA-C-N	6.69	134.52	121.41
1	L	161	LYS	C-N-CA	6.69	134.52	121.41
1	D	26	LEU	O-C-N	6.69	129.80	122.11
1	D	76	LYS	O-C-N	6.69	131.62	122.46
1	G	340	PRO	CA-C-O	-6.69	108.43	120.60
1	M	169	LYS	O-C-N	-6.69	112.86	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	425	ASN	CA-CB-CG	6.69	119.29	112.60
1	F	218	ARG	CB-CA-C	6.69	123.73	110.42
1	H	122	LYS	N-CA-C	-6.69	104.99	113.01
1	K	10	GLU	CG-CD-OE2	-6.69	103.02	118.40
1	K	90	GLY	CA-C-O	-6.69	108.94	120.57
1	M	239	ILE	O-C-N	-6.69	114.21	122.57
1	B	81	VAL	CA-C-O	6.68	125.62	119.20
1	B	303	VAL	CA-C-O	-6.68	113.23	120.85
1	C	167	LYS	CG-CD-CE	6.68	126.68	111.30
1	F	390	SER	O-C-N	6.68	129.23	122.08
1	J	18	ARG	CD-NE-CZ	-6.68	115.04	124.40
1	P	38	THR	O-C-N	-6.68	114.87	122.09
1	A	421	THR	O-C-N	-6.68	115.04	122.12
1	B	70	VAL	CB-CA-C	-6.68	100.33	111.29
1	C	133	GLU	CA-C-N	6.68	129.78	120.29
1	C	133	GLU	C-N-CA	6.68	129.78	120.29
1	C	207	GLU	O-C-N	-6.68	115.08	123.17
1	D	36	ARG	CA-C-O	-6.68	111.96	120.31
1	E	395	GLU	CA-C-O	-6.68	112.55	120.10
1	F	134	LEU	CA-C-O	-6.68	111.45	119.27
1	F	250	MET	O-C-N	-6.68	113.54	122.23
1	G	9	PRO	N-CD-CG	-6.68	93.18	103.20
1	K	39	LEU	CA-C-O	-6.68	113.68	121.16
1	K	242	THR	CA-C-O	6.68	127.66	120.38
1	C	405	GLN	CG-CD-NE2	6.68	126.42	116.40
1	E	218	ARG	CD-NE-CZ	6.68	133.75	124.40
1	G	452	ASN	O-C-N	6.68	131.47	122.59
1	M	442	ALA	CA-C-N	-6.68	111.86	122.08
1	M	442	ALA	C-N-CA	-6.68	111.86	122.08
1	N	286	ARG	CD-NE-CZ	-6.68	115.05	124.40
1	H	459	GLU	CA-C-N	6.68	131.34	122.06
1	H	459	GLU	C-N-CA	6.68	131.34	122.06
1	O	12	MET	N-CA-CB	-6.68	99.43	109.71
1	B	312	ALA	N-CA-C	6.68	121.76	107.67
1	C	411	PHE	O-C-N	-6.68	112.68	122.43
1	C	459	GLU	CA-C-O	-6.68	113.31	121.06
1	D	292	MET	CA-C-O	-6.68	113.75	120.90
1	H	462	CYS	O-C-N	6.68	131.47	122.59
1	L	67	GLU	CB-CA-C	6.68	121.54	110.92
1	M	298	ALA	N-CA-CB	6.68	121.77	110.49
1	A	456	GLY	O-C-N	-6.67	114.02	122.70
1	C	70	VAL	CA-C-O	-6.67	112.44	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	116	HIS	O-C-N	-6.67	113.64	121.32
1	M	19	ASP	CA-C-N	6.67	131.69	120.88
1	M	19	ASP	C-N-CA	6.67	131.69	120.88
1	N	42	LYS	N-CA-C	-6.67	104.71	114.39
1	E	353	HIS	CB-CA-C	6.67	121.44	110.90
1	G	7	VAL	CA-C-O	-6.67	109.46	120.80
1	G	385	THR	CA-CB-CG2	6.67	121.84	110.50
1	I	111	LEU	O-C-N	-6.67	113.72	122.59
1	J	93	THR	CA-C-O	-6.67	113.48	120.55
1	K	203	ILE	CA-CB-CG2	6.67	121.84	110.50
1	P	289	LYS	CA-C-N	6.67	134.29	121.54
1	P	289	LYS	C-N-CA	6.67	134.29	121.54
1	A	161	LYS	O-C-N	-6.67	113.53	122.74
1	D	351	THR	N-CA-CB	6.67	123.30	111.69
1	E	153	ILE	N-CA-C	6.67	120.38	111.17
1	F	25	ILE	N-CA-C	-6.67	103.81	110.62
1	G	374	GLU	CB-CG-CD	6.67	123.94	112.60
1	I	106	LYS	N-CA-CB	-6.67	99.32	110.39
1	M	181	VAL	CA-C-N	-6.67	114.36	122.90
1	M	181	VAL	C-N-CA	-6.67	114.36	122.90
1	M	206	THR	CA-CB-CG2	6.67	121.84	110.50
1	D	231	LYS	CB-CG-CD	6.67	126.64	111.30
1	E	48	LEU	CA-C-N	6.67	133.97	121.97
1	E	48	LEU	C-N-CA	6.67	133.97	121.97
1	G	422	LEU	N-CA-C	-6.67	104.04	111.71
1	N	119	ILE	N-CA-C	-6.67	105.83	111.56
1	O	130	LYS	O-C-N	-6.67	113.72	122.59
1	A	374	GLU	CA-C-N	6.67	133.20	123.13
1	A	374	GLU	C-N-CA	6.67	133.20	123.13
1	B	365	ALA	N-CA-CB	6.67	121.76	110.49
1	M	327	SER	CA-C-O	6.67	128.57	120.57
1	H	372	THR	CA-C-N	6.67	128.96	120.56
1	H	372	THR	C-N-CA	6.67	128.96	120.56
1	P	371	CYS	N-CA-CB	6.67	121.75	110.49
1	P	404	GLU	N-CA-CB	6.67	121.75	110.49
1	A	338	LYS	N-CA-C	6.66	121.63	112.90
1	E	305	THR	O-C-N	-6.66	113.73	122.59
1	K	182	VAL	CA-C-O	-6.66	112.56	120.76
1	L	97	VAL	CA-CB-CG1	6.66	121.73	110.40
1	L	212	VAL	O-C-N	-6.66	116.00	123.20
1	H	216	LYS	O-C-N	-6.66	115.06	122.72
1	I	288	LYS	N-CA-C	6.66	119.32	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	309	ASP	CA-CB-CG	6.66	119.26	112.60
1	B	306	ASN	CA-C-O	-6.66	110.99	120.51
1	C	313	GLN	CB-CG-CD	-6.66	101.28	112.60
1	F	264	CYS	O-C-N	-6.66	115.41	123.27
1	G	425	ASN	CB-CG-OD1	6.66	134.12	120.80
1	H	26	LEU	CB-CA-C	6.66	121.42	110.90
1	H	347	ILE	CB-CA-C	6.66	120.45	111.19
1	H	484	THR	N-CA-C	6.66	119.10	111.11
1	J	387	VAL	O-C-N	6.66	129.65	122.06
1	B	476	ALA	CA-C-N	6.66	129.00	120.88
1	B	476	ALA	C-N-CA	6.66	129.00	120.88
1	F	142	VAL	O-C-N	-6.66	115.95	122.94
1	F	276	LEU	CA-C-N	6.66	129.87	120.28
1	F	276	LEU	C-N-CA	6.66	129.87	120.28
1	I	330	SER	CA-CB-OG	6.66	124.42	111.10
1	N	121	VAL	N-CA-C	-6.66	104.36	110.82
1	N	472	VAL	CA-C-O	-6.66	113.04	120.96
1	B	57	VAL	CB-CA-C	-6.66	102.69	111.81
1	B	178	VAL	CA-C-O	-6.66	112.93	119.92
1	M	479	SER	N-CA-C	6.66	119.37	111.71
1	A	46	LYS	CA-C-N	-6.66	112.98	123.23
1	A	46	LYS	C-N-CA	-6.66	112.98	123.23
1	D	176	GLU	N-CA-CB	6.66	120.04	110.06
1	A	492	ASP	O-C-N	6.65	130.61	123.56
1	B	355	ILE	CB-CA-C	-6.65	100.38	111.29
1	H	11	ASN	N-CA-C	6.65	124.97	110.80
1	H	319	GLY	N-CA-C	6.65	128.95	113.18
1	J	8	LEU	CD1-CG-CD2	6.65	125.44	110.80
1	K	23	MET	CG-SD-CE	6.65	115.54	100.90
1	E	72	HIS	N-CA-C	6.65	119.95	110.24
1	E	202	SER	CA-C-N	6.65	133.94	121.97
1	E	202	SER	C-N-CA	6.65	133.94	121.97
1	F	467	VAL	CG1-CB-CG2	6.65	125.44	110.80
1	H	469	PRO	CA-C-O	-6.65	112.73	122.31
1	I	128	ALA	CA-C-O	-6.65	111.89	119.41
1	I	424	GLU	CA-C-O	-6.65	112.32	119.97
1	J	358	VAL	O-C-N	-6.65	114.25	122.57
1	L	179	SER	CA-CB-OG	6.65	124.41	111.10
1	L	466	VAL	CA-C-O	-6.65	112.46	120.78
1	N	282	VAL	CB-CA-C	6.65	120.81	111.63
1	N	324	ARG	N-CA-C	6.65	119.58	108.20
1	P	416	GLU	N-CA-CB	6.65	119.66	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	443	SER	CB-CA-C	6.65	120.88	109.24
1	C	101	GLY	O-C-N	-6.65	114.05	122.70
1	E	150	LEU	O-C-N	6.65	129.73	122.15
1	I	107	ALA	N-CA-CB	6.65	121.24	110.40
1	K	260	ASN	N-CA-CB	6.65	120.81	110.44
1	L	189	ASP	N-CA-CB	6.65	120.10	110.06
1	L	244	SER	O-C-N	-6.65	113.74	122.59
1	B	41	PRO	CA-C-N	6.65	132.61	122.37
1	B	41	PRO	C-N-CA	6.65	132.61	122.37
1	C	324	ARG	CA-C-N	6.65	130.19	120.82
1	C	324	ARG	C-N-CA	6.65	130.19	120.82
1	F	306	ASN	O-C-N	-6.65	114.05	122.43
1	K	146	ASP	CB-CA-C	-6.65	99.87	109.84
1	M	172	GLU	CA-C-O	-6.65	113.91	120.89
1	C	44	MET	CA-C-N	-6.65	110.87	122.64
1	C	44	MET	C-N-CA	-6.65	110.87	122.64
1	J	57	VAL	CA-CB-CG2	6.65	121.70	110.40
1	J	484	THR	CA-C-O	-6.65	111.86	118.97
1	K	317	ASP	CA-CB-CG	6.65	119.25	112.60
1	M	306	ASN	O-C-N	-6.65	113.75	122.59
1	N	453	VAL	CA-C-O	-6.65	113.29	120.47
1	C	317	ASP	OD1-CG-OD2	-6.65	106.95	122.90
1	G	221	ALA	CA-C-N	6.65	134.23	121.54
1	G	221	ALA	C-N-CA	6.65	134.23	121.54
1	J	88	GLU	CB-CG-CD	6.65	123.90	112.60
1	J	474	THR	O-C-N	6.65	129.27	122.09
1	K	100	ALA	O-C-N	-6.65	114.91	122.09
1	K	413	ASP	O-C-N	-6.65	113.75	122.39
1	M	302	ASN	N-CA-C	6.65	119.53	108.96
1	D	219	VAL	CA-CB-CG1	6.64	121.70	110.40
1	E	237	CYS	CA-C-N	6.64	134.23	121.54
1	E	237	CYS	C-N-CA	6.64	134.23	121.54
1	F	244	SER	CB-CA-C	6.64	123.64	110.42
1	H	216	LYS	CA-C-O	-6.64	114.07	121.05
1	I	464	ASN	CB-CG-ND2	-6.64	106.43	116.40
1	L	303	VAL	CA-CB-CG2	6.64	121.70	110.40
1	O	431	ILE	N-CA-C	6.64	123.16	109.34
1	P	157	SER	N-CA-C	6.64	119.13	111.02
1	B	285	ARG	NE-CZ-NH1	6.64	128.14	121.50
1	E	111	LEU	CD1-CG-CD2	-6.64	96.19	110.80
1	F	87	LYS	O-C-N	-6.64	113.69	122.33
1	F	153	ILE	N-CA-C	6.64	119.41	112.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	13	LYS	CG-CD-CE	6.64	126.58	111.30
1	G	113	GLN	CA-C-N	6.64	134.23	121.54
1	G	113	GLN	C-N-CA	6.64	134.23	121.54
1	H	184	ASP	CB-CG-OD2	6.64	133.68	118.40
1	K	148	GLU	N-CA-CB	6.64	119.61	109.98
1	M	405	GLN	O-C-N	6.64	129.19	122.08
1	O	433	ILE	O-C-N	-6.64	115.10	121.94
1	A	112	ASP	N-CA-C	6.64	121.60	112.04
1	M	43	GLY	O-C-N	-6.64	114.07	122.70
1	C	431	ILE	N-CA-C	6.64	121.45	111.89
1	L	274	HIS	CA-CB-CG	-6.64	107.16	113.80
1	M	365	ALA	N-CA-C	6.64	119.08	111.11
1	P	153	ILE	CA-C-N	6.64	130.02	120.79
1	P	153	ILE	C-N-CA	6.64	130.02	120.79
1	P	297	LYS	CA-C-N	6.64	134.22	121.54
1	P	297	LYS	C-N-CA	6.64	134.22	121.54
1	B	120	VAL	CA-C-O	-6.64	112.48	120.78
1	C	346	LEU	N-CA-C	-6.64	100.46	110.28
1	E	346	LEU	CB-CA-C	6.64	120.73	109.72
1	F	190	LYS	CB-CG-CD	6.64	126.56	111.30
1	F	348	ARG	CD-NE-CZ	-6.64	115.11	124.40
1	I	14	ARG	CB-CG-CD	6.64	126.56	111.30
1	I	369	VAL	N-CA-CB	6.64	120.08	110.52
1	J	229	ASP	N-CA-CB	6.64	120.00	109.51
1	N	60	ASP	CB-CG-OD1	6.64	133.66	118.40
1	O	393	LEU	CB-CA-C	6.64	122.46	109.72
1	O	416	GLU	CG-CD-OE1	-6.64	103.14	118.40
1	F	189	ASP	CA-C-N	6.63	134.21	121.54
1	F	189	ASP	C-N-CA	6.63	134.21	121.54
1	H	88	GLU	CA-C-O	-6.63	111.02	120.51
1	J	308	LYS	O-C-N	6.63	130.63	122.34
1	K	435	VAL	O-C-N	6.63	128.66	121.83
1	O	418	ILE	O-C-N	-6.63	113.54	121.10
1	A	183	ASP	CB-CG-OD1	6.63	133.66	118.40
1	P	269	ASP	CA-CB-CG	-6.63	105.97	112.60
1	B	261	VAL	N-CA-CB	6.63	122.32	111.58
1	E	11	ASN	CA-C-N	6.63	134.21	121.54
1	E	11	ASN	C-N-CA	6.63	134.21	121.54
1	F	185	GLU	CG-CD-OE1	6.63	133.65	118.40
1	G	213	LEU	CB-CG-CD1	6.63	130.59	110.70
1	H	87	LYS	CA-C-O	-6.63	111.03	120.51
1	J	85	GLN	CA-C-N	6.63	134.21	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	85	GLN	C-N-CA	6.63	134.21	121.54
1	L	317	ASP	CA-CB-CG	6.63	119.23	112.60
1	N	467	VAL	CA-C-O	-6.63	112.49	120.78
1	B	268	ILE	CA-C-O	-6.63	113.47	120.76
1	D	19	ASP	CA-C-O	-6.63	113.86	120.82
1	N	496	ALA	N-CA-CB	6.63	121.69	110.49
1	K	349	GLY	CA-C-O	-6.63	115.13	121.49
1	K	467	VAL	CA-C-O	6.63	130.07	121.32
1	A	159	THR	CA-CB-CG2	6.63	121.76	110.50
1	B	297	LYS	N-CA-C	6.63	121.53	113.38
1	D	55	VAL	CG1-CB-CG2	-6.63	96.22	110.80
1	D	70	VAL	N-CA-C	6.63	118.32	109.37
1	D	396	TYR	O-C-N	-6.63	113.31	122.46
1	E	343	VAL	CA-C-O	-6.63	113.15	120.84
1	F	347	ILE	N-CA-CB	6.63	120.83	111.82
1	G	82	ALA	O-C-N	-6.63	113.45	122.33
1	I	15	TYR	CB-CG-CD1	6.63	130.74	120.80
1	K	124	TYR	N-CA-C	6.63	121.11	112.89
1	O	121	VAL	CB-CA-C	-6.63	103.36	112.24
1	P	216	LYS	CB-CG-CD	6.63	126.54	111.30
1	P	369	VAL	N-CA-CB	6.63	119.05	110.57
1	C	49	VAL	CA-C-O	6.62	128.01	121.19
1	D	67	GLU	CG-CD-OE1	-6.62	103.16	118.40
1	D	479	SER	N-CA-CB	6.62	121.69	110.49
1	G	142	VAL	CA-CB-CG1	-6.62	99.14	110.40
1	L	116	HIS	CA-C-N	-6.62	111.56	119.84
1	L	116	HIS	C-N-CA	-6.62	111.56	119.84
1	L	158	ILE	N-CA-C	6.62	123.12	109.34
1	L	358	VAL	CA-CB-CG1	6.62	121.66	110.40
1	O	274	HIS	CE1-NE2-CD2	6.62	115.62	109.00
1	C	215	ASP	N-CA-C	6.62	121.37	113.16
1	D	36	ARG	CD-NE-CZ	-6.62	115.13	124.40
1	K	411	PHE	CZ-CE2-CD2	6.62	131.92	120.00
1	L	147	LYS	N-CA-CB	6.62	120.47	110.14
1	L	191	ASP	N-CA-C	6.62	119.33	111.71
1	P	247	LEU	N-CA-CB	6.62	120.42	110.22
1	D	200	GLY	CA-C-N	6.62	134.19	121.54
1	D	200	GLY	C-N-CA	6.62	134.19	121.54
1	I	348	ARG	CB-CG-CD	6.62	126.53	111.30
1	K	19	ASP	O-C-N	6.62	129.14	122.12
1	M	493	VAL	CA-CB-CG1	6.62	121.66	110.40
1	N	51	ASP	CA-CB-CG	6.62	119.22	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	63	THR	CA-CB-CG2	6.62	121.75	110.50
1	I	153	ILE	N-CA-CB	6.62	120.93	110.54
1	I	309	ASP	N-CA-CB	6.62	121.19	110.40
1	I	441	HIS	CB-CG-CD2	-6.62	122.59	131.20
1	M	222	GLN	N-CA-CB	6.62	119.80	109.94
1	A	221	ALA	N-CA-CB	-6.62	100.11	110.30
1	A	455	THR	OG1-CB-CG2	6.62	122.54	109.30
1	D	147	LYS	N-CA-C	6.62	121.44	113.23
1	F	13	LYS	CB-CA-C	-6.62	98.27	109.72
1	G	69	SER	N-CA-CB	6.62	121.67	110.49
1	G	170	LEU	N-CA-C	6.62	118.50	111.28
1	I	289	LYS	CA-C-O	-6.62	111.05	120.51
1	L	24	ASN	O-C-N	-6.62	114.88	122.03
1	L	48	LEU	N-CA-C	6.62	119.27	110.53
1	O	343	VAL	N-CA-CB	-6.62	100.31	111.23
1	P	44	MET	CA-C-O	-6.62	113.58	121.66
1	K	179	SER	CA-C-N	6.62	131.76	120.71
1	K	179	SER	C-N-CA	6.62	131.76	120.71
1	A	390	SER	N-CA-C	-6.62	103.69	111.03
1	E	233	ALA	CA-C-O	-6.62	113.22	120.36
1	F	10	GLU	CA-C-N	6.62	134.18	121.54
1	F	10	GLU	C-N-CA	6.62	134.18	121.54
1	G	278	LYS	CB-CA-C	6.62	121.77	110.79
1	I	484	THR	OG1-CB-CG2	-6.62	96.07	109.30
1	J	438	ARG	N-CA-CB	6.62	119.60	110.01
1	K	384	SER	CB-CA-C	6.62	123.58	110.42
1	M	350	THR	CA-C-N	6.62	134.87	123.03
1	M	350	THR	C-N-CA	6.62	134.87	123.03
1	A	44	MET	CA-C-O	-6.61	111.05	120.51
1	E	59	ASN	N-CA-CB	6.61	121.44	110.33
1	F	288	LYS	CB-CA-C	6.61	120.70	109.72
1	H	181	VAL	O-C-N	6.61	132.61	122.16
1	H	441	HIS	CG-CD2-NE2	6.61	113.81	107.20
1	M	122	LYS	N-CA-CB	6.61	122.06	110.42
1	M	326	ILE	O-C-N	-6.61	115.69	122.30
1	M	428	LEU	CD1-CG-CD2	6.61	125.35	110.80
1	O	304	ILE	CA-C-O	-6.61	112.51	120.78
1	G	158	ILE	N-CA-C	6.61	123.09	109.34
1	E	206	THR	O-C-N	-6.61	115.53	123.13
1	F	363	ASP	CA-CB-CG	6.61	119.21	112.60
1	F	460	ASP	O-C-N	6.61	130.92	123.05
1	H	88	GLU	CA-C-N	6.61	133.87	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	88	GLU	C-N-CA	6.61	133.87	121.97
1	P	115	VAL	CB-CA-C	6.61	118.37	111.23
1	A	360	ARG	N-CA-C	-6.61	105.35	113.41
1	B	34	THR	CB-CA-C	-6.61	100.41	110.92
1	D	313	GLN	OE1-CD-NE2	6.61	129.21	122.60
1	F	224	PRO	CA-N-CD	-6.61	102.75	112.00
1	L	174	ILE	N-CA-CB	6.61	120.04	110.52
1	M	129	GLN	O-C-N	-6.61	113.80	122.59
1	D	302	ASN	O-C-N	-6.61	115.54	123.27
1	G	106	LYS	N-CA-CB	-6.61	100.41	110.12
1	G	406	LEU	CA-C-N	6.61	134.16	121.54
1	G	406	LEU	C-N-CA	6.61	134.16	121.54
1	J	129	GLN	CA-C-N	6.61	129.67	120.29
1	J	129	GLN	C-N-CA	6.61	129.67	120.29
1	N	103	LEU	O-C-N	6.61	131.22	122.43
1	O	242	THR	N-CA-C	6.61	119.62	107.99
1	A	98	VAL	CB-CA-C	-6.61	103.25	111.70
1	B	330	SER	N-CA-C	6.61	120.06	110.28
1	E	441	HIS	CA-CB-CG	6.61	120.41	113.80
1	F	186	GLY	CA-C-O	-6.61	109.08	120.57
1	H	274	HIS	CE1-NE2-CD2	-6.61	102.39	109.00
1	L	113	GLN	OE1-CD-NE2	6.61	129.21	122.60
1	N	439	ALA	CB-CA-C	6.61	123.86	110.38
1	P	187	LYS	CB-CG-CD	6.61	126.49	111.30
1	B	195	ILE	CA-CB-CG2	-6.60	99.27	110.50
1	F	293	GLU	CA-C-O	-6.60	113.89	120.82
1	H	295	LEU	N-CA-CB	6.60	121.65	110.49
1	M	496	ALA	CA-C-N	6.60	133.59	121.70
1	M	496	ALA	C-N-CA	6.60	133.59	121.70
1	C	286	ARG	NE-CZ-NH2	6.60	125.14	119.20
1	E	218	ARG	CA-C-N	6.60	133.85	121.97
1	E	218	ARG	C-N-CA	6.60	133.85	121.97
1	M	187	LYS	CA-C-N	6.60	133.85	121.97
1	M	187	LYS	C-N-CA	6.60	133.85	121.97
1	A	340	PRO	N-CD-CG	6.60	113.10	103.20
1	B	139	ALA	CB-CA-C	6.60	123.56	110.42
1	H	285	ARG	NE-CZ-NH2	-6.60	113.26	119.20
1	L	489	ARG	NE-CZ-NH1	6.60	128.10	121.50
1	C	415	LEU	CA-C-N	6.60	134.10	122.42
1	C	415	LEU	C-N-CA	6.60	134.10	122.42
1	E	420	ARG	CA-C-O	-6.60	111.07	120.51
1	G	210	LYS	N-CA-C	6.60	124.86	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	231	LYS	CB-CG-CD	6.60	126.48	111.30
1	K	388	GLU	OE1-CD-OE2	-6.60	107.06	122.90
1	M	30	ILE	O-C-N	-6.60	114.32	122.57
1	M	461	MET	N-CA-C	-6.60	104.17	111.36
1	N	238	ALA	CA-C-N	6.60	133.85	121.97
1	N	238	ALA	C-N-CA	6.60	133.85	121.97
1	O	336	GLU	CB-CA-C	6.60	121.44	111.80
1	O	429	ASP	CB-CA-C	6.60	123.55	110.42
1	P	14	ARG	NE-CZ-NH2	6.60	125.14	119.20
1	P	339	HIS	CA-C-O	-6.60	113.56	121.22
1	A	72	HIS	CE1-NE2-CD2	6.60	115.60	109.00
1	A	156	THR	CA-CB-CG2	6.60	121.72	110.50
1	D	65	LEU	N-CA-CB	6.60	120.46	110.30
1	E	394	ARG	NE-CZ-NH1	-6.60	114.90	121.50
1	H	276	LEU	CA-C-N	6.60	131.90	120.68
1	H	276	LEU	C-N-CA	6.60	131.90	120.68
1	L	363	ASP	O-C-N	-6.60	115.13	122.12
1	G	269	ASP	O-C-N	-6.60	114.60	122.65
1	A	287	VAL	O-C-N	6.59	129.80	122.61
1	A	350	THR	CA-CB-OG1	6.59	119.49	109.60
1	B	293	GLU	OE1-CD-OE2	6.59	138.73	122.90
1	E	18	ARG	CA-C-O	6.59	129.94	120.51
1	E	299	THR	O-C-N	-6.59	114.97	122.09
1	G	312	ALA	CA-C-O	6.59	127.59	120.20
1	G	349	GLY	O-C-N	6.59	134.80	123.39
1	K	247	LEU	N-CA-CB	6.59	120.09	110.26
1	N	455	THR	O-C-N	6.59	131.50	122.46
1	P	273	GLN	N-CA-C	6.59	124.85	110.80
1	A	396	TYR	CD1-CG-CD2	6.59	127.99	118.10
1	I	11	ASN	CA-C-N	-6.59	114.27	122.84
1	I	11	ASN	C-N-CA	-6.59	114.27	122.84
1	I	218	ARG	CA-C-N	6.59	133.84	121.97
1	I	218	ARG	C-N-CA	6.59	133.84	121.97
1	J	297	LYS	CA-C-O	6.59	127.56	120.24
1	M	205	ASP	CB-CG-OD1	6.59	133.56	118.40
1	N	36	ARG	NE-CZ-NH1	-6.59	114.91	121.50
1	P	452	ASN	CA-C-O	6.59	128.23	120.58
1	A	418	ILE	N-CA-CB	6.59	120.44	111.21
1	D	129	GLN	CA-CB-CG	6.59	127.28	114.10
1	D	192	LEU	CA-C-O	-6.59	111.33	119.18
1	F	177	ALA	N-CA-CB	6.59	120.50	110.42
1	H	32	ALA	CA-C-N	-6.59	110.06	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	32	ALA	C-N-CA	-6.59	110.06	120.60
1	L	405	GLN	CB-CG-CD	6.59	123.81	112.60
1	N	356	GLU	CA-CB-CG	6.59	127.28	114.10
1	O	254	ILE	CB-CG1-CD1	6.59	127.64	113.80
1	A	117	PRO	CA-C-N	6.59	134.12	121.54
1	A	117	PRO	C-N-CA	6.59	134.12	121.54
1	A	482	GLU	O-C-N	-6.59	113.43	122.46
1	B	428	LEU	O-C-N	6.59	131.25	122.82
1	E	88	GLU	CB-CG-CD	6.59	123.80	112.60
1	F	468	GLU	N-CA-C	6.59	120.86	110.58
1	I	464	ASN	CA-CB-CG	-6.59	106.01	112.60
1	K	221	ALA	O-C-N	6.59	131.26	122.43
1	L	448	CYS	CB-CA-C	6.59	121.53	111.85
1	P	10	GLU	CA-C-N	6.59	134.12	121.54
1	P	10	GLU	C-N-CA	6.59	134.12	121.54
1	P	299	THR	N-CA-CB	6.59	121.63	110.49
1	I	117	PRO	O-C-N	-6.59	113.75	122.64
1	L	73	PRO	CA-C-O	-6.59	109.76	119.18
1	L	351	THR	N-CA-CB	6.59	120.76	109.10
1	E	244	SER	O-C-N	6.59	131.35	122.59
1	I	360	ARG	N-CA-CB	6.59	120.08	110.26
1	J	429	ASP	N-CA-CB	6.59	120.16	110.35
1	M	289	LYS	CA-CB-CG	6.59	127.27	114.10
1	I	388	GLU	CA-CB-CG	6.58	127.27	114.10
1	O	161	LYS	CB-CA-C	6.58	123.34	110.30
1	B	210	LYS	N-CA-CB	6.58	121.61	110.49
1	F	7	VAL	CA-C-N	6.58	134.13	122.48
1	F	7	VAL	C-N-CA	6.58	134.13	122.48
1	K	234	LEU	N-CA-C	6.58	119.32	109.25
1	N	314	ASP	CA-CB-CG	6.58	119.18	112.60
1	P	74	ALA	CA-C-O	6.58	127.71	120.80
1	B	463	GLU	N-CA-CB	6.58	120.48	110.28
1	C	458	VAL	CA-C-N	-6.58	111.43	122.29
1	C	458	VAL	C-N-CA	-6.58	111.43	122.29
1	D	29	ARG	N-CA-CB	-6.58	98.33	110.18
1	F	433	ILE	CB-CA-C	-6.58	103.40	112.02
1	H	249	ASP	CA-C-O	6.58	127.47	119.38
1	P	380	SER	O-C-N	-6.58	113.84	122.59
1	C	487	LEU	O-C-N	-6.58	113.61	122.43
1	G	477	ILE	N-CA-CB	6.58	118.08	110.65
1	J	374	GLU	OE1-CD-OE2	-6.58	107.11	122.90
1	A	18	ARG	CG-CD-NE	-6.58	97.53	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	323	GLU	CG-CD-OE2	-6.58	103.27	118.40
1	C	405	GLN	CB-CG-CD	6.58	123.78	112.60
1	E	142	VAL	O-C-N	6.58	129.51	123.19
1	G	239	ILE	CA-C-N	6.58	131.26	121.72
1	G	239	ILE	C-N-CA	6.58	131.26	121.72
1	I	33	GLU	O-C-N	6.58	131.34	122.59
1	J	7	VAL	CA-CB-CG1	-6.58	99.22	110.40
1	J	70	VAL	N-CA-CB	-6.58	103.50	111.00
1	J	238	ALA	O-C-N	6.58	131.34	122.59
1	J	275	TYR	CG-CD2-CE2	-6.58	111.33	121.20
1	M	217	GLU	N-CA-C	-6.58	102.04	110.53
1	O	204	ASP	N-CA-C	6.58	122.20	114.04
1	P	93	THR	N-CA-C	-6.58	104.03	111.14
1	P	471	ARG	N-CA-CB	6.58	121.61	110.49
1	A	185	GLU	CG-CD-OE1	-6.58	103.27	118.40
1	E	490	ILE	O-C-N	6.58	130.79	122.57
1	G	435	VAL	N-CA-C	6.58	119.27	111.05
1	J	377	ARG	N-CA-CB	-6.58	99.79	110.71
1	L	159	THR	CA-CB-OG1	6.58	119.47	109.60
1	D	318	ALA	CB-CA-C	-6.58	103.28	111.43
1	E	276	LEU	N-CA-CB	6.58	120.53	110.14
1	G	245	GLU	N-CA-C	6.58	124.81	110.80
1	H	77	MET	N-CA-C	6.58	124.81	110.80
1	I	149	ILE	CA-C-N	6.58	129.75	120.28
1	I	149	ILE	C-N-CA	6.58	129.75	120.28
1	M	82	ALA	N-CA-CB	6.58	120.00	110.20
1	M	188	VAL	CA-CB-CG2	6.58	121.58	110.40
1	N	337	CYS	CB-CA-C	6.58	120.89	109.65
1	O	425	ASN	CB-CG-OD1	6.58	133.95	120.80
1	E	229	ASP	OD1-CG-OD2	-6.57	107.12	122.90
1	F	146	ASP	CA-C-O	-6.57	113.96	121.19
1	H	48	LEU	CD1-CG-CD2	6.57	125.26	110.80
1	H	92	GLY	N-CA-C	6.57	126.12	115.67
1	I	340	PRO	N-CD-CG	6.57	113.06	103.20
1	J	497	GLU	CB-CG-CD	6.57	123.78	112.60
1	N	82	ALA	N-CA-CB	6.57	120.31	110.65
1	O	113	GLN	CA-C-N	6.57	134.10	121.54
1	O	113	GLN	C-N-CA	6.57	134.10	121.54
1	C	281	ILE	CB-CA-C	-6.57	102.61	111.15
1	D	124	TYR	CD1-CG-CD2	-6.57	108.24	118.10
1	F	163	ALA	O-C-N	6.57	129.07	122.30
1	H	212	VAL	O-C-N	-6.57	115.97	123.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	113	GLN	CA-C-N	6.57	134.09	121.54
1	J	113	GLN	C-N-CA	6.57	134.09	121.54
1	P	394	ARG	O-C-N	-6.57	113.69	122.23
1	A	148	GLU	CG-CD-OE2	6.57	133.51	118.40
1	E	181	VAL	CG1-CB-CG2	6.57	125.25	110.80
1	G	233	ALA	CA-C-O	-6.57	113.10	120.66
1	G	250	MET	N-CA-C	6.57	118.10	111.07
1	L	100	ALA	CA-C-O	6.57	127.54	119.79
1	C	62	VAL	N-CA-CB	6.57	122.07	111.23
1	D	274	HIS	CG-ND1-CE1	-6.57	98.13	109.30
1	H	117	PRO	N-CA-CB	-6.57	96.35	103.25
1	I	270	ASP	N-CA-C	6.57	124.79	110.80
1	A	278	LYS	CA-C-N	6.57	133.85	122.09
1	A	278	LYS	C-N-CA	6.57	133.85	122.09
1	A	291	ASP	CA-CB-CG	6.57	119.17	112.60
1	D	172	GLU	CB-CG-CD	-6.57	101.44	112.60
1	E	390	SER	CA-C-O	6.57	129.90	120.51
1	F	289	LYS	CG-CD-CE	6.57	126.41	111.30
1	J	395	GLU	N-CA-CB	6.57	121.59	110.49
1	K	77	MET	CA-C-O	6.57	127.72	119.12
1	K	254	ILE	N-CA-C	6.57	117.32	110.62
1	N	181	VAL	CA-C-O	6.57	128.99	120.78
1	N	272	ALA	CA-C-N	6.57	129.38	120.38
1	N	272	ALA	C-N-CA	6.57	129.38	120.38
1	O	296	ALA	N-CA-CB	6.57	121.59	110.49
1	A	41	PRO	CA-C-N	6.57	133.62	122.26
1	A	41	PRO	C-N-CA	6.57	133.62	122.26
1	E	222	GLN	CA-C-O	-6.57	111.12	120.51
1	F	485	GLU	N-CA-C	6.57	121.14	113.20
1	G	245	GLU	CG-CD-OE2	6.57	133.50	118.40
1	I	85	GLN	CA-C-O	-6.57	112.42	119.97
1	J	115	VAL	CA-CB-CG2	6.57	121.56	110.40
1	J	277	ALA	O-C-N	-6.57	113.40	122.46
1	L	61	GLY	O-C-N	-6.57	114.17	122.70
1	N	342	ALA	N-CA-C	-6.57	99.77	109.81
1	O	187	LYS	N-CA-CB	6.57	121.59	110.49
1	A	291	ASP	N-CA-CB	6.56	121.44	110.41
1	E	426	ALA	CA-C-O	-6.56	110.52	119.05
1	F	225	LYS	N-CA-C	-6.56	101.56	110.68
1	H	287	VAL	CA-CB-CG2	6.56	121.56	110.40
1	K	307	ILE	CA-CB-CG1	6.56	121.56	110.40
1	M	85	GLN	OE1-CD-NE2	6.56	129.16	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	438	ARG	CB-CA-C	-6.56	100.85	110.96
1	C	27	ALA	N-CA-CB	-6.56	101.00	110.65
1	F	368	VAL	CB-CA-C	6.56	122.89	112.26
1	O	132	GLN	N-CA-C	-6.56	104.05	111.14
1	A	18	ARG	NE-CZ-NH2	6.56	125.11	119.20
1	O	83	LYS	CA-C-N	6.56	129.07	120.28
1	O	83	LYS	C-N-CA	6.56	129.07	120.28
1	B	186	GLY	O-C-N	-6.56	114.17	122.70
1	F	435	VAL	CA-CB-CG1	6.56	121.55	110.40
1	H	302	ASN	N-CA-CB	6.56	120.87	110.57
1	J	497	GLU	N-CA-C	6.56	129.37	111.00
1	K	123	GLY	CA-C-N	6.56	132.62	121.14
1	K	123	GLY	C-N-CA	6.56	132.62	121.14
1	A	7	VAL	CG1-CB-CG2	-6.56	96.38	110.80
1	C	464	ASN	CA-C-N	6.56	132.44	122.86
1	C	464	ASN	C-N-CA	6.56	132.44	122.86
1	D	22	ARG	NE-CZ-NH2	-6.56	113.30	119.20
1	G	255	LYS	N-CA-C	6.56	120.38	112.38
1	H	100	ALA	N-CA-C	-6.56	102.60	112.04
1	I	117	PRO	CA-C-O	6.56	132.53	120.60
1	I	371	CYS	CA-C-N	6.56	134.06	121.54
1	I	371	CYS	C-N-CA	6.56	134.06	121.54
1	J	181	VAL	N-CA-C	6.56	121.60	112.35
1	K	168	GLU	N-CA-CB	6.56	119.76	110.12
1	L	137	THR	CA-CB-CG2	6.56	121.65	110.50
1	N	165	LYS	CB-CA-C	6.56	121.81	110.79
1	N	190	LYS	N-CA-C	6.56	118.22	111.14
1	O	119	ILE	CA-C-O	-6.56	113.81	120.69
1	I	11	ASN	O-C-N	-6.56	113.87	122.59
1	L	185	GLU	N-CA-C	6.56	124.76	110.80
1	N	457	ALA	CA-C-O	-6.56	114.20	120.56
1	P	84	THR	CB-CA-C	-6.56	96.90	109.95
1	A	151	THR	O-C-N	-6.55	115.17	122.12
1	B	432	GLU	O-C-N	-6.55	113.55	122.33
1	D	151	THR	N-CA-CB	6.55	120.50	110.14
1	F	156	THR	N-CA-C	6.55	120.14	111.75
1	G	373	ILE	CA-C-N	6.55	133.26	121.92
1	G	373	ILE	C-N-CA	6.55	133.26	121.92
1	L	198	LYS	N-CA-CB	-6.55	100.29	111.69
1	L	247	LEU	CA-C-N	6.55	128.96	120.44
1	L	247	LEU	C-N-CA	6.55	128.96	120.44
1	L	328	GLY	CA-C-N	6.55	131.43	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	328	GLY	C-N-CA	6.55	131.43	122.19
1	N	493	VAL	CA-C-N	6.55	132.28	123.10
1	N	493	VAL	C-N-CA	6.55	132.28	123.10
1	O	216	LYS	CB-CA-C	6.55	120.49	109.48
1	P	436	LYS	CA-C-O	6.55	127.56	120.55
1	I	174	ILE	N-CA-CB	6.55	118.96	110.57
1	N	441	HIS	CA-C-O	6.55	126.35	119.14
1	P	63	THR	CA-C-O	-6.55	112.86	120.20
1	A	20	ALA	CA-C-O	-6.55	114.12	121.00
1	E	419	PRO	N-CA-CB	6.55	110.64	103.30
1	M	305	THR	O-C-N	-6.55	113.88	122.59
1	P	492	ASP	N-CA-C	-6.55	98.71	108.99
1	A	305	THR	O-C-N	-6.55	113.88	122.59
1	B	168	GLU	CG-CD-OE1	6.55	133.46	118.40
1	D	109	GLU	CB-CG-CD	-6.55	101.47	112.60
1	E	48	LEU	CD1-CG-CD2	6.55	125.21	110.80
1	H	150	LEU	N-CA-C	-6.55	104.32	112.90
1	I	71	GLU	CA-C-N	6.55	130.72	121.61
1	I	71	GLU	C-N-CA	6.55	130.72	121.61
1	D	31	ILE	CA-C-O	-6.55	112.59	120.78
1	H	360	ARG	CA-C-O	-6.55	112.97	120.24
1	I	270	ASP	N-CA-CB	6.55	121.56	110.49
1	O	231	LYS	CA-C-N	6.55	129.45	120.35
1	O	231	LYS	C-N-CA	6.55	129.45	120.35
1	F	245	GLU	CB-CG-CD	6.55	123.73	112.60
1	H	214	VAL	O-C-N	-6.55	114.39	122.57
1	H	225	LYS	CA-CB-CG	6.55	127.19	114.10
1	L	459	GLU	CA-C-N	6.55	134.04	121.54
1	L	459	GLU	C-N-CA	6.55	134.04	121.54
1	P	113	GLN	CB-CG-CD	-6.55	101.47	112.60
1	P	403	ARG	NH1-CZ-NH2	6.55	127.81	119.30
1	P	444	ASN	CB-CG-ND2	-6.55	106.58	116.40
1	A	470	LEU	CA-C-O	6.54	126.97	119.18
1	E	179	SER	CA-C-N	-6.54	111.38	122.11
1	E	179	SER	C-N-CA	-6.54	111.38	122.11
1	E	398	GLU	N-CA-C	-6.54	105.68	113.21
1	I	34	THR	CA-CB-OG1	6.54	119.42	109.60
1	N	330	SER	N-CA-CB	6.54	120.09	109.95
1	O	379	VAL	O-C-N	6.54	129.97	122.97
1	P	79	ILE	CA-CB-CG2	6.54	121.63	110.50
1	P	86	GLU	OE1-CD-OE2	-6.54	107.19	122.90
1	G	276	LEU	CB-CA-C	6.54	123.23	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	173	ILE	O-C-N	6.54	130.62	122.05
1	I	56	VAL	CG1-CB-CG2	-6.54	96.40	110.80
1	L	292	MET	CA-C-N	6.54	134.04	121.54
1	L	292	MET	C-N-CA	6.54	134.04	121.54
1	O	294	LYS	O-C-N	6.54	129.08	122.08
1	C	221	ALA	N-CA-CB	-6.54	100.51	110.26
1	D	412	ALA	O-C-N	-6.54	112.66	122.28
1	E	94	THR	N-CA-CB	6.54	121.55	110.49
1	F	18	ARG	CA-C-N	6.54	129.70	120.28
1	F	18	ARG	C-N-CA	6.54	129.70	120.28
1	H	313	GLN	CB-CG-CD	6.54	123.72	112.60
1	J	96	ALA	N-CA-CB	-6.54	100.50	110.12
1	J	165	LYS	CA-C-O	6.54	127.50	120.24
1	J	254	ILE	N-CA-C	6.54	122.94	109.34
1	L	177	ALA	O-C-N	-6.54	113.72	122.23
1	M	368	VAL	CA-C-N	6.54	131.37	120.64
1	M	368	VAL	C-N-CA	6.54	131.37	120.64
1	K	438	ARG	NH1-CZ-NH2	-6.54	110.80	119.30
1	A	284	ALA	CA-C-O	-6.54	111.43	120.52
1	A	489	ARG	CA-C-O	-6.54	111.16	120.51
1	H	261	VAL	N-CA-C	-6.54	99.31	108.27
1	J	340	PRO	O-C-N	-6.54	113.81	122.64
1	L	191	ASP	CA-CB-CG	6.54	119.14	112.60
1	N	271	LEU	N-CA-C	6.54	120.52	112.54
1	B	463	GLU	CA-C-O	6.54	127.49	119.97
1	F	158	ILE	N-CA-C	6.54	122.94	109.34
1	I	164	GLU	OE1-CD-OE2	-6.54	107.21	122.90
1	J	271	LEU	N-CA-CB	6.54	120.44	109.78
1	K	444	ASN	CB-CG-ND2	-6.54	106.59	116.40
1	M	134	LEU	CB-CA-C	6.54	122.66	110.70
1	A	297	LYS	N-CA-CB	6.54	119.80	110.13
1	B	168	GLU	CB-CG-CD	6.54	123.71	112.60
1	B	206	THR	CA-C-N	6.54	133.79	122.81
1	B	206	THR	C-N-CA	6.54	133.79	122.81
1	C	113	GLN	CA-C-N	6.54	134.02	121.54
1	C	113	GLN	C-N-CA	6.54	134.02	121.54
1	C	240	GLU	CA-CB-CG	6.54	127.17	114.10
1	D	52	LEU	CD1-CG-CD2	-6.54	96.42	110.80
1	E	334	VAL	N-CA-CB	6.54	122.01	111.23
1	F	36	ARG	CG-CD-NE	-6.54	97.62	112.00
1	F	39	LEU	CB-CG-CD2	6.54	130.31	110.70
1	G	274	HIS	CB-CG-ND1	6.54	132.50	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	21	GLN	CG-CD-NE2	-6.54	106.60	116.40
1	P	479	SER	N-CA-CB	-6.54	99.21	110.32
1	C	256	ALA	N-CA-C	6.53	119.40	111.82
1	D	186	GLY	CA-C-N	6.53	131.33	121.40
1	D	186	GLY	C-N-CA	6.53	131.33	121.40
1	F	174	ILE	CA-C-O	6.53	127.71	120.46
1	I	80	GLU	N-CA-C	6.53	119.22	111.71
1	L	394	ARG	NE-CZ-NH1	6.53	128.03	121.50
1	N	428	LEU	O-C-N	-6.53	115.04	122.68
1	O	434	LEU	CA-C-N	6.53	129.70	120.42
1	O	434	LEU	C-N-CA	6.53	129.70	120.42
1	E	169	LYS	N-CA-CB	-6.53	100.53	110.33
1	O	7	VAL	O-C-N	-6.53	112.55	123.00
1	A	50	ASP	CA-CB-CG	6.53	119.13	112.60
1	D	31	ILE	N-CA-CB	6.53	122.00	111.23
1	F	222	GLN	CG-CD-OE1	6.53	133.86	120.80
1	F	330	SER	CB-CA-C	6.53	119.56	110.16
1	G	287	VAL	CA-CB-CG1	6.53	121.50	110.40
1	J	174	ILE	CA-C-N	6.53	129.41	120.46
1	J	174	ILE	C-N-CA	6.53	129.41	120.46
1	L	371	CYS	CB-CA-C	-6.53	96.61	111.83
1	M	115	VAL	N-CA-CB	6.53	122.00	111.23
1	M	273	GLN	CA-C-O	-6.53	112.08	119.79
1	A	12	MET	N-CA-C	6.53	119.37	108.73
1	H	213	LEU	O-C-N	-6.53	115.78	123.22
1	O	378	ILE	O-C-N	-6.53	116.39	123.18
1	E	137	THR	CA-C-O	6.53	126.95	119.18
1	I	285	ARG	CA-C-O	-6.53	113.58	121.28
1	K	76	LYS	CA-CB-CG	-6.53	101.05	114.10
1	L	260	ASN	O-C-N	-6.53	113.91	122.59
1	P	145	GLN	O-C-N	-6.53	113.14	121.95
1	A	117	PRO	CA-N-CD	-6.53	102.86	112.00
1	E	95	THR	CA-C-O	6.53	126.91	119.27
1	G	375	ASP	N-CA-C	6.53	120.04	109.40
1	I	41	PRO	N-CA-CB	6.53	110.10	103.25
1	L	429	ASP	N-CA-C	6.53	118.78	108.67
1	O	189	ASP	CA-C-N	6.53	131.45	120.88
1	O	189	ASP	C-N-CA	6.53	131.45	120.88
1	C	370	GLY	CA-C-N	6.52	135.06	122.53
1	C	370	GLY	C-N-CA	6.52	135.06	122.53
1	F	195	ILE	O-C-N	6.52	130.72	122.57
1	I	116	HIS	N-CA-CB	6.52	121.98	110.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	464	ASN	CA-C-N	-6.52	108.62	121.41
1	I	464	ASN	C-N-CA	-6.52	108.62	121.41
1	K	45	ASP	N-CA-CB	-6.52	100.54	110.39
1	A	92	GLY	CA-C-O	-6.52	111.73	118.97
1	A	129	GLN	OE1-CD-NE2	-6.52	116.08	122.60
1	A	216	LYS	CA-C-N	6.52	133.22	122.07
1	A	216	LYS	C-N-CA	6.52	133.22	122.07
1	A	401	SER	CA-C-O	6.52	129.84	120.51
1	B	181	VAL	O-C-N	-6.52	114.42	122.57
1	D	340	PRO	CB-CA-C	-6.52	100.80	111.56
1	H	481	ALA	N-CA-C	6.52	119.39	111.82
1	I	312	ALA	N-CA-CB	6.52	119.92	110.20
1	L	63	THR	CA-C-O	-6.52	110.88	119.10
1	O	112	ASP	O-C-N	-6.52	114.35	122.24
1	O	482	GLU	O-C-N	-6.52	113.52	122.46
1	P	163	ALA	CA-C-O	-6.52	111.96	122.20
1	I	53	GLY	CA-C-N	6.52	130.60	120.75
1	I	53	GLY	C-N-CA	6.52	130.60	120.75
1	I	305	THR	OG1-CB-CG2	6.52	122.34	109.30
1	N	51	ASP	CA-C-O	-6.52	111.18	120.51
1	C	230	ALA	O-C-N	-6.52	115.54	123.30
1	C	493	VAL	N-CA-C	6.52	116.11	106.85
1	E	40	GLY	O-C-N	-6.52	115.25	121.77
1	I	379	VAL	O-C-N	6.52	130.61	122.66
1	J	91	ASP	CA-C-O	-6.52	113.98	121.15
1	K	93	THR	O-C-N	6.52	129.06	122.08
1	N	408	VAL	CA-C-O	-6.52	113.59	120.57
1	C	125	GLN	CA-C-O	-6.52	113.51	120.42
1	E	127	ALA	CA-C-N	6.52	132.62	122.26
1	E	127	ALA	C-N-CA	6.52	132.62	122.26
1	L	293	GLU	N-CA-CB	6.52	121.50	110.49
1	N	7	VAL	CG1-CB-CG2	-6.52	96.46	110.80
1	N	203	ILE	CB-CA-C	-6.52	100.60	111.29
1	O	191	ASP	N-CA-C	6.52	124.68	110.80
1	O	253	GLU	CA-C-N	6.52	131.46	120.64
1	O	253	GLU	C-N-CA	6.52	131.46	120.64
1	G	494	ILE	N-CA-CB	6.52	119.56	111.41
1	K	50	ASP	CA-C-N	6.52	131.55	121.19
1	K	50	ASP	C-N-CA	6.52	131.55	121.19
1	K	278	LYS	O-C-N	-6.52	113.47	122.46
1	A	377	ARG	CA-C-O	-6.51	113.32	120.36
1	E	12	MET	O-C-N	-6.51	113.93	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	96	ALA	O-C-N	6.51	131.25	122.59
1	G	397	ALA	O-C-N	6.51	129.58	122.15
1	I	445	GLY	N-CA-C	6.51	118.75	111.85
1	J	193	ILE	CA-CB-CG2	6.51	121.57	110.50
1	L	478	GLN	OE1-CD-NE2	-6.51	116.08	122.60
1	N	115	VAL	N-CA-CB	6.51	117.98	110.49
1	P	80	GLU	CA-C-N	-6.51	114.91	122.14
1	P	80	GLU	C-N-CA	-6.51	114.91	122.14
1	P	486	MET	CA-C-O	6.51	129.82	120.51
1	B	465	GLY	O-C-N	-6.51	114.23	122.70
1	I	281	ILE	N-CA-C	6.51	116.85	108.12
1	N	169	LYS	CB-CA-C	6.51	122.62	110.70
1	E	251	VAL	CA-CB-CG1	6.51	121.47	110.40
1	E	305	THR	CA-CB-OG1	6.51	119.37	109.60
1	H	36	ARG	CA-C-O	6.51	127.22	119.60
1	J	148	GLU	N-CA-C	6.51	124.67	110.80
1	K	310	LEU	N-CA-C	-6.51	101.78	110.24
1	L	252	ALA	N-CA-CB	6.51	122.17	110.32
1	O	141	GLU	CA-C-O	6.51	128.41	120.92
1	O	216	LYS	N-CA-CB	6.51	121.27	110.52
1	A	273	GLN	CB-CA-C	6.51	123.37	110.42
1	F	293	GLU	CA-CB-CG	6.51	127.12	114.10
1	I	220	SER	N-CA-C	6.51	119.72	109.96
1	P	79	ILE	N-CA-C	-6.51	104.17	110.42
1	C	476	ALA	N-CA-C	6.51	118.37	111.28
1	F	379	VAL	O-C-N	-6.51	116.03	122.99
1	I	116	HIS	N-CA-C	6.51	124.19	109.81
1	A	373	ILE	CA-CB-CG2	6.51	121.56	110.50
1	D	277	ALA	N-CA-CB	-6.51	100.20	110.28
1	G	236	ASN	N-CA-C	6.51	120.08	111.75
1	I	479	SER	CA-C-O	-6.51	111.62	119.49
1	K	321	VAL	CA-CB-CG2	6.51	121.46	110.40
1	K	356	GLU	N-CA-CB	6.51	121.49	110.49
1	H	118	THR	CB-CA-C	-6.50	97.65	110.27
1	H	232	ILE	CB-CA-C	-6.50	102.87	111.13
1	L	40	GLY	CA-C-O	-6.50	112.22	121.52
1	O	295	LEU	N-CA-CB	6.50	121.48	110.49
1	A	148	GLU	O-C-N	6.50	129.01	122.12
1	C	473	LYS	CA-C-N	6.50	129.23	120.65
1	C	473	LYS	C-N-CA	6.50	129.23	120.65
1	E	207	GLU	OE1-CD-OE2	6.50	138.51	122.90
1	E	251	VAL	CA-CB-CG2	6.50	121.46	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	238	ALA	N-CA-CB	-6.50	100.22	110.69
1	F	389	LEU	O-C-N	6.50	129.01	122.12
1	H	349	GLY	O-C-N	6.50	132.65	123.67
1	J	377	ARG	CA-CB-CG	6.50	127.11	114.10
1	N	275	TYR	CZ-CE2-CD2	6.50	131.31	119.60
1	O	62	VAL	CB-CA-C	-6.50	103.65	111.97
1	O	204	ASP	N-CA-CB	6.50	120.44	110.81
1	C	306	ASN	CA-C-N	6.50	133.67	121.97
1	C	306	ASN	C-N-CA	6.50	133.67	121.97
1	F	7	VAL	CA-C-O	-6.50	109.75	120.80
1	O	132	GLN	N-CA-CB	6.50	119.50	110.07
1	O	222	GLN	O-C-N	6.50	131.43	122.46
1	P	366	VAL	O-C-N	-6.50	115.70	122.20
1	H	101	GLY	O-C-N	6.50	128.50	122.19
1	K	168	GLU	CB-CA-C	6.50	121.58	110.79
1	L	241	GLU	CA-C-O	-6.50	113.86	121.46
1	N	274	HIS	CA-C-N	6.50	128.89	120.44
1	N	274	HIS	C-N-CA	6.50	128.89	120.44
1	A	325	LYS	CA-C-O	-6.50	113.51	120.92
1	C	353	HIS	CA-C-O	-6.50	114.01	120.70
1	F	70	VAL	N-CA-C	6.50	117.70	108.93
1	H	339	HIS	CE1-NE2-CD2	6.50	115.50	109.00
1	I	173	ILE	CA-CB-CG2	6.50	121.55	110.50
1	I	303	VAL	CA-C-N	-6.50	114.72	123.10
1	I	303	VAL	C-N-CA	-6.50	114.72	123.10
1	J	127	ALA	N-CA-C	6.50	120.47	112.54
1	J	166	ALA	CB-CA-C	-6.50	97.66	110.27
1	A	312	ALA	CB-CA-C	-6.50	98.34	110.36
1	C	140	CYS	O-C-N	-6.50	113.80	122.38
1	F	222	GLN	N-CA-CB	6.50	121.47	110.49
1	G	11	ASN	O-C-N	-6.50	113.95	122.59
1	G	411	PHE	CB-CG-CD2	6.50	131.74	120.70
1	M	465	GLY	CA-C-O	-6.50	109.27	120.57
1	P	266	LYS	CA-C-N	6.50	134.14	121.41
1	P	266	LYS	C-N-CA	6.50	134.14	121.41
1	B	10	GLU	N-CA-CB	6.50	121.47	110.49
1	D	244	SER	N-CA-C	6.50	124.64	110.80
1	H	98	VAL	N-CA-CB	6.50	118.43	110.64
1	K	445	GLY	N-CA-C	6.50	118.69	110.38
1	C	60	ASP	CB-CG-OD1	6.49	133.33	118.40
1	E	397	ALA	N-CA-CB	6.49	119.77	110.16
1	H	67	GLU	CB-CG-CD	-6.49	101.56	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	95	THR	CA-C-N	6.49	133.94	121.54
1	O	95	THR	C-N-CA	6.49	133.94	121.54
1	P	138	ILE	CA-CB-CG2	-6.49	99.46	110.50
1	D	129	GLN	CA-C-O	-6.49	113.93	121.07
1	E	182	VAL	CA-C-O	-6.49	113.00	120.98
1	F	31	ILE	CA-C-N	6.49	129.46	120.63
1	F	31	ILE	C-N-CA	6.49	129.46	120.63
1	K	226	LYS	N-CA-C	6.49	124.63	110.80
1	L	396	TYR	CA-C-O	-6.49	112.00	119.14
1	N	402	GLY	O-C-N	-6.49	114.26	122.70
1	P	395	GLU	CB-CA-C	6.49	123.56	109.99
1	C	224	PRO	N-CA-C	6.49	125.84	112.47
1	G	447	LYS	O-C-N	-6.49	114.54	122.20
1	H	14	ARG	CA-CB-CG	6.49	127.08	114.10
1	H	329	ASP	O-C-N	-6.49	114.78	122.96
1	I	493	VAL	N-CA-C	6.49	117.60	107.28
1	J	210	LYS	N-CA-C	6.49	124.62	110.80
1	J	377	ARG	CA-C-N	6.49	132.42	122.68
1	J	377	ARG	C-N-CA	6.49	132.42	122.68
1	B	122	LYS	N-CA-C	-6.49	105.22	113.01
1	E	10	GLU	CG-CD-OE1	6.49	133.32	118.40
1	G	59	ASN	OD1-CG-ND2	-6.49	116.11	122.60
1	G	193	ILE	CB-CA-C	6.49	121.93	111.29
1	H	182	VAL	O-C-N	-6.49	114.46	122.57
1	L	285	ARG	CA-CB-CG	6.49	127.08	114.10
1	M	54	ASP	CB-CA-C	6.49	120.02	109.90
1	O	297	LYS	CA-C-O	-6.49	111.75	119.15
1	I	90	GLY	O-C-N	-6.49	114.27	122.70
1	B	56	VAL	CA-C-O	-6.49	113.95	120.31
1	B	359	ALA	N-CA-CB	6.49	120.64	110.46
1	B	378	ILE	CB-CG1-CD1	6.49	127.42	113.80
1	B	491	ASP	OD1-CG-OD2	-6.49	107.33	122.90
1	C	114	ASN	CB-CG-OD1	6.49	133.77	120.80
1	E	152	LYS	CB-CA-C	6.49	120.95	110.96
1	G	43	GLY	O-C-N	6.49	132.26	123.11
1	H	394	ARG	CD-NE-CZ	6.49	133.48	124.40
1	I	476	ALA	CA-C-O	-6.49	113.68	120.55
1	J	178	VAL	CA-CB-CG1	6.49	121.43	110.40
1	J	352	GLU	CG-CD-OE1	-6.49	103.48	118.40
1	N	140	CYS	CA-C-N	6.49	133.93	121.54
1	N	140	CYS	C-N-CA	6.49	133.93	121.54
1	N	364	ASP	N-CA-CB	6.49	120.09	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	30	ILE	CB-CG1-CD1	6.48	127.42	113.80
1	E	431	ILE	CA-C-O	6.48	127.51	120.57
1	L	180	ALA	CA-C-N	6.48	128.63	120.72
1	L	180	ALA	C-N-CA	6.48	128.63	120.72
1	A	121	VAL	CB-CA-C	-6.48	103.67	111.97
1	E	418	ILE	CB-CA-C	-6.48	105.51	114.00
1	F	169	LYS	CA-C-N	6.48	129.26	120.38
1	F	169	LYS	C-N-CA	6.48	129.26	120.38
1	G	431	ILE	N-CA-C	6.48	119.15	111.05
1	I	178	VAL	CA-CB-CG1	-6.48	99.38	110.40
1	M	259	ALA	CA-C-O	-6.48	113.22	120.54
1	N	304	ILE	CA-C-N	6.48	133.92	121.54
1	N	304	ILE	C-N-CA	6.48	133.92	121.54
1	O	302	ASN	O-C-N	-6.48	115.67	123.13
1	P	70	VAL	N-CA-CB	-6.48	100.53	111.23
1	A	256	ALA	O-C-N	6.48	130.66	122.23
1	C	473	LYS	CA-C-O	6.48	127.37	120.70
1	H	310	LEU	CA-C-N	6.48	135.81	121.81
1	H	310	LEU	C-N-CA	6.48	135.81	121.81
1	K	414	ALA	N-CA-C	6.48	120.40	112.23
1	N	205	ASP	CA-C-N	6.48	132.12	123.05
1	N	205	ASP	C-N-CA	6.48	132.12	123.05
1	C	145	GLN	OE1-CD-NE2	6.48	129.08	122.60
1	E	173	ILE	CA-CB-CG2	6.48	121.52	110.50
1	E	329	ASP	CA-C-N	-6.48	112.50	122.09
1	E	329	ASP	C-N-CA	-6.48	112.50	122.09
1	M	130	LYS	O-C-N	-6.48	115.40	122.07
1	N	94	THR	CA-CB-OG1	6.48	119.32	109.60
1	C	148	GLU	N-CA-CB	6.48	121.44	110.49
1	H	220	SER	N-CA-CB	6.48	121.19	110.63
1	M	428	LEU	CB-CA-C	6.48	120.59	109.51
1	N	365	ALA	CA-C-O	-6.48	112.02	119.60
1	O	435	VAL	CA-C-N	-6.48	111.63	120.44
1	O	435	VAL	C-N-CA	-6.48	111.63	120.44
1	O	496	ALA	CA-C-N	6.48	133.36	121.70
1	O	496	ALA	C-N-CA	6.48	133.36	121.70
1	A	195	ILE	CB-CG1-CD1	6.48	127.40	113.80
1	J	207	GLU	CB-CG-CD	-6.48	101.59	112.60
1	C	62	VAL	O-C-N	-6.47	114.48	122.57
1	D	465	GLY	CA-C-O	-6.47	109.31	120.57
1	G	458	VAL	N-CA-CB	-6.47	103.22	110.99
1	H	410	ALA	CA-C-O	6.47	127.42	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	204	ASP	N-CA-CB	6.47	120.54	110.44
1	A	315	LEU	N-CA-C	6.47	119.73	109.50
1	C	360	ARG	N-CA-C	6.47	120.39	112.23
1	D	184	ASP	O-C-N	-6.47	113.98	122.59
1	F	9	PRO	O-C-N	-6.47	115.85	123.10
1	O	471	ARG	CA-C-N	6.47	128.62	120.72
1	O	471	ARG	C-N-CA	6.47	128.62	120.72
1	I	465	GLY	CA-C-O	-6.47	109.31	120.57
1	J	404	GLU	CA-CB-CG	6.47	127.04	114.10
1	L	107	ALA	O-C-N	-6.47	113.22	122.41
1	N	144	ALA	O-C-N	-6.47	113.98	122.59
1	E	21	GLN	O-C-N	-6.47	115.26	122.12
1	F	257	SER	CA-CB-OG	6.47	124.04	111.10
1	K	336	GLU	CA-C-O	-6.47	110.51	119.96
1	O	332	ILE	O-C-N	6.47	130.67	123.10
1	L	489	ARG	NH1-CZ-NH2	-6.47	110.89	119.30
1	O	372	THR	O-C-N	6.47	129.52	122.15
1	P	224	PRO	O-C-N	6.47	131.03	123.01
1	P	261	VAL	N-CA-CB	6.47	123.01	111.63
1	E	49	VAL	CA-CB-CG1	-6.47	99.41	110.40
1	G	351	THR	CA-C-O	6.47	129.76	120.51
1	H	10	GLU	N-CA-CB	6.47	121.42	110.49
1	H	94	THR	OG1-CB-CG2	6.47	122.23	109.30
1	I	116	HIS	CG-CD2-NE2	-6.47	100.73	107.20
1	M	157	SER	N-CA-CB	6.47	120.94	110.40
1	P	172	GLU	CB-CG-CD	-6.47	101.61	112.60
1	E	467	VAL	CA-C-N	-6.46	114.65	123.96
1	E	467	VAL	C-N-CA	-6.46	114.65	123.96
1	J	235	LEU	CA-C-O	-6.46	113.33	120.38
1	L	105	ARG	CG-CD-NE	6.46	126.22	112.00
1	M	305	THR	CA-CB-CG2	6.46	121.49	110.50
1	P	338	LYS	CA-C-O	-6.46	114.21	121.00
1	B	362	VAL	CB-CA-C	6.46	116.75	111.06
1	C	257	SER	N-CA-CB	6.46	119.57	110.07
1	C	309	ASP	N-CA-CB	6.46	120.03	110.53
1	L	82	ALA	CA-C-N	6.46	129.42	120.63
1	L	82	ALA	C-N-CA	6.46	129.42	120.63
1	P	285	ARG	CG-CD-NE	6.46	126.22	112.00
1	A	403	ARG	N-CA-C	6.46	119.64	111.69
1	F	304	ILE	N-CA-C	6.46	119.12	109.17
1	J	169	LYS	CA-C-N	6.46	132.45	121.14
1	J	169	LYS	C-N-CA	6.46	132.45	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	344	THR	CA-CB-OG1	-6.46	99.91	109.60
1	D	181	VAL	CA-C-N	-6.46	112.04	120.63
1	D	181	VAL	C-N-CA	-6.46	112.04	120.63
1	E	10	GLU	OE1-CD-OE2	-6.46	107.40	122.90
1	J	371	CYS	N-CA-C	6.46	124.56	110.80
1	J	478	GLN	OE1-CD-NE2	6.46	129.06	122.60
1	O	89	VAL	O-C-N	-6.46	113.01	121.99
1	B	116	HIS	CE1-NE2-CD2	-6.46	102.54	109.00
1	E	52	LEU	CA-C-O	-6.46	111.49	119.18
1	F	66	ARG	CB-CA-C	6.46	121.02	110.88
1	H	138	ILE	CB-CG1-CD1	6.46	127.36	113.80
1	J	14	ARG	NE-CZ-NH1	6.46	127.96	121.50
1	L	180	ALA	CB-CA-C	6.46	121.04	109.29
1	L	404	GLU	CB-CG-CD	6.46	123.58	112.60
1	C	242	THR	CA-C-N	6.46	133.87	121.54
1	C	242	THR	C-N-CA	6.46	133.87	121.54
1	D	129	GLN	OE1-CD-NE2	6.46	129.06	122.60
1	J	239	ILE	CA-CB-CG1	6.46	121.38	110.40
1	K	244	SER	O-C-N	6.46	131.18	122.59
1	M	342	ALA	N-CA-CB	6.46	121.40	110.49
1	N	492	ASP	CA-C-O	-6.46	111.28	120.51
1	B	273	GLN	OE1-CD-NE2	6.46	129.06	122.60
1	I	261	VAL	N-CA-C	-6.46	98.90	108.45
1	I	372	THR	N-CA-C	6.46	124.55	110.80
1	O	186	GLY	CA-C-N	6.46	133.87	121.54
1	O	186	GLY	C-N-CA	6.46	133.87	121.54
1	P	302	ASN	CB-CG-OD1	6.46	133.71	120.80
1	A	475	GLN	CA-C-N	6.45	129.22	120.44
1	A	475	GLN	C-N-CA	6.45	129.22	120.44
1	B	284	ALA	CA-C-N	6.45	131.94	121.74
1	B	284	ALA	C-N-CA	6.45	131.94	121.74
1	E	336	GLU	CA-C-N	6.45	133.87	121.54
1	E	336	GLU	C-N-CA	6.45	133.87	121.54
1	F	470	LEU	CA-C-O	6.45	125.88	118.97
1	I	270	ASP	O-C-N	-6.45	114.01	122.59
1	I	328	GLY	CA-C-O	-6.45	109.34	120.57
1	K	188	VAL	CA-C-N	6.45	132.02	122.86
1	K	188	VAL	C-N-CA	6.45	132.02	122.86
1	K	469	PRO	N-CA-CB	-6.45	96.47	103.25
1	D	42	LYS	CA-C-N	6.45	126.58	121.61
1	D	42	LYS	C-N-CA	6.45	126.58	121.61
1	G	148	GLU	OE1-CD-OE2	6.45	138.39	122.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	274	HIS	CA-C-O	6.45	127.39	119.97
1	O	169	LYS	CB-CA-C	6.45	121.82	110.85
1	A	441	HIS	CE1-NE2-CD2	-6.45	102.55	109.00
1	A	471	ARG	NE-CZ-NH1	-6.45	115.05	121.50
1	B	452	ASN	N-CA-CB	6.45	120.18	109.60
1	F	157	SER	N-CA-CB	6.45	119.68	110.13
1	G	308	LYS	CB-CG-CD	-6.45	96.46	111.30
1	N	31	ILE	N-CA-CB	6.45	121.87	111.23
1	N	474	THR	N-CA-CB	6.45	120.01	110.33
1	P	409	ARG	O-C-N	6.45	129.97	122.17
1	B	194	LYS	N-CA-CB	6.45	119.58	110.36
1	D	265	GLN	O-C-N	-6.45	114.69	122.11
1	F	126	ALA	CA-C-N	6.45	134.06	122.06
1	F	126	ALA	C-N-CA	6.45	134.06	122.06
1	G	251	VAL	CA-CB-CG2	6.45	121.36	110.40
1	G	337	CYS	CA-C-N	6.45	135.73	121.80
1	G	337	CYS	C-N-CA	6.45	135.73	121.80
1	K	305	THR	CA-CB-CG2	6.45	121.46	110.50
1	L	178	VAL	N-CA-C	6.45	116.59	110.53
1	M	12	MET	CA-C-N	6.45	131.86	122.77
1	M	12	MET	C-N-CA	6.45	131.86	122.77
1	O	421	THR	CA-CB-CG2	6.45	121.46	110.50
1	P	174	ILE	CA-CB-CG2	6.45	121.46	110.50
1	P	470	LEU	N-CA-CB	6.45	121.62	110.98
1	J	138	ILE	CA-CB-CG1	-6.45	99.44	110.40
1	A	146	ASP	CA-C-O	-6.45	111.29	120.51
1	D	94	THR	CA-CB-OG1	6.45	119.27	109.60
1	E	11	ASN	CA-C-O	6.45	129.73	120.51
1	E	398	GLU	CB-CG-CD	6.45	123.56	112.60
1	F	433	ILE	O-C-N	-6.45	115.20	121.90
1	G	385	THR	CA-C-O	6.45	127.31	119.38
1	J	104	LEU	CA-C-N	6.45	128.82	120.44
1	J	104	LEU	C-N-CA	6.45	128.82	120.44
1	M	31	ILE	CB-CG1-CD1	-6.45	100.26	113.80
1	K	345	MET	CA-C-O	6.44	127.36	120.46
1	L	177	ALA	CA-C-O	6.44	127.39	120.24
1	A	379	VAL	N-CA-CB	6.44	120.30	111.41
1	I	165	LYS	CA-C-O	6.44	128.16	121.07
1	M	404	GLU	O-C-N	6.44	131.35	122.46
1	N	84	THR	CA-C-N	6.44	133.84	121.54
1	N	84	THR	C-N-CA	6.44	133.84	121.54
1	N	380	SER	CA-C-O	-6.44	113.02	120.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	447	LYS	CA-C-O	6.44	129.72	120.51
1	B	405	GLN	CG-CD-OE1	6.44	133.68	120.80
1	C	24	ASN	CB-CG-OD1	-6.44	107.92	120.80
1	E	206	THR	N-CA-C	-6.44	98.72	108.96
1	F	224	PRO	CA-C-N	6.44	131.74	122.08
1	F	224	PRO	C-N-CA	6.44	131.74	122.08
1	L	136	LYS	CA-CB-CG	6.44	126.98	114.10
1	M	197	LYS	N-CA-CB	-6.44	100.37	110.87
1	N	371	CYS	CB-CA-C	6.44	122.49	110.70
1	P	306	ASN	CA-C-N	6.44	133.56	121.97
1	P	306	ASN	C-N-CA	6.44	133.56	121.97
1	J	288	LYS	O-C-N	-6.44	115.85	123.06
1	K	275	TYR	O-C-N	6.44	128.98	122.03
1	P	485	GLU	N-CA-CB	6.44	120.48	110.44
1	M	470	LEU	N-CA-CB	6.44	120.12	110.53
1	O	350	THR	CA-C-N	6.44	134.18	122.02
1	O	350	THR	C-N-CA	6.44	134.18	122.02
1	G	139	ALA	CB-CA-C	6.43	123.22	110.42
1	I	488	LEU	CA-C-O	-6.43	113.60	120.42
1	J	289	LYS	CB-CA-C	6.43	123.22	110.42
1	K	309	ASP	CA-C-N	6.43	130.28	120.82
1	K	309	ASP	C-N-CA	6.43	130.28	120.82
1	L	452	ASN	CA-C-N	-6.43	111.28	120.42
1	L	452	ASN	C-N-CA	-6.43	111.28	120.42
1	N	348	ARG	NE-CZ-NH2	-6.43	113.41	119.20
1	O	207	GLU	OE1-CD-OE2	-6.43	107.45	122.90
1	P	398	GLU	CB-CG-CD	6.43	123.54	112.60
1	A	18	ARG	O-C-N	6.43	131.15	122.59
1	G	78	LEU	N-CA-CB	-6.43	101.19	110.65
1	H	30	ILE	CA-CB-CG2	-6.43	99.57	110.50
1	H	212	VAL	CA-CB-CG1	6.43	121.33	110.40
1	I	464	ASN	O-C-N	6.43	130.59	122.23
1	J	187	LYS	CG-CD-CE	6.43	126.10	111.30
1	O	67	GLU	CA-C-O	-6.43	114.05	120.80
1	O	370	GLY	N-CA-C	6.43	128.42	113.18
1	P	55	VAL	CA-CB-CG1	6.43	121.33	110.40
1	B	197	LYS	O-C-N	-6.43	115.04	123.21
1	C	323	GLU	CA-C-O	-6.43	111.31	120.51
1	I	84	THR	CA-C-O	-6.43	114.02	120.90
1	I	458	VAL	N-CA-CB	6.43	118.22	110.31
1	M	253	GLU	CA-CB-CG	6.43	126.96	114.10
1	N	275	TYR	CG-CD2-CE2	-6.43	111.56	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	118	THR	CA-CB-OG1	6.43	119.24	109.60
1	F	355	ILE	CB-CA-C	-6.43	103.78	111.81
1	J	134	LEU	CB-CA-C	6.43	123.21	110.42
1	J	358	VAL	N-CA-C	6.43	122.71	109.34
1	K	205	ASP	CA-C-N	6.43	130.53	121.02
1	K	205	ASP	C-N-CA	6.43	130.53	121.02
1	M	23	MET	CA-C-O	6.43	127.28	119.31
1	M	271	LEU	O-C-N	6.43	131.33	122.46
1	B	169	LYS	CA-C-O	-6.43	111.75	119.27
1	E	309	ASP	OD1-CG-OD2	6.43	138.33	122.90
1	G	66	ARG	CA-C-O	-6.43	112.00	119.78
1	G	117	PRO	O-C-N	6.43	129.95	122.17
1	G	260	ASN	OD1-CG-ND2	-6.43	116.17	122.60
1	I	131	ALA	CB-CA-C	6.43	121.41	110.74
1	I	330	SER	CB-CA-C	6.43	120.34	109.80
1	K	99	VAL	CA-C-N	6.43	129.18	120.44
1	K	99	VAL	C-N-CA	6.43	129.18	120.44
1	K	418	ILE	CA-CB-CG2	6.43	121.43	110.50
1	M	155	MET	N-CA-C	6.43	118.29	111.28
1	M	436	LYS	O-C-N	6.43	129.03	122.09
1	N	322	GLU	CB-CG-CD	6.43	123.52	112.60
1	E	18	ARG	CA-C-N	6.42	131.45	120.72
1	E	18	ARG	C-N-CA	6.42	131.45	120.72
1	E	275	TYR	N-CA-C	6.42	117.97	110.97
1	E	388	GLU	N-CA-CB	6.42	120.15	110.19
1	H	149	ILE	CA-CB-CG2	6.42	121.42	110.50
1	H	203	ILE	CA-C-O	-6.42	114.59	121.27
1	I	159	THR	CA-C-O	6.42	128.42	121.16
1	K	218	ARG	CA-C-N	6.42	128.66	120.56
1	K	218	ARG	C-N-CA	6.42	128.66	120.56
1	L	210	LYS	CA-CB-CG	6.42	126.95	114.10
1	O	341	LYS	CA-CB-CG	6.42	126.95	114.10
1	A	140	CYS	O-C-N	-6.42	115.69	123.27
1	B	275	TYR	CD1-CE1-CZ	-6.42	108.04	119.60
1	F	327	SER	O-C-N	6.42	131.13	122.59
1	G	206	THR	CA-CB-CG2	6.42	121.42	110.50
1	H	287	VAL	CB-CA-C	6.42	121.82	111.29
1	I	113	GLN	O-C-N	-6.42	112.84	122.28
1	L	71	GLU	N-CA-C	6.42	121.29	112.04
1	P	150	LEU	CA-C-O	-6.42	114.03	120.90
1	F	59	ASN	CA-CB-CG	6.42	119.02	112.60
1	F	386	GLU	N-CA-CB	-6.42	100.63	110.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	11	ASN	OD1-CG-ND2	-6.42	116.18	122.60
1	I	16	MET	O-C-N	-6.42	116.10	123.42
1	L	316	GLY	O-C-N	-6.42	116.24	123.11
1	O	76	LYS	N-CA-CB	6.42	119.96	110.33
1	E	190	LYS	CA-C-O	-6.42	111.33	120.51
1	G	404	GLU	CB-CA-C	6.42	123.73	110.31
1	B	55	VAL	CA-C-O	-6.42	113.43	120.43
1	B	61	GLY	CA-C-O	-6.42	113.71	120.90
1	B	312	ALA	CB-CA-C	-6.42	102.64	111.95
1	G	330	SER	CA-C-N	6.42	133.41	122.37
1	G	330	SER	C-N-CA	6.42	133.41	122.37
1	H	312	ALA	O-C-N	-6.42	114.45	122.35
1	K	157	SER	N-CA-C	6.42	119.09	111.71
1	P	301	ALA	N-CA-C	6.42	119.29	110.24
1	C	441	HIS	CA-CB-CG	-6.42	107.38	113.80
1	E	374	GLU	OE1-CD-OE2	-6.42	107.50	122.90
1	F	432	GLU	N-CA-CB	6.42	119.66	110.16
1	I	171	ALA	CA-C-N	6.42	129.36	120.63
1	I	171	ALA	C-N-CA	6.42	129.36	120.63
1	K	247	LEU	N-CA-C	-6.42	103.53	112.45
1	N	23	MET	CA-C-O	6.42	127.56	120.82
1	N	307	ILE	N-CA-C	6.42	122.69	109.34
1	O	156	THR	N-CA-C	6.42	120.57	112.87
1	P	124	TYR	O-C-N	-6.42	114.06	122.59
1	I	296	ALA	N-CA-C	6.42	121.89	111.37
1	J	114	ASN	CA-C-O	-6.42	111.34	120.51
1	K	274	HIS	CG-CD2-NE2	-6.42	100.78	107.20
1	A	446	ASN	OD1-CG-ND2	-6.41	116.19	122.60
1	E	176	GLU	CA-C-N	6.41	129.52	120.28
1	E	176	GLU	C-N-CA	6.41	129.52	120.28
1	E	443	SER	CB-CA-C	6.41	120.89	110.37
1	F	247	LEU	O-C-N	-6.41	112.84	122.20
1	F	439	ALA	CA-C-O	-6.41	111.49	119.38
1	J	96	ALA	CA-C-O	6.41	127.35	120.55
1	J	191	ASP	CA-C-O	-6.41	111.34	120.51
1	M	33	GLU	CB-CG-CD	6.41	123.50	112.60
1	N	50	ASP	N-CA-CB	-6.41	101.14	110.70
1	P	444	ASN	OD1-CG-ND2	6.41	129.01	122.60
1	D	348	ARG	CD-NE-CZ	-6.41	115.42	124.40
1	E	20	ALA	O-C-N	-6.41	113.64	122.30
1	H	81	VAL	CA-CB-CG2	6.41	121.30	110.40
1	N	351	THR	CA-C-O	6.41	128.96	121.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	167	LYS	CB-CG-CD	6.41	126.04	111.30
1	E	94	THR	CA-CB-OG1	6.41	119.21	109.60
1	G	54	ASP	CA-C-O	-6.41	111.34	120.51
1	G	88	GLU	OE1-CD-OE2	-6.41	107.51	122.90
1	H	158	ILE	CA-C-N	6.41	131.85	123.00
1	H	158	ILE	C-N-CA	6.41	131.85	123.00
1	K	66	ARG	NE-CZ-NH2	-6.41	113.43	119.20
1	L	130	LYS	O-C-N	6.41	131.24	122.46
1	P	10	GLU	CG-CD-OE1	6.41	133.14	118.40
1	P	254	ILE	N-CA-C	6.41	117.19	110.72
1	A	317	ASP	CB-CA-C	6.41	119.38	111.43
1	C	66	ARG	CG-CD-NE	6.41	126.10	112.00
1	F	360	ARG	N-CA-C	6.41	118.84	111.02
1	G	287	VAL	N-CA-C	6.41	117.69	109.30
1	H	454	PHE	N-CA-CB	-6.41	100.61	110.42
1	I	151	THR	CA-CB-OG1	6.41	119.21	109.60
1	L	453	VAL	CA-CB-CG1	-6.41	99.51	110.40
1	N	189	ASP	CB-CG-OD2	6.41	133.14	118.40
1	D	222	GLN	CG-CD-OE1	6.41	133.61	120.80
1	E	492	ASP	CA-C-N	-6.41	110.44	121.97
1	E	492	ASP	C-N-CA	-6.41	110.44	121.97
1	L	348	ARG	CD-NE-CZ	-6.41	115.43	124.40
1	M	17	GLY	O-C-N	-6.41	114.37	122.70
1	P	313	GLN	CA-C-N	6.41	133.78	121.54
1	P	313	GLN	C-N-CA	6.41	133.78	121.54
1	B	108	GLU	CA-C-N	-6.40	110.32	120.63
1	B	108	GLU	C-N-CA	-6.40	110.32	120.63
1	G	223	MET	O-C-N	-6.40	114.49	121.53
1	H	127	ALA	N-CA-CB	6.40	120.24	110.44
1	M	313	GLN	CG-CD-OE1	6.40	133.61	120.80
1	N	116	HIS	ND1-CE1-NE2	6.40	114.80	108.40
1	N	357	GLU	CB-CA-C	-6.40	100.78	110.90
1	B	27	ALA	N-CA-CB	-6.40	101.72	110.56
1	E	217	GLU	N-CA-C	-6.40	99.77	109.95
1	F	414	ALA	N-CA-CB	6.40	119.26	109.91
1	L	475	GLN	N-CA-CB	-6.40	100.72	110.33
1	M	484	THR	OG1-CB-CG2	-6.40	96.49	109.30
1	P	370	GLY	CA-C-N	6.40	133.77	121.54
1	P	370	GLY	C-N-CA	6.40	133.77	121.54
1	A	84	THR	N-CA-CB	6.40	121.31	110.49
1	C	424	GLU	N-CA-CB	6.40	119.74	110.20
1	D	462	CYS	O-C-N	6.40	128.69	122.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	318	ALA	CB-CA-C	-6.40	101.89	110.79
1	I	240	GLU	N-CA-CB	6.40	120.57	110.84
1	K	374	GLU	N-CA-C	6.40	120.35	112.54
1	L	88	GLU	CG-CD-OE2	6.40	133.12	118.40
1	L	403	ARG	NE-CZ-NH2	-6.40	113.44	119.20
1	M	441	HIS	ND1-CG-CD2	6.40	112.50	106.10
1	N	232	ILE	CA-CB-CG1	6.40	121.28	110.40
1	P	196	GLU	N-CA-C	6.40	119.50	109.96
1	A	78	LEU	O-C-N	6.40	129.51	121.64
1	F	256	ALA	CA-C-N	6.40	133.52	121.81
1	F	256	ALA	C-N-CA	6.40	133.52	121.81
1	H	58	THR	N-CA-C	6.40	118.87	108.76
1	J	490	ILE	O-C-N	-6.40	114.57	122.57
1	K	262	LEU	CA-C-O	-6.40	111.57	120.21
1	A	78	LEU	CA-C-O	-6.40	111.18	118.47
1	A	240	GLU	CA-C-N	-6.40	110.76	121.89
1	A	240	GLU	C-N-CA	-6.40	110.76	121.89
1	C	304	ILE	N-CA-CB	6.40	121.78	111.23
1	H	22	ARG	CB-CA-C	-6.40	100.79	110.90
1	J	132	GLN	OE1-CD-NE2	-6.40	116.20	122.60
1	J	169	LYS	CB-CG-CD	6.40	126.01	111.30
1	J	207	GLU	CA-C-O	-6.40	114.40	121.89
1	O	337	CYS	CA-C-N	6.40	130.49	120.89
1	O	337	CYS	C-N-CA	6.40	130.49	120.89
1	B	240	GLU	CA-CB-CG	6.40	126.89	114.10
1	E	50	ASP	CA-C-O	-6.40	113.10	121.73
1	F	421	THR	N-CA-C	-6.40	104.35	111.71
1	J	338	LYS	CG-CD-CE	6.40	126.01	111.30
1	K	248	LYS	CA-C-O	-6.40	111.51	119.38
1	K	306	ASN	CB-CG-ND2	6.40	125.99	116.40
1	L	149	ILE	CA-CB-CG2	-6.40	99.63	110.50
1	A	489	ARG	N-CA-CB	6.39	121.30	110.49
1	C	92	GLY	CA-C-O	-6.39	111.92	119.46
1	J	105	ARG	NE-CZ-NH2	6.39	124.95	119.20
1	J	313	GLN	OE1-CD-NE2	-6.39	116.20	122.60
1	J	404	GLU	CA-C-N	6.39	129.14	120.44
1	J	404	GLU	C-N-CA	6.39	129.14	120.44
1	P	449	ALA	CA-C-N	-6.39	115.71	122.30
1	P	449	ALA	C-N-CA	-6.39	115.71	122.30
1	E	401	SER	N-CA-C	6.39	124.42	110.80
1	F	59	ASN	OD1-CG-ND2	-6.39	116.21	122.60
1	H	333	PHE	CA-C-N	6.39	133.48	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	333	PHE	C-N-CA	6.39	133.48	121.97
1	H	368	VAL	CB-CA-C	6.39	121.77	111.29
1	I	173	ILE	N-CA-C	6.39	121.09	111.89
1	J	291	ASP	CA-C-O	-6.39	112.25	119.79
1	N	129	GLN	N-CA-CB	6.39	121.30	110.49
1	N	383	GLY	CA-C-N	6.39	133.75	121.54
1	N	383	GLY	C-N-CA	6.39	133.75	121.54
1	O	324	ARG	NE-CZ-NH1	6.39	127.89	121.50
1	O	384	SER	CB-CA-C	-6.39	100.05	110.08
1	O	403	ARG	O-C-N	-6.39	114.57	122.11
1	C	20	ALA	N-CA-C	6.39	121.24	112.04
1	C	235	LEU	CA-C-N	6.39	131.54	120.68
1	C	235	LEU	C-N-CA	6.39	131.54	120.68
1	K	180	ALA	CB-CA-C	6.39	121.53	110.79
1	C	165	LYS	N-CA-C	6.39	119.55	111.69
1	E	357	GLU	O-C-N	6.39	130.13	122.27
1	F	20	ALA	CA-C-O	-6.39	114.09	120.80
1	F	138	ILE	CA-C-O	-6.39	111.85	119.58
1	A	148	GLU	N-CA-CB	6.39	119.64	110.06
1	C	491	ASP	OD1-CG-OD2	-6.39	107.57	122.90
1	H	170	LEU	CA-C-O	6.39	127.35	120.20
1	P	123	GLY	O-C-N	-6.39	114.39	122.70
1	B	298	ALA	CA-C-N	6.39	131.38	120.72
1	B	298	ALA	C-N-CA	6.39	131.38	120.72
1	E	228	THR	CA-C-O	-6.39	114.66	121.88
1	F	61	GLY	O-C-N	-6.39	115.00	122.34
1	J	269	ASP	CA-C-O	-6.39	111.38	120.51
1	L	11	ASN	N-CA-CB	6.39	121.28	110.49
1	L	63	THR	CA-C-N	6.39	128.84	120.60
1	L	63	THR	C-N-CA	6.39	128.84	120.60
1	M	242	THR	CA-CB-OG1	6.39	119.18	109.60
1	M	308	LYS	CA-C-O	-6.39	110.94	119.11
1	A	42	LYS	CG-CD-CE	6.38	125.98	111.30
1	A	203	ILE	O-C-N	-6.38	115.95	122.14
1	E	459	GLU	O-C-N	-6.38	114.56	123.11
1	I	304	ILE	CB-CA-C	-6.38	101.11	110.81
1	K	393	LEU	O-C-N	-6.38	114.06	122.42
1	K	441	HIS	CA-C-O	6.38	127.32	119.79
1	M	59	ASN	O-C-N	-6.38	114.06	122.42
1	M	362	VAL	N-CA-C	6.38	117.07	111.90
1	M	373	ILE	CA-C-O	-6.38	112.80	120.78
1	P	18	ARG	NE-CZ-NH2	-6.38	113.45	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	90	GLY	O-C-N	-6.38	114.40	122.70
1	N	27	ALA	CA-C-N	6.38	126.90	119.94
1	N	27	ALA	C-N-CA	6.38	126.90	119.94
1	B	314	ASP	O-C-N	-6.38	114.10	122.59
1	C	272	ALA	CA-C-N	6.38	129.12	120.38
1	C	272	ALA	C-N-CA	6.38	129.12	120.38
1	D	318	ALA	CA-C-O	-6.38	113.64	120.09
1	D	454	PHE	CD1-CE1-CZ	-6.38	108.51	120.00
1	F	113	GLN	N-CA-CB	6.38	120.23	110.79
1	F	139	ALA	CA-C-N	6.38	131.50	121.99
1	F	139	ALA	C-N-CA	6.38	131.50	121.99
1	K	458	VAL	CA-CB-CG1	6.38	121.25	110.40
1	M	51	ASP	CA-CB-CG	-6.38	106.22	112.60
1	N	274	HIS	CA-CB-CG	-6.38	107.42	113.80
1	O	56	VAL	O-C-N	-6.38	114.88	122.66
1	O	403	ARG	N-CA-C	6.38	120.93	111.04
1	P	81	VAL	CA-C-O	6.38	124.72	118.98
1	H	70	VAL	O-C-N	-6.38	114.28	122.32
1	K	228	THR	CA-CB-CG2	6.38	121.35	110.50
1	B	140	CYS	CA-C-N	-6.38	111.16	122.07
1	B	140	CYS	C-N-CA	-6.38	111.16	122.07
1	B	245	GLU	CA-CB-CG	6.38	126.86	114.10
1	D	182	VAL	O-C-N	-6.38	116.16	122.67
1	F	253	GLU	CG-CD-OE2	-6.38	103.73	118.40
1	G	133	GLU	CA-CB-CG	6.38	126.86	114.10
1	G	279	GLU	N-CA-CB	6.38	121.16	110.32
1	L	164	GLU	O-C-N	-6.38	114.11	122.59
1	L	310	LEU	O-C-N	6.38	131.07	122.59
1	M	354	VAL	CA-C-N	6.38	128.50	120.72
1	M	354	VAL	C-N-CA	6.38	128.50	120.72
1	O	357	GLU	N-CA-C	6.38	124.39	110.80
1	G	489	ARG	CD-NE-CZ	6.38	133.33	124.40
1	H	51	ASP	CA-C-O	-6.38	111.39	120.51
1	J	131	ALA	N-CA-CB	6.38	120.04	110.22
1	J	482	GLU	CB-CG-CD	6.38	123.44	112.60
1	O	31	ILE	CA-CB-CG2	6.38	121.34	110.50
1	F	426	ALA	CA-C-N	6.38	133.91	121.41
1	F	426	ALA	C-N-CA	6.38	133.91	121.41
1	B	217	GLU	OE1-CD-OE2	-6.37	107.61	122.90
1	D	183	ASP	O-C-N	6.37	130.65	123.19
1	D	352	GLU	O-C-N	6.37	131.07	122.59
1	H	36	ARG	O-C-N	-6.37	113.31	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	451	LEU	CA-C-O	6.37	129.62	120.51
1	O	247	LEU	CA-C-N	6.37	129.30	120.63
1	O	247	LEU	C-N-CA	6.37	129.30	120.63
1	C	11	ASN	CA-C-O	-6.37	113.95	119.18
1	F	139	ALA	CB-CA-C	6.37	118.92	110.06
1	I	72	HIS	CA-CB-CG	-6.37	107.43	113.80
1	I	449	ALA	O-C-N	-6.37	114.12	122.59
1	J	124	TYR	CD1-CG-CD2	-6.37	108.54	118.10
1	O	129	GLN	N-CA-CB	6.37	119.21	109.91
1	F	490	ILE	CA-C-N	6.37	134.13	122.54
1	F	490	ILE	C-N-CA	6.37	134.13	122.54
1	G	344	THR	CB-CA-C	-6.37	99.02	109.53
1	C	307	ILE	CA-C-N	6.37	133.70	121.54
1	C	307	ILE	C-N-CA	6.37	133.70	121.54
1	F	25	ILE	CB-CA-C	-6.37	103.54	112.14
1	F	155	MET	N-CA-C	6.37	124.37	110.80
1	I	13	LYS	N-CA-C	6.37	119.01	110.35
1	I	313	GLN	CA-C-N	6.37	133.71	121.54
1	I	313	GLN	C-N-CA	6.37	133.71	121.54
1	K	112	ASP	CB-CA-C	6.37	120.08	109.38
1	L	382	GLY	CA-C-N	6.37	133.89	121.41
1	L	382	GLY	C-N-CA	6.37	133.89	121.41
1	N	107	ALA	N-CA-C	-6.37	104.43	111.82
1	O	387	VAL	CB-CA-C	6.37	121.73	111.29
1	E	304	ILE	CA-C-N	6.37	133.70	121.54
1	E	304	ILE	C-N-CA	6.37	133.70	121.54
1	O	79	ILE	CA-CB-CG1	6.37	121.22	110.40
1	B	20	ALA	CA-C-O	-6.37	114.14	120.70
1	B	237	CYS	N-CA-CB	6.37	120.71	110.65
1	F	105	ARG	O-C-N	-6.37	113.95	122.23
1	F	231	LYS	CA-C-N	6.37	129.03	120.50
1	F	231	LYS	C-N-CA	6.37	129.03	120.50
1	G	360	ARG	CA-C-O	-6.37	113.74	120.55
1	I	185	GLU	O-C-N	-6.37	114.12	122.59
1	I	272	ALA	O-C-N	6.37	131.18	122.46
1	K	292	MET	CA-C-O	6.37	127.26	120.70
1	M	245	GLU	CG-CD-OE2	6.37	133.04	118.40
1	F	383	GLY	O-C-N	6.36	130.97	122.70
1	G	293	GLU	O-C-N	-6.36	115.37	122.12
1	K	18	ARG	NE-CZ-NH1	6.36	127.86	121.50
1	L	347	ILE	N-CA-CB	6.36	121.73	111.23
1	N	122	LYS	CA-C-O	6.36	127.12	119.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	270	ASP	O-C-N	6.36	129.41	122.15
1	J	454	PHE	CD1-CG-CD2	6.36	128.14	118.60
1	N	13	LYS	CB-CA-C	-6.36	99.25	109.75
1	A	69	SER	N-CA-C	6.36	124.35	110.80
1	E	356	GLU	CB-CA-C	6.36	121.49	110.68
1	F	359	ALA	N-CA-CB	6.36	119.68	110.20
1	H	21	GLN	N-CA-CB	-6.36	99.74	110.49
1	I	164	GLU	CB-CG-CD	6.36	123.41	112.60
1	I	425	ASN	CB-CG-ND2	-6.36	106.86	116.40
1	N	347	ILE	N-CA-CB	6.36	121.72	111.23
1	O	477	ILE	N-CA-CB	6.36	121.72	111.23
1	A	290	SER	O-C-N	6.36	131.05	122.59
1	F	163	ALA	CA-C-O	-6.36	113.99	119.97
1	G	259	ALA	O-C-N	6.36	130.69	122.87
1	H	24	ASN	N-CA-C	-6.36	103.64	111.40
1	H	150	LEU	CA-C-O	6.36	127.04	119.60
1	P	431	ILE	CA-CB-CG1	6.36	121.21	110.40
1	F	202	SER	O-C-N	-6.36	114.14	122.59
1	L	290	SER	CA-CB-OG	6.36	123.81	111.10
1	L	361	ALA	CA-C-O	-6.36	111.56	119.38
1	P	108	GLU	O-C-N	6.36	128.86	122.12
1	F	71	GLU	N-CA-C	6.35	124.33	110.80
1	F	176	GLU	CA-CB-CG	-6.35	101.39	114.10
1	F	239	ILE	CB-CA-C	6.35	121.71	111.29
1	H	54	ASP	CA-CB-CG	6.35	118.95	112.60
1	H	420	ARG	N-CA-C	6.35	119.44	111.24
1	O	9	PRO	CB-CA-C	6.35	122.04	111.56
1	A	173	ILE	CA-CB-CG1	-6.35	99.60	110.40
1	C	215	ASP	CB-CG-OD2	-6.35	103.79	118.40
1	E	388	GLU	N-CA-C	-6.35	102.89	112.04
1	G	233	ALA	O-C-N	6.35	131.02	123.27
1	G	444	ASN	O-C-N	-6.35	113.34	122.36
1	J	32	ALA	CA-C-N	6.35	131.29	121.19
1	J	32	ALA	C-N-CA	6.35	131.29	121.19
1	J	112	ASP	OD1-CG-OD2	-6.35	107.66	122.90
1	L	49	VAL	N-CA-CB	6.35	121.71	111.23
1	L	377	ARG	NH1-CZ-NH2	-6.35	111.04	119.30
1	O	380	SER	CB-CA-C	6.35	123.06	110.42
1	P	178	VAL	CA-CB-CG1	6.35	121.20	110.40
1	P	189	ASP	CB-CA-C	6.35	120.61	110.19
1	C	368	VAL	N-CA-C	6.35	122.55	109.34
1	E	257	SER	CB-CA-C	6.35	121.49	111.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	42	LYS	CB-CA-C	-6.35	99.83	110.56
1	J	289	LYS	CA-CB-CG	6.35	126.80	114.10
1	K	348	ARG	NH1-CZ-NH2	-6.35	111.04	119.30
1	B	215	ASP	CA-CB-CG	6.35	118.95	112.60
1	B	335	GLU	CG-CD-OE2	6.35	133.00	118.40
1	C	491	ASP	CB-CG-OD2	6.35	133.00	118.40
1	D	122	LYS	CB-CA-C	6.35	121.47	110.68
1	D	398	GLU	N-CA-CB	6.35	121.22	110.49
1	D	404	GLU	N-CA-C	6.35	124.32	110.80
1	I	152	LYS	CG-CD-CE	6.35	125.90	111.30
1	J	178	VAL	CA-C-O	-6.35	112.47	119.20
1	O	312	ALA	CB-CA-C	-6.35	100.80	111.02
1	A	81	VAL	N-CA-CB	6.35	122.96	111.98
1	A	136	LYS	CB-CA-C	6.35	123.05	110.42
1	B	233	ALA	CA-C-N	-6.35	113.73	122.93
1	B	233	ALA	C-N-CA	-6.35	113.73	122.93
1	G	147	LYS	N-CA-CB	6.35	119.40	110.07
1	H	136	LYS	CA-C-N	6.35	128.69	120.44
1	H	136	LYS	C-N-CA	6.35	128.69	120.44
1	H	302	ASN	CA-C-O	-6.35	113.46	120.38
1	I	348	ARG	CA-C-O	-6.35	113.79	121.28
1	L	82	ALA	N-CA-CB	6.35	120.34	110.44
1	M	379	VAL	CA-CB-CG1	6.35	121.19	110.40
1	F	72	HIS	CG-ND1-CE1	6.35	120.09	109.30
1	O	216	LYS	CA-C-O	-6.35	113.76	120.80
1	D	116	HIS	ND1-CE1-NE2	-6.34	102.06	108.40
1	E	497	GLU	CA-C-O	-6.34	110.02	120.80
1	K	229	ASP	CA-C-O	6.34	128.56	120.57
1	M	309	ASP	CB-CG-OD2	6.34	132.99	118.40
1	N	110	LEU	CA-C-O	-6.34	111.85	119.27
1	N	349	GLY	O-C-N	-6.34	114.45	122.70
1	P	314	ASP	CA-C-O	-6.34	111.44	120.51
1	D	259	ALA	CA-C-N	6.34	133.66	121.54
1	D	259	ALA	C-N-CA	6.34	133.66	121.54
1	D	484	THR	N-CA-C	6.34	121.09	113.23
1	K	108	GLU	O-C-N	6.34	128.63	122.03
1	K	334	VAL	N-CA-CB	6.34	121.70	111.23
1	P	408	VAL	CA-CB-CG2	6.34	121.18	110.40
1	B	159	THR	CA-CB-OG1	6.34	119.11	109.60
1	D	403	ARG	CA-CB-CG	6.34	126.78	114.10
1	F	122	LYS	O-C-N	6.34	132.56	122.41
1	G	357	GLU	CB-CG-CD	6.34	123.38	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	137	THR	CA-C-O	-6.34	111.85	119.27
1	J	281	ILE	CB-CA-C	-6.34	103.29	110.96
1	K	432	GLU	OE1-CD-OE2	6.34	138.12	122.90
1	L	264	CYS	CA-C-N	6.34	129.30	120.29
1	L	264	CYS	C-N-CA	6.34	129.30	120.29
1	P	452	ASN	OD1-CG-ND2	-6.34	116.26	122.60
1	D	452	ASN	OD1-CG-ND2	-6.34	116.26	122.60
1	G	50	ASP	CA-CB-CG	-6.34	106.26	112.60
1	I	113	GLN	CG-CD-OE1	-6.34	108.12	120.80
1	I	485	GLU	N-CA-C	6.34	120.75	112.89
1	K	172	GLU	O-C-N	-6.34	113.99	122.49
1	E	299	THR	CA-CB-OG1	6.34	119.11	109.60
1	I	422	LEU	CA-C-N	6.34	131.29	120.71
1	I	422	LEU	C-N-CA	6.34	131.29	120.71
1	L	18	ARG	NE-CZ-NH1	6.34	127.84	121.50
1	N	488	LEU	N-CA-C	6.34	120.22	112.23
1	A	336	GLU	O-C-N	6.34	131.41	121.91
1	D	449	ALA	CB-CA-C	6.34	120.00	111.70
1	I	231	LYS	CB-CA-C	6.34	122.18	111.41
1	I	391	MET	O-C-N	6.34	130.63	122.39
1	L	54	ASP	CB-CG-OD1	6.34	132.97	118.40
1	L	232	ILE	CA-C-N	-6.34	112.16	122.81
1	L	232	ILE	C-N-CA	-6.34	112.16	122.81
1	M	250	MET	CB-CA-C	6.34	122.41	109.67
1	N	263	PHE	CA-C-O	-6.34	113.52	120.30
1	O	106	LYS	CA-C-N	6.34	129.09	120.54
1	O	106	LYS	C-N-CA	6.34	129.09	120.54
1	B	460	ASP	O-C-N	6.33	131.02	122.59
1	H	219	VAL	O-C-N	-6.33	115.70	121.91
1	P	180	ALA	N-CA-C	6.33	119.41	111.24
1	P	365	ALA	N-CA-CB	6.33	120.15	110.14
1	B	382	GLY	CA-C-N	6.33	133.82	121.41
1	B	382	GLY	C-N-CA	6.33	133.82	121.41
1	E	32	ALA	N-CA-C	-6.33	104.00	111.03
1	F	32	ALA	O-C-N	-6.33	115.19	122.03
1	F	114	ASN	CA-C-O	-6.33	111.45	120.51
1	F	196	GLU	N-CA-C	6.33	119.46	109.96
1	L	11	ASN	CA-C-N	6.33	133.64	121.54
1	L	11	ASN	C-N-CA	6.33	133.64	121.54
1	L	282	VAL	CA-C-O	-6.33	115.10	122.13
1	L	441	HIS	N-CA-C	6.33	121.25	112.45
1	N	107	ALA	O-C-N	6.33	130.06	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	51	ASP	N-CA-CB	6.33	121.19	110.49
1	A	237	CYS	O-C-N	-6.33	110.92	122.44
1	B	187	LYS	CB-CA-C	6.33	119.89	110.14
1	B	300	GLY	N-CA-C	6.33	124.88	115.64
1	C	349	GLY	O-C-N	-6.33	114.47	122.70
1	C	405	GLN	CG-CD-OE1	-6.33	108.14	120.80
1	F	51	ASP	CA-C-N	6.33	129.06	120.38
1	F	51	ASP	C-N-CA	6.33	129.06	120.38
1	F	55	VAL	N-CA-C	6.33	117.88	107.24
1	I	477	ILE	CA-C-O	-6.33	113.94	120.71
1	L	164	GLU	CA-C-N	6.33	133.63	121.54
1	L	164	GLU	C-N-CA	6.33	133.63	121.54
1	C	414	ALA	CA-C-N	6.33	133.63	121.54
1	C	414	ALA	C-N-CA	6.33	133.63	121.54
1	H	338	LYS	CG-CD-CE	6.33	125.86	111.30
1	H	373	ILE	N-CA-CB	6.33	117.96	110.55
1	I	236	ASN	CA-C-N	6.33	131.46	122.09
1	I	236	ASN	C-N-CA	6.33	131.46	122.09
1	K	396	TYR	CD1-CE1-CZ	6.33	130.99	119.60
1	N	313	GLN	CA-C-N	6.33	133.63	121.54
1	N	313	GLN	C-N-CA	6.33	133.63	121.54
1	B	222	GLN	CA-C-O	-6.33	114.35	121.00
1	D	454	PHE	O-C-N	6.33	129.58	122.11
1	G	198	LYS	N-CA-C	6.33	118.76	108.26
1	L	26	LEU	O-C-N	-6.33	114.83	122.11
1	M	483	SER	CA-C-O	6.33	127.72	120.00
1	N	70	VAL	N-CA-CB	-6.33	102.53	110.31
1	A	483	SER	CA-CB-OG	6.33	123.75	111.10
1	B	294	LYS	N-CA-C	6.33	121.24	112.45
1	C	58	THR	CB-CA-C	-6.33	98.58	110.16
1	G	295	LEU	CA-C-N	6.33	129.05	120.38
1	G	295	LEU	C-N-CA	6.33	129.05	120.38
1	L	21	GLN	OE1-CD-NE2	6.33	128.93	122.60
1	O	133	GLU	CG-CD-OE2	-6.33	103.85	118.40
1	P	421	THR	N-CA-C	6.33	118.18	111.28
1	B	249	ASP	N-CA-C	-6.33	105.05	112.89
1	C	281	ILE	CA-C-O	-6.33	113.64	120.85
1	D	450	GLY	CA-C-O	-6.33	115.31	122.33
1	H	145	GLN	OE1-CD-NE2	-6.33	116.27	122.60
1	J	65	LEU	CA-C-O	6.33	127.32	120.55
1	J	461	MET	O-C-N	-6.33	115.42	122.12
1	L	295	LEU	CA-C-O	-6.33	113.78	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	262	LEU	CA-C-O	6.32	128.32	120.54
1	B	399	GLY	O-C-N	6.32	130.92	122.70
1	C	311	SER	N-CA-C	6.32	117.91	107.73
1	F	415	LEU	N-CA-CB	6.32	121.18	110.49
1	K	178	VAL	CA-CB-CG2	6.32	121.15	110.40
1	L	335	GLU	N-CA-C	6.32	119.87	109.94
1	N	444	ASN	CA-C-O	-6.32	111.95	119.35
1	O	373	ILE	CA-CB-CG1	6.32	121.15	110.40
1	A	463	GLU	CA-C-N	-6.32	112.31	120.65
1	A	463	GLU	C-N-CA	-6.32	112.31	120.65
1	B	253	GLU	CA-C-N	6.32	128.53	120.56
1	B	253	GLU	C-N-CA	6.32	128.53	120.56
1	B	407	ALA	CA-C-O	-6.32	114.39	120.90
1	C	303	VAL	N-CA-C	6.32	122.49	109.34
1	J	8	LEU	O-C-N	-6.32	115.76	121.39
1	B	403	ARG	NE-CZ-NH1	-6.32	115.18	121.50
1	E	317	ASP	N-CA-CB	6.32	121.09	110.79
1	I	313	GLN	O-C-N	-6.32	114.18	122.59
1	G	283	ALA	CA-C-N	6.32	132.08	123.11
1	G	283	ALA	C-N-CA	6.32	132.08	123.11
1	H	134	LEU	N-CA-C	6.32	118.17	111.28
1	N	25	ILE	N-CA-CB	-6.32	103.99	110.62
1	P	397	ALA	CA-C-O	-6.32	111.47	120.51
1	A	17	GLY	O-C-N	-6.32	115.69	122.95
1	A	223	MET	O-C-N	-6.32	115.68	121.30
1	A	367	GLY	N-CA-C	6.32	120.13	112.49
1	B	431	ILE	CB-CG1-CD1	6.32	127.06	113.80
1	E	146	ASP	CA-C-N	6.32	128.74	120.28
1	E	146	ASP	C-N-CA	6.32	128.74	120.28
1	E	177	ALA	CA-C-O	-6.32	112.96	120.10
1	E	470	LEU	CA-C-O	-6.32	112.42	120.31
1	F	23	MET	O-C-N	6.32	128.81	122.12
1	G	87	LYS	N-CA-CB	6.32	119.53	110.06
1	J	439	ALA	CA-C-O	-6.32	111.61	119.38
1	N	107	ALA	CA-C-O	-6.32	112.71	119.97
1	C	54	ASP	CB-CA-C	6.31	119.59	109.61
1	D	41	PRO	CA-C-N	6.31	132.83	121.15
1	D	41	PRO	C-N-CA	6.31	132.83	121.15
1	H	244	SER	CA-C-N	6.31	130.36	120.89
1	H	244	SER	C-N-CA	6.31	130.36	120.89
1	I	195	ILE	O-C-N	-6.31	114.68	122.57
1	A	14	ARG	CA-C-N	6.31	133.59	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	14	ARG	C-N-CA	6.31	133.59	121.54
1	B	356	GLU	CB-CG-CD	6.31	123.33	112.60
1	B	457	ALA	N-CA-CB	-6.31	99.82	110.49
1	C	44	MET	CA-C-O	-6.31	114.17	121.49
1	C	310	LEU	O-C-N	6.31	130.67	122.97
1	D	22	ARG	O-C-N	6.31	129.37	122.11
1	D	134	LEU	N-CA-C	6.31	117.96	111.14
1	D	403	ARG	CD-NE-CZ	-6.31	115.56	124.40
1	K	348	ARG	NE-CZ-NH1	-6.31	115.19	121.50
1	L	132	GLN	OE1-CD-NE2	-6.31	116.29	122.60
1	O	494	ILE	N-CA-CB	6.31	121.64	111.23
1	P	275	TYR	CD1-CG-CD2	-6.31	108.63	118.10
1	I	323	GLU	CA-C-N	6.31	131.71	123.00
1	I	323	GLU	C-N-CA	6.31	131.71	123.00
1	L	223	MET	O-C-N	-6.31	114.06	121.32
1	O	342	ALA	CB-CA-C	-6.31	96.76	111.09
1	P	285	ARG	CB-CA-C	-6.31	97.64	111.71
1	A	378	ILE	N-CA-C	6.31	116.96	107.75
1	A	436	LYS	N-CA-CB	-6.31	100.86	110.26
1	B	461	MET	N-CA-CB	6.31	119.41	109.82
1	C	402	GLY	O-C-N	-6.31	114.50	122.70
1	C	454	PHE	CB-CA-C	-6.31	98.20	109.24
1	D	433	ILE	CA-CB-CG2	6.31	121.23	110.50
1	H	133	GLU	OE1-CD-OE2	6.31	138.04	122.90
1	N	471	ARG	CD-NE-CZ	-6.31	115.57	124.40
1	B	113	GLN	CB-CA-C	-6.31	97.87	110.42
1	C	240	GLU	CG-CD-OE1	6.31	132.91	118.40
1	D	67	GLU	CB-CA-C	-6.31	100.19	110.79
1	D	215	ASP	O-C-N	6.31	130.49	121.97
1	F	454	PHE	O-C-N	6.31	129.80	122.17
1	I	257	SER	N-CA-CB	6.31	121.15	110.49
1	M	405	GLN	CG-CD-NE2	6.31	125.86	116.40
1	O	14	ARG	CA-CB-CG	6.31	126.71	114.10
1	D	265	GLN	CG-CD-NE2	-6.31	106.94	116.40
1	F	251	VAL	CA-CB-CG1	-6.31	99.68	110.40
1	P	80	GLU	CA-CB-CG	6.31	126.71	114.10
1	A	461	MET	O-C-N	6.30	129.39	122.20
1	C	484	THR	CA-CB-CG2	-6.30	99.78	110.50
1	F	458	VAL	CA-C-N	6.30	132.42	122.21
1	F	458	VAL	C-N-CA	6.30	132.42	122.21
1	G	325	LYS	O-C-N	-6.30	115.11	122.87
1	K	486	MET	N-CA-C	-6.30	104.33	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	181	VAL	CA-C-O	-6.30	113.87	121.18
1	O	395	GLU	CA-C-O	6.30	127.25	119.05
1	P	304	ILE	O-C-N	-6.30	115.50	122.69
1	A	183	ASP	CA-C-O	-6.30	113.84	121.28
1	C	427	GLY	CA-C-O	6.30	126.16	119.04
1	J	32	ALA	CA-C-O	6.30	127.43	119.61
1	A	61	GLY	N-CA-C	6.30	128.12	113.18
1	F	47	MET	CB-CA-C	-6.30	100.70	111.41
1	G	413	ASP	CA-C-O	6.30	127.24	119.05
1	J	359	ALA	O-C-N	6.30	130.77	122.33
1	K	418	ILE	N-CA-C	6.30	121.75	112.61
1	N	148	GLU	O-C-N	-6.30	115.54	122.09
1	P	305	THR	CA-C-O	6.30	129.52	120.51
1	A	373	ILE	N-CA-CB	6.30	121.62	111.23
1	C	293	GLU	CB-CG-CD	-6.30	101.89	112.60
1	D	48	LEU	N-CA-CB	6.30	119.86	110.29
1	E	116	HIS	N-CA-CB	6.30	121.58	110.37
1	F	210	LYS	CB-CG-CD	6.30	125.79	111.30
1	G	466	VAL	CG1-CB-CG2	-6.30	96.94	110.80
1	I	287	VAL	CA-C-O	-6.30	113.33	120.95
1	J	489	ARG	N-CA-C	6.30	124.22	110.80
1	K	223	MET	CA-C-O	6.30	125.35	119.24
1	K	431	ILE	N-CA-C	6.30	119.86	111.17
1	O	218	ARG	NH1-CZ-NH2	-6.30	111.11	119.30
1	P	41	PRO	O-C-N	6.30	131.15	122.64
1	P	362	VAL	CB-CA-C	6.30	119.88	111.94
1	E	170	LEU	CD1-CG-CD2	6.30	124.66	110.80
1	L	218	ARG	CD-NE-CZ	6.30	133.22	124.40
1	M	236	ASN	OD1-CG-ND2	6.30	128.90	122.60
1	B	159	THR	CA-CB-CG2	6.30	121.20	110.50
1	C	394	ARG	NE-CZ-NH2	-6.30	113.53	119.20
1	D	318	ALA	N-CA-C	6.30	117.91	107.20
1	E	284	ALA	O-C-N	6.30	130.64	123.27
1	E	314	ASP	CA-C-O	6.30	129.51	120.51
1	G	124	TYR	CG-CD2-CE2	6.30	130.64	121.20
1	I	233	ALA	CB-CA-C	-6.30	100.44	110.14
1	J	342	ALA	CB-CA-C	-6.30	97.89	110.42
1	K	86	GLU	CB-CG-CD	6.30	123.31	112.60
1	M	116	HIS	CB-CG-CD2	6.30	139.38	131.20
1	O	207	GLU	N-CA-CB	6.30	120.08	110.70
1	P	178	VAL	N-CA-CB	6.30	120.03	110.58
1	A	116	HIS	CG-CD2-NE2	-6.29	100.91	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	149	ILE	N-CA-C	6.29	118.96	111.09
1	A	446	ASN	N-CA-C	6.29	124.21	110.80
1	D	199	SER	O-C-N	-6.29	114.64	122.82
1	G	325	LYS	N-CA-CB	6.29	119.34	109.83
1	H	241	GLU	O-C-N	-6.29	114.72	123.34
1	I	66	ARG	CA-C-O	-6.29	111.51	120.51
1	I	254	ILE	CA-C-N	6.29	133.56	121.54
1	I	254	ILE	C-N-CA	6.29	133.56	121.54
1	K	10	GLU	CA-CB-CG	6.29	126.69	114.10
1	K	76	LYS	CG-CD-CE	-6.29	96.82	111.30
1	O	202	SER	CA-C-O	6.29	129.84	121.47
1	P	227	VAL	O-C-N	6.29	129.98	123.18
1	C	303	VAL	CA-C-O	-6.29	112.91	120.78
1	H	152	LYS	CB-CA-C	6.29	121.24	110.86
1	K	335	GLU	O-C-N	6.29	131.09	123.16
1	L	9	PRO	CA-N-CD	-6.29	103.19	112.00
1	N	76	LYS	N-CA-C	6.29	120.16	112.23
1	O	279	GLU	O-C-N	-6.29	114.97	122.27
1	O	426	ALA	N-CA-CB	-6.29	99.85	110.49
1	P	12	MET	O-C-N	-6.29	114.75	122.55
1	P	477	ILE	O-C-N	-6.29	112.60	122.04
1	A	140	CYS	CA-CB-SG	6.29	128.87	114.40
1	A	388	GLU	N-CA-CB	6.29	119.47	110.16
1	B	12	MET	CA-C-N	6.29	133.33	122.64
1	B	12	MET	C-N-CA	6.29	133.33	122.64
1	B	451	LEU	N-CA-C	6.29	117.41	108.54
1	H	417	VAL	CA-CB-CG1	-6.29	99.70	110.40
1	I	477	ILE	O-C-N	-6.29	113.54	121.84
1	L	77	MET	CA-C-O	6.29	127.03	119.10
1	N	144	ALA	N-CA-C	6.29	124.20	110.80
1	D	246	MET	CA-CB-CG	6.29	126.68	114.10
1	F	67	GLU	CA-C-N	6.29	133.55	121.54
1	F	67	GLU	C-N-CA	6.29	133.55	121.54
1	H	348	ARG	NE-CZ-NH2	-6.29	113.54	119.20
1	J	212	VAL	N-CA-CB	6.29	121.30	111.99
1	O	261	VAL	CA-CB-CG2	6.29	121.09	110.40
1	D	495	ALA	N-CA-C	6.29	117.73	108.86
1	I	178	VAL	CA-C-O	-6.29	113.68	120.47
1	I	198	LYS	CA-C-O	-6.29	114.54	121.33
1	J	256	ALA	CA-C-N	6.29	133.55	121.54
1	J	256	ALA	C-N-CA	6.29	133.55	121.54
1	L	289	LYS	CA-C-O	6.29	127.24	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	387	VAL	CA-C-N	6.29	131.21	120.71
1	N	387	VAL	C-N-CA	6.29	131.21	120.71
1	P	224	PRO	CA-N-CD	-6.29	103.20	112.00
1	C	482	GLU	CB-CG-CD	6.29	123.29	112.60
1	M	28	GLY	O-C-N	-6.29	114.53	122.70
1	N	412	ALA	CA-C-O	-6.29	112.17	119.78
1	O	437	VAL	CA-CB-CG2	6.29	121.09	110.40
1	D	296	ALA	O-C-N	-6.29	113.04	122.28
1	G	291	ASP	CA-C-N	6.29	128.70	120.28
1	G	291	ASP	C-N-CA	6.29	128.70	120.28
1	H	95	THR	CB-CA-C	6.29	121.35	110.79
1	H	99	VAL	N-CA-C	6.29	122.41	109.34
1	I	452	ASN	CB-CA-C	-6.29	97.91	110.42
1	J	37	SER	CA-CB-OG	6.29	123.67	111.10
1	J	80	GLU	O-C-N	6.29	131.34	122.41
1	P	107	ALA	CA-C-N	6.29	128.70	120.28
1	P	107	ALA	C-N-CA	6.29	128.70	120.28
1	P	418	ILE	CB-CG1-CD1	6.29	127.00	113.80
1	D	181	VAL	CA-CB-CG1	6.28	121.08	110.40
1	D	237	CYS	N-CA-CB	6.28	120.66	110.42
1	N	142	VAL	CA-CB-CG1	6.28	121.08	110.40
1	N	458	VAL	CA-CB-CG1	6.28	121.08	110.40
1	N	470	LEU	CA-C-O	-6.28	112.31	119.41
1	O	209	ILE	CA-C-N	6.28	133.54	121.54
1	O	209	ILE	C-N-CA	6.28	133.54	121.54
1	B	460	ASP	CA-C-O	-6.28	111.53	120.51
1	D	87	LYS	N-CA-CB	6.28	120.02	109.78
1	E	228	THR	N-CA-C	-6.28	101.68	110.35
1	F	422	LEU	CB-CA-C	6.28	122.25	110.63
1	G	79	ILE	N-CA-CB	6.28	120.00	110.58
1	C	454	PHE	CD1-CG-CD2	-6.28	109.18	118.60
1	D	56	VAL	CA-C-O	-6.28	112.93	120.78
1	D	255	LYS	CA-C-O	6.28	127.09	119.49
1	D	338	LYS	CA-C-N	6.28	129.92	122.89
1	D	338	LYS	C-N-CA	6.28	129.92	122.89
1	F	306	ASN	OD1-CG-ND2	-6.28	116.32	122.60
1	G	318	ALA	CA-C-N	6.28	127.06	120.03
1	G	318	ALA	C-N-CA	6.28	127.06	120.03
1	N	476	ALA	CA-C-O	-6.28	113.89	120.55
1	G	210	LYS	CA-C-O	-6.28	111.53	120.51
1	I	225	LYS	O-C-N	-6.28	114.24	122.59
1	M	158	ILE	N-CA-C	6.28	122.40	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	347	ILE	CA-CB-CG2	-6.28	99.83	110.50
1	C	414	ALA	N-CA-CB	6.28	119.97	110.30
1	D	28	GLY	CA-C-N	6.28	130.74	120.63
1	D	28	GLY	C-N-CA	6.28	130.74	120.63
1	E	228	THR	O-C-N	-6.28	113.88	122.23
1	G	215	ASP	CA-CB-CG	6.28	118.88	112.60
1	G	493	VAL	CA-C-N	6.28	131.15	122.93
1	G	493	VAL	C-N-CA	6.28	131.15	122.93
1	K	353	HIS	CA-C-O	-6.28	114.41	121.00
1	L	314	ASP	OD1-CG-OD2	-6.28	107.83	122.90
1	N	67	GLU	O-C-N	-6.28	114.24	122.59
1	P	192	LEU	CB-CA-C	6.28	122.29	109.67
1	C	224	PRO	O-C-N	-6.28	114.17	122.64
1	C	416	GLU	N-CA-CB	6.28	120.10	110.81
1	C	488	LEU	N-CA-C	6.28	118.12	111.28
1	D	94	THR	O-C-N	-6.28	114.24	122.59
1	E	62	VAL	CB-CA-C	-6.28	103.56	112.22
1	F	94	THR	CA-C-O	-6.28	113.17	120.20
1	F	219	VAL	CA-CB-CG1	6.28	121.07	110.40
1	K	72	HIS	O-C-N	-6.28	115.55	121.20
1	K	159	THR	OG1-CB-CG2	6.28	121.85	109.30
1	P	63	THR	CA-CB-CG2	6.28	121.17	110.50
1	P	202	SER	CA-CB-OG	6.28	123.65	111.10
1	G	15	TYR	N-CA-CB	6.27	121.66	110.80
1	I	30	ILE	CB-CG1-CD1	6.27	126.97	113.80
1	I	68	MET	N-CA-C	6.27	124.16	110.80
1	M	433	ILE	O-C-N	6.27	128.29	121.83
1	O	203	ILE	CA-C-N	6.27	133.52	122.42
1	O	203	ILE	C-N-CA	6.27	133.52	122.42
1	A	393	LEU	O-C-N	-6.27	114.20	122.42
1	C	93	THR	N-CA-C	-6.27	104.13	110.97
1	C	370	GLY	O-C-N	6.27	130.12	122.84
1	E	59	ASN	O-C-N	-6.27	113.97	122.19
1	G	228	THR	N-CA-CB	6.27	121.09	110.49
1	J	119	ILE	CB-CA-C	-6.27	101.00	111.29
1	J	155	MET	CA-C-N	6.27	128.97	120.38
1	J	155	MET	C-N-CA	6.27	128.97	120.38
1	O	153	ILE	CB-CA-C	-6.27	102.10	112.26
1	A	229	ASP	CA-C-O	-6.27	114.21	120.98
1	A	420	ARG	N-CA-C	6.27	117.91	111.14
1	C	215	ASP	CA-CB-CG	6.27	118.87	112.60
1	G	247	LEU	CA-C-N	6.27	133.06	121.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	247	LEU	C-N-CA	6.27	133.06	121.52
1	D	210	LYS	CB-CA-C	6.27	122.90	110.42
1	D	340	PRO	O-C-N	-6.27	114.18	122.64
1	E	23	MET	CA-C-O	-6.27	111.54	120.51
1	H	131	ALA	CB-CA-C	6.27	122.42	109.95
1	J	392	LYS	CA-C-N	-6.27	111.03	122.38
1	J	392	LYS	C-N-CA	-6.27	111.03	122.38
1	L	287	VAL	CB-CA-C	6.27	118.69	110.91
1	L	417	VAL	O-C-N	6.27	130.41	122.57
1	M	357	GLU	CB-CG-CD	6.27	123.26	112.60
1	D	87	LYS	CA-C-N	6.27	133.51	121.54
1	D	87	LYS	C-N-CA	6.27	133.51	121.54
1	E	444	ASN	CB-CG-OD1	-6.27	108.27	120.80
1	G	34	THR	CA-C-O	6.27	129.47	120.51
1	H	14	ARG	CA-C-O	-6.27	112.57	120.28
1	I	474	THR	CA-CB-OG1	6.27	119.00	109.60
1	L	187	LYS	CB-CA-C	6.27	122.09	109.68
1	M	264	CYS	O-C-N	6.27	130.66	123.27
1	O	238	ALA	CA-C-O	-6.27	111.55	120.51
1	O	490	ILE	CA-C-O	-6.27	112.95	120.78
1	P	291	ASP	N-CA-CB	6.27	119.87	110.22
1	D	54	ASP	CB-CG-OD1	6.27	132.81	118.40
1	I	52	LEU	CA-C-O	-6.27	112.40	119.79
1	L	315	LEU	N-CA-CB	6.27	120.88	110.85
1	M	59	ASN	CB-CG-OD1	6.27	133.33	120.80
1	P	270	ASP	N-CA-CB	6.27	121.08	110.49
1	G	280	GLY	N-CA-C	6.26	124.88	114.48
1	H	359	ALA	N-CA-C	6.26	119.09	111.82
1	J	54	ASP	CA-C-N	-6.26	114.23	122.94
1	J	54	ASP	C-N-CA	-6.26	114.23	122.94
1	N	319	GLY	O-C-N	-6.26	115.60	122.68
1	P	174	ILE	CA-C-O	-6.26	114.59	121.29
1	B	19	ASP	N-CA-C	6.26	124.14	110.80
1	C	302	ASN	CA-C-N	6.26	133.24	121.97
1	C	302	ASN	C-N-CA	6.26	133.24	121.97
1	D	420	ARG	N-CA-C	-6.26	103.16	111.24
1	G	202	SER	O-C-N	-6.26	115.90	123.10
1	K	461	MET	O-C-N	-6.26	114.26	122.59
1	O	319	GLY	CA-C-O	-6.26	109.67	120.57
1	C	420	ARG	CA-C-O	-6.26	113.29	120.24
1	I	190	LYS	CA-C-O	6.26	127.37	120.80
1	I	260	ASN	N-CA-C	6.26	120.18	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	83	LYS	N-CA-CB	6.26	119.06	109.98
1	M	205	ASP	OD1-CG-OD2	-6.26	107.88	122.90
1	N	7	VAL	CB-CA-C	-6.26	99.50	111.40
1	N	129	GLN	CA-C-N	6.26	129.52	120.38
1	N	129	GLN	C-N-CA	6.26	129.52	120.38
1	O	116	HIS	CB-CG-ND1	6.26	132.09	122.70
1	P	401	SER	CA-C-N	6.26	133.68	121.41
1	P	401	SER	C-N-CA	6.26	133.68	121.41
1	B	32	ALA	O-C-N	-6.26	113.08	122.28
1	B	307	ILE	CA-CB-CG2	6.26	121.14	110.50
1	J	173	ILE	CA-C-O	-6.26	112.09	119.85
1	K	96	ALA	O-C-N	-6.26	114.63	122.20
1	L	371	CYS	CA-C-O	-6.26	111.43	121.94
1	B	271	LEU	CB-CA-C	6.26	122.25	109.55
1	E	151	THR	CA-C-O	-6.26	111.55	119.31
1	F	436	LYS	CA-C-O	-6.26	114.25	120.70
1	H	190	LYS	O-C-N	-6.26	114.80	122.25
1	J	370	GLY	O-C-N	-6.26	113.86	122.68
1	N	184	ASP	N-CA-CB	-6.26	102.44	111.70
1	N	257	SER	N-CA-CB	6.26	121.06	110.49
1	O	422	LEU	N-CA-CB	6.26	120.96	110.32
1	P	201	ALA	CA-C-N	6.26	132.37	122.36
1	P	201	ALA	C-N-CA	6.26	132.37	122.36
1	G	219	VAL	O-C-N	-6.25	114.75	122.57
1	I	455	THR	OG1-CB-CG2	6.25	121.81	109.30
1	N	142	VAL	CA-C-N	6.25	133.67	121.41
1	N	142	VAL	C-N-CA	6.25	133.67	121.41
1	C	23	MET	N-CA-C	6.25	124.12	110.80
1	C	59	ASN	OD1-CG-ND2	-6.25	116.35	122.60
1	D	95	THR	N-CA-CB	6.25	119.38	110.13
1	F	160	GLY	CA-C-N	-6.25	112.46	122.53
1	F	160	GLY	C-N-CA	-6.25	112.46	122.53
1	J	346	LEU	N-CA-CB	6.25	119.17	109.48
1	K	116	HIS	CB-CA-C	6.25	122.49	110.17
1	K	260	ASN	CA-C-N	6.25	132.63	122.69
1	K	260	ASN	C-N-CA	6.25	132.63	122.69
1	L	165	LYS	CA-C-O	6.25	129.45	120.51
1	P	58	THR	N-CA-C	6.25	118.68	109.24
1	P	188	VAL	CG1-CB-CG2	-6.25	97.04	110.80
1	P	210	LYS	N-CA-C	6.25	124.12	110.80
1	A	205	ASP	CA-CB-CG	6.25	118.85	112.60
1	D	403	ARG	NE-CZ-NH1	-6.25	115.25	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	181	VAL	N-CA-C	6.25	117.81	111.00
1	H	265	GLN	O-C-N	-6.25	115.02	122.15
1	I	437	VAL	CB-CA-C	-6.25	103.59	112.22
1	K	141	GLU	N-CA-CB	6.25	119.63	109.69
1	K	294	LYS	CB-CA-C	6.25	120.64	110.95
1	L	461	MET	N-CA-C	6.25	124.12	110.80
1	N	105	ARG	CG-CD-NE	6.25	125.75	112.00
1	N	358	VAL	CA-CB-CG2	6.25	121.03	110.40
1	P	230	ALA	N-CA-C	6.25	124.11	110.80
1	H	433	ILE	O-C-N	6.25	128.40	121.90
1	O	215	ASP	O-C-N	6.25	130.90	122.59
1	B	109	GLU	OE1-CD-OE2	6.25	137.90	122.90
1	D	35	VAL	CA-C-O	-6.25	112.97	120.78
1	L	378	ILE	CA-C-N	-6.25	114.33	122.51
1	L	378	ILE	C-N-CA	-6.25	114.33	122.51
1	A	114	ASN	N-CA-C	6.25	124.11	110.80
1	A	438	ARG	NH1-CZ-NH2	-6.25	111.18	119.30
1	B	396	TYR	CB-CG-CD1	-6.25	111.43	120.80
1	E	190	LYS	CB-CG-CD	6.25	125.67	111.30
1	F	221	ALA	O-C-N	6.25	128.74	122.12
1	H	12	MET	O-C-N	-6.25	114.28	122.59
1	H	387	VAL	O-C-N	6.25	127.93	121.87
1	H	493	VAL	N-CA-C	6.25	115.34	106.53
1	K	459	GLU	CA-CB-CG	6.25	126.59	114.10
1	C	10	GLU	CG-CD-OE2	-6.25	104.04	118.40
1	D	288	LYS	CA-C-N	6.25	130.19	120.82
1	D	288	LYS	C-N-CA	6.25	130.19	120.82
1	D	354	VAL	CA-C-N	6.25	133.21	121.97
1	D	354	VAL	C-N-CA	6.25	133.21	121.97
1	G	34	THR	OG1-CB-CG2	6.25	121.79	109.30
1	G	332	ILE	CA-C-N	6.25	131.99	122.93
1	G	332	ILE	C-N-CA	6.25	131.99	122.93
1	J	68	MET	CA-C-N	6.25	133.47	121.54
1	J	68	MET	C-N-CA	6.25	133.47	121.54
1	J	103	LEU	CA-C-O	-6.25	110.94	119.12
1	O	300	GLY	O-C-N	6.25	130.82	122.70
1	P	147	LYS	N-CA-C	6.25	124.10	110.80
1	B	23	MET	CA-C-N	-6.24	110.21	121.14
1	B	23	MET	C-N-CA	-6.24	110.21	121.14
1	F	171	ALA	CA-C-O	6.24	127.10	119.11
1	F	254	ILE	O-C-N	6.24	130.74	122.12
1	G	12	MET	N-CA-CB	-6.24	99.94	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	325	LYS	CA-C-O	-6.24	113.19	120.62
1	H	387	VAL	CA-C-O	-6.24	114.46	120.95
1	N	158	ILE	CA-CB-CG1	6.24	121.02	110.40
1	N	374	GLU	CG-CD-OE2	6.24	132.76	118.40
1	P	428	LEU	N-CA-C	6.24	120.25	110.32
1	F	198	LYS	CA-C-O	-6.24	111.60	120.15
1	F	410	ALA	O-C-N	-6.24	114.11	122.23
1	G	183	ASP	N-CA-CB	6.24	120.82	110.52
1	A	260	ASN	CA-C-O	6.24	127.05	119.31
1	C	110	LEU	CA-C-O	6.24	127.55	121.00
1	C	201	ALA	CB-CA-C	6.24	122.84	110.42
1	C	288	LYS	CA-C-O	-6.24	113.74	120.92
1	D	21	GLN	N-CA-C	6.24	117.75	111.07
1	D	278	LYS	CA-CB-CG	6.24	126.58	114.10
1	D	347	ILE	N-CA-C	6.24	116.64	106.72
1	J	79	ILE	CA-CB-CG1	6.24	121.01	110.40
1	J	290	SER	CA-C-O	-6.24	113.94	120.55
1	N	24	ASN	OD1-CG-ND2	6.24	128.84	122.60
1	O	329	ASP	CA-CB-CG	6.24	118.84	112.60
1	G	189	ASP	CA-CB-CG	6.24	118.84	112.60
1	J	170	LEU	CB-CA-C	-6.24	96.95	109.99
1	L	432	GLU	CA-CB-CG	6.24	126.58	114.10
1	A	94	THR	N-CA-C	-6.24	104.58	111.82
1	J	200	GLY	CA-C-O	-6.24	109.72	120.57
1	K	282	VAL	N-CA-CB	6.24	121.73	111.38
1	M	61	GLY	CA-C-O	-6.24	114.05	120.66
1	M	317	ASP	CB-CG-OD1	6.24	132.75	118.40
1	O	65	LEU	N-CA-CB	6.24	119.39	110.16
1	A	140	CYS	CA-C-O	6.24	127.18	120.32
1	B	241	GLU	O-C-N	-6.24	114.40	122.94
1	D	242	THR	CA-C-O	-6.24	113.20	120.62
1	F	420	ARG	CD-NE-CZ	-6.24	115.67	124.40
1	G	315	LEU	N-CA-C	6.24	119.70	109.72
1	H	259	ALA	CA-C-O	-6.24	113.91	120.58
1	H	430	ALA	N-CA-C	6.24	124.08	110.80
1	L	7	VAL	N-CA-CB	6.24	122.10	111.50
1	N	295	LEU	N-CA-CB	6.24	119.90	110.30
1	P	149	ILE	N-CA-C	6.23	120.77	112.04
1	A	109	GLU	CB-CG-CD	-6.23	102.00	112.60
1	B	278	LYS	N-CA-C	6.23	124.08	110.80
1	C	273	GLN	N-CA-C	6.23	118.87	111.33
1	C	346	LEU	O-C-N	-6.23	115.29	122.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	395	GLU	N-CA-C	-6.23	105.16	112.89
1	D	110	LEU	CB-CA-C	6.23	119.84	109.56
1	I	368	VAL	CA-C-N	6.23	129.65	120.74
1	I	368	VAL	C-N-CA	6.23	129.65	120.74
1	K	298	ALA	CA-C-N	6.23	133.44	121.54
1	K	298	ALA	C-N-CA	6.23	133.44	121.54
1	N	408	VAL	CA-C-N	6.23	129.11	120.63
1	N	408	VAL	C-N-CA	6.23	129.11	120.63
1	P	452	ASN	CB-CG-ND2	6.23	125.75	116.40
1	B	425	ASN	O-C-N	-6.23	114.31	122.59
1	P	383	GLY	CA-C-N	6.23	133.44	121.54
1	P	383	GLY	C-N-CA	6.23	133.44	121.54
1	B	51	ASP	CA-C-N	6.23	133.65	122.06
1	B	51	ASP	C-N-CA	6.23	133.65	122.06
1	D	398	GLU	CB-CA-C	6.23	122.82	110.42
1	L	214	VAL	CA-CB-CG2	6.23	120.99	110.40
1	A	490	ILE	CG1-CB-CG2	6.23	129.38	110.70
1	B	301	ALA	CA-C-O	-6.23	115.02	121.87
1	E	245	GLU	CB-CA-C	6.23	122.81	110.42
1	E	313	GLN	N-CA-C	6.23	120.74	111.96
1	F	155	MET	CA-C-N	6.23	129.47	120.38
1	F	155	MET	C-N-CA	6.23	129.47	120.38
1	G	66	ARG	CA-C-N	6.23	129.13	120.29
1	G	66	ARG	C-N-CA	6.23	129.13	120.29
1	G	371	CYS	CA-C-N	6.23	133.44	121.54
1	G	371	CYS	C-N-CA	6.23	133.44	121.54
1	N	230	ALA	CA-C-O	6.23	128.20	121.16
1	P	53	GLY	CA-C-N	6.23	131.16	121.26
1	P	53	GLY	C-N-CA	6.23	131.16	121.26
1	C	87	LYS	CA-C-N	6.23	133.43	121.54
1	C	87	LYS	C-N-CA	6.23	133.43	121.54
1	K	265	GLN	CB-CG-CD	6.23	123.18	112.60
1	M	466	VAL	N-CA-C	6.23	122.29	109.34
1	O	8	LEU	N-CA-C	-6.23	101.04	110.50
1	A	489	ARG	NH1-CZ-NH2	6.22	127.39	119.30
1	D	354	VAL	N-CA-CB	6.22	124.12	111.05
1	I	451	LEU	N-CA-CB	6.22	122.85	111.96
1	J	371	CYS	CA-C-N	6.22	134.76	122.31
1	J	371	CYS	C-N-CA	6.22	134.76	122.31
1	L	49	VAL	O-C-N	6.22	130.35	122.57
1	L	212	VAL	CA-CB-CG1	6.22	120.98	110.40
1	N	219	VAL	N-CA-C	6.22	122.29	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	112	ASP	CB-CG-OD2	6.22	132.72	118.40
1	B	111	LEU	N-CA-CB	6.22	120.90	110.32
1	B	337	CYS	CA-C-O	6.22	129.41	120.51
1	E	131	ALA	CA-C-N	6.22	128.94	120.54
1	E	131	ALA	C-N-CA	6.22	128.94	120.54
1	F	39	LEU	N-CA-C	6.22	119.65	109.76
1	F	363	ASP	O-C-N	-6.22	115.52	122.12
1	J	377	ARG	CA-C-O	-6.22	111.81	120.21
1	J	466	VAL	O-C-N	-6.22	114.79	122.57
1	K	472	VAL	CA-C-O	-6.22	113.00	120.78
1	L	429	ASP	CA-CB-CG	6.22	118.82	112.60
1	M	72	HIS	CA-C-N	6.22	127.62	119.84
1	M	72	HIS	C-N-CA	6.22	127.62	119.84
1	P	223	MET	N-CA-C	6.22	123.56	109.81
1	P	289	LYS	N-CA-C	6.22	117.73	111.07
1	D	68	MET	O-C-N	-6.22	113.58	122.29
1	I	79	ILE	CA-CB-CG2	6.22	121.08	110.50
1	I	148	GLU	N-CA-CB	6.22	118.99	109.91
1	J	285	ARG	O-C-N	6.22	130.25	123.10
1	J	380	SER	CA-CB-OG	-6.22	98.66	111.10
1	K	417	VAL	CA-C-O	-6.22	113.96	121.18
1	N	281	ILE	CB-CA-C	-6.22	102.46	110.98
1	N	340	PRO	CA-C-O	-6.22	109.28	120.60
1	A	340	PRO	CA-C-O	-6.22	109.28	120.60
1	I	270	ASP	CA-CB-CG	6.22	118.82	112.60
1	M	36	ARG	CD-NE-CZ	-6.22	115.69	124.40
1	N	104	LEU	N-CA-C	-6.22	103.08	112.04
1	O	153	ILE	CA-C-O	6.22	127.19	120.47
1	D	39	LEU	CB-CA-C	6.22	119.59	110.26
1	E	401	SER	CA-C-N	6.22	133.60	121.41
1	E	401	SER	C-N-CA	6.22	133.60	121.41
1	B	84	THR	OG1-CB-CG2	-6.22	96.87	109.30
1	D	116	HIS	CB-CA-C	6.22	122.42	110.17
1	E	124	TYR	CA-C-N	6.22	128.52	120.44
1	E	124	TYR	C-N-CA	6.22	128.52	120.44
1	G	50	ASP	CA-C-N	6.22	133.41	121.54
1	G	50	ASP	C-N-CA	6.22	133.41	121.54
1	M	453	VAL	N-CA-CB	-6.22	100.97	111.23
1	N	239	ILE	CA-C-N	6.22	130.92	122.84
1	N	239	ILE	C-N-CA	6.22	130.92	122.84
1	P	86	GLU	O-C-N	-6.22	115.56	122.03
1	B	400	ILE	N-CA-CB	6.21	120.94	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	437	VAL	CA-C-O	-6.21	114.06	120.71
1	F	418	ILE	CA-CB-CG2	6.21	121.06	110.50
1	I	64	ILE	CB-CA-C	6.21	121.48	111.29
1	N	118	THR	CA-CB-CG2	6.21	121.07	110.50
1	F	430	ALA	N-CA-CB	6.21	119.20	109.94
1	N	393	LEU	CA-C-N	6.21	128.89	120.44
1	N	393	LEU	C-N-CA	6.21	128.89	120.44
1	A	426	ALA	CA-C-N	6.21	133.58	121.41
1	A	426	ALA	C-N-CA	6.21	133.58	121.41
1	D	132	GLN	CG-CD-OE1	-6.21	108.38	120.80
1	D	190	LYS	N-CA-C	6.21	124.03	110.80
1	E	140	CYS	CA-C-O	-6.21	114.46	120.92
1	E	206	THR	CA-C-O	-6.21	113.47	120.43
1	M	269	ASP	CA-CB-CG	6.21	118.81	112.60
1	N	119	ILE	CA-C-N	6.21	133.15	121.97
1	N	119	ILE	C-N-CA	6.21	133.15	121.97
1	N	204	ASP	CA-CB-CG	6.21	118.81	112.60
1	O	72	HIS	ND1-CE1-NE2	-6.21	102.19	108.40
1	P	236	ASN	N-CA-CB	6.21	119.68	110.49
1	C	424	GLU	CA-C-N	6.21	129.45	120.38
1	C	424	GLU	C-N-CA	6.21	129.45	120.38
1	M	232	ILE	CA-C-N	6.21	133.20	122.64
1	M	232	ILE	C-N-CA	6.21	133.20	122.64
1	B	430	ALA	CA-C-O	-6.21	114.50	120.90
1	B	460	ASP	CA-CB-CG	6.21	118.81	112.60
1	E	352	GLU	O-C-N	-6.21	114.33	122.59
1	F	71	GLU	O-C-N	-6.21	114.33	122.59
1	I	277	ALA	CA-C-O	6.21	127.01	119.31
1	J	360	ARG	O-C-N	-6.21	113.59	122.41
1	K	114	ASN	CB-CG-ND2	6.21	125.71	116.40
1	K	265	GLN	CB-CA-C	-6.21	100.36	110.79
1	M	318	ALA	CA-C-O	-6.21	111.83	120.21
1	M	353	HIS	CG-CD2-NE2	-6.21	100.99	107.20
1	A	420	ARG	CB-CA-C	-6.21	101.09	110.90
1	B	58	THR	N-CA-C	6.21	118.61	109.24
1	B	322	GLU	CG-CD-OE2	-6.21	104.13	118.40
1	D	491	ASP	CA-CB-CG	6.21	118.81	112.60
1	H	63	THR	CA-CB-OG1	6.21	118.91	109.60
1	H	217	GLU	CG-CD-OE2	6.21	132.68	118.40
1	I	66	ARG	N-CA-CB	6.21	120.98	110.49
1	I	193	ILE	CA-C-N	6.21	134.36	121.32
1	I	193	ILE	C-N-CA	6.21	134.36	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	246	MET	N-CA-C	6.21	119.95	112.38
1	L	274	HIS	O-C-N	-6.21	112.48	122.41
1	M	304	ILE	CA-C-N	6.21	133.40	121.54
1	M	304	ILE	C-N-CA	6.21	133.40	121.54
1	N	151	THR	CA-C-N	6.21	130.93	120.88
1	N	151	THR	C-N-CA	6.21	130.93	120.88
1	O	136	LYS	N-CA-C	6.21	119.69	111.75
1	A	241	GLU	CA-C-N	6.21	133.39	121.54
1	A	241	GLU	C-N-CA	6.21	133.39	121.54
1	H	203	ILE	O-C-N	-6.21	115.73	121.94
1	A	38	THR	O-C-N	-6.20	115.33	122.03
1	B	129	GLN	CA-CB-CG	6.20	126.51	114.10
1	F	357	GLU	CA-CB-CG	6.20	126.51	114.10
1	P	18	ARG	O-C-N	-6.20	114.97	122.11
1	H	307	ILE	N-CA-C	6.20	122.24	109.34
1	H	417	VAL	CA-C-O	-6.20	113.88	120.64
1	N	66	ARG	N-CA-CB	-6.20	100.01	110.49
1	A	100	ALA	O-C-N	-6.20	114.18	122.49
1	C	191	ASP	CB-CG-OD1	-6.20	104.14	118.40
1	F	344	THR	O-C-N	6.20	129.92	122.85
1	G	224	PRO	CB-CA-C	6.20	121.79	111.56
1	L	240	GLU	CA-C-N	6.20	133.23	122.81
1	L	240	GLU	C-N-CA	6.20	133.23	122.81
1	O	208	LEU	CA-C-N	6.20	132.31	122.33
1	O	208	LEU	C-N-CA	6.20	132.31	122.33
1	P	164	GLU	CA-C-O	6.20	127.11	119.05
1	H	330	SER	O-C-N	-6.20	116.15	123.22
1	K	402	GLY	CA-C-O	-6.20	111.96	122.43
1	M	420	ARG	CG-CD-NE	-6.20	98.36	112.00
1	M	438	ARG	NE-CZ-NH2	-6.20	113.62	119.20
1	N	452	ASN	N-CA-C	-6.20	100.66	109.96
1	C	87	LYS	N-CA-C	6.20	124.00	110.80
1	H	107	ALA	CA-C-O	-6.20	112.48	119.79
1	I	159	THR	N-CA-CB	6.20	120.77	110.85
1	O	429	ASP	N-CA-CB	6.20	120.96	110.49
1	P	316	GLY	CA-C-N	6.20	130.49	121.26
1	P	316	GLY	C-N-CA	6.20	130.49	121.26
1	A	168	GLU	CB-CA-C	-6.20	100.90	110.81
1	B	40	GLY	CA-C-O	-6.20	112.66	121.52
1	C	164	GLU	O-C-N	6.20	130.83	122.59
1	D	133	GLU	O-C-N	-6.20	115.09	122.15
1	I	157	SER	O-C-N	-6.20	115.40	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	292	MET	CA-C-N	6.20	129.09	120.29
1	J	292	MET	C-N-CA	6.20	129.09	120.29
1	L	116	HIS	CG-CD2-NE2	6.20	113.39	107.20
1	L	318	ALA	CA-C-N	6.20	128.15	120.34
1	L	318	ALA	C-N-CA	6.20	128.15	120.34
1	L	425	ASN	N-CA-CB	6.20	119.23	110.12
1	N	76	LYS	CD-CE-NZ	6.20	131.72	111.90
1	N	179	SER	CA-C-N	-6.20	110.95	122.60
1	N	179	SER	C-N-CA	-6.20	110.95	122.60
1	A	441	HIS	O-C-N	6.19	129.21	122.15
1	H	435	VAL	CA-C-O	6.19	127.64	119.53
1	K	333	PHE	O-C-N	-6.19	115.98	123.10
1	O	372	THR	N-CA-CB	6.19	119.33	110.16
1	P	433	ILE	CA-CB-CG1	-6.19	99.87	110.40
1	B	232	ILE	CA-CB-CG2	6.19	121.03	110.50
1	F	187	LYS	CB-CA-C	6.19	122.75	110.42
1	H	487	LEU	N-CA-CB	6.19	120.96	110.49
1	M	24	ASN	OD1-CG-ND2	6.19	128.79	122.60
1	O	200	GLY	O-C-N	-6.19	114.65	122.70
1	B	119	ILE	CA-CB-CG2	6.19	121.02	110.50
1	D	274	HIS	CG-CD2-NE2	-6.19	101.01	107.20
1	E	489	ARG	O-C-N	-6.19	114.36	122.59
1	F	285	ARG	CA-C-N	6.19	131.18	122.08
1	F	285	ARG	C-N-CA	6.19	131.18	122.08
1	L	270	ASP	O-C-N	-6.19	113.53	121.33
1	O	139	ALA	O-C-N	-6.19	114.36	122.59
1	G	485	GLU	CA-C-O	6.19	127.32	120.82
1	M	302	ASN	CA-C-O	-6.19	113.50	120.43
1	P	47	MET	N-CA-C	6.19	123.98	110.80
1	P	180	ALA	N-CA-CB	6.19	119.17	110.07
1	A	325	LYS	N-CA-CB	6.19	119.16	109.69
1	I	57	VAL	CA-CB-CG2	6.19	120.92	110.40
1	O	254	ILE	N-CA-C	6.19	120.70	112.04
1	F	320	LEU	CA-C-O	-6.19	112.59	120.14
1	F	339	HIS	CB-CG-ND1	6.19	131.98	122.70
1	H	154	ALA	CA-C-N	6.19	128.85	120.38
1	H	154	ALA	C-N-CA	6.19	128.85	120.38
1	O	299	THR	CA-C-O	-6.19	111.67	120.51
1	P	339	HIS	N-CA-CB	-6.19	103.42	111.09
1	C	274	HIS	ND1-CG-CD2	6.18	112.28	106.10
1	D	15	TYR	CZ-CE2-CD2	6.18	130.73	119.60
1	D	205	ASP	CB-CG-OD1	6.18	132.63	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	301	ALA	CB-CA-C	-6.18	98.69	109.64
1	M	67	GLU	O-C-N	6.18	128.70	122.08
1	N	37	SER	CA-C-O	6.18	126.76	119.28
1	N	106	LYS	CA-C-N	6.18	129.71	120.31
1	N	106	LYS	C-N-CA	6.18	129.71	120.31
1	B	100	ALA	CA-C-N	6.18	126.68	119.94
1	B	100	ALA	C-N-CA	6.18	126.68	119.94
1	D	424	GLU	CG-CD-OE2	6.18	132.62	118.40
1	G	274	HIS	O-C-N	-6.18	114.35	122.39
1	H	19	ASP	N-CA-C	6.18	118.82	111.71
1	L	14	ARG	CD-NE-CZ	6.18	133.06	124.40
1	M	42	LYS	CB-CA-C	-6.18	100.11	110.56
1	M	185	GLU	N-CA-C	6.18	123.97	110.80
1	N	237	CYS	CA-C-O	-6.18	113.94	120.80
1	O	181	VAL	N-CA-C	6.18	116.82	110.82
1	D	384	SER	N-CA-CB	6.18	119.31	110.16
1	I	343	VAL	O-C-N	-6.18	115.90	122.95
1	K	293	GLU	CA-C-O	-6.18	112.86	119.97
1	A	247	LEU	O-C-N	-6.18	114.61	122.34
1	B	196	GLU	O-C-N	-6.18	115.99	123.16
1	B	218	ARG	CB-CA-C	6.18	121.61	111.41
1	E	394	ARG	NE-CZ-NH2	6.18	124.76	119.20
1	E	403	ARG	NH1-CZ-NH2	6.18	127.33	119.30
1	F	16	MET	O-C-N	-6.18	117.34	123.46
1	G	31	ILE	CB-CA-C	6.18	123.59	111.79
1	G	283	ALA	N-CA-CB	6.18	120.93	110.49
1	I	7	VAL	CA-CB-CG2	6.18	120.91	110.40
1	K	451	LEU	O-C-N	6.18	130.81	122.59
1	M	60	ASP	O-C-N	-6.18	116.00	123.29
1	M	495	ALA	O-C-N	-6.18	114.64	122.43
1	P	307	ILE	CA-C-O	-6.18	113.06	120.78
1	B	47	MET	N-CA-C	6.18	119.55	107.57
1	B	274	HIS	N-CA-CB	6.18	120.22	109.72
1	D	27	ALA	N-CA-C	6.18	123.96	110.80
1	E	341	LYS	CB-CG-CD	6.18	125.50	111.30
1	E	470	LEU	O-C-N	6.18	130.64	122.30
1	G	411	PHE	CA-C-N	6.18	130.89	120.88
1	G	411	PHE	C-N-CA	6.18	130.89	120.88
1	H	482	GLU	OE1-CD-OE2	-6.18	108.08	122.90
1	I	185	GLU	N-CA-CB	6.18	120.93	110.49
1	I	263	PHE	CA-CB-CG	6.18	119.98	113.80
1	I	353	HIS	CB-CG-ND1	-6.18	113.44	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	112	ASP	CA-C-N	6.18	130.57	120.63
1	K	112	ASP	C-N-CA	6.18	130.57	120.63
1	P	81	VAL	N-CA-C	-6.18	107.23	113.47
1	P	116	HIS	CA-C-O	-6.18	111.70	120.16
1	P	291	ASP	CA-CB-CG	6.18	118.78	112.60
1	G	15	TYR	CG-CD2-CE2	6.17	130.46	121.20
1	O	431	ILE	O-C-N	-6.17	114.85	122.57
1	A	188	VAL	N-CA-CB	-6.17	102.89	111.41
1	A	304	ILE	N-CA-CB	6.17	121.41	111.23
1	A	334	VAL	CA-C-O	6.17	128.49	120.78
1	I	274	HIS	CA-C-O	-6.17	114.34	120.82
1	J	427	GLY	N-CA-C	6.17	123.56	115.47
1	L	245	GLU	N-CA-C	6.17	123.95	110.80
1	N	408	VAL	O-C-N	6.17	128.10	121.87
1	P	114	ASN	CA-CB-CG	-6.17	106.43	112.60
1	P	135	LEU	CD1-CG-CD2	6.17	124.38	110.80
1	A	337	CYS	CA-C-O	-6.17	114.83	121.56
1	A	491	ASP	CB-CA-C	-6.17	101.12	111.24
1	E	97	VAL	N-CA-C	6.17	122.17	109.34
1	G	128	ALA	CA-C-O	6.17	126.38	119.41
1	I	236	ASN	CA-C-O	6.17	125.84	119.05
1	B	66	ARG	CB-CA-C	6.17	120.65	110.90
1	B	224	PRO	O-C-N	-6.17	114.31	122.64
1	D	138	ILE	CA-C-O	-6.17	111.71	119.48
1	I	343	VAL	CG1-CB-CG2	6.17	124.37	110.80
1	I	460	ASP	CB-CG-OD2	6.17	132.59	118.40
1	J	224	PRO	CA-N-CD	-6.17	103.36	112.00
1	J	365	ALA	N-CA-CB	6.17	119.80	110.30
1	O	302	ASN	CA-C-N	6.17	130.77	122.01
1	O	302	ASN	C-N-CA	6.17	130.77	122.01
1	C	371	CYS	O-C-N	-6.17	113.20	122.20
1	D	415	LEU	N-CA-C	-6.17	105.72	113.18
1	L	104	LEU	N-CA-C	-6.17	105.58	113.23
1	G	24	ASN	CA-C-O	-6.17	111.67	119.31
1	J	457	ALA	O-C-N	6.17	130.79	122.59
1	K	400	ILE	N-CA-CB	6.17	121.40	111.23
1	N	46	LYS	N-CA-CB	6.17	121.90	110.99
1	O	305	THR	CA-CB-OG1	6.17	118.85	109.60
1	A	66	ARG	CA-C-N	6.16	130.87	120.88
1	A	66	ARG	C-N-CA	6.16	130.87	120.88
1	C	404	GLU	CA-C-N	6.16	133.31	121.54
1	C	404	GLU	C-N-CA	6.16	133.31	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	356	GLU	N-CA-CB	6.16	120.91	110.49
1	H	79	ILE	O-C-N	6.16	130.27	122.57
1	H	459	GLU	OE1-CD-OE2	6.16	137.69	122.90
1	I	190	LYS	O-C-N	-6.16	114.96	122.11
1	I	496	ALA	CB-CA-C	-6.16	98.15	110.42
1	M	130	LYS	CA-C-O	6.16	127.29	120.82
1	M	158	ILE	CA-C-N	6.16	132.24	122.62
1	M	158	ILE	C-N-CA	6.16	132.24	122.62
1	M	281	ILE	N-CA-C	6.16	117.34	107.73
1	M	302	ASN	OD1-CG-ND2	6.16	128.76	122.60
1	O	287	VAL	N-CA-CB	6.16	117.58	110.49
1	P	422	LEU	N-CA-CB	-6.16	100.73	110.28
1	E	377	ARG	CB-CA-C	-6.16	99.11	109.65
1	G	277	ALA	N-CA-CB	-6.16	101.09	110.33
1	K	364	ASP	N-CA-CB	6.16	119.83	110.28
1	L	494	ILE	CB-CG1-CD1	6.16	126.74	113.80
1	N	490	ILE	CG1-CB-CG2	6.16	129.19	110.70
1	O	239	ILE	CA-CB-CG1	6.16	120.88	110.40
1	D	118	THR	CA-CB-OG1	6.16	118.84	109.60
1	D	259	ALA	CB-CA-C	-6.16	100.83	111.30
1	H	237	CYS	CA-C-N	6.16	133.31	121.54
1	H	237	CYS	C-N-CA	6.16	133.31	121.54
1	M	476	ALA	CA-C-O	-6.16	112.89	119.97
1	N	404	GLU	N-CA-CB	6.16	120.62	110.39
1	N	419	PRO	CB-CA-C	-6.16	102.14	111.44
1	O	184	ASP	N-CA-C	6.16	120.18	111.92
1	O	365	ALA	CA-C-N	6.16	131.26	121.09
1	O	365	ALA	C-N-CA	6.16	131.26	121.09
1	F	22	ARG	N-CA-C	-6.16	104.65	111.36
1	C	340	PRO	CA-N-CD	-6.16	103.38	112.00
1	F	273	GLN	OE1-CD-NE2	-6.16	116.44	122.60
1	K	409	ARG	CA-CB-CG	6.16	126.42	114.10
1	E	158	ILE	CA-C-O	-6.16	113.08	120.78
1	F	395	GLU	OE1-CD-OE2	6.16	137.67	122.90
1	G	191	ASP	O-C-N	-6.16	112.56	122.41
1	G	296	ALA	N-CA-C	6.16	118.78	111.33
1	H	414	ALA	CA-C-O	-6.16	113.41	120.24
1	K	432	GLU	N-CA-C	6.16	123.91	110.80
1	L	172	GLU	CA-C-N	-6.16	110.93	121.09
1	L	172	GLU	C-N-CA	-6.16	110.93	121.09
1	N	202	SER	CA-C-N	6.16	133.05	121.97
1	N	202	SER	C-N-CA	6.16	133.05	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	306	ASN	CA-CB-CG	6.15	118.75	112.60
1	J	27	ALA	N-CA-C	-6.15	104.49	111.14
1	A	44	MET	CB-CA-C	-6.15	98.17	110.42
1	B	471	ARG	CA-C-O	-6.15	114.34	120.80
1	J	167	LYS	CA-C-N	6.15	128.84	120.54
1	J	167	LYS	C-N-CA	6.15	128.84	120.54
1	J	496	ALA	O-C-N	-6.15	114.41	122.59
1	P	303	VAL	CA-CB-CG1	6.15	120.86	110.40
1	B	344	THR	CA-C-N	-6.15	114.09	122.95
1	B	344	THR	C-N-CA	-6.15	114.09	122.95
1	D	349	GLY	CA-C-N	6.15	131.64	122.17
1	D	349	GLY	C-N-CA	6.15	131.64	122.17
1	E	116	HIS	CA-CB-CG	6.15	119.95	113.80
1	F	419	PRO	CA-C-O	-6.15	110.39	119.18
1	J	471	ARG	NE-CZ-NH2	6.15	124.74	119.20
1	M	248	LYS	O-C-N	6.15	129.83	122.27
1	N	91	ASP	CB-CA-C	-6.15	100.31	109.90
1	P	446	ASN	CB-CA-C	-6.15	97.71	109.95
1	D	51	ASP	CB-CG-OD1	-6.15	104.26	118.40
1	E	233	ALA	CA-C-N	-6.15	114.85	122.84
1	E	233	ALA	C-N-CA	-6.15	114.85	122.84
1	F	447	LYS	CA-C-N	6.15	133.28	121.54
1	F	447	LYS	C-N-CA	6.15	133.28	121.54
1	H	466	VAL	N-CA-C	6.15	122.13	109.34
1	K	309	ASP	N-CA-CB	6.15	119.77	110.30
1	N	314	ASP	N-CA-CB	6.15	120.88	110.49
1	N	348	ARG	CD-NE-CZ	-6.15	115.79	124.40
1	A	185	GLU	O-C-N	-6.15	114.42	122.59
1	D	448	CYS	N-CA-C	6.15	118.63	108.49
1	K	215	ASP	CB-CA-C	6.15	120.79	111.76
1	M	46	LYS	CA-C-O	-6.15	113.22	120.60
1	N	286	ARG	N-CA-C	6.15	120.09	112.47
1	A	175	VAL	CA-C-O	-6.14	113.83	120.47
1	D	417	VAL	CA-C-O	-6.14	114.00	120.57
1	E	284	ALA	N-CA-CB	6.14	120.42	110.77
1	H	17	GLY	CA-C-N	6.14	128.99	120.63
1	H	17	GLY	C-N-CA	6.14	128.99	120.63
1	I	52	LEU	N-CA-CB	6.14	119.76	110.30
1	J	432	GLU	O-C-N	-6.14	114.37	122.42
1	N	217	GLU	N-CA-C	6.14	118.90	110.24
1	N	283	ALA	N-CA-C	6.14	119.26	108.75
1	P	285	ARG	N-CA-CB	6.14	118.86	110.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	204	ASP	CA-C-O	-6.14	111.55	118.55
1	B	257	SER	N-CA-CB	6.14	118.82	110.10
1	C	289	LYS	N-CA-CB	6.14	119.28	110.06
1	D	116	HIS	CB-CG-CD2	-6.14	123.22	131.20
1	G	229	ASP	O-C-N	-6.14	115.31	122.87
1	L	18	ARG	CA-C-O	6.14	129.29	120.51
1	L	474	THR	CA-CB-OG1	6.14	118.81	109.60
1	O	8	LEU	CD1-CG-CD2	6.14	124.31	110.80
1	P	337	CYS	CB-CA-C	6.14	119.48	109.90
1	C	67	GLU	O-C-N	-6.14	115.40	122.03
1	G	124	TYR	CD1-CG-CD2	-6.14	108.89	118.10
1	N	452	ASN	O-C-N	6.14	130.48	122.93
1	B	215	ASP	N-CA-CB	6.14	120.87	110.49
1	K	246	MET	CA-C-O	6.14	126.86	119.61
1	L	176	GLU	CG-CD-OE2	-6.14	104.28	118.40
1	O	229	ASP	CA-C-O	6.14	127.70	120.70
1	O	243	ALA	N-CA-C	6.14	123.88	110.80
1	O	280	GLY	CA-C-N	6.14	130.73	122.01
1	O	280	GLY	C-N-CA	6.14	130.73	122.01
1	D	220	SER	N-CA-C	-6.14	99.71	109.59
1	I	67	GLU	N-CA-C	-6.14	104.14	111.69
1	L	470	LEU	CA-C-N	6.14	133.26	121.54
1	L	470	LEU	C-N-CA	6.14	133.26	121.54
1	A	462	CYS	CA-C-O	-6.14	111.25	119.11
1	A	466	VAL	N-CA-CB	-6.14	101.10	111.23
1	G	414	ALA	N-CA-C	6.14	119.24	111.69
1	I	223	MET	CB-CA-C	6.14	119.75	109.69
1	I	231	LYS	O-C-N	6.14	130.21	122.84
1	I	400	ILE	CB-CG1-CD1	6.14	126.69	113.80
1	J	321	VAL	CA-CB-CG2	6.14	120.83	110.40
1	M	84	THR	CA-C-O	-6.14	111.86	119.28
1	M	360	ARG	O-C-N	-6.14	113.65	122.36
1	P	96	ALA	O-C-N	6.14	128.62	122.12
1	H	46	LYS	O-C-N	6.13	130.47	123.48
1	K	476	ALA	O-C-N	6.13	128.62	122.12
1	B	449	ALA	CA-C-O	-6.13	111.74	120.51
1	C	179	SER	N-CA-C	6.13	123.86	110.80
1	I	226	LYS	O-C-N	-6.13	114.43	122.59
1	K	245	GLU	CA-C-N	6.13	130.50	120.63
1	K	245	GLU	C-N-CA	6.13	130.50	120.63
1	L	384	SER	CA-C-N	6.13	129.11	120.28
1	L	384	SER	C-N-CA	6.13	129.11	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	196	GLU	CA-C-O	6.13	127.11	120.43
1	P	43	GLY	CA-C-O	6.13	129.24	121.94
1	A	162	GLY	O-C-N	-6.13	114.73	122.70
1	P	72	HIS	N-CA-C	6.13	123.36	109.81
1	C	222	GLN	CB-CA-C	6.13	122.62	110.42
1	D	372	THR	CA-C-N	6.13	129.51	120.74
1	D	372	THR	C-N-CA	6.13	129.51	120.74
1	M	112	ASP	CB-CG-OD2	6.13	132.50	118.40
1	B	18	ARG	CB-CG-CD	-6.13	97.21	111.30
1	E	286	ARG	CA-C-O	-6.13	111.75	120.51
1	F	488	LEU	O-C-N	-6.13	114.75	122.17
1	I	60	ASP	CA-C-N	6.13	126.78	119.98
1	I	60	ASP	C-N-CA	6.13	126.78	119.98
1	I	217	GLU	CA-CB-CG	6.13	126.36	114.10
1	I	378	ILE	CA-C-N	6.13	131.43	123.10
1	I	378	ILE	C-N-CA	6.13	131.43	123.10
1	I	420	ARG	O-C-N	-6.13	115.41	122.03
1	K	169	LYS	CB-CG-CD	6.13	125.39	111.30
1	L	231	LYS	CA-C-N	6.13	128.71	120.50
1	L	231	LYS	C-N-CA	6.13	128.71	120.50
1	M	306	ASN	CB-CA-C	6.13	122.62	110.42
1	N	405	GLN	CG-CD-NE2	6.13	125.59	116.40
1	N	407	ALA	CA-C-N	6.13	130.15	120.47
1	N	407	ALA	C-N-CA	6.13	130.15	120.47
1	O	52	LEU	N-CA-C	6.13	120.02	112.54
1	O	489	ARG	N-CA-CB	6.13	120.85	110.49
1	A	193	ILE	O-C-N	-6.13	114.91	122.57
1	E	300	GLY	CA-C-N	6.13	133.24	121.54
1	E	300	GLY	C-N-CA	6.13	133.24	121.54
1	F	285	ARG	CA-C-O	-6.13	114.07	121.05
1	H	141	GLU	CG-CD-OE1	6.13	132.49	118.40
1	M	275	TYR	CG-CD1-CE1	6.13	130.39	121.20
1	N	478	GLN	O-C-N	6.13	128.64	122.08
1	A	63	THR	CA-CB-CG2	6.12	120.91	110.50
1	A	83	LYS	CA-CB-CG	6.12	126.35	114.10
1	C	18	ARG	CB-CA-C	6.12	121.77	110.56
1	D	212	VAL	CA-C-O	-6.12	114.17	121.28
1	H	331	MET	O-C-N	-6.12	115.80	123.27
1	M	182	VAL	N-CA-CB	6.12	118.38	111.21
1	O	225	LYS	CA-CB-CG	6.12	126.35	114.10
1	A	328	GLY	CA-C-N	6.12	133.02	121.69
1	A	328	GLY	C-N-CA	6.12	133.02	121.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	284	ALA	CA-C-O	6.12	128.28	121.11
1	I	467	VAL	CA-C-N	6.12	135.28	124.01
1	I	467	VAL	C-N-CA	6.12	135.28	124.01
1	L	243	ALA	N-CA-C	6.12	123.84	110.80
1	M	47	MET	CB-CA-C	-6.12	100.88	110.74
1	N	10	GLU	O-C-N	-6.12	114.44	122.59
1	B	31	ILE	N-CA-C	6.12	122.07	109.34
1	B	251	VAL	O-C-N	-6.12	113.76	121.84
1	B	482	GLU	CA-CB-CG	6.12	126.34	114.10
1	C	388	GLU	O-C-N	6.12	129.58	122.17
1	I	274	HIS	N-CA-C	-6.12	104.52	111.07
1	M	138	ILE	CA-C-O	-6.12	111.77	119.48
1	M	172	GLU	CB-CG-CD	-6.12	102.19	112.60
1	O	42	LYS	N-CA-C	6.12	120.34	112.26
1	O	164	GLU	CG-CD-OE1	6.12	132.48	118.40
1	B	232	ILE	N-CA-C	6.12	118.44	109.63
1	C	407	ALA	CA-C-O	-6.12	113.93	120.42
1	E	178	VAL	CB-CA-C	6.12	119.65	111.94
1	I	114	ASN	OD1-CG-ND2	-6.12	116.48	122.60
1	M	122	LYS	CB-CG-CD	6.12	125.38	111.30
1	M	242	THR	CA-C-N	6.12	133.23	121.54
1	M	242	THR	C-N-CA	6.12	133.23	121.54
1	A	131	ALA	O-C-N	6.12	130.90	122.46
1	A	377	ARG	CA-C-N	6.12	131.24	123.10
1	A	377	ARG	C-N-CA	6.12	131.24	123.10
1	D	379	VAL	N-CA-CB	6.12	121.39	111.36
1	J	307	ILE	CA-C-N	6.12	132.64	122.54
1	J	307	ILE	C-N-CA	6.12	132.64	122.54
1	M	373	ILE	CB-CG1-CD1	6.12	126.65	113.80
1	N	210	LYS	CA-C-N	6.12	133.40	121.41
1	N	210	LYS	C-N-CA	6.12	133.40	121.41
1	P	348	ARG	N-CA-C	6.12	119.54	110.48
1	E	275	TYR	CG-CD1-CE1	6.12	130.38	121.20
1	H	49	VAL	CA-CB-CG1	-6.12	100.00	110.40
1	E	324	ARG	CA-CB-CG	6.12	126.33	114.10
1	I	425	ASN	N-CA-C	-6.12	105.31	112.89
1	J	49	VAL	CA-C-N	6.12	132.89	122.37
1	J	49	VAL	C-N-CA	6.12	132.89	122.37
1	K	95	THR	CA-CB-OG1	6.12	118.77	109.60
1	K	233	ALA	O-C-N	6.12	130.43	123.27
1	L	495	ALA	N-CA-CB	6.12	120.53	110.69
1	N	372	THR	N-CA-C	6.12	120.47	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	29	ARG	CD-NE-CZ	6.12	132.96	124.40
1	A	49	VAL	CA-CB-CG1	-6.11	100.01	110.40
1	A	396	TYR	CG-CD1-CE1	-6.11	112.03	121.20
1	B	418	ILE	O-C-N	6.11	128.07	121.10
1	E	34	THR	O-C-N	6.11	130.72	122.59
1	E	52	LEU	O-C-N	-6.11	113.73	122.41
1	G	176	GLU	O-C-N	-6.11	115.07	122.22
1	K	140	CYS	CB-CA-C	6.11	121.61	111.83
1	L	141	GLU	CG-CD-OE1	6.11	132.46	118.40
1	L	446	ASN	CB-CG-OD1	6.11	133.03	120.80
1	M	184	ASP	CA-C-O	6.11	128.80	121.65
1	M	318	ALA	O-C-N	6.11	130.96	123.44
1	A	225	LYS	CA-C-O	-6.11	111.77	120.51
1	C	156	THR	N-CA-C	6.11	120.59	113.20
1	H	45	ASP	CB-CG-OD2	-6.11	104.34	118.40
1	N	156	THR	CA-CB-OG1	-6.11	100.43	109.60
1	N	305	THR	CA-CB-OG1	6.11	118.77	109.60
1	P	467	VAL	CB-CA-C	6.11	119.91	110.50
1	C	166	ALA	CB-CA-C	6.11	121.53	110.72
1	C	169	LYS	CB-CG-CD	6.11	125.35	111.30
1	C	291	ASP	CB-CA-C	-6.11	96.83	110.21
1	F	353	HIS	CB-CA-C	-6.11	100.46	110.85
1	H	99	VAL	CA-C-O	6.11	128.42	120.78
1	L	260	ASN	N-CA-C	6.11	123.81	110.80
1	M	240	GLU	CA-CB-CG	6.11	126.32	114.10
1	P	172	GLU	O-C-N	-6.11	115.78	122.07
1	C	43	GLY	CA-C-N	6.11	133.88	123.01
1	C	43	GLY	C-N-CA	6.11	133.88	123.01
1	I	383	GLY	CA-C-N	6.11	133.21	121.54
1	I	383	GLY	C-N-CA	6.11	133.21	121.54
1	K	49	VAL	CG1-CB-CG2	6.11	124.24	110.80
1	N	15	TYR	CA-CB-CG	6.11	124.90	113.90
1	N	411	PHE	CD1-CG-CD2	-6.11	109.44	118.60
1	E	226	LYS	CA-C-O	-6.11	111.78	120.51
1	F	493	VAL	CA-CB-CG2	6.11	120.78	110.40
1	G	141	GLU	N-CA-CB	6.11	119.28	110.06
1	H	354	VAL	CA-C-O	6.11	128.41	120.78
1	I	179	SER	CA-C-O	-6.11	111.12	119.12
1	K	153	ILE	N-CA-C	6.11	119.60	111.17
1	L	386	GLU	N-CA-CB	-6.11	101.09	110.13
1	M	363	ASP	CA-C-O	6.11	127.03	120.55
1	A	489	ARG	O-C-N	-6.11	114.47	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	51	ASP	N-CA-CB	6.11	120.81	110.49
1	C	9	PRO	CA-C-N	6.11	133.20	121.54
1	C	9	PRO	C-N-CA	6.11	133.20	121.54
1	C	224	PRO	CA-C-O	6.11	131.71	120.60
1	D	57	VAL	N-CA-C	-6.11	96.98	107.24
1	G	130	LYS	N-CA-CB	6.11	118.86	110.01
1	H	446	ASN	OD1-CG-ND2	-6.11	116.49	122.60
1	I	153	ILE	CB-CA-C	6.11	120.97	112.05
1	I	373	ILE	O-C-N	6.11	133.01	121.84
1	J	319	GLY	CA-C-O	-6.11	109.94	120.57
1	P	100	ALA	CB-CA-C	6.11	121.73	110.56
1	B	337	CYS	CA-C-N	6.10	128.96	120.29
1	B	337	CYS	C-N-CA	6.10	128.96	120.29
1	B	388	GLU	N-CA-CB	6.10	118.92	110.07
1	O	363	ASP	N-CA-CB	6.10	120.10	109.72
1	O	457	ALA	N-CA-C	6.10	116.06	108.19
1	P	64	ILE	CA-CB-CG1	6.10	120.78	110.40
1	E	133	GLU	CA-CB-CG	6.10	126.30	114.10
1	E	274	HIS	N-CA-CB	6.10	120.80	110.49
1	I	122	LYS	O-C-N	6.10	130.26	122.33
1	K	31	ILE	O-C-N	-6.10	114.94	122.57
1	K	315	LEU	CD1-CG-CD2	6.10	124.22	110.80
1	M	93	THR	CA-CB-CG2	6.10	120.88	110.50
1	O	349	GLY	CA-C-O	-6.10	109.95	120.57
1	P	118	THR	O-C-N	-6.10	114.47	122.59
1	P	413	ASP	CA-CB-CG	-6.10	106.50	112.60
1	B	32	ALA	CA-C-O	6.10	127.44	120.00
1	E	200	GLY	CA-C-O	-6.10	109.95	120.57
1	P	248	LYS	CG-CD-CE	6.10	125.33	111.30
1	C	125	GLN	O-C-N	6.10	129.10	122.15
1	F	168	GLU	CA-C-N	6.10	128.74	120.44
1	F	168	GLU	C-N-CA	6.10	128.74	120.44
1	K	95	THR	CA-CB-CG2	6.10	120.87	110.50
1	L	147	LYS	N-CA-C	6.10	120.89	111.56
1	N	273	GLN	CB-CA-C	6.10	121.05	110.68
1	O	165	LYS	N-CA-CB	6.10	119.48	110.33
1	A	117	PRO	N-CD-CG	6.10	112.35	103.20
1	B	325	LYS	N-CA-CB	6.10	120.80	110.49
1	C	179	SER	O-C-N	6.10	130.70	122.59
1	D	11	ASN	CA-C-O	-6.10	111.79	120.51
1	E	282	VAL	CA-CB-CG2	6.10	120.77	110.40
1	E	329	ASP	O-C-N	6.10	130.70	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	197	LYS	N-CA-CB	-6.10	100.31	110.37
1	I	445	GLY	CA-C-O	6.10	127.27	122.33
1	M	349	GLY	CA-C-N	6.10	133.19	121.54
1	M	349	GLY	C-N-CA	6.10	133.19	121.54
1	M	362	VAL	O-C-N	6.10	128.41	122.07
1	N	84	THR	CA-CB-OG1	6.10	118.75	109.60
1	N	229	ASP	OD1-CG-OD2	-6.10	108.27	122.90
1	N	352	GLU	O-C-N	-6.10	114.48	122.59
1	F	278	LYS	CA-C-O	6.10	126.98	119.97
1	I	116	HIS	O-C-N	-6.10	114.31	121.32
1	J	77	MET	CA-CB-CG	6.10	126.29	114.10
1	A	223	MET	N-CA-C	-6.09	100.70	109.48
1	D	224	PRO	CB-CA-C	6.09	121.61	111.56
1	L	257	SER	CA-CB-OG	6.09	123.29	111.10
1	L	483	SER	CA-CB-OG	6.09	123.28	111.10
1	O	302	ASN	N-CA-C	6.09	118.65	108.96
1	P	474	THR	N-CA-C	6.09	117.72	111.14
1	B	482	GLU	O-C-N	-6.09	114.05	122.46
1	D	125	GLN	CA-C-O	-6.09	112.47	119.60
1	G	169	LYS	CA-C-N	6.09	128.44	120.28
1	G	169	LYS	C-N-CA	6.09	128.44	120.28
1	G	251	VAL	CA-C-N	6.09	132.32	120.99
1	G	251	VAL	C-N-CA	6.09	132.32	120.99
1	I	94	THR	N-CA-CB	6.09	118.90	110.07
1	P	20	ALA	O-C-N	6.09	128.61	122.03
1	B	34	THR	N-CA-CB	6.09	119.08	109.82
1	B	261	VAL	CA-CB-CG1	6.09	120.75	110.40
1	C	31	ILE	CA-C-O	6.09	128.39	120.78
1	C	460	ASP	CB-CG-OD1	6.09	132.41	118.40
1	D	279	GLU	CB-CG-CD	-6.09	102.25	112.60
1	D	358	VAL	O-C-N	-6.09	114.03	122.31
1	F	434	LEU	CA-C-N	6.09	130.29	120.30
1	F	434	LEU	C-N-CA	6.09	130.29	120.30
1	G	371	CYS	O-C-N	-6.09	114.31	122.23
1	G	430	ALA	N-CA-C	6.09	123.77	110.80
1	M	245	GLU	OE1-CD-OE2	-6.09	108.28	122.90
1	P	483	SER	N-CA-C	-6.09	105.98	113.41
1	B	10	GLU	O-C-N	-6.09	114.49	122.59
1	B	235	LEU	CA-C-O	-6.09	112.22	122.20
1	B	415	LEU	CA-C-N	6.09	130.89	120.72
1	B	415	LEU	C-N-CA	6.09	130.89	120.72
1	D	136	LYS	CA-C-O	-6.09	114.10	120.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	474	THR	N-CA-CB	6.09	118.84	110.01
1	I	171	ALA	O-C-N	-6.09	114.33	122.49
1	I	454	PHE	O-C-N	6.09	130.69	122.59
1	I	468	GLU	CB-CA-C	6.09	118.37	109.48
1	N	333	PHE	CA-CB-CG	6.09	119.89	113.80
1	O	107	ALA	O-C-N	6.09	128.42	122.09
1	B	165	LYS	N-CA-C	6.09	117.61	110.97
1	C	365	ALA	O-C-N	-6.09	115.26	122.20
1	F	117	PRO	O-C-N	6.09	130.86	122.64
1	G	57	VAL	N-CA-CB	-6.09	104.06	111.00
1	H	395	GLU	CA-C-N	6.09	132.37	121.66
1	H	395	GLU	C-N-CA	6.09	132.37	121.66
1	H	497	GLU	OE1-CD-OE2	6.09	137.50	122.90
1	J	75	ALA	CB-CA-C	6.09	122.53	110.42
1	L	35	VAL	CA-C-O	-6.09	113.17	120.78
1	L	248	LYS	O-C-N	-6.09	115.80	122.07
1	M	405	GLN	CB-CG-CD	6.09	122.95	112.60
1	M	405	GLN	N-CA-C	-6.09	103.60	111.02
1	N	60	ASP	CA-CB-CG	6.09	118.69	112.60
1	P	240	GLU	CB-CG-CD	6.09	122.95	112.60
1	E	55	VAL	CA-C-N	6.08	132.92	121.97
1	E	55	VAL	C-N-CA	6.08	132.92	121.97
1	G	424	GLU	N-CA-CB	6.08	118.89	110.07
1	H	454	PHE	CG-CD1-CE1	6.08	131.04	120.70
1	L	353	HIS	N-CA-CB	6.08	121.16	110.27
1	N	222	GLN	N-CA-C	6.08	120.31	113.01
1	A	79	ILE	CA-CB-CG1	6.08	120.74	110.40
1	D	360	ARG	NE-CZ-NH2	-6.08	113.72	119.20
1	E	209	ILE	CA-CB-CG1	6.08	120.74	110.40
1	H	494	ILE	O-C-N	-6.08	115.52	122.94
1	K	257	SER	CA-C-O	6.08	129.21	120.51
1	O	30	ILE	CA-CB-CG2	6.08	120.84	110.50
1	E	52	LEU	N-CA-CB	-6.08	100.91	110.46
1	G	12	MET	CB-CG-SD	6.08	130.95	112.70
1	J	489	ARG	CD-NE-CZ	6.08	132.91	124.40
1	L	368	VAL	CA-C-N	6.08	130.25	120.82
1	L	368	VAL	C-N-CA	6.08	130.25	120.82
1	N	203	ILE	CA-CB-CG1	6.08	120.74	110.40
1	P	146	ASP	O-C-N	-6.08	114.92	123.01
1	P	218	ARG	CA-C-O	-6.08	113.73	120.60
1	C	12	MET	N-CA-C	6.08	123.75	110.80
1	C	131	ALA	CA-C-N	6.08	128.34	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	131	ALA	C-N-CA	6.08	128.34	120.44
1	D	58	THR	N-CA-C	6.08	118.31	109.07
1	E	359	ALA	CA-C-O	-6.08	112.49	119.60
1	H	88	GLU	CB-CA-C	6.08	122.52	110.42
1	J	163	ALA	O-C-N	6.08	130.68	122.59
1	J	173	ILE	CA-C-N	6.08	129.05	120.42
1	J	173	ILE	C-N-CA	6.08	129.05	120.42
1	N	66	ARG	CA-CB-CG	-6.08	101.94	114.10
1	O	110	LEU	N-CA-CB	-6.08	102.50	110.59
1	O	191	ASP	CA-C-N	6.08	132.71	121.52
1	O	191	ASP	C-N-CA	6.08	132.71	121.52
1	I	58	THR	O-C-N	-6.08	116.92	123.42
1	I	133	GLU	CB-CG-CD	-6.08	102.27	112.60
1	J	389	LEU	O-C-N	6.08	128.56	122.12
1	L	189	ASP	CA-C-N	6.08	130.86	120.71
1	L	189	ASP	C-N-CA	6.08	130.86	120.71
1	A	424	GLU	N-CA-CB	6.08	120.05	109.72
1	B	119	ILE	N-CA-CB	6.08	121.26	111.23
1	F	299	THR	OG1-CB-CG2	-6.08	97.15	109.30
1	G	245	GLU	CA-C-O	6.08	129.20	120.51
1	L	139	ALA	CA-C-N	-6.08	114.15	123.14
1	L	139	ALA	C-N-CA	-6.08	114.15	123.14
1	N	353	HIS	ND1-CE1-NE2	6.08	114.48	108.40
1	P	376	GLY	O-C-N	-6.08	115.34	122.27
1	E	22	ARG	CG-CD-NE	-6.08	98.64	112.00
1	E	484	THR	O-C-N	6.08	129.98	122.20
1	G	236	ASN	CB-CG-OD1	6.08	132.95	120.80
1	H	350	THR	OG1-CB-CG2	-6.08	97.15	109.30
1	I	472	VAL	CA-CB-CG2	6.08	120.73	110.40
1	J	131	ALA	CB-CA-C	6.08	121.87	110.63
1	K	30	ILE	CA-CB-CG1	-6.08	100.07	110.40
1	K	307	ILE	CA-C-N	6.08	133.15	121.54
1	K	307	ILE	C-N-CA	6.08	133.15	121.54
1	K	428	LEU	O-C-N	-6.08	115.25	123.15
1	M	257	SER	CB-CA-C	6.08	122.39	111.03
1	O	140	CYS	O-C-N	-6.08	116.14	123.13
1	O	187	LYS	CA-C-O	-6.08	111.82	120.51
1	O	296	ALA	CA-C-O	-6.08	111.82	120.51
1	A	88	GLU	N-CA-C	6.07	123.74	110.80
1	A	315	LEU	CB-CA-C	6.07	122.07	109.38
1	B	338	LYS	N-CA-CB	6.07	119.15	110.16
1	F	7	VAL	CA-CB-CG2	-6.07	100.07	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	477	ILE	N-CA-C	6.07	116.13	110.42
1	L	493	VAL	CA-CB-CG1	6.07	120.72	110.40
1	N	82	ALA	O-C-N	-6.07	114.88	122.35
1	P	427	GLY	CA-C-O	-6.07	110.00	120.57
1	K	444	ASN	CB-CG-OD1	6.07	132.94	120.80
1	N	91	ASP	CA-C-N	6.07	129.88	121.26
1	N	91	ASP	C-N-CA	6.07	129.88	121.26
1	A	21	GLN	CA-C-O	-6.07	111.83	120.51
1	A	411	PHE	N-CA-C	-6.07	105.70	113.23
1	B	320	LEU	O-C-N	-6.07	114.52	122.59
1	D	8	LEU	CA-C-N	6.07	127.43	119.84
1	D	8	LEU	C-N-CA	6.07	127.43	119.84
1	F	354	VAL	N-CA-CB	6.07	121.25	111.23
1	G	56	VAL	CA-C-N	6.07	129.96	122.37
1	G	56	VAL	C-N-CA	6.07	129.96	122.37
1	K	366	VAL	O-C-N	-6.07	113.74	122.12
1	O	161	LYS	CA-CB-CG	6.07	126.24	114.10
1	O	427	GLY	O-C-N	-6.07	114.93	122.34
1	P	140	CYS	CA-C-O	-6.07	113.68	120.54
1	B	197	LYS	CG-CD-CE	6.07	125.26	111.30
1	B	342	ALA	CA-C-N	-6.07	113.49	122.23
1	B	342	ALA	C-N-CA	-6.07	113.49	122.23
1	G	164	GLU	N-CA-CB	6.07	120.75	110.49
1	K	11	ASN	CB-CG-ND2	-6.07	107.30	116.40
1	P	65	LEU	CB-CA-C	6.07	121.86	110.63
1	A	375	ASP	N-CA-C	6.07	119.89	107.69
1	D	327	SER	O-C-N	6.07	128.24	121.87
1	H	14	ARG	CA-C-N	6.07	131.54	122.99
1	H	14	ARG	C-N-CA	6.07	131.54	122.99
1	K	420	ARG	N-CA-CB	6.07	118.77	109.91
1	M	374	GLU	CA-C-N	6.07	131.69	122.95
1	M	374	GLU	C-N-CA	6.07	131.69	122.95
1	P	66	ARG	CD-NE-CZ	6.07	132.89	124.40
1	A	233	ALA	N-CA-C	6.07	118.79	108.90
1	A	332	ILE	O-C-N	6.07	129.55	123.18
1	A	396	TYR	CA-CB-CG	-6.07	102.98	113.90
1	B	87	LYS	N-CA-CB	6.07	118.71	110.10
1	B	170	LEU	O-C-N	-6.07	114.30	122.43
1	B	242	THR	O-C-N	6.07	130.48	123.02
1	C	475	GLN	CB-CA-C	-6.07	99.60	110.70
1	E	217	GLU	CA-C-N	6.07	133.13	121.54
1	E	217	GLU	C-N-CA	6.07	133.13	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	293	GLU	CA-C-O	-6.07	111.96	119.18
1	F	123	GLY	O-C-N	-6.07	114.81	122.70
1	G	247	LEU	CA-C-O	-6.07	111.83	120.51
1	J	260	ASN	OD1-CG-ND2	-6.07	116.53	122.60
1	K	18	ARG	N-CA-C	6.07	118.67	111.33
1	N	420	ARG	NH1-CZ-NH2	6.07	127.18	119.30
1	O	315	LEU	N-CA-C	6.07	119.37	109.24
1	P	335	GLU	CG-CD-OE1	-6.07	104.45	118.40
1	D	141	GLU	O-C-N	6.06	130.47	122.95
1	E	441	HIS	CE1-NE2-CD2	-6.06	102.94	109.00
1	I	387	VAL	CA-C-O	6.06	126.80	120.25
1	L	130	LYS	CA-CB-CG	6.06	126.23	114.10
1	M	260	ASN	OD1-CG-ND2	-6.06	116.54	122.60
1	M	356	GLU	CG-CD-OE2	6.06	132.35	118.40
1	M	425	ASN	CA-CB-CG	6.06	118.66	112.60
1	A	88	GLU	OE1-CD-OE2	-6.06	108.35	122.90
1	C	348	ARG	CA-C-O	-6.06	114.08	121.36
1	J	311	SER	CB-CA-C	6.06	126.20	111.65
1	K	437	VAL	CB-CA-C	-6.06	103.85	112.22
1	N	390	SER	O-C-N	-6.06	114.86	122.20
1	N	487	LEU	CA-C-N	6.06	130.99	120.68
1	N	487	LEU	C-N-CA	6.06	130.99	120.68
1	E	395	GLU	CA-C-N	6.06	129.01	120.28
1	E	395	GLU	C-N-CA	6.06	129.01	120.28
1	M	351	THR	OG1-CB-CG2	-6.06	97.18	109.30
1	P	464	ASN	OD1-CG-ND2	6.06	128.66	122.60
1	B	211	GLY	CA-C-N	-6.06	113.96	122.75
1	B	211	GLY	C-N-CA	-6.06	113.96	122.75
1	C	367	GLY	CA-C-N	6.06	132.88	121.97
1	C	367	GLY	C-N-CA	6.06	132.88	121.97
1	D	13	LYS	CA-C-O	-6.06	114.27	121.66
1	D	420	ARG	O-C-N	6.06	129.14	122.11
1	J	459	GLU	CA-C-O	-6.06	111.84	120.51
1	N	10	GLU	CB-CG-CD	6.06	122.90	112.60
1	O	346	LEU	N-CA-CB	6.06	118.87	109.48
1	P	253	GLU	CB-CG-CD	-6.06	102.30	112.60
1	B	26	LEU	CB-CA-C	6.06	120.55	110.92
1	B	114	ASN	N-CA-C	6.06	123.70	110.80
1	C	72	HIS	CA-C-N	6.06	125.68	119.56
1	C	72	HIS	C-N-CA	6.06	125.68	119.56
1	E	277	ALA	CA-C-O	6.06	126.36	119.27
1	E	493	VAL	CG1-CB-CG2	6.06	124.13	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	114	ASN	CB-CG-ND2	-6.06	107.31	116.40
1	I	413	ASP	N-CA-C	-6.06	105.60	112.87
1	K	39	LEU	CA-C-N	6.06	131.38	121.87
1	K	39	LEU	C-N-CA	6.06	131.38	121.87
1	K	241	GLU	O-C-N	-6.06	115.33	122.96
1	K	343	VAL	CB-CA-C	-6.06	102.47	111.80
1	N	454	PHE	CG-CD1-CE1	-6.06	110.40	120.70
1	O	57	VAL	CA-CB-CG2	-6.06	100.10	110.40
1	O	487	LEU	CB-CA-C	6.06	122.47	110.42
1	F	494	ILE	N-CA-CB	6.06	117.94	111.46
1	K	433	ILE	O-C-N	6.06	127.99	121.87
1	N	201	ALA	O-C-N	6.06	130.65	122.59
1	A	118	THR	CA-C-N	6.05	130.61	121.65
1	A	118	THR	C-N-CA	6.05	130.61	121.65
1	B	79	ILE	CB-CG1-CD1	6.05	126.51	113.80
1	E	214	VAL	O-C-N	6.05	128.32	122.69
1	I	229	ASP	N-CA-CB	6.05	120.04	110.84
1	L	291	ASP	CB-CG-OD2	6.05	132.33	118.40
1	M	350	THR	N-CA-C	6.05	123.70	110.80
1	M	368	VAL	N-CA-C	6.05	121.94	109.34
1	O	54	ASP	CA-C-N	6.05	130.05	122.48
1	O	54	ASP	C-N-CA	6.05	130.05	122.48
1	B	411	PHE	CB-CG-CD2	6.05	130.99	120.70
1	I	472	VAL	N-CA-C	6.05	116.83	110.72
1	M	124	TYR	CA-C-O	-6.05	111.18	119.05
1	B	258	GLY	O-C-N	6.05	130.57	122.70
1	C	421	THR	CA-CB-OG1	6.05	118.68	109.60
1	F	29	ARG	CA-CB-CG	6.05	126.20	114.10
1	G	211	GLY	O-C-N	-6.05	114.83	122.70
1	J	61	GLY	O-C-N	-6.05	114.83	122.70
1	J	259	ALA	CA-C-N	6.05	133.10	121.54
1	J	259	ALA	C-N-CA	6.05	133.10	121.54
1	J	400	ILE	CA-CB-CG2	6.05	120.79	110.50
1	M	129	GLN	CB-CA-C	6.05	122.46	110.42
1	M	357	GLU	CA-C-O	-6.05	113.52	120.24
1	B	469	PRO	CA-C-O	-6.05	113.60	122.31
1	D	191	ASP	CB-CG-OD2	-6.05	104.49	118.40
1	E	167	LYS	CB-CG-CD	6.05	125.21	111.30
1	G	428	LEU	O-C-N	-6.05	116.14	123.16
1	L	158	ILE	CA-CB-CG2	6.05	120.78	110.50
1	L	364	ASP	CA-C-O	-6.05	114.01	120.42
1	M	151	THR	N-CA-CB	6.05	120.22	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	258	GLY	CA-C-N	6.05	131.30	122.41
1	O	258	GLY	C-N-CA	6.05	131.30	122.41
1	O	493	VAL	N-CA-CB	6.05	119.51	111.64
1	C	317	ASP	CB-CG-OD1	6.05	132.31	118.40
1	J	132	GLN	CA-C-N	-6.05	111.82	120.89
1	J	132	GLN	C-N-CA	-6.05	111.82	120.89
1	A	71	GLU	CA-C-O	-6.05	111.86	120.51
1	B	295	LEU	CA-C-O	-6.05	113.02	119.97
1	D	482	GLU	OE1-CD-OE2	-6.05	108.39	122.90
1	H	105	ARG	N-CA-C	-6.05	104.61	111.14
1	H	118	THR	O-C-N	6.05	132.08	122.41
1	L	275	TYR	N-CA-CB	6.05	120.49	110.33
1	M	340	PRO	CA-C-O	-6.05	113.85	120.92
1	O	289	LYS	N-CA-CB	6.05	120.60	110.32
1	P	106	LYS	CA-CB-CG	-6.05	102.01	114.10
1	N	277	ALA	N-CA-C	6.04	117.95	111.36
1	P	51	ASP	O-C-N	-6.04	114.55	122.59
1	P	496	ALA	CA-C-N	6.04	132.58	121.70
1	P	496	ALA	C-N-CA	6.04	132.58	121.70
1	A	418	ILE	CA-C-O	-6.04	111.85	119.95
1	C	187	LYS	O-C-N	-6.04	114.55	122.59
1	D	475	GLN	CA-C-N	6.04	133.08	121.54
1	D	475	GLN	C-N-CA	6.04	133.08	121.54
1	F	471	ARG	O-C-N	-6.04	115.26	122.15
1	G	45	ASP	N-CA-CB	-6.04	100.28	110.49
1	G	281	ILE	O-C-N	-6.04	114.99	122.97
1	J	184	ASP	CA-CB-CG	6.04	118.64	112.60
1	L	108	GLU	CA-C-N	-6.04	112.18	120.28
1	L	108	GLU	C-N-CA	-6.04	112.18	120.28
1	N	41	PRO	O-C-N	-6.04	113.89	122.35
1	P	37	SER	CA-C-N	6.04	128.66	120.44
1	P	37	SER	C-N-CA	6.04	128.66	120.44
1	A	276	LEU	CA-C-O	-6.04	113.43	120.20
1	A	406	LEU	CA-C-N	6.04	130.67	120.88
1	A	406	LEU	C-N-CA	6.04	130.67	120.88
1	E	407	ALA	CA-C-O	-6.04	114.46	120.80
1	L	273	GLN	CB-CA-C	6.04	122.44	110.42
1	N	375	ASP	CB-CA-C	-6.04	101.01	110.74
1	N	389	LEU	O-C-N	6.04	128.37	122.09
1	P	334	VAL	CA-C-O	6.04	128.33	120.78
1	P	385	THR	N-CA-CB	6.04	120.42	110.39
1	F	172	GLU	CB-CA-C	6.04	119.53	109.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	424	GLU	CA-C-N	6.04	128.37	120.28
1	H	424	GLU	C-N-CA	6.04	128.37	120.28
1	I	308	LYS	O-C-N	6.04	130.62	122.59
1	K	10	GLU	CA-C-N	6.04	133.08	121.54
1	K	10	GLU	C-N-CA	6.04	133.08	121.54
1	L	166	ALA	CA-C-N	6.04	128.69	120.54
1	L	166	ALA	C-N-CA	6.04	128.69	120.54
1	B	34	THR	OG1-CB-CG2	-6.04	97.22	109.30
1	E	32	ALA	O-C-N	-6.04	115.51	122.03
1	F	57	VAL	CA-C-N	-6.04	111.38	121.64
1	F	57	VAL	C-N-CA	-6.04	111.38	121.64
1	O	139	ALA	N-CA-CB	6.04	120.69	110.49
1	B	117	PRO	CA-C-O	-6.04	109.61	120.60
1	E	453	VAL	N-CA-C	6.04	116.82	110.72
1	B	67	GLU	CB-CA-C	-6.04	101.36	110.90
1	C	451	LEU	CA-C-N	-6.04	111.64	120.75
1	C	451	LEU	C-N-CA	-6.04	111.64	120.75
1	E	73	PRO	CB-CA-C	6.04	121.63	112.21
1	E	152	LYS	O-C-N	6.04	128.31	122.03
1	E	185	GLU	N-CA-CB	6.04	120.69	110.49
1	F	414	ALA	O-C-N	-6.04	115.75	122.03
1	J	403	ARG	CA-C-O	-6.04	112.21	119.27
1	J	417	VAL	CA-C-O	-6.04	113.23	120.78
1	J	417	VAL	N-CA-C	6.04	121.89	109.34
1	M	225	LYS	O-C-N	-6.04	114.56	122.59
1	N	265	GLN	CA-CB-CG	6.04	126.17	114.10
1	O	176	GLU	CA-C-O	-6.04	112.67	119.79
1	A	452	ASN	CB-CG-ND2	6.03	125.45	116.40
1	B	490	ILE	N-CA-C	6.03	121.89	109.34
1	C	331	MET	CA-CB-CG	6.03	126.17	114.10
1	D	372	THR	CA-CB-OG1	6.03	118.65	109.60
1	G	316	GLY	CA-C-O	-6.03	115.75	121.90
1	H	29	ARG	NE-CZ-NH2	6.03	124.63	119.20
1	I	59	ASN	CA-C-N	6.03	132.41	121.97
1	I	59	ASN	C-N-CA	6.03	132.41	121.97
1	I	298	ALA	CA-C-N	6.03	133.06	121.54
1	I	298	ALA	C-N-CA	6.03	133.06	121.54
1	L	228	THR	O-C-N	-6.03	114.57	122.59
1	N	205	ASP	CB-CG-OD2	6.03	132.28	118.40
1	O	319	GLY	O-C-N	-6.03	114.86	122.70
1	P	409	ARG	CB-CA-C	-6.03	100.66	110.79
1	F	76	LYS	CB-CA-C	6.03	121.80	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	178	VAL	O-C-N	6.03	128.04	121.83
1	I	261	VAL	O-C-N	6.03	129.75	123.05
1	C	193	ILE	O-C-N	-6.03	114.21	122.59
1	D	98	VAL	CA-CB-CG2	6.03	120.65	110.40
1	G	149	ILE	CA-C-O	-6.03	114.26	120.71
1	I	7	VAL	CA-C-O	-6.03	110.55	120.80
1	I	459	GLU	CG-CD-OE1	6.03	132.27	118.40
1	K	287	VAL	CA-CB-CG1	6.03	120.65	110.40
1	L	90	GLY	CA-C-O	-6.03	110.08	120.57
1	N	323	GLU	CB-CA-C	-6.03	101.05	111.30
1	D	417	VAL	CB-CA-C	6.03	121.50	112.16
1	E	11	ASN	CB-CA-C	6.03	122.42	110.42
1	K	233	ALA	N-CA-CB	-6.03	101.30	110.77
1	B	129	GLN	CA-C-N	6.03	128.36	120.28
1	B	129	GLN	C-N-CA	6.03	128.36	120.28
1	B	243	ALA	N-CA-C	6.03	123.64	110.80
1	C	299	THR	O-C-N	-6.03	114.25	122.33
1	C	441	HIS	CG-CD2-NE2	6.03	113.23	107.20
1	D	218	ARG	CA-C-N	6.03	132.82	121.97
1	D	218	ARG	C-N-CA	6.03	132.82	121.97
1	E	320	LEU	O-C-N	-6.03	116.89	123.52
1	F	287	VAL	O-C-N	-6.03	115.73	122.66
1	L	47	MET	CA-C-O	6.03	128.53	121.11
1	L	51	ASP	N-CA-CB	6.03	119.62	110.28
1	N	13	LYS	CA-C-O	-6.03	113.86	120.43
1	D	111	LEU	CD1-CG-CD2	-6.03	97.54	110.80
1	F	71	GLU	CB-CG-CD	6.03	122.84	112.60
1	G	372	THR	N-CA-C	6.03	123.64	110.80
1	J	278	LYS	N-CA-C	6.03	118.37	111.02
1	L	66	ARG	NE-CZ-NH2	-6.03	113.78	119.20
1	P	102	GLU	O-C-N	-6.03	115.76	122.03
1	P	187	LYS	CA-C-N	6.03	131.54	123.10
1	P	187	LYS	C-N-CA	6.03	131.54	123.10
1	P	227	VAL	CA-C-O	-6.03	113.62	120.67
1	A	34	THR	CB-CA-C	-6.02	98.43	110.42
1	C	29	ARG	O-C-N	6.02	129.02	122.15
1	D	93	THR	CA-CB-OG1	6.02	118.64	109.60
1	D	210	LYS	CA-CB-CG	6.02	126.15	114.10
1	I	11	ASN	CB-CA-C	6.02	122.41	110.42
1	I	366	VAL	CA-C-N	6.02	133.22	121.41
1	I	366	VAL	C-N-CA	6.02	133.22	121.41
1	L	232	ILE	CA-C-O	-6.02	114.73	121.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	267	GLY	N-CA-C	6.02	127.46	113.18
1	C	274	HIS	CA-CB-CG	-6.02	107.78	113.80
1	C	377	ARG	CG-CD-NE	6.02	125.25	112.00
1	D	69	SER	CA-C-O	-6.02	111.90	120.51
1	E	99	VAL	N-CA-CB	-6.02	101.29	111.23
1	E	463	GLU	O-C-N	-6.02	115.28	122.15
1	E	493	VAL	CA-C-O	6.02	128.31	120.78
1	F	7	VAL	CB-CA-C	-6.02	99.96	111.40
1	H	274	HIS	ND1-CG-CD2	6.02	112.12	106.10
1	K	28	GLY	O-C-N	-6.02	114.87	122.70
1	L	119	ILE	O-C-N	6.02	130.10	122.57
1	M	171	ALA	O-C-N	-6.02	114.95	122.24
1	M	257	SER	O-C-N	-6.02	115.39	122.32
1	M	276	LEU	O-C-N	6.02	130.60	122.59
1	A	289	LYS	CG-CD-CE	-6.02	97.45	111.30
1	B	183	ASP	CA-C-O	6.02	127.48	120.80
1	D	252	ALA	O-C-N	-6.02	114.56	122.39
1	E	189	ASP	O-C-N	-6.02	113.96	122.87
1	M	421	THR	N-CA-CB	6.02	120.56	110.32
1	C	198	LYS	O-C-N	-6.02	116.14	123.30
1	D	79	ILE	N-CA-CB	6.02	119.61	110.58
1	I	395	GLU	O-C-N	-6.02	114.50	122.33
1	I	395	GLU	CB-CA-C	6.02	123.67	110.18
1	J	56	VAL	N-CA-C	-6.02	96.82	109.34
1	J	478	GLN	N-CA-CB	6.02	118.71	109.98
1	L	18	ARG	NE-CZ-NH2	-6.02	113.78	119.20
1	M	70	VAL	O-C-N	-6.02	115.05	122.57
1	M	388	GLU	CB-CA-C	6.02	120.41	110.90
1	A	304	ILE	CA-C-N	6.02	133.03	121.54
1	A	304	ILE	C-N-CA	6.02	133.03	121.54
1	D	351	THR	CA-CB-OG1	6.02	118.63	109.60
1	H	106	LYS	N-CA-CB	-6.02	100.95	110.22
1	I	21	GLN	CG-CD-NE2	6.02	125.43	116.40
1	I	69	SER	CA-CB-OG	-6.02	99.06	111.10
1	I	471	ARG	NE-CZ-NH1	6.02	127.52	121.50
1	L	141	GLU	CB-CG-CD	6.02	122.83	112.60
1	M	100	ALA	N-CA-CB	6.02	119.38	110.53
1	P	67	GLU	CB-CA-C	6.02	120.49	110.92
1	I	467	VAL	O-C-N	-6.02	116.65	122.97
1	M	234	LEU	O-C-N	-6.02	115.18	123.12
1	B	251	VAL	CA-CB-CG2	6.01	120.62	110.40
1	C	338	LYS	CA-CB-CG	6.01	126.13	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	97	VAL	CA-CB-CG2	-6.01	100.17	110.40
1	F	84	THR	N-CA-C	6.01	120.46	113.18
1	G	254	ILE	N-CA-CB	6.01	121.15	111.23
1	J	186	GLY	CA-C-O	-6.01	110.11	120.57
1	J	187	LYS	CB-CG-CD	6.01	125.13	111.30
1	M	14	ARG	CA-C-O	-6.01	113.86	120.36
1	N	461	MET	N-CA-CB	6.01	119.08	110.06
1	O	360	ARG	NE-CZ-NH2	6.01	124.61	119.20
1	P	72	HIS	O-C-N	-6.01	114.40	121.32
1	A	68	MET	N-CA-C	6.01	123.61	110.80
1	J	206	THR	CA-CB-CG2	6.01	120.72	110.50
1	M	353	HIS	ND1-CG-CD2	6.01	112.11	106.10
1	M	495	ALA	CA-C-N	6.01	133.03	121.54
1	M	495	ALA	C-N-CA	6.01	133.03	121.54
1	N	53	GLY	CA-C-O	-6.01	114.33	119.56
1	O	274	HIS	O-C-N	-6.01	114.57	122.39
1	A	375	ASP	CA-C-O	-6.01	113.00	120.57
1	C	464	ASN	CA-CB-CG	-6.01	106.59	112.60
1	D	451	LEU	CB-CA-C	6.01	121.33	112.07
1	E	327	SER	N-CA-C	-6.01	103.62	111.74
1	F	39	LEU	CA-C-N	6.01	131.31	121.87
1	F	39	LEU	C-N-CA	6.01	131.31	121.87
1	F	87	LYS	N-CA-C	6.01	120.16	112.34
1	G	420	ARG	O-C-N	6.01	128.52	122.03
1	H	471	ARG	N-CA-C	6.01	120.81	112.45
1	J	423	ALA	O-C-N	-6.01	115.88	122.07
1	K	388	GLU	CA-C-O	-6.01	114.05	120.42
1	L	490	ILE	CA-C-O	-6.01	113.96	121.11
1	O	477	ILE	CA-C-N	6.01	133.02	121.54
1	O	477	ILE	C-N-CA	6.01	133.02	121.54
1	P	461	MET	CA-C-O	6.01	129.11	120.51
1	C	157	SER	CA-C-N	6.01	132.79	121.97
1	C	157	SER	C-N-CA	6.01	132.79	121.97
1	C	342	ALA	N-CA-CB	6.01	121.89	111.13
1	D	404	GLU	CG-CD-OE1	6.01	132.22	118.40
1	F	110	LEU	CA-C-O	-6.01	113.29	120.56
1	F	307	ILE	CB-CG1-CD1	6.01	126.42	113.80
1	I	129	GLN	CA-CB-CG	6.01	126.12	114.10
1	M	497	GLU	N-CA-CB	-6.01	100.28	110.50
1	N	420	ARG	NE-CZ-NH2	6.01	124.61	119.20
1	P	369	VAL	CA-CB-CG2	6.01	120.61	110.40
1	D	482	GLU	N-CA-CB	-6.01	101.76	110.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	202	SER	CA-C-O	-6.01	113.87	120.24
1	K	57	VAL	N-CA-CB	-6.01	103.89	111.46
1	M	291	ASP	CA-CB-CG	6.01	118.61	112.60
1	O	239	ILE	CB-CA-C	6.01	121.14	111.29
1	C	415	LEU	N-CA-CB	6.01	120.64	110.49
1	F	184	ASP	N-CA-C	6.01	123.59	110.80
1	F	495	ALA	N-CA-CB	6.01	122.00	111.55
1	H	231	LYS	CB-CA-C	6.01	121.04	111.73
1	J	411	PHE	CB-CG-CD2	-6.01	110.49	120.70
1	L	15	TYR	CA-C-N	6.01	134.38	123.27
1	L	15	TYR	C-N-CA	6.01	134.38	123.27
1	N	134	LEU	CB-CA-C	6.01	121.74	109.55
1	C	441	HIS	ND1-CE1-NE2	-6.00	102.39	108.40
1	I	110	LEU	CB-CA-C	6.00	120.26	110.95
1	B	224	PRO	CA-C-N	6.00	133.00	121.54
1	B	224	PRO	C-N-CA	6.00	133.00	121.54
1	C	374	GLU	CA-CB-CG	6.00	126.11	114.10
1	D	403	ARG	NE-CZ-NH2	6.00	124.60	119.20
1	E	51	ASP	CB-CG-OD2	6.00	132.21	118.40
1	G	331	MET	CA-C-O	-6.00	113.40	120.60
1	L	178	VAL	N-CA-CB	6.00	118.25	110.57
1	L	335	GLU	CB-CG-CD	-6.00	102.39	112.60
1	M	242	THR	CA-C-O	-6.00	113.53	120.49
1	N	224	PRO	CA-C-O	-6.00	109.67	120.60
1	N	260	ASN	N-CA-C	6.00	119.86	112.54
1	O	119	ILE	N-CA-C	-6.00	105.97	111.67
1	C	230	ALA	CA-C-O	6.00	126.84	120.36
1	D	355	ILE	N-CA-CB	6.00	121.13	111.23
1	E	319	GLY	CA-C-O	-6.00	109.55	119.15
1	G	349	GLY	CA-C-O	-6.00	114.25	121.33
1	H	358	VAL	CA-C-O	-6.00	112.32	119.58
1	J	269	ASP	CA-CB-CG	6.00	118.60	112.60
1	K	451	LEU	CA-C-N	-6.00	112.19	120.71
1	K	451	LEU	C-N-CA	-6.00	112.19	120.71
1	M	50	ASP	CA-C-O	-6.00	114.27	121.89
1	N	470	LEU	N-CA-CB	6.00	119.23	110.47
1	O	260	ASN	N-CA-CB	6.00	120.89	110.39
1	F	43	GLY	O-C-N	6.00	133.84	122.80
1	F	293	GLU	CG-CD-OE1	-6.00	104.60	118.40
1	K	270	ASP	N-CA-CB	6.00	119.54	110.30
1	M	22	ARG	CG-CD-NE	6.00	125.20	112.00
1	A	176	GLU	CA-C-O	-6.00	113.07	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	210	LYS	O-C-N	-6.00	114.61	122.59
1	B	244	SER	CA-C-N	6.00	133.00	121.54
1	B	244	SER	C-N-CA	6.00	133.00	121.54
1	D	148	GLU	CB-CG-CD	6.00	122.80	112.60
1	F	230	ALA	N-CA-C	6.00	118.70	110.24
1	F	281	ILE	N-CA-C	6.00	121.82	109.34
1	G	389	LEU	N-CA-C	-6.00	104.81	111.71
1	I	93	THR	N-CA-C	-6.00	104.43	110.97
1	N	422	LEU	CA-C-N	6.00	128.60	120.44
1	N	422	LEU	C-N-CA	6.00	128.60	120.44
1	P	33	GLU	CA-C-N	6.00	128.64	120.54
1	P	33	GLU	C-N-CA	6.00	128.64	120.54
1	P	88	GLU	CB-CA-C	6.00	122.36	110.42
1	P	470	LEU	N-CA-C	-6.00	104.48	112.94
1	A	153	ILE	CA-CB-CG1	6.00	120.60	110.40
1	B	396	TYR	CB-CA-C	6.00	120.29	110.88
1	C	61	GLY	CA-C-O	-6.00	110.14	120.57
1	G	269	ASP	N-CA-CB	6.00	118.60	110.38
1	I	440	ALA	CA-C-O	6.00	126.86	119.79
1	J	461	MET	CB-CA-C	-6.00	100.84	110.79
1	L	27	ALA	N-CA-CB	6.00	118.71	110.01
1	L	324	ARG	CD-NE-CZ	-6.00	116.01	124.40
1	N	124	TYR	N-CA-C	6.00	123.57	110.80
1	O	174	ILE	CA-CB-CG1	6.00	120.59	110.40
1	D	339	HIS	O-C-N	6.00	126.75	121.17
1	K	343	VAL	CA-CB-CG2	6.00	120.59	110.40
1	K	487	LEU	CB-CA-C	6.00	122.09	110.46
1	L	227	VAL	N-CA-C	6.00	117.11	108.48
1	L	266	LYS	N-CA-CB	-6.00	101.62	110.85
1	L	325	LYS	O-C-N	6.00	130.30	122.93
1	C	455	THR	CA-C-N	-5.99	109.66	121.41
1	C	455	THR	C-N-CA	-5.99	109.66	121.41
1	E	29	ARG	CA-CB-CG	5.99	126.09	114.10
1	F	282	VAL	CB-CA-C	5.99	118.18	111.59
1	H	102	GLU	O-C-N	5.99	128.47	122.12
1	H	404	GLU	CA-C-N	5.99	132.99	121.54
1	H	404	GLU	C-N-CA	5.99	132.99	121.54
1	J	363	ASP	N-CA-CB	5.99	119.57	110.28
1	M	325	LYS	O-C-N	-5.99	115.41	122.96
1	I	270	ASP	CA-C-O	5.99	129.08	120.51
1	I	491	ASP	CB-CG-OD2	5.99	132.18	118.40
1	J	353	HIS	N-CA-CB	5.99	120.62	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	424	GLU	CA-C-O	-5.99	114.53	120.82
1	M	111	LEU	CA-C-O	-5.99	113.49	120.20
1	B	280	GLY	N-CA-C	5.99	122.94	114.85
1	C	438	ARG	NE-CZ-NH1	5.99	127.49	121.50
1	D	85	GLN	CB-CA-C	5.99	121.71	110.63
1	D	110	LEU	CA-C-O	-5.99	112.53	119.78
1	D	272	ALA	CB-CA-C	5.99	120.19	110.96
1	F	352	GLU	CA-CB-CG	-5.99	102.12	114.10
1	H	190	LYS	CB-CG-CD	5.99	125.08	111.30
1	K	167	LYS	N-CA-CB	-5.99	100.67	110.14
1	N	470	LEU	CA-C-N	5.99	130.18	120.60
1	N	470	LEU	C-N-CA	5.99	130.18	120.60
1	O	469	PRO	O-C-N	-5.99	114.55	122.64
1	D	141	GLU	CB-CG-CD	5.99	122.78	112.60
1	E	253	GLU	CB-CG-CD	-5.99	102.42	112.60
1	G	286	ARG	O-C-N	5.99	133.05	122.09
1	I	145	GLN	CB-CG-CD	5.99	122.78	112.60
1	I	397	ALA	CA-C-O	5.99	126.77	120.42
1	K	212	VAL	CB-CA-C	5.99	119.74	110.28
1	G	24	ASN	CA-C-N	5.99	132.75	121.97
1	G	24	ASN	C-N-CA	5.99	132.75	121.97
1	N	147	LYS	CG-CD-CE	5.99	125.07	111.30
1	A	87	LYS	CA-C-O	-5.99	114.20	120.55
1	B	29	ARG	NE-CZ-NH1	5.99	127.48	121.50
1	C	360	ARG	CA-C-O	5.99	126.85	119.79
1	D	378	ILE	N-CA-C	5.99	118.07	108.85
1	E	43	GLY	O-C-N	5.99	128.86	122.93
1	I	195	ILE	CB-CA-C	-5.99	101.47	111.29
1	J	273	GLN	CA-C-N	5.99	132.97	121.54
1	J	273	GLN	C-N-CA	5.99	132.97	121.54
1	N	182	VAL	N-CA-CB	5.99	118.82	110.56
1	O	152	LYS	N-CA-C	-5.99	106.52	113.88
1	O	283	ALA	CA-C-O	-5.99	113.37	120.43
1	P	76	LYS	CA-CB-CG	-5.99	102.13	114.10
1	F	203	ILE	O-C-N	-5.98	115.09	122.57
1	H	26	LEU	N-CA-C	-5.98	104.68	111.14
1	L	81	VAL	O-C-N	-5.98	116.36	122.23
1	A	441	HIS	CB-CA-C	5.98	121.02	110.85
1	B	434	LEU	CA-C-O	-5.98	114.17	120.63
1	H	10	GLU	CA-C-O	-5.98	111.95	120.51
1	H	372	THR	CA-C-O	-5.98	112.54	119.78
1	I	69	SER	N-CA-C	5.98	123.54	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	77	MET	CA-C-O	-5.98	111.78	119.80
1	N	388	GLU	CB-CG-CD	5.98	122.77	112.60
1	O	24	ASN	O-C-N	5.98	128.23	122.07
1	P	113	GLN	CG-CD-OE1	5.98	132.77	120.80
1	P	330	SER	CA-C-N	5.98	131.91	122.94
1	P	330	SER	C-N-CA	5.98	131.91	122.94
1	C	41	PRO	N-CD-CG	5.98	112.17	103.20
1	D	60	ASP	CB-CG-OD1	5.98	132.16	118.40
1	D	179	SER	CA-C-O	-5.98	111.29	119.12
1	F	89	VAL	N-CA-C	5.98	121.78	109.34
1	F	152	LYS	CA-C-N	-5.98	113.18	122.09
1	F	152	LYS	C-N-CA	-5.98	113.18	122.09
1	I	265	GLN	CA-C-N	5.98	134.33	123.27
1	I	265	GLN	C-N-CA	5.98	134.33	123.27
1	K	157	SER	CA-C-O	-5.98	113.34	120.10
1	K	302	ASN	CB-CA-C	5.98	120.21	110.22
1	K	315	LEU	CA-C-N	5.98	127.79	122.47
1	K	315	LEU	C-N-CA	5.98	127.79	122.47
1	P	276	LEU	N-CA-CB	5.98	119.03	110.06
1	B	84	THR	N-CA-C	5.98	123.53	110.80
1	C	142	VAL	CA-C-O	5.98	128.25	120.78
1	F	113	GLN	CA-C-O	-5.98	110.84	120.65
1	H	305	THR	N-CA-CB	5.98	120.59	110.49
1	P	189	ASP	CA-C-O	5.98	126.90	120.32
1	B	437	VAL	CA-C-N	5.98	128.21	120.44
1	B	437	VAL	C-N-CA	5.98	128.21	120.44
1	H	322	GLU	CA-C-O	-5.98	114.24	120.70
1	I	205	ASP	N-CA-C	5.98	121.62	113.37
1	K	103	LEU	O-C-N	5.98	130.38	122.43
1	L	209	ILE	CA-C-N	-5.98	110.12	121.54
1	L	209	ILE	C-N-CA	-5.98	110.12	121.54
1	N	63	THR	N-CA-C	5.98	123.53	110.80
1	B	363	ASP	N-CA-CB	5.98	119.42	110.22
1	C	39	LEU	O-C-N	-5.98	115.96	123.01
1	D	30	ILE	CB-CA-C	-5.98	101.49	111.29
1	E	310	LEU	CA-C-N	5.98	132.95	121.54
1	E	310	LEU	C-N-CA	5.98	132.95	121.54
1	I	434	LEU	CA-C-N	5.98	130.10	120.30
1	I	434	LEU	C-N-CA	5.98	130.10	120.30
1	K	24	ASN	O-C-N	5.98	128.31	122.09
1	L	270	ASP	CA-C-N	5.98	132.96	121.54
1	L	270	ASP	C-N-CA	5.98	132.96	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	171	ALA	O-C-N	-5.98	113.87	122.36
1	A	113	GLN	CA-C-O	-5.97	111.97	120.51
1	C	181	VAL	CA-CB-CG1	-5.97	100.24	110.40
1	E	260	ASN	CB-CA-C	5.97	121.68	110.63
1	H	441	HIS	O-C-N	-5.97	114.46	122.23
1	I	216	LYS	CA-C-N	5.97	133.74	123.05
1	I	216	LYS	C-N-CA	5.97	133.74	123.05
1	M	102	GLU	O-C-N	-5.97	114.64	122.59
1	M	370	GLY	N-CA-C	-5.97	106.23	115.73
1	N	302	ASN	CB-CG-OD1	5.97	132.75	120.80
1	O	360	ARG	CB-CG-CD	5.97	125.04	111.30
1	P	302	ASN	N-CA-C	5.97	118.03	108.41
1	P	333	PHE	CB-CG-CD2	-5.97	110.54	120.70
1	C	71	GLU	CG-CD-OE1	-5.97	104.66	118.40
1	C	266	LYS	CB-CG-CD	5.97	125.03	111.30
1	H	45	ASP	O-C-N	5.97	129.60	122.20
1	H	225	LYS	CB-CG-CD	5.97	125.04	111.30
1	H	458	VAL	CA-CB-CG2	5.97	120.56	110.40
1	K	77	MET	N-CA-CB	5.97	120.09	110.42
1	L	295	LEU	CA-C-N	5.97	132.95	121.54
1	L	295	LEU	C-N-CA	5.97	132.95	121.54
1	L	394	ARG	CD-NE-CZ	5.97	132.76	124.40
1	M	357	GLU	CA-CB-CG	5.97	126.04	114.10
1	O	134	LEU	N-CA-CB	5.97	119.31	110.53
1	O	328	GLY	O-C-N	-5.97	114.94	122.70
1	F	107	ALA	N-CA-CB	5.97	119.50	110.30
1	K	239	ILE	O-C-N	5.97	130.03	122.57
1	E	73	PRO	CA-N-CD	-5.97	103.64	112.00
1	I	94	THR	O-C-N	5.97	128.54	122.09
1	I	175	VAL	N-CA-C	-5.97	104.69	110.72
1	I	394	ARG	N-CA-CB	-5.97	101.30	110.13
1	L	439	ALA	O-C-N	5.97	128.45	122.12
1	N	302	ASN	N-CA-C	5.97	118.25	108.52
1	A	307	ILE	CB-CG1-CD1	5.97	126.33	113.80
1	F	79	ILE	CA-CB-CG1	5.97	120.55	110.40
1	G	105	ARG	CD-NE-CZ	-5.97	116.05	124.40
1	C	345	MET	CA-C-N	5.97	129.34	120.87
1	C	345	MET	C-N-CA	5.97	129.34	120.87
1	C	493	VAL	CA-C-O	5.97	128.79	120.86
1	D	452	ASN	N-CA-C	-5.97	100.12	109.25
1	G	82	ALA	CA-C-N	5.97	128.76	120.29
1	G	82	ALA	C-N-CA	5.97	128.76	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	334	VAL	N-CA-CB	5.97	121.07	111.23
1	K	149	ILE	CA-C-O	5.97	127.25	120.03
1	N	131	ALA	O-C-N	-5.97	114.14	122.37
1	N	320	LEU	CA-C-O	-5.97	111.94	120.11
1	O	77	MET	N-CA-C	5.97	123.51	110.80
1	O	218	ARG	CA-C-O	5.97	126.84	120.46
1	B	260	ASN	N-CA-C	5.96	120.29	112.89
1	C	111	LEU	N-CA-C	5.96	123.50	110.80
1	D	275	TYR	N-CA-CB	5.96	119.15	110.26
1	G	137	THR	N-CA-CB	5.96	118.99	110.16
1	H	7	VAL	CA-CB-CG1	5.96	120.54	110.40
1	N	113	GLN	CG-CD-OE1	5.96	132.73	120.80
1	N	425	ASN	CB-CG-ND2	-5.96	107.45	116.40
1	P	165	LYS	CB-CA-C	5.96	120.32	110.90
1	C	106	LYS	CB-CA-C	-5.96	100.89	110.79
1	H	263	PHE	N-CA-C	5.96	118.45	108.02
1	K	292	MET	CB-CG-SD	5.96	130.59	112.70
1	M	423	ALA	CA-C-O	-5.96	114.54	120.80
1	M	461	MET	N-CA-CB	5.96	118.98	110.16
1	C	140	CYS	N-CA-C	5.96	118.89	108.52
1	E	351	THR	CA-CB-CG2	5.96	120.64	110.50
1	F	185	GLU	N-CA-C	5.96	123.50	110.80
1	G	88	GLU	CB-CG-CD	5.96	122.74	112.60
1	H	321	VAL	CA-CB-CG2	5.96	120.53	110.40
1	K	217	GLU	N-CA-CB	-5.96	100.66	110.68
1	L	274	HIS	N-CA-C	5.96	120.28	113.19
1	M	41	PRO	O-C-N	-5.96	114.53	122.22
1	M	442	ALA	N-CA-C	-5.96	105.86	113.01
1	O	390	SER	CB-CA-C	-5.96	98.56	110.42
1	A	351	THR	CA-C-O	5.96	128.81	121.60
1	G	9	PRO	CA-C-N	5.96	130.74	121.26
1	G	9	PRO	C-N-CA	5.96	130.74	121.26
1	J	433	ILE	N-CA-CB	5.96	117.79	110.64
1	K	344	THR	CA-C-N	-5.96	114.65	123.11
1	K	344	THR	C-N-CA	-5.96	114.65	123.11
1	A	131	ALA	CA-C-O	-5.96	111.92	119.31
1	B	109	GLU	CB-CG-CD	-5.96	102.47	112.60
1	F	269	ASP	CA-C-N	5.96	130.66	120.71
1	F	269	ASP	C-N-CA	5.96	130.66	120.71
1	F	330	SER	N-CA-CB	5.96	118.93	109.51
1	G	91	ASP	CB-CG-OD1	5.96	132.10	118.40
1	G	284	ALA	N-CA-C	5.96	118.54	107.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	30	ILE	CA-C-O	-5.96	113.33	120.78
1	I	23	MET	O-C-N	5.96	129.98	122.23
1	I	400	ILE	CA-C-O	-5.96	113.81	120.25
1	J	183	ASP	CA-C-N	5.96	132.92	121.54
1	J	183	ASP	C-N-CA	5.96	132.92	121.54
1	J	387	VAL	N-CA-C	5.96	120.47	111.89
1	O	11	ASN	CB-CA-C	5.96	122.28	110.42
1	P	254	ILE	CA-C-N	5.96	130.67	120.72
1	P	254	ILE	C-N-CA	5.96	130.67	120.72
1	P	307	ILE	CA-CB-CG2	5.96	120.63	110.50
1	A	348	ARG	N-CA-C	5.96	119.23	110.59
1	B	316	GLY	O-C-N	5.96	129.48	123.11
1	C	68	MET	N-CA-CB	-5.96	100.42	110.49
1	C	260	ASN	CB-CG-OD1	5.96	132.71	120.80
1	E	86	GLU	CA-CB-CG	5.96	126.01	114.10
1	H	337	CYS	O-C-N	-5.96	115.08	122.82
1	J	76	LYS	CA-C-N	5.96	132.92	121.54
1	J	76	LYS	C-N-CA	5.96	132.92	121.54
1	J	495	ALA	N-CA-C	5.96	118.27	109.69
1	K	60	ASP	CA-C-O	5.96	127.48	120.69
1	L	84	THR	CA-C-O	-5.96	114.24	120.55
1	M	44	MET	CB-CG-SD	5.96	130.57	112.70
1	P	327	SER	N-CA-CB	5.96	120.56	110.49
1	B	344	THR	O-C-N	5.96	130.66	123.16
1	J	36	ARG	N-CA-CB	-5.96	101.05	110.22
1	L	56	VAL	CB-CA-C	-5.96	101.52	111.29
1	L	139	ALA	O-C-N	5.96	130.51	122.59
1	L	359	ALA	N-CA-CB	-5.96	101.35	110.16
1	L	454	PHE	CA-C-O	-5.96	114.57	120.82
1	M	444	ASN	CA-CB-CG	5.96	118.56	112.60
1	P	462	CYS	N-CA-CB	5.96	119.49	109.78
1	C	180	ALA	CB-CA-C	5.95	118.67	109.03
1	G	87	LYS	CD-CE-NZ	5.95	130.95	111.90
1	G	336	GLU	CG-CD-OE1	5.95	132.09	118.40
1	H	482	GLU	CA-CB-CG	5.95	126.01	114.10
1	I	87	LYS	O-C-N	-5.95	114.45	122.43
1	N	103	LEU	CA-C-O	-5.95	111.60	119.10
1	E	463	GLU	CG-CD-OE1	-5.95	104.71	118.40
1	J	362	VAL	N-CA-C	5.95	118.91	112.96
1	A	86	GLU	N-CA-CB	5.95	118.97	110.16
1	A	238	ALA	CA-C-O	-5.95	112.00	120.51
1	B	305	THR	N-CA-CB	5.95	120.55	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	395	GLU	N-CA-CB	5.95	120.27	110.39
1	C	364	ASP	N-CA-CB	5.95	118.60	109.91
1	C	489	ARG	N-CA-CB	5.95	120.55	110.49
1	E	439	ALA	CA-C-O	-5.95	113.53	120.20
1	I	182	VAL	CA-C-O	-5.95	113.34	120.78
1	J	34	THR	N-CA-CB	5.95	120.55	110.49
1	J	242	THR	CA-CB-CG2	5.95	120.62	110.50
1	N	341	LYS	O-C-N	5.95	129.97	122.23
1	O	298	ALA	N-CA-C	5.95	123.47	110.80
1	O	429	ASP	CA-C-O	5.95	129.02	120.51
1	P	419	PRO	O-C-N	-5.95	114.24	122.27
1	C	462	CYS	N-CA-C	5.95	123.47	110.80
1	D	119	ILE	N-CA-CB	5.95	121.05	111.23
1	D	390	SER	CB-CA-C	-5.95	101.46	110.92
1	E	441	HIS	N-CA-C	5.95	119.01	111.69
1	F	177	ALA	O-C-N	-5.95	113.52	122.20
1	K	252	ALA	N-CA-C	5.95	123.47	110.80
1	L	472	VAL	N-CA-C	5.95	121.71	109.34
1	P	199	SER	N-CA-C	5.95	123.47	110.80
1	B	158	ILE	CA-C-N	5.95	131.90	122.74
1	B	158	ILE	C-N-CA	5.95	131.90	122.74
1	E	339	HIS	CE1-NE2-CD2	5.95	114.95	109.00
1	F	188	VAL	CA-C-O	-5.95	114.20	120.39
1	F	431	ILE	CB-CA-C	5.95	119.83	112.04
1	O	19	ASP	N-CA-C	5.95	123.47	110.80
1	E	10	GLU	N-CA-C	5.95	118.44	110.35
1	F	357	GLU	CB-CG-CD	5.95	122.71	112.60
1	I	105	ARG	CD-NE-CZ	-5.95	116.08	124.40
1	L	373	ILE	N-CA-CB	5.95	121.04	111.23
1	L	437	VAL	N-CA-C	5.95	120.77	112.50
1	A	189	ASP	CB-CA-C	5.94	119.58	109.53
1	A	361	ALA	CA-C-N	5.94	128.84	121.71
1	A	361	ALA	C-N-CA	5.94	128.84	121.71
1	B	132	GLN	N-CA-CB	5.94	118.86	109.82
1	D	25	ILE	O-C-N	5.94	130.00	122.57
1	J	234	LEU	N-CA-C	5.94	118.41	108.96
1	M	377	ARG	NE-CZ-NH1	5.94	127.44	121.50
1	A	285	ARG	CA-CB-CG	5.94	125.98	114.10
1	D	395	GLU	CB-CG-CD	5.94	122.70	112.60
1	H	294	LYS	N-CA-C	5.94	120.60	112.04
1	J	253	GLU	OE1-CD-OE2	5.94	137.16	122.90
1	M	180	ALA	CB-CA-C	5.94	121.61	109.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	341	LYS	N-CA-CB	5.94	120.42	110.32
1	N	245	GLU	N-CA-C	5.94	120.25	111.04
1	A	55	VAL	CA-CB-CG1	-5.94	100.30	110.40
1	C	296	ALA	CA-C-O	5.94	129.01	120.51
1	E	44	MET	CA-C-O	-5.94	114.06	121.55
1	E	354	VAL	N-CA-CB	5.94	122.54	110.78
1	G	250	MET	N-CA-CB	5.94	118.62	110.01
1	G	430	ALA	O-C-N	-5.94	114.69	122.59
1	J	366	VAL	CA-C-O	5.94	126.80	119.43
1	L	167	LYS	N-CA-CB	5.94	118.79	109.94
1	L	271	LEU	CA-C-O	-5.94	112.02	120.51
1	N	312	ALA	CA-C-O	-5.94	112.49	120.15
1	P	303	VAL	O-C-N	5.94	130.00	122.57
1	E	457	ALA	O-C-N	-5.94	116.64	122.99
1	H	446	ASN	CA-C-O	-5.94	114.58	120.82
1	O	291	ASP	CB-CG-OD2	5.94	132.06	118.40
1	D	348	ARG	CA-C-O	-5.94	114.42	120.71
1	G	130	LYS	CG-CD-CE	5.94	124.96	111.30
1	G	190	LYS	CA-CB-CG	5.94	125.98	114.10
1	H	236	ASN	CA-C-N	5.94	132.88	121.54
1	H	236	ASN	C-N-CA	5.94	132.88	121.54
1	K	70	VAL	CA-CB-CG2	5.94	120.49	110.40
1	N	336	GLU	CB-CG-CD	5.94	122.69	112.60
1	E	145	GLN	CA-CB-CG	-5.94	102.23	114.10
1	I	177	ALA	CB-CA-C	5.94	122.23	110.42
1	J	152	LYS	CA-C-N	5.94	130.03	120.30
1	J	152	LYS	C-N-CA	5.94	130.03	120.30
1	L	174	ILE	CA-C-O	-5.94	113.90	120.96
1	M	266	LYS	CA-C-O	-5.94	112.96	120.20
1	P	287	VAL	O-C-N	-5.94	115.15	122.57
1	E	489	ARG	CB-CA-C	5.93	122.23	110.42
1	H	22	ARG	CD-NE-CZ	-5.93	116.09	124.40
1	J	228	THR	CA-CB-OG1	-5.93	100.70	109.60
1	J	478	GLN	CB-CG-CD	5.93	122.69	112.60
1	K	305	THR	OG1-CB-CG2	-5.93	97.43	109.30
1	L	215	ASP	O-C-N	5.93	131.69	122.67
1	P	360	ARG	O-C-N	-5.93	115.96	122.07
1	A	396	TYR	CB-CG-CD1	-5.93	111.90	120.80
1	A	412	ALA	CB-CA-C	-5.93	100.82	110.79
1	B	357	GLU	CA-C-O	5.93	126.71	120.42
1	G	455	THR	CA-C-O	5.93	125.67	119.14
1	G	496	ALA	N-CA-CB	5.93	118.94	110.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	50	ASP	OD1-CG-OD2	-5.93	108.66	122.90
1	L	343	VAL	CA-C-O	-5.93	115.38	120.96
1	O	245	GLU	CA-CB-CG	5.93	125.97	114.10
1	P	80	GLU	N-CA-CB	5.93	120.52	110.49
1	P	268	ILE	N-CA-C	-5.93	99.69	107.88
1	A	469	PRO	CA-CB-CG	5.93	115.77	104.50
1	F	152	LYS	CG-CD-CE	5.93	124.94	111.30
1	I	429	ASP	N-CA-CB	5.93	119.14	109.95
1	J	116	HIS	CB-CG-CD2	-5.93	123.49	131.20
1	C	60	ASP	CA-CB-CG	5.93	118.53	112.60
1	E	280	GLY	CA-C-O	-5.93	112.24	119.06
1	F	270	ASP	CB-CG-OD1	-5.93	104.76	118.40
1	H	285	ARG	CA-C-O	-5.93	114.42	120.71
1	M	218	ARG	NE-CZ-NH1	5.93	127.43	121.50
1	M	401	SER	N-CA-CB	5.93	120.51	110.49
1	M	477	ILE	CB-CA-C	-5.93	104.47	111.94
1	P	171	ALA	N-CA-C	-5.93	105.13	112.90
1	P	440	ALA	N-CA-C	-5.93	106.21	113.50
1	A	128	ALA	N-CA-CB	5.93	119.38	110.19
1	C	330	SER	CB-CA-C	5.93	119.52	109.80
1	J	88	GLU	N-CA-CB	5.93	120.75	110.44
1	L	25	ILE	N-CA-CB	-5.93	104.39	110.62
1	L	438	ARG	CA-C-N	5.93	128.22	120.28
1	L	438	ARG	C-N-CA	5.93	128.22	120.28
1	A	441	HIS	N-CA-C	5.93	117.82	111.36
1	B	423	ALA	CB-CA-C	-5.93	99.85	110.70
1	C	218	ARG	O-C-N	-5.93	115.58	122.87
1	G	119	ILE	CB-CG1-CD1	5.93	126.24	113.80
1	G	475	GLN	CG-CD-NE2	-5.93	107.51	116.40
1	H	31	ILE	CB-CA-C	5.93	121.01	111.29
1	H	218	ARG	CD-NE-CZ	5.93	132.70	124.40
1	I	249	ASP	N-CA-CB	5.93	118.95	110.06
1	L	375	ASP	OD1-CG-OD2	-5.93	108.67	122.90
1	O	237	CYS	N-CA-CB	5.93	119.30	110.29
1	P	293	GLU	CA-C-N	5.93	128.70	120.29
1	P	293	GLU	C-N-CA	5.93	128.70	120.29
1	A	145	GLN	CA-C-N	5.92	132.85	121.54
1	A	145	GLN	C-N-CA	5.92	132.85	121.54
1	F	423	ALA	CB-CA-C	-5.92	99.86	110.70
1	A	236	ASN	N-CA-CB	5.92	120.22	110.39
1	C	488	LEU	CA-C-N	5.92	132.85	121.54
1	C	488	LEU	C-N-CA	5.92	132.85	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	156	THR	CB-CA-C	5.92	120.91	110.37
1	J	248	LYS	N-CA-C	-5.92	104.22	112.45
1	N	251	VAL	CG1-CB-CG2	-5.92	97.77	110.80
1	A	245	GLU	CB-CA-C	5.92	122.20	110.42
1	B	391	MET	O-C-N	5.92	131.08	122.43
1	D	304	ILE	CA-CB-CG2	5.92	120.57	110.50
1	E	483	SER	N-CA-CB	5.92	119.37	110.19
1	H	333	PHE	CA-CB-CG	5.92	119.72	113.80
1	K	43	GLY	N-CA-C	-5.92	99.15	113.18
1	K	68	MET	CA-C-O	-5.92	112.04	120.51
1	N	114	ASN	CB-CA-C	-5.92	102.36	111.66
1	P	291	ASP	CA-C-N	5.92	128.49	120.44
1	P	291	ASP	C-N-CA	5.92	128.49	120.44
1	P	306	ASN	N-CA-CB	-5.92	102.20	110.25
1	D	369	VAL	N-CA-CB	5.92	121.00	111.23
1	E	270	ASP	CA-C-O	-5.92	111.97	119.31
1	E	438	ARG	CB-CA-C	-5.92	101.01	110.84
1	O	295	LEU	O-C-N	-5.92	114.72	122.59
1	A	325	LYS	CA-CB-CG	-5.92	102.26	114.10
1	D	50	ASP	O-C-N	-5.92	116.31	122.94
1	D	396	TYR	CB-CG-CD1	-5.92	111.92	120.80
1	E	325	LYS	CA-C-N	5.92	131.39	123.10
1	E	325	LYS	C-N-CA	5.92	131.39	123.10
1	M	270	ASP	CB-CG-OD2	5.92	132.01	118.40
1	O	24	ASN	CB-CG-ND2	5.92	125.28	116.40
1	B	260	ASN	N-CA-CB	5.92	120.05	110.40
1	L	444	ASN	CA-CB-CG	5.92	118.52	112.60
1	M	424	GLU	O-C-N	5.92	128.39	122.12
1	N	165	LYS	CG-CD-CE	5.92	124.91	111.30
1	N	283	ALA	N-CA-CB	-5.92	100.42	111.13
1	N	338	LYS	N-CA-CB	5.92	120.49	110.49
1	P	382	GLY	O-C-N	5.92	129.66	122.32
1	P	390	SER	CB-CA-C	-5.92	101.51	110.92
1	P	467	VAL	CA-C-N	5.92	133.55	121.48
1	P	467	VAL	C-N-CA	5.92	133.55	121.48
1	B	85	GLN	CB-CG-CD	5.92	122.66	112.60
1	B	286	ARG	NH1-CZ-NH2	-5.92	111.61	119.30
1	E	77	MET	O-C-N	-5.92	114.70	122.39
1	G	59	ASN	CB-CA-C	-5.92	98.89	109.24
1	I	220	SER	N-CA-CB	5.92	118.66	109.85
1	I	299	THR	CB-CA-C	5.92	122.19	110.42
1	K	144	ALA	O-C-N	-5.92	114.72	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	140	CYS	CA-CB-SG	5.92	128.00	114.40
1	C	409	ARG	CA-C-N	5.91	129.30	120.31
1	C	409	ARG	C-N-CA	5.91	129.30	120.31
1	K	395	GLU	CB-CA-C	5.91	119.94	109.65
1	I	79	ILE	CB-CG1-CD1	5.91	126.22	113.80
1	I	207	GLU	CB-CA-C	-5.91	99.12	110.24
1	B	125	GLN	O-C-N	-5.91	115.14	122.11
1	D	164	GLU	O-C-N	5.91	130.45	122.59
1	E	346	LEU	CA-CB-CG	5.91	136.99	116.30
1	K	360	ARG	O-C-N	-5.91	114.73	122.59
1	K	398	GLU	O-C-N	5.91	130.45	122.59
1	L	377	ARG	CA-CB-CG	-5.91	102.28	114.10
1	P	106	LYS	CB-CA-C	-5.91	97.85	110.32
1	B	484	THR	CA-CB-OG1	-5.91	100.74	109.60
1	C	400	ILE	N-CA-C	5.91	121.63	109.34
1	F	75	ALA	N-CA-C	5.91	123.39	110.80
1	G	401	SER	CA-C-N	5.91	128.72	122.63
1	G	401	SER	C-N-CA	5.91	128.72	122.63
1	J	85	GLN	CB-CA-C	5.91	120.89	110.85
1	K	153	ILE	CA-C-O	5.91	127.08	120.64
1	M	201	ALA	CA-C-N	5.91	132.83	121.54
1	M	201	ALA	C-N-CA	5.91	132.83	121.54
1	A	42	LYS	CB-CA-C	5.91	119.93	109.65
1	F	58	THR	CB-CA-C	-5.91	99.91	109.89
1	H	239	ILE	CA-CB-CG1	5.91	120.44	110.40
1	A	480	ALA	O-C-N	-5.91	114.33	122.30
1	E	281	ILE	O-C-N	5.91	128.98	122.66
1	F	260	ASN	CA-C-O	-5.91	112.34	119.49
1	H	41	PRO	CA-C-N	5.91	131.81	122.60
1	H	41	PRO	C-N-CA	5.91	131.81	122.60
1	I	102	GLU	CG-CD-OE1	-5.91	104.81	118.40
1	I	191	ASP	CA-C-O	-5.91	114.58	120.90
1	J	296	ALA	CA-C-O	5.91	126.81	120.55
1	K	369	VAL	CA-CB-CG2	5.91	120.44	110.40
1	O	8	LEU	CA-C-N	5.91	127.22	119.84
1	O	8	LEU	C-N-CA	5.91	127.22	119.84
1	B	198	LYS	CA-C-N	5.90	129.66	120.75
1	B	198	LYS	C-N-CA	5.90	129.66	120.75
1	C	244	SER	CB-CA-C	5.90	122.17	110.42
1	D	30	ILE	N-CA-CB	5.90	120.97	111.23
1	D	394	ARG	CA-C-O	5.90	127.00	120.80
1	I	60	ASP	N-CA-C	5.90	119.38	110.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	420	ARG	N-CA-C	-5.90	101.89	111.04
1	E	80	GLU	CB-CG-CD	-5.90	102.57	112.60
1	G	99	VAL	N-CA-CB	5.90	125.16	111.23
1	J	190	LYS	CB-CA-C	5.90	118.49	109.34
1	J	247	LEU	N-CA-CB	5.90	118.91	110.06
1	O	350	THR	CA-CB-CG2	5.90	120.53	110.50
1	G	227	VAL	CA-C-O	-5.90	114.22	120.48
1	G	306	ASN	O-C-N	-5.90	114.74	122.59
1	K	362	VAL	CB-CA-C	5.90	120.97	111.29
1	O	465	GLY	N-CA-C	5.90	127.16	113.18
1	G	226	LYS	CA-CB-CG	5.90	125.90	114.10
1	G	442	ALA	O-C-N	5.90	130.28	122.43
1	O	440	ALA	CA-C-O	5.90	126.67	120.42
1	B	80	GLU	O-C-N	5.90	130.27	122.43
1	C	390	SER	N-CA-C	5.90	117.40	110.97
1	I	493	VAL	O-C-N	5.90	129.30	122.99
1	K	189	ASP	CB-CG-OD2	5.90	131.97	118.40
1	L	22	ARG	CA-C-N	5.90	128.18	120.28
1	L	22	ARG	C-N-CA	5.90	128.18	120.28
1	L	52	LEU	CA-C-O	-5.90	113.44	120.10
1	L	113	GLN	CA-C-O	-5.90	111.39	119.12
1	D	97	VAL	CB-CA-C	-5.90	101.62	111.29
1	F	358	VAL	CA-C-N	5.90	130.66	120.58
1	F	358	VAL	C-N-CA	5.90	130.66	120.58
1	L	27	ALA	CB-CA-C	5.90	120.14	110.88
1	D	343	VAL	N-CA-CB	5.89	120.95	111.23
1	E	206	THR	CB-CA-C	5.89	120.06	110.22
1	G	232	ILE	CA-CB-CG1	5.89	120.42	110.40
1	I	125	GLN	CA-C-O	5.89	127.01	120.82
1	K	195	ILE	CA-CB-CG2	-5.89	100.48	110.50
1	L	66	ARG	NH1-CZ-NH2	-5.89	111.64	119.30
1	M	437	VAL	CA-C-O	-5.89	114.51	121.05
1	N	338	LYS	CA-CB-CG	5.89	125.89	114.10
1	A	99	VAL	CA-C-O	5.89	128.15	120.78
1	A	322	GLU	CA-CB-CG	5.89	125.88	114.10
1	B	448	CYS	CB-CA-C	5.89	120.53	110.81
1	F	216	LYS	N-CA-C	5.89	118.14	109.24
1	G	36	ARG	CA-C-O	-5.89	112.08	120.51
1	G	157	SER	CB-CA-C	5.89	121.51	109.67
1	J	352	GLU	N-CA-C	5.89	123.35	110.80
1	K	104	LEU	N-CA-CB	5.89	119.44	110.42
1	K	386	GLU	CA-C-O	5.89	127.67	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	343	VAL	O-C-N	5.89	128.85	123.19
1	O	331	MET	CB-CA-C	-5.89	100.50	109.99
1	O	495	ALA	CA-C-N	5.89	132.79	121.54
1	O	495	ALA	C-N-CA	5.89	132.79	121.54
1	B	224	PRO	CB-CA-C	5.89	121.28	111.56
1	F	329	ASP	CA-CB-CG	5.89	118.49	112.60
1	G	223	MET	CA-C-N	5.89	127.20	119.84
1	G	223	MET	C-N-CA	5.89	127.20	119.84
1	J	11	ASN	N-CA-CB	5.89	120.44	110.49
1	K	179	SER	CA-C-O	-5.89	112.15	119.28
1	L	36	ARG	CD-NE-CZ	5.89	132.65	124.40
1	L	215	ASP	CB-CA-C	5.89	119.81	111.74
1	P	114	ASN	N-CA-CB	-5.89	104.61	114.27
1	D	404	GLU	N-CA-CB	5.89	120.44	110.49
1	E	359	ALA	O-C-N	5.89	130.72	122.36
1	H	251	VAL	N-CA-CB	5.89	117.30	110.65
1	J	93	THR	CB-CA-C	-5.89	101.01	110.79
1	O	373	ILE	CA-C-O	-5.89	113.42	120.78
1	O	486	MET	CA-C-O	5.89	128.93	120.51
1	I	293	GLU	CA-C-N	5.89	129.72	120.89
1	I	293	GLU	C-N-CA	5.89	129.72	120.89
1	K	152	LYS	CA-CB-CG	5.89	125.87	114.10
1	K	368	VAL	CA-C-O	-5.89	113.89	120.25
1	M	67	GLU	N-CA-C	5.89	118.20	111.02
1	M	129	GLN	CB-CG-CD	5.89	122.61	112.60
1	M	290	SER	N-CA-C	-5.89	104.50	111.03
1	N	330	SER	O-C-N	-5.89	116.15	123.04
1	O	116	HIS	CB-CA-C	5.89	121.77	110.17
1	A	299	THR	CB-CA-C	5.88	120.20	110.90
1	B	73	PRO	N-CA-C	-5.88	106.00	114.18
1	B	223	MET	CA-C-O	5.88	128.22	120.16
1	D	49	VAL	CA-C-O	-5.88	114.34	120.64
1	D	488	LEU	CA-C-O	5.88	126.70	119.05
1	J	297	LYS	N-CA-CB	5.88	118.97	110.20
1	L	187	LYS	CB-CG-CD	5.88	124.83	111.30
1	N	457	ALA	CA-C-N	-5.88	115.52	122.93
1	N	457	ALA	C-N-CA	-5.88	115.52	122.93
1	P	50	ASP	OD1-CG-OD2	5.88	137.02	122.90
1	E	296	ALA	O-C-N	-5.88	115.88	122.12
1	K	494	ILE	O-C-N	5.88	129.42	122.83
1	N	274	HIS	CB-CG-ND1	-5.88	113.88	122.70
1	B	117	PRO	O-C-N	5.88	130.58	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	492	ASP	N-CA-CB	-5.88	100.55	110.49
1	C	494	ILE	CA-C-N	5.88	131.93	121.75
1	C	494	ILE	C-N-CA	5.88	131.93	121.75
1	D	112	ASP	N-CA-CB	5.88	119.15	110.33
1	F	31	ILE	N-CA-C	5.88	121.58	109.34
1	G	317	ASP	N-CA-CB	5.88	120.36	110.77
1	H	81	VAL	N-CA-CB	5.88	119.40	110.58
1	H	197	LYS	CA-C-O	-5.88	112.34	120.52
1	K	341	LYS	CA-C-N	5.88	131.15	121.39
1	K	341	LYS	C-N-CA	5.88	131.15	121.39
1	N	310	LEU	CA-C-O	-5.88	112.10	120.51
1	O	121	VAL	N-CA-C	-5.88	104.59	111.00
1	L	247	LEU	N-CA-CB	5.88	119.15	110.33
1	P	245	GLU	CB-CA-C	5.88	122.12	110.42
1	B	314	ASP	CA-C-N	5.88	133.26	122.92
1	B	314	ASP	C-N-CA	5.88	133.26	122.92
1	J	249	ASP	CA-CB-CG	5.88	118.48	112.60
1	M	245	GLU	N-CA-C	5.88	123.32	110.80
1	M	255	LYS	N-CA-C	5.88	123.32	110.80
1	M	324	ARG	N-CA-C	5.88	118.25	108.20
1	O	274	HIS	CG-CD2-NE2	-5.88	101.32	107.20
1	P	17	GLY	CA-C-O	-5.88	114.21	121.56
1	P	265	GLN	CB-CG-CD	-5.88	102.61	112.60
1	A	486	MET	CA-CB-CG	5.88	125.85	114.10
1	B	172	GLU	N-CA-C	-5.88	103.58	112.04
1	B	369	VAL	CB-CA-C	5.88	119.94	111.65
1	C	494	ILE	O-C-N	-5.88	115.77	122.94
1	D	154	ALA	O-C-N	5.88	128.35	122.12
1	F	170	LEU	CB-CA-C	-5.88	100.69	110.68
1	G	466	VAL	CB-CA-C	5.88	120.93	111.29
1	I	279	GLU	O-C-N	-5.88	114.59	122.23
1	J	235	LEU	CD1-CG-CD2	5.88	123.73	110.80
1	K	473	LYS	CA-CB-CG	5.88	125.85	114.10
1	L	54	ASP	N-CA-CB	5.88	120.42	110.49
1	M	266	LYS	CB-CA-C	5.88	119.19	110.14
1	O	227	VAL	N-CA-C	5.88	116.94	108.48
1	O	303	VAL	N-CA-CB	-5.88	104.57	111.39
1	P	388	GLU	O-C-N	-5.88	114.01	122.36
1	P	487	LEU	CB-CA-C	5.88	122.11	110.42
1	B	327	SER	N-CA-C	-5.88	103.30	111.52
1	B	384	SER	O-C-N	-5.88	114.35	122.46
1	C	85	GLN	CB-CA-C	5.88	120.66	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	33	GLU	OE1-CD-OE2	-5.88	108.80	122.90
1	F	39	LEU	N-CA-CB	5.88	119.06	109.95
1	G	285	ARG	CB-CA-C	5.88	120.35	109.54
1	K	312	ALA	N-CA-C	5.88	120.93	107.48
1	N	347	ILE	O-C-N	-5.88	115.23	122.57
1	P	195	ILE	CA-C-N	5.88	129.72	121.02
1	P	195	ILE	C-N-CA	5.88	129.72	121.02
1	P	349	GLY	CA-C-N	5.88	132.76	121.54
1	P	349	GLY	C-N-CA	5.88	132.76	121.54
1	A	403	ARG	CD-NE-CZ	-5.87	116.18	124.40
1	C	351	THR	CA-CB-OG1	5.87	118.41	109.60
1	D	375	ASP	O-C-N	-5.87	116.36	123.29
1	E	145	GLN	CG-CD-NE2	5.87	125.21	116.40
1	J	350	THR	CA-CB-OG1	5.87	118.41	109.60
1	L	24	ASN	CB-CA-C	5.87	120.06	110.95
1	M	21	GLN	CA-C-N	5.87	128.43	120.44
1	M	21	GLN	C-N-CA	5.87	128.43	120.44
1	P	154	ALA	CB-CA-C	5.87	120.26	110.92
1	C	396	TYR	CA-C-N	5.87	128.62	120.63
1	C	396	TYR	C-N-CA	5.87	128.62	120.63
1	D	115	VAL	CA-C-O	5.87	128.12	120.78
1	E	250	MET	O-C-N	5.87	129.86	122.23
1	F	94	THR	O-C-N	5.87	128.89	122.20
1	J	371	CYS	N-CA-CB	5.87	120.41	110.49
1	J	493	VAL	O-C-N	-5.87	117.07	123.18
1	N	337	CYS	CA-C-N	5.87	132.75	121.54
1	N	337	CYS	C-N-CA	5.87	132.75	121.54
1	O	481	ALA	N-CA-C	5.87	119.27	111.75
1	P	380	SER	N-CA-CB	-5.87	100.57	110.49
1	B	245	GLU	N-CA-C	5.87	123.30	110.80
1	D	323	GLU	CA-C-N	5.87	131.27	123.05
1	D	323	GLU	C-N-CA	5.87	131.27	123.05
1	H	374	GLU	CB-CG-CD	5.87	122.58	112.60
1	I	212	VAL	CA-CB-CG1	5.87	120.38	110.40
1	O	301	ALA	N-CA-C	5.87	123.30	110.80
1	A	163	ALA	CB-CA-C	-5.87	98.74	110.42
1	B	66	ARG	O-C-N	-5.87	115.75	122.09
1	B	198	LYS	CA-C-O	5.87	127.36	120.43
1	B	220	SER	N-CA-C	5.87	119.09	109.76
1	C	487	LEU	N-CA-C	-5.87	105.38	112.54
1	E	314	ASP	N-CA-CB	5.87	120.41	110.49
1	F	382	GLY	CA-C-O	-5.87	110.36	120.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	497	GLU	N-CA-CB	5.87	120.48	110.50
1	G	84	THR	CA-CB-OG1	5.87	118.40	109.60
1	G	182	VAL	N-CA-C	5.87	117.29	109.37
1	J	474	THR	N-CA-C	-5.87	104.80	111.14
1	K	57	VAL	CA-C-O	-5.87	114.25	120.53
1	N	8	LEU	N-CA-C	5.87	118.79	110.40
1	O	364	ASP	N-CA-C	5.87	118.46	111.71
1	P	30	ILE	N-CA-CB	5.87	120.91	111.23
1	C	227	VAL	CA-CB-CG2	-5.87	100.42	110.40
1	D	233	ALA	CA-C-N	-5.87	114.50	123.07
1	D	233	ALA	C-N-CA	-5.87	114.50	123.07
1	J	78	LEU	O-C-N	-5.87	115.83	122.23
1	K	117	PRO	CA-C-O	-5.87	109.92	120.60
1	M	359	ALA	N-CA-CB	5.87	119.33	110.30
1	N	366	VAL	CB-CA-C	5.87	119.72	112.04
1	O	40	GLY	N-CA-C	5.87	124.31	112.34
1	A	238	ALA	CA-C-N	5.87	129.53	122.26
1	A	238	ALA	C-N-CA	5.87	129.53	122.26
1	H	277	ALA	CB-CA-C	5.87	122.34	110.38
1	K	219	VAL	CA-CB-CG2	5.87	120.37	110.40
1	M	66	ARG	CG-CD-NE	5.87	124.90	112.00
1	M	118	THR	N-CA-C	5.87	123.29	110.80
1	O	454	PHE	CG-CD1-CE1	5.87	130.67	120.70
1	P	34	THR	N-CA-C	-5.87	104.07	111.11
1	A	174	ILE	CA-C-O	-5.86	114.44	120.71
1	A	412	ALA	O-C-N	-5.86	115.08	122.17
1	B	307	ILE	N-CA-C	5.86	121.54	109.34
1	E	478	GLN	CG-CD-NE2	-5.86	107.61	116.40
1	H	34	THR	CA-CB-OG1	5.86	118.40	109.60
1	I	148	GLU	CA-C-O	-5.86	114.84	121.00
1	J	352	GLU	CB-CA-C	5.86	122.09	110.42
1	L	88	GLU	CB-CG-CD	5.86	122.57	112.60
1	O	454	PHE	CD1-CE1-CZ	-5.86	109.44	120.00
1	D	240	GLU	CA-CB-CG	5.86	125.82	114.10
1	E	373	ILE	O-C-N	-5.86	116.17	121.91
1	F	486	MET	N-CA-C	-5.86	104.81	111.14
1	I	189	ASP	CA-C-O	5.86	127.60	120.92
1	K	337	CYS	O-C-N	5.86	129.89	122.91
1	B	385	THR	CA-CB-CG2	5.86	120.46	110.50
1	E	76	LYS	CA-C-O	-5.86	112.74	119.60
1	E	248	LYS	O-C-N	5.86	130.68	122.36
1	F	73	PRO	O-C-N	5.86	129.56	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	394	ARG	CB-CG-CD	5.86	124.78	111.30
1	M	289	LYS	N-CA-CB	5.86	120.64	110.39
1	O	385	THR	O-C-N	-5.86	114.48	122.33
1	D	269	ASP	O-C-N	-5.86	116.41	123.03
1	F	492	ASP	O-C-N	-5.86	116.74	123.42
1	K	353	HIS	N-CA-C	5.86	117.36	110.97
1	P	218	ARG	NE-CZ-NH2	5.86	124.47	119.20
1	B	275	TYR	CG-CD1-CE1	5.86	129.99	121.20
1	C	263	PHE	CA-CB-CG	5.86	119.66	113.80
1	D	389	LEU	N-CA-C	-5.86	104.98	111.36
1	G	18	ARG	CA-C-O	5.86	127.17	120.90
1	G	360	ARG	N-CA-CB	5.86	118.80	110.13
1	G	446	ASN	N-CA-C	5.86	121.04	111.37
1	H	217	GLU	CA-C-N	-5.86	113.72	122.74
1	H	217	GLU	C-N-CA	-5.86	113.72	122.74
1	I	18	ARG	N-CA-CB	5.86	118.72	109.82
1	I	145	GLN	OE1-CD-NE2	5.86	128.46	122.60
1	L	16	MET	CB-CA-C	-5.86	100.29	111.48
1	L	94	THR	N-CA-CB	5.86	120.39	110.49
1	O	168	GLU	O-C-N	-5.86	116.04	122.07
1	F	33	GLU	CB-CG-CD	5.86	122.55	112.60
1	L	21	GLN	CB-CG-CD	5.86	122.56	112.60
1	L	145	GLN	OE1-CD-NE2	5.86	128.46	122.60
1	O	339	HIS	CA-C-O	-5.86	112.14	120.16
1	B	377	ARG	NE-CZ-NH1	-5.85	115.65	121.50
1	G	176	GLU	CA-C-O	5.85	126.72	120.10
1	H	33	GLU	CA-C-O	5.85	126.57	119.49
1	J	465	GLY	CA-C-O	-5.85	110.38	120.57
1	L	189	ASP	O-C-N	-5.85	116.10	123.01
1	P	214	VAL	N-CA-C	5.85	121.52	109.34
1	A	168	GLU	CG-CD-OE1	-5.85	104.94	118.40
1	B	46	LYS	CB-CG-CD	5.85	124.76	111.30
1	B	167	LYS	CG-CD-CE	5.85	124.76	111.30
1	C	423	ALA	N-CA-CB	-5.85	101.28	110.06
1	F	290	SER	N-CA-CB	5.85	118.45	109.91
1	F	318	ALA	CB-CA-C	-5.85	98.19	109.37
1	H	66	ARG	NE-CZ-NH2	5.85	124.47	119.20
1	H	248	LYS	CB-CA-C	5.85	122.06	110.42
1	K	49	VAL	CA-CB-CG2	5.85	120.35	110.40
1	K	487	LEU	CA-C-N	5.85	132.99	121.58
1	K	487	LEU	C-N-CA	5.85	132.99	121.58
1	L	7	VAL	CA-C-O	-5.85	110.85	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	25	ILE	O-C-N	-5.85	115.64	121.96
1	O	325	LYS	CB-CA-C	5.85	118.59	110.16
1	B	8	LEU	CD1-CG-CD2	5.85	123.67	110.80
1	M	188	VAL	N-CA-C	5.85	121.51	109.34
1	M	381	GLY	CA-C-O	-5.85	110.39	120.57
1	N	284	ALA	N-CA-CB	-5.85	101.49	110.85
1	N	409	ARG	N-CA-CB	5.85	118.46	109.98
1	E	406	LEU	N-CA-CB	-5.85	101.28	110.46
1	G	29	ARG	CA-C-N	5.85	132.50	121.97
1	G	29	ARG	C-N-CA	5.85	132.50	121.97
1	G	196	GLU	CA-C-O	-5.85	113.80	120.58
1	L	122	LYS	N-CA-CB	5.85	120.27	110.32
1	L	420	ARG	NE-CZ-NH2	-5.85	113.94	119.20
1	N	18	ARG	NE-CZ-NH2	5.85	124.46	119.20
1	N	195	ILE	CA-C-N	-5.85	114.99	122.77
1	N	195	ILE	C-N-CA	-5.85	114.99	122.77
1	C	408	VAL	CA-CB-CG2	5.85	120.34	110.40
1	F	124	TYR	O-C-N	-5.85	113.89	122.43
1	F	293	GLU	O-C-N	5.85	128.09	122.07
1	F	441	HIS	CG-CD2-NE2	-5.85	101.35	107.20
1	G	395	GLU	CB-CG-CD	5.85	122.54	112.60
1	I	96	ALA	O-C-N	5.85	130.37	122.59
1	J	321	VAL	CA-C-N	5.85	131.24	122.99
1	J	321	VAL	C-N-CA	5.85	131.24	122.99
1	N	93	THR	OG1-CB-CG2	5.85	121.00	109.30
1	N	137	THR	CA-CB-CG2	-5.85	100.56	110.50
1	P	191	ASP	N-CA-CB	5.85	119.64	110.46
1	C	412	ALA	O-C-N	-5.85	115.60	122.32
1	N	82	ALA	CA-C-N	5.85	128.59	120.29
1	N	82	ALA	C-N-CA	5.85	128.59	120.29
1	C	120	VAL	CB-CA-C	5.84	119.36	111.88
1	I	94	THR	OG1-CB-CG2	-5.84	97.61	109.30
1	J	335	GLU	CB-CA-C	5.84	119.44	109.80
1	M	299	THR	N-CA-CB	5.84	118.71	110.12
1	D	420	ARG	N-CA-CB	5.84	118.66	110.07
1	F	63	THR	N-CA-CB	5.84	119.65	109.72
1	F	102	GLU	OE1-CD-OE2	5.84	136.92	122.90
1	H	113	GLN	O-C-N	-5.84	114.82	122.59
1	L	245	GLU	CB-CA-C	5.84	122.05	110.42
1	M	34	THR	N-CA-C	-5.84	98.35	110.80
1	P	93	THR	CB-CA-C	-5.84	101.67	110.90
1	P	365	ALA	CA-C-O	-5.84	113.66	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	478	GLN	CG-CD-OE1	5.84	132.48	120.80
1	G	166	ALA	N-CA-CB	5.84	119.46	110.46
1	I	357	GLU	CA-C-N	-5.84	112.17	121.34
1	I	357	GLU	C-N-CA	-5.84	112.17	121.34
1	M	345	MET	CB-CA-C	-5.84	101.33	110.74
1	O	239	ILE	CA-CB-CG2	5.84	120.43	110.50
1	O	470	LEU	CA-C-O	-5.84	114.69	120.82
1	A	414	ALA	N-CA-C	5.84	118.43	111.71
1	E	280	GLY	CA-C-N	5.84	129.29	120.77
1	E	280	GLY	C-N-CA	5.84	129.29	120.77
1	G	235	LEU	CB-CA-C	5.84	119.35	111.70
1	I	65	LEU	CA-C-N	5.84	132.69	121.54
1	I	65	LEU	C-N-CA	5.84	132.69	121.54
1	K	163	ALA	O-C-N	-5.84	114.82	122.59
1	L	227	VAL	CA-C-O	-5.84	113.84	120.67
1	C	337	CYS	CB-CA-C	5.84	119.23	109.89
1	F	161	LYS	O-C-N	-5.84	115.02	122.78
1	H	393	LEU	O-C-N	-5.84	115.09	122.27
1	M	238	ALA	O-C-N	5.84	130.35	122.59
1	M	366	VAL	O-C-N	-5.84	115.20	121.80
1	O	7	VAL	CA-CB-CG1	-5.84	100.47	110.40
1	P	203	ILE	O-C-N	5.84	129.87	122.57
1	C	205	ASP	CB-CG-OD2	5.84	131.82	118.40
1	E	164	GLU	CA-CB-CG	5.84	125.77	114.10
1	F	39	LEU	CA-C-O	-5.84	114.04	120.69
1	I	145	GLN	N-CA-CB	5.84	119.88	110.42
1	J	88	GLU	O-C-N	-5.84	114.91	122.09
1	N	169	LYS	CA-CB-CG	5.84	125.77	114.10
1	O	246	MET	CA-CB-CG	5.84	125.77	114.10
1	O	294	LYS	CA-C-O	-5.84	114.65	121.07
1	B	144	ALA	N-CA-CB	-5.83	100.63	110.49
1	E	355	ILE	N-CA-CB	5.83	118.92	110.52
1	D	430	ALA	CA-C-N	5.83	132.47	121.97
1	D	430	ALA	C-N-CA	5.83	132.47	121.97
1	E	465	GLY	CA-C-O	-5.83	110.42	120.57
1	J	385	THR	CA-C-N	5.83	132.68	121.54
1	J	385	THR	C-N-CA	5.83	132.68	121.54
1	K	475	GLN	CB-CA-C	-5.83	99.08	110.11
1	L	357	GLU	O-C-N	-5.83	115.73	122.03
1	M	89	VAL	N-CA-CB	5.83	119.33	110.58
1	M	107	ALA	O-C-N	5.83	130.51	122.46
1	M	246	MET	N-CA-C	5.83	120.99	111.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	181	VAL	N-CA-CB	5.83	118.92	110.52
1	B	14	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	B	361	ALA	N-CA-CB	5.83	120.68	110.42
1	F	238	ALA	CA-C-O	-5.83	114.53	120.71
1	G	462	CYS	N-CA-C	5.83	123.22	110.80
1	K	49	VAL	N-CA-C	5.83	116.26	108.27
1	L	308	LYS	O-C-N	5.83	129.97	122.39
1	N	195	ILE	CB-CG1-CD1	5.83	126.05	113.80
1	B	66	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	D	343	VAL	CA-CB-CG2	5.83	120.31	110.40
1	G	391	MET	N-CA-C	-5.83	106.01	113.01
1	L	306	ASN	O-C-N	-5.83	114.97	122.72
1	N	288	LYS	CA-C-O	-5.83	114.84	121.72
1	B	329	ASP	O-C-N	-5.83	115.82	123.16
1	H	254	ILE	CA-CB-CG2	5.83	120.41	110.50
1	I	253	GLU	O-C-N	-5.83	113.71	122.28
1	J	125	GLN	CB-CG-CD	5.83	122.51	112.60
1	K	74	ALA	N-CA-C	-5.83	104.29	111.40
1	M	91	ASP	O-C-N	-5.83	116.58	123.11
1	M	335	GLU	CB-CG-CD	5.83	122.51	112.60
1	N	260	ASN	CB-CG-ND2	-5.83	107.66	116.40
1	O	129	GLN	CA-C-O	-5.83	114.88	121.00
1	O	356	GLU	CA-CB-CG	5.83	125.76	114.10
1	P	363	ASP	CA-CB-CG	5.83	118.43	112.60
1	L	170	LEU	CB-CG-CD2	5.83	128.18	110.70
1	A	448	CYS	CB-CA-C	5.83	120.86	112.12
1	G	120	VAL	N-CA-C	5.83	121.46	109.34
1	H	391	MET	O-C-N	-5.83	113.92	122.43
1	K	299	THR	CA-CB-CG2	5.83	120.40	110.50
1	K	471	ARG	CA-C-O	5.83	126.66	119.79
1	L	294	LYS	O-C-N	-5.83	114.42	122.46
1	C	485	GLU	CA-C-O	5.82	126.59	120.42
1	D	11	ASN	N-CA-CB	5.82	120.33	110.49
1	D	295	LEU	CA-C-N	5.82	134.04	121.64
1	D	295	LEU	C-N-CA	5.82	134.04	121.64
1	G	103	LEU	CA-C-N	5.82	133.15	122.79
1	G	103	LEU	C-N-CA	5.82	133.15	122.79
1	G	440	ALA	O-C-N	5.82	130.13	122.33
1	J	323	GLU	CA-C-N	5.82	131.03	123.00
1	J	323	GLU	C-N-CA	5.82	131.03	123.00
1	K	133	GLU	CB-CA-C	5.82	120.10	110.90
1	K	456	GLY	CA-C-N	5.82	132.66	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	456	GLY	C-N-CA	5.82	132.66	121.54
1	L	89	VAL	CG1-CB-CG2	-5.82	97.99	110.80
1	O	375	ASP	N-CA-CB	5.82	121.67	111.13
1	O	409	ARG	CA-C-O	-5.82	114.70	120.82
1	C	477	ILE	N-CA-C	5.82	119.24	111.44
1	H	38	THR	N-CA-CB	-5.82	102.85	110.59
1	J	374	GLU	CG-CD-OE1	5.82	131.79	118.40
1	K	380	SER	CA-C-N	-5.82	110.00	121.41
1	K	380	SER	C-N-CA	-5.82	110.00	121.41
1	A	206	THR	O-C-N	-5.82	115.86	123.02
1	A	268	ILE	CA-C-O	-5.82	113.50	120.78
1	E	175	VAL	CG1-CB-CG2	-5.82	97.99	110.80
1	F	459	GLU	OE1-CD-OE2	-5.82	108.93	122.90
1	H	75	ALA	CA-C-N	5.82	130.53	120.58
1	H	75	ALA	C-N-CA	5.82	130.53	120.58
1	I	119	ILE	O-C-N	5.82	129.47	121.90
1	I	174	ILE	CA-C-O	-5.82	114.59	121.05
1	I	350	THR	O-C-N	-5.82	114.85	122.59
1	J	153	ILE	O-C-N	5.82	128.38	121.80
1	J	240	GLU	CB-CA-C	5.82	120.09	110.78
1	O	64	ILE	CB-CG1-CD1	5.82	126.02	113.80
1	P	26	LEU	CA-C-N	-5.82	112.19	122.26
1	P	26	LEU	C-N-CA	-5.82	112.19	122.26
1	A	157	SER	CB-CA-C	5.82	121.84	110.67
1	A	351	THR	O-C-N	-5.82	114.55	122.81
1	P	270	ASP	CA-C-O	-5.82	112.19	120.51
1	C	41	PRO	O-C-N	-5.82	114.78	122.64
1	E	60	ASP	CB-CA-C	5.82	118.56	109.84
1	J	29	ARG	CA-C-N	5.82	132.44	121.97
1	J	29	ARG	C-N-CA	5.82	132.44	121.97
1	K	257	SER	O-C-N	-5.82	114.85	122.59
1	K	366	VAL	N-CA-C	-5.82	104.41	112.50
1	O	146	ASP	OD1-CG-OD2	-5.82	108.94	122.90
1	P	492	ASP	O-C-N	-5.82	116.75	123.33
1	F	471	ARG	CB-CA-C	-5.82	100.96	110.85
1	I	253	GLU	CA-C-N	5.82	132.44	121.97
1	I	253	GLU	C-N-CA	5.82	132.44	121.97
1	I	351	THR	CA-C-O	5.82	128.82	120.51
1	I	357	GLU	N-CA-CB	5.82	119.61	109.72
1	I	488	LEU	CB-CA-C	-5.82	100.97	110.85
1	K	201	ALA	N-CA-C	5.82	123.19	110.80
1	K	355	ILE	O-C-N	-5.82	115.30	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	423	ALA	N-CA-C	5.82	117.42	111.14
1	L	148	GLU	CA-C-O	-5.82	112.19	120.51
1	N	304	ILE	CA-CB-CG1	5.82	120.29	110.40
1	P	245	GLU	CA-CB-CG	5.82	125.73	114.10
1	H	374	GLU	CA-C-O	-5.81	112.47	119.27
1	I	243	ALA	O-C-N	-5.81	114.86	122.59
1	J	274	HIS	ND1-CG-CD2	-5.81	100.29	106.10
1	A	354	VAL	CA-CB-CG1	5.81	120.28	110.40
1	B	120	VAL	CG1-CB-CG2	5.81	123.59	110.80
1	D	195	ILE	O-C-N	5.81	128.11	122.30
1	D	333	PHE	CB-CG-CD1	-5.81	110.82	120.70
1	E	269	ASP	CA-C-O	-5.81	114.86	121.72
1	E	416	GLU	O-C-N	-5.81	114.86	122.59
1	F	88	GLU	N-CA-CB	5.81	120.31	110.49
1	H	387	VAL	CB-CA-C	-5.81	104.29	112.14
1	H	474	THR	CA-C-O	-5.81	114.26	120.42
1	I	343	VAL	N-CA-CB	-5.81	104.39	110.72
1	K	66	ARG	N-CA-CB	-5.81	101.64	110.07
1	L	162	GLY	O-C-N	-5.81	115.14	122.70
1	M	222	GLN	OE1-CD-NE2	5.81	128.41	122.60
1	P	298	ALA	N-CA-CB	5.81	120.31	110.49
1	P	335	GLU	N-CA-CB	-5.81	101.77	110.60
1	B	129	GLN	CB-CA-C	5.81	121.09	110.11
1	C	314	ASP	O-C-N	-5.81	114.86	122.59
1	D	409	ARG	NE-CZ-NH2	-5.81	113.97	119.20
1	F	496	ALA	O-C-N	5.81	130.32	122.59
1	H	20	ALA	N-CA-C	-5.81	102.03	111.04
1	O	403	ARG	CA-C-N	5.81	132.64	121.54
1	O	403	ARG	C-N-CA	5.81	132.64	121.54
1	A	167	LYS	CG-CD-CE	5.81	124.66	111.30
1	B	95	THR	N-CA-C	-5.81	106.19	113.28
1	C	291	ASP	N-CA-C	5.81	119.84	112.87
1	C	351	THR	N-CA-C	5.81	119.10	109.46
1	F	153	ILE	O-C-N	-5.81	116.51	122.14
1	G	374	GLU	CB-CA-C	5.81	119.86	109.29
1	K	348	ARG	O-C-N	-5.81	115.33	123.11
1	L	312	ALA	CA-C-O	5.81	126.71	120.20
1	M	51	ASP	O-C-N	-5.81	114.86	122.59
1	O	398	GLU	CA-C-O	5.81	126.60	119.05
1	P	53	GLY	N-CA-C	5.81	123.38	115.30
1	P	340	PRO	CA-C-O	-5.81	110.03	120.60
1	A	214	VAL	O-C-N	-5.81	115.31	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	78	LEU	N-CA-C	5.81	120.50	113.41
1	H	302	ASN	O-C-N	-5.81	116.44	123.29
1	K	190	LYS	N-CA-C	5.81	119.55	112.23
1	O	400	ILE	CA-CB-CG1	5.81	120.27	110.40
1	P	49	VAL	N-CA-CB	5.81	120.81	111.23
1	A	366	VAL	CA-C-O	-5.81	114.91	120.95
1	E	376	GLY	CA-C-N	5.81	129.11	120.87
1	E	376	GLY	C-N-CA	5.81	129.11	120.87
1	G	133	GLU	OE1-CD-OE2	5.81	136.83	122.90
1	J	488	LEU	N-CA-C	5.81	119.55	112.23
1	A	25	ILE	CA-C-O	-5.80	115.23	121.27
1	B	80	GLU	OE1-CD-OE2	5.80	136.83	122.90
1	D	41	PRO	O-C-N	5.80	130.48	122.64
1	D	53	GLY	N-CA-C	5.80	121.68	114.37
1	D	284	ALA	N-CA-CB	5.80	121.56	110.82
1	E	119	ILE	O-C-N	5.80	129.83	122.57
1	E	189	ASP	CA-C-N	5.80	132.62	121.54
1	E	189	ASP	C-N-CA	5.80	132.62	121.54
1	H	281	ILE	CB-CG1-CD1	-5.80	101.61	113.80
1	K	56	VAL	CA-CB-CG2	5.80	120.27	110.40
1	O	411	PHE	CB-CA-C	5.80	122.12	109.99
1	P	113	GLN	N-CA-CB	5.80	120.30	110.49
1	E	64	ILE	O-C-N	-5.80	115.32	122.57
1	H	222	GLN	N-CA-CB	-5.80	101.28	110.22
1	K	42	LYS	CB-CA-C	-5.80	98.31	111.83
1	C	77	MET	CA-CB-CG	5.80	125.70	114.10
1	D	140	CYS	N-CA-C	5.80	118.70	109.24
1	E	195	ILE	CB-CA-C	-5.80	101.78	111.29
1	E	268	ILE	N-CA-C	-5.80	99.70	108.17
1	F	411	PHE	CB-CG-CD1	5.80	130.56	120.70
1	G	7	VAL	CB-CA-C	-5.80	100.38	111.40
1	J	252	ALA	CA-C-O	5.80	126.59	119.05
1	L	96	ALA	CA-C-O	5.80	126.91	120.82
1	L	412	ALA	CB-CA-C	-5.80	101.29	110.86
1	M	12	MET	CB-CA-C	-5.80	98.88	110.42
1	M	235	LEU	CA-C-N	5.80	131.29	121.14
1	M	235	LEU	C-N-CA	5.80	131.29	121.14
1	B	347	ILE	CA-C-O	-5.80	113.53	120.78
1	C	60	ASP	N-CA-CB	-5.80	100.66	109.94
1	D	265	GLN	OE1-CD-NE2	5.80	128.40	122.60
1	E	145	GLN	CG-CD-OE1	-5.80	109.20	120.80
1	G	476	ALA	O-C-N	5.80	130.10	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	23	MET	N-CA-C	5.80	118.82	111.69
1	I	257	SER	CB-CA-C	5.80	121.96	110.42
1	K	79	ILE	O-C-N	5.80	127.73	121.87
1	P	491	ASP	CA-CB-CG	-5.80	106.80	112.60
1	D	183	ASP	CA-CB-CG	-5.80	106.80	112.60
1	H	336	GLU	N-CA-CB	5.80	120.29	110.49
1	M	82	ALA	O-C-N	-5.80	114.69	122.23
1	A	29	ARG	CD-NE-CZ	5.80	132.52	124.40
1	B	293	GLU	O-C-N	5.80	131.75	122.42
1	G	72	HIS	N-CA-C	5.80	122.62	109.81
1	G	246	MET	N-CA-C	5.80	123.14	110.80
1	G	406	LEU	CA-C-O	-5.80	112.57	119.35
1	H	202	SER	N-CA-C	5.80	116.07	108.07
1	H	475	GLN	CB-CG-CD	5.80	122.45	112.60
1	I	335	GLU	N-CA-C	5.80	119.50	110.17
1	I	425	ASN	CB-CG-OD1	5.80	132.39	120.80
1	J	120	VAL	N-CA-CB	5.80	120.79	111.23
1	O	192	LEU	N-CA-CB	5.80	119.03	110.33
1	A	255	LYS	N-CA-C	5.79	120.34	113.16
1	I	310	LEU	N-CA-CB	-5.79	101.52	110.04
1	A	56	VAL	CA-CB-CG1	5.79	120.25	110.40
1	A	374	GLU	CA-C-O	-5.79	112.22	120.51
1	B	415	LEU	N-CA-C	5.79	123.14	110.80
1	I	124	TYR	O-C-N	5.79	129.40	122.27
1	K	355	ILE	CA-C-O	-5.79	113.54	120.78
1	M	18	ARG	NE-CZ-NH1	5.79	127.29	121.50
1	N	91	ASP	CA-CB-CG	5.79	118.39	112.60
1	N	205	ASP	OD1-CG-OD2	-5.79	108.99	122.90
1	P	245	GLU	N-CA-C	5.79	123.14	110.80
1	B	197	LYS	N-CA-CB	-5.79	101.37	110.69
1	B	202	SER	CA-CB-OG	5.79	122.68	111.10
1	C	94	THR	CA-CB-OG1	5.79	118.29	109.60
1	M	471	ARG	CA-C-O	5.79	126.67	120.24
1	O	496	ALA	CA-C-O	-5.79	112.23	120.51
1	B	222	GLN	N-CA-C	5.79	117.28	110.97
1	D	66	ARG	CB-CG-CD	-5.79	97.98	111.30
1	H	154	ALA	O-C-N	5.79	130.79	122.28
1	K	8	LEU	O-C-N	5.79	125.42	121.71
1	L	474	THR	N-CA-CB	5.79	119.22	109.78
1	E	88	GLU	N-CA-C	5.79	123.13	110.80
1	G	145	GLN	O-C-N	-5.79	112.83	121.63
1	G	337	CYS	CA-C-O	-5.79	114.65	120.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	426	ALA	CA-C-O	-5.79	114.25	121.02
1	M	58	THR	OG1-CB-CG2	5.79	120.88	109.30
1	A	136	LYS	CG-CD-CE	5.79	124.61	111.30
1	A	198	LYS	CB-CA-C	5.79	120.89	109.66
1	B	125	GLN	CG-CD-NE2	-5.79	107.72	116.40
1	E	377	ARG	N-CA-CB	5.79	118.48	109.97
1	J	473	LYS	CA-C-O	-5.79	114.70	121.07
1	B	124	TYR	CA-C-N	5.79	129.57	120.89
1	B	124	TYR	C-N-CA	5.79	129.57	120.89
1	B	378	ILE	CA-C-N	-5.79	114.47	122.69
1	B	378	ILE	C-N-CA	-5.79	114.47	122.69
1	E	409	ARG	CD-NE-CZ	-5.79	116.30	124.40
1	F	283	ALA	CA-C-O	-5.79	113.42	120.54
1	I	181	VAL	CB-CA-C	-5.79	104.44	112.02
1	J	98	VAL	O-C-N	5.79	127.92	121.90
1	J	347	ILE	O-C-N	-5.79	113.81	122.20
1	K	29	ARG	N-CA-C	-5.79	104.94	112.23
1	L	184	ASP	CB-CA-C	5.79	121.93	110.42
1	L	386	GLU	O-C-N	-5.79	115.17	122.17
1	N	478	GLN	N-CA-CB	5.79	118.61	109.82
1	O	141	GLU	O-C-N	-5.79	116.45	123.16
1	P	160	GLY	O-C-N	-5.79	115.57	122.34
1	A	180	ALA	CA-C-N	5.78	127.85	120.56
1	A	180	ALA	C-N-CA	5.78	127.85	120.56
1	A	242	THR	N-CA-C	5.78	123.12	110.80
1	E	254	ILE	N-CA-CB	5.78	119.62	110.54
1	G	235	LEU	O-C-N	-5.78	116.57	123.28
1	H	299	THR	CA-CB-OG1	5.78	118.28	109.60
1	L	203	ILE	CA-C-O	-5.78	113.55	120.78
1	K	338	LYS	CA-C-N	5.78	135.91	121.80
1	K	338	LYS	C-N-CA	5.78	135.91	121.80
1	B	184	ASP	O-C-N	5.78	130.28	122.59
1	D	274	HIS	CE1-NE2-CD2	5.78	114.78	109.00
1	F	210	LYS	N-CA-CB	5.78	120.26	110.49
1	G	489	ARG	N-CA-CB	5.78	118.45	110.07
1	H	326	ILE	CA-C-N	5.78	133.96	124.31
1	H	326	ILE	C-N-CA	5.78	133.96	124.31
1	I	180	ALA	O-C-N	-5.78	114.61	122.36
1	J	197	LYS	N-CA-CB	-5.78	101.05	110.59
1	J	369	VAL	CA-CB-CG1	5.78	120.23	110.40
1	O	183	ASP	CA-CB-CG	-5.78	106.82	112.60
1	O	337	CYS	CB-CA-C	5.78	119.01	109.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	16	MET	CB-CA-C	-5.78	100.07	110.36
1	P	151	THR	CA-CB-OG1	5.78	118.27	109.60
1	B	249	ASP	O-C-N	-5.78	114.48	122.46
1	D	176	GLU	OE1-CD-OE2	5.78	136.77	122.90
1	F	258	GLY	CA-C-O	-5.78	110.52	120.57
1	I	283	ALA	O-C-N	-5.78	117.16	123.52
1	K	155	MET	N-CA-CB	5.78	118.71	110.16
1	L	39	LEU	CA-C-O	-5.78	112.25	120.51
1	L	417	VAL	N-CA-C	5.78	121.36	109.34
1	P	35	VAL	CA-CB-CG2	5.78	120.22	110.40
1	A	15	TYR	CG-CD1-CE1	5.78	129.87	121.20
1	D	372	THR	OG1-CB-CG2	5.78	120.85	109.30
1	E	281	ILE	CA-CB-CG1	5.78	120.22	110.40
1	E	324	ARG	CA-C-O	-5.78	114.01	120.54
1	I	49	VAL	CA-C-O	-5.78	115.67	121.45
1	I	231	LYS	CG-CD-CE	5.78	124.59	111.30
1	J	334	VAL	CA-C-O	5.78	128.00	120.78
1	K	191	ASP	CA-CB-CG	-5.78	106.82	112.60
1	K	268	ILE	CA-CB-CG1	5.78	120.22	110.40
1	M	194	LYS	CA-C-N	5.78	128.45	122.96
1	M	194	LYS	C-N-CA	5.78	128.45	122.96
1	O	228	THR	OG1-CB-CG2	-5.78	97.75	109.30
1	P	16	MET	O-C-N	-5.78	114.94	122.97
1	B	131	ALA	CA-C-O	-5.78	114.30	120.42
1	C	50	ASP	CB-CA-C	5.78	122.36	110.40
1	D	429	ASP	CB-CG-OD1	5.78	131.68	118.40
1	G	305	THR	CA-C-N	5.78	132.57	121.54
1	G	305	THR	C-N-CA	5.78	132.57	121.54
1	H	429	ASP	N-CA-CB	5.78	119.18	109.94
1	I	10	GLU	CA-C-N	5.78	132.57	121.54
1	I	10	GLU	C-N-CA	5.78	132.57	121.54
1	J	115	VAL	CB-CA-C	5.78	120.76	111.29
1	K	289	LYS	CB-CG-CD	-5.78	98.02	111.30
1	B	11	ASN	CA-C-N	5.77	132.57	121.54
1	B	11	ASN	C-N-CA	5.77	132.57	121.54
1	C	10	GLU	N-CA-CB	5.77	120.25	110.49
1	K	180	ALA	CA-C-O	5.77	126.73	120.55
1	P	245	GLU	CB-CG-CD	5.77	122.42	112.60
1	A	9	PRO	N-CA-CB	-5.77	97.19	103.25
1	A	83	LYS	O-C-N	-5.77	114.91	122.59
1	B	140	CYS	CA-C-O	-5.77	114.54	120.54
1	E	253	GLU	CA-C-N	5.77	130.09	120.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	253	GLU	C-N-CA	5.77	130.09	120.62
1	F	182	VAL	O-C-N	-5.77	115.36	122.57
1	I	306	ASN	OD1-CG-ND2	-5.77	116.83	122.60
1	L	293	GLU	CG-CD-OE1	-5.77	105.12	118.40
1	M	496	ALA	CA-C-O	-5.77	112.26	120.51
1	N	240	GLU	CB-CG-CD	5.77	122.41	112.60
1	O	225	LYS	CA-C-O	-5.77	112.70	120.15
1	E	164	GLU	CA-C-N	5.77	132.56	121.54
1	E	164	GLU	C-N-CA	5.77	132.56	121.54
1	G	170	LEU	O-C-N	5.77	128.24	122.12
1	H	421	THR	N-CA-CB	5.77	120.24	110.49
1	J	259	ALA	CB-CA-C	-5.77	101.89	111.41
1	O	48	LEU	N-CA-CB	5.77	119.56	110.56
1	P	112	ASP	CA-C-N	5.77	132.56	121.54
1	P	112	ASP	C-N-CA	5.77	132.56	121.54
1	P	332	ILE	CA-CB-CG2	-5.77	100.69	110.50
1	A	264	CYS	N-CA-CB	5.77	119.98	110.69
1	B	379	VAL	N-CA-C	5.77	118.48	108.90
1	C	111	LEU	CB-CA-C	5.77	121.90	110.42
1	D	335	GLU	N-CA-C	5.77	118.26	109.95
1	E	448	CYS	N-CA-C	5.77	123.09	110.80
1	I	374	GLU	CG-CD-OE2	5.77	131.67	118.40
1	J	330	SER	N-CA-CB	5.77	119.68	110.16
1	L	458	VAL	O-C-N	-5.77	115.31	122.52
1	M	136	LYS	N-CA-C	5.77	118.34	111.71
1	M	463	GLU	CB-CG-CD	-5.77	102.79	112.60
1	A	269	ASP	CA-C-N	5.77	129.83	120.60
1	A	269	ASP	C-N-CA	5.77	129.83	120.60
1	E	144	ALA	CB-CA-C	-5.77	101.83	110.88
1	F	356	GLU	CA-C-N	5.77	128.48	120.29
1	F	356	GLU	C-N-CA	5.77	128.48	120.29
1	G	39	LEU	O-C-N	-5.77	115.80	122.95
1	H	263	PHE	O-C-N	-5.77	115.51	123.12
1	H	479	SER	CA-CB-OG	5.77	122.64	111.10
1	J	418	ILE	N-CA-CB	5.77	119.28	111.21
1	L	133	GLU	CB-CG-CD	5.77	122.40	112.60
1	M	339	HIS	CB-CA-C	-5.77	103.65	111.21
1	M	437	VAL	O-C-N	5.77	127.90	121.90
1	P	173	ILE	O-C-N	5.77	130.08	122.12
1	B	74	ALA	N-CA-CB	-5.77	101.68	110.33
1	E	355	ILE	CA-CB-CG1	5.77	120.20	110.40
1	H	39	LEU	O-C-N	-5.77	115.86	122.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	405	GLN	CB-CG-CD	5.77	122.40	112.60
1	I	492	ASP	N-CA-CB	-5.77	100.75	110.49
1	J	8	LEU	N-CA-CB	5.77	120.44	110.23
1	P	406	LEU	O-C-N	-5.77	114.92	122.59
1	F	236	ASN	N-CA-CB	5.76	119.80	110.40
1	G	22	ARG	NE-CZ-NH1	5.76	127.27	121.50
1	G	465	GLY	N-CA-C	5.76	126.84	113.18
1	J	16	MET	CA-CB-CG	5.76	125.63	114.10
1	J	245	GLU	OE1-CD-OE2	-5.76	109.06	122.90
1	J	270	ASP	N-CA-CB	-5.76	100.65	110.33
1	L	466	VAL	O-C-N	-5.76	115.36	122.57
1	M	254	ILE	CA-C-N	5.76	132.55	121.54
1	M	254	ILE	C-N-CA	5.76	132.55	121.54
1	N	282	VAL	O-C-N	-5.76	115.50	122.59
1	P	55	VAL	CA-CB-CG2	-5.76	100.60	110.40
1	A	177	ALA	N-CA-CB	-5.76	101.61	110.20
1	D	444	ASN	CA-C-O	-5.76	114.37	120.71
1	J	193	ILE	N-CA-C	5.76	115.03	106.85
1	J	435	VAL	O-C-N	5.76	129.72	121.82
1	A	324	ARG	O-C-N	5.76	129.91	123.05
1	L	333	PHE	CA-C-O	5.76	128.09	121.47
1	M	219	VAL	CG1-CB-CG2	5.76	123.47	110.80
1	N	126	ALA	N-CA-CB	5.76	119.21	110.28
1	N	351	THR	N-CA-CB	5.76	120.53	111.20
1	A	224	PRO	N-CA-C	5.76	124.33	112.47
1	I	332	ILE	CA-C-O	-5.76	113.94	120.74
1	J	274	HIS	CE1-NE2-CD2	5.76	114.76	109.00
1	K	86	GLU	OE1-CD-OE2	5.76	136.72	122.90
1	K	112	ASP	N-CA-CB	5.76	118.83	110.88
1	O	138	ILE	CB-CA-C	-5.76	102.77	112.16
1	E	362	VAL	CB-CA-C	5.76	119.95	112.24
1	G	339	HIS	O-C-N	-5.76	116.22	121.34
1	H	243	ALA	O-C-N	-5.76	114.93	122.59
1	A	485	GLU	CA-C-O	5.76	125.47	119.14
1	B	13	LYS	CA-C-O	-5.76	114.49	121.28
1	B	17	GLY	N-CA-C	5.76	120.23	112.17
1	B	62	VAL	CA-CB-CG2	-5.76	100.61	110.40
1	B	100	ALA	O-C-N	5.76	129.71	122.23
1	B	128	ALA	CA-C-O	-5.76	112.87	119.60
1	C	208	LEU	N-CA-CB	-5.76	100.97	110.53
1	D	399	GLY	CA-C-O	-5.76	110.55	120.57
1	H	466	VAL	O-C-N	-5.76	115.37	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	399	GLY	CA-C-O	-5.76	110.55	120.57
1	M	52	LEU	O-C-N	-5.76	114.93	122.59
1	P	219	VAL	CA-C-O	-5.76	114.03	120.25
1	B	188	VAL	O-C-N	-5.75	115.38	122.57
1	K	438	ARG	NE-CZ-NH2	5.75	124.38	119.20
1	O	311	SER	O-C-N	-5.75	114.94	122.59
1	P	120	VAL	CB-CA-C	5.75	119.34	111.97
1	D	397	ALA	CB-CA-C	5.75	119.87	110.95
1	F	103	LEU	CA-C-N	5.75	127.99	120.28
1	F	103	LEU	C-N-CA	5.75	127.99	120.28
1	F	173	ILE	CA-CB-CG1	-5.75	100.62	110.40
1	F	335	GLU	O-C-N	5.75	130.97	122.97
1	G	120	VAL	CA-C-N	5.75	127.92	120.56
1	G	120	VAL	C-N-CA	5.75	127.92	120.56
1	G	423	ALA	N-CA-C	-5.75	106.10	113.23
1	K	49	VAL	N-CA-CB	5.75	121.76	111.63
1	K	161	LYS	O-C-N	5.75	129.85	123.52
1	K	330	SER	CB-CA-C	-5.75	100.36	109.80
1	K	497	GLU	CB-CG-CD	5.75	122.38	112.60
1	L	248	LYS	N-CA-C	5.75	117.23	111.07
1	L	466	VAL	N-CA-CB	-5.75	101.74	111.23
1	M	377	ARG	CA-C-O	-5.75	114.93	121.72
1	N	40	GLY	CA-C-O	-5.75	113.29	121.52
1	N	242	THR	CA-C-N	5.75	132.53	121.54
1	N	242	THR	C-N-CA	5.75	132.53	121.54
1	O	164	GLU	N-CA-CB	5.75	119.23	110.14
1	P	109	GLU	CG-CD-OE2	-5.75	105.17	118.40
1	P	216	LYS	CA-CB-CG	5.75	125.61	114.10
1	B	179	SER	CB-CA-C	-5.75	99.18	110.11
1	D	382	GLY	CA-C-O	-5.75	110.56	120.57
1	F	188	VAL	N-CA-CB	5.75	119.12	111.64
1	G	69	SER	CA-C-N	5.75	132.32	121.97
1	G	69	SER	C-N-CA	5.75	132.32	121.97
1	H	85	GLN	CA-C-O	-5.75	112.32	119.28
1	H	114	ASN	CA-CB-CG	5.75	118.35	112.60
1	H	297	LYS	N-CA-CB	5.75	118.64	110.13
1	H	429	ASP	CA-C-O	5.75	127.10	120.60
1	H	432	GLU	CA-C-O	-5.75	114.74	121.07
1	M	486	MET	CB-CG-SD	5.75	129.95	112.70
1	A	486	MET	O-C-N	-5.75	114.94	122.59
1	B	64	ILE	N-CA-C	-5.75	104.73	111.00
1	B	356	GLU	CA-C-O	-5.75	112.29	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	425	ASN	CB-CG-ND2	-5.75	107.78	116.40
1	E	289	LYS	CA-CB-CG	5.75	125.59	114.10
1	G	10	GLU	CG-CD-OE2	5.75	131.62	118.40
1	G	116	HIS	CG-CD2-NE2	5.75	112.95	107.20
1	H	291	ASP	O-C-N	5.75	128.94	122.22
1	J	273	GLN	CA-CB-CG	5.75	125.60	114.10
1	L	274	HIS	CE1-NE2-CD2	5.75	114.75	109.00
1	M	132	GLN	CA-CB-CG	5.75	125.60	114.10
1	M	250	MET	N-CA-CB	5.75	118.95	110.33
1	M	449	ALA	N-CA-C	5.75	123.04	110.80
1	B	420	ARG	CA-C-O	-5.75	114.86	120.89
1	E	96	ALA	O-C-N	5.75	128.93	122.32
1	F	377	ARG	NE-CZ-NH2	-5.75	114.03	119.20
1	J	353	HIS	CA-C-N	5.75	132.31	121.97
1	J	353	HIS	C-N-CA	5.75	132.31	121.97
1	M	70	VAL	N-CA-C	5.75	121.29	109.34
1	N	89	VAL	N-CA-C	5.75	121.29	109.34
1	N	205	ASP	N-CA-C	5.75	123.04	110.80
1	O	14	ARG	CA-C-N	5.75	131.22	122.95
1	O	14	ARG	C-N-CA	5.75	131.22	122.95
1	C	203	ILE	CA-C-O	-5.75	112.31	119.43
1	C	381	GLY	CA-C-O	-5.75	110.57	120.57
1	E	356	GLU	CG-CD-OE1	-5.75	105.19	118.40
1	G	24	ASN	OD1-CG-ND2	5.75	128.34	122.60
1	K	425	ASN	O-C-N	5.75	129.34	122.27
1	A	356	GLU	N-CA-CB	5.74	120.20	110.49
1	B	263	PHE	CB-CG-CD2	5.74	130.46	120.70
1	C	216	LYS	N-CA-CB	5.74	119.59	110.57
1	D	352	GLU	CB-CG-CD	5.74	122.36	112.60
1	G	393	LEU	CB-CA-C	5.74	121.99	109.99
1	J	401	SER	O-C-N	5.74	130.23	122.59
1	L	357	GLU	CB-CA-C	5.74	119.85	110.95
1	L	443	SER	CB-CA-C	5.74	120.44	110.79
1	N	227	VAL	CA-C-O	-5.74	114.49	120.64
1	D	193	ILE	CA-CB-CG1	5.74	120.16	110.40
1	D	273	GLN	CG-CD-NE2	5.74	125.01	116.40
1	F	382	GLY	O-C-N	-5.74	115.23	122.70
1	B	269	ASP	O-C-N	-5.74	116.50	123.10
1	G	388	GLU	CB-CA-C	5.74	119.97	110.90
1	K	484	THR	CB-CA-C	5.74	121.69	110.67
1	M	54	ASP	CA-C-O	-5.74	114.38	120.92
1	M	293	GLU	OE1-CD-OE2	5.74	136.68	122.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	265	GLN	CA-C-O	5.74	126.85	120.82
1	P	225	LYS	CA-C-O	-5.74	111.54	121.53
1	B	24	ASN	CA-C-N	5.74	130.64	121.34
1	B	24	ASN	C-N-CA	5.74	130.64	121.34
1	B	155	MET	CA-C-N	5.74	129.87	120.63
1	B	155	MET	C-N-CA	5.74	129.87	120.63
1	C	214	VAL	CA-CB-CG1	5.74	120.16	110.40
1	D	276	LEU	CA-C-O	-5.74	113.37	119.97
1	E	33	GLU	N-CA-CB	-5.74	101.07	110.14
1	E	393	LEU	N-CA-CB	5.74	119.75	110.40
1	E	457	ALA	CA-C-O	-5.74	115.17	121.31
1	F	485	GLU	CB-CG-CD	-5.74	102.85	112.60
1	H	357	GLU	CG-CD-OE1	-5.74	105.20	118.40
1	J	395	GLU	CB-CA-C	5.74	121.84	110.42
1	M	141	GLU	CA-C-O	-5.74	114.60	120.80
1	N	260	ASN	N-CA-CB	5.74	119.91	110.39
1	I	245	GLU	CA-C-O	-5.74	112.31	120.51
1	I	249	ASP	N-CA-C	5.74	118.27	111.33
1	I	365	ALA	O-C-N	5.74	129.79	122.33
1	A	281	ILE	CA-C-N	5.74	129.57	121.66
1	A	281	ILE	C-N-CA	5.74	129.57	121.66
1	B	179	SER	CA-C-N	5.74	130.29	120.71
1	B	179	SER	C-N-CA	5.74	130.29	120.71
1	D	52	LEU	CA-C-N	-5.74	115.34	123.08
1	D	52	LEU	C-N-CA	-5.74	115.34	123.08
1	D	239	ILE	N-CA-CB	5.74	120.69	111.23
1	G	39	LEU	CA-C-N	5.74	130.87	121.87
1	G	39	LEU	C-N-CA	5.74	130.87	121.87
1	G	278	LYS	CA-C-N	5.74	129.78	120.60
1	G	278	LYS	C-N-CA	5.74	129.78	120.60
1	H	324	ARG	CB-CA-C	-5.74	101.60	110.78
1	H	326	ILE	CA-C-O	-5.74	114.17	120.48
1	I	231	LYS	CA-C-O	-5.74	114.06	121.11
1	J	322	GLU	CA-CB-CG	-5.74	102.63	114.10
1	K	369	VAL	CA-C-N	5.74	126.35	119.98
1	K	369	VAL	C-N-CA	5.74	126.35	119.98
1	M	42	LYS	CA-C-N	-5.74	110.17	121.41
1	M	42	LYS	C-N-CA	-5.74	110.17	121.41
1	A	256	ALA	N-CA-CB	5.73	118.74	110.20
1	G	93	THR	CA-C-O	-5.73	112.31	120.51
1	J	50	ASP	CA-C-N	5.73	132.49	121.54
1	J	50	ASP	C-N-CA	5.73	132.49	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	137	THR	CA-C-O	5.73	126.06	119.35
1	C	42	LYS	CA-C-N	5.73	132.64	121.41
1	C	42	LYS	C-N-CA	5.73	132.64	121.41
1	I	22	ARG	NE-CZ-NH1	-5.73	115.77	121.50
1	J	310	LEU	CB-CA-C	5.73	119.24	109.72
1	K	120	VAL	N-CA-C	5.73	118.22	111.05
1	K	438	ARG	CB-CA-C	-5.73	102.13	110.96
1	L	189	ASP	CA-CB-CG	5.73	118.33	112.60
1	O	124	TYR	CA-C-N	5.73	130.38	120.58
1	O	124	TYR	C-N-CA	5.73	130.38	120.58
1	P	99	VAL	N-CA-C	5.73	121.26	109.34
1	A	255	LYS	CA-CB-CG	5.73	125.56	114.10
1	D	189	ASP	CA-C-O	-5.73	114.95	121.66
1	E	183	ASP	N-CA-CB	5.73	119.57	110.57
1	F	324	ARG	NE-CZ-NH2	5.73	124.36	119.20
1	G	136	LYS	CB-CG-CD	5.73	124.48	111.30
1	H	164	GLU	CA-C-N	5.73	132.49	121.54
1	H	164	GLU	C-N-CA	5.73	132.49	121.54
1	H	455	THR	CA-CB-OG1	-5.73	101.00	109.60
1	I	246	MET	CA-C-O	5.73	126.42	119.49
1	K	374	GLU	CB-CG-CD	5.73	122.34	112.60
1	M	268	ILE	CB-CA-C	5.73	119.33	110.50
1	O	45	ASP	CA-CB-CG	5.73	118.33	112.60
1	H	465	GLY	CA-C-N	5.73	132.28	121.97
1	H	465	GLY	C-N-CA	5.73	132.28	121.97
1	J	110	LEU	O-C-N	-5.73	115.24	122.17
1	M	69	SER	O-C-N	5.73	130.21	122.59
1	B	233	ALA	CA-C-O	-5.73	114.17	120.30
1	F	240	GLU	CA-CB-CG	5.73	125.56	114.10
1	H	244	SER	CA-CB-OG	5.73	122.56	111.10
1	I	186	GLY	O-C-N	-5.73	115.25	122.70
1	J	202	SER	CA-C-O	5.73	128.70	120.51
1	M	83	LYS	N-CA-CB	5.73	118.65	110.06
1	O	360	ARG	NH1-CZ-NH2	-5.73	111.85	119.30
1	K	335	GLU	CA-CB-CG	5.73	125.55	114.10
1	B	262	LEU	O-C-N	-5.72	116.71	123.41
1	E	107	ALA	CA-C-N	5.72	130.29	121.19
1	E	107	ALA	C-N-CA	5.72	130.29	121.19
1	E	182	VAL	N-CA-CB	5.72	117.07	110.49
1	G	71	GLU	N-CA-C	5.72	122.99	110.80
1	I	310	LEU	N-CA-C	5.72	118.14	110.35
1	I	352	GLU	CB-CG-CD	5.72	122.33	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	441	HIS	CG-ND1-CE1	-5.72	99.57	109.30
1	M	193	ILE	CB-CA-C	5.72	119.27	111.88
1	O	134	LEU	CB-CA-C	5.72	119.71	109.29
1	P	273	GLN	CA-C-N	5.72	128.27	120.54
1	P	273	GLN	C-N-CA	5.72	128.27	120.54
1	P	434	LEU	CA-C-O	-5.72	114.78	120.90
1	D	83	LYS	CA-C-N	5.72	128.22	120.38
1	D	83	LYS	C-N-CA	5.72	128.22	120.38
1	D	269	ASP	CA-C-O	-5.72	114.68	121.66
1	F	7	VAL	O-C-N	-5.72	113.84	123.00
1	H	280	GLY	CA-C-N	5.72	129.64	122.43
1	H	280	GLY	C-N-CA	5.72	129.64	122.43
1	J	241	GLU	N-CA-C	-5.72	99.82	108.52
1	K	265	GLN	CA-C-O	5.72	126.67	120.55
1	N	339	HIS	CA-CB-CG	5.72	119.52	113.80
1	B	245	GLU	OE1-CD-OE2	-5.72	109.17	122.90
1	C	97	VAL	CA-C-O	-5.72	115.17	121.29
1	H	116	HIS	O-C-N	5.72	127.90	121.32
1	H	268	ILE	CA-CB-CG2	5.72	120.22	110.50
1	I	260	ASN	CB-CA-C	5.72	122.27	110.31
1	K	69	SER	O-C-N	-5.72	114.98	122.59
1	O	158	ILE	CB-CA-C	-5.72	101.91	111.29
1	P	162	GLY	O-C-N	-5.72	116.05	122.28
1	I	286	ARG	CA-CB-CG	5.72	125.54	114.10
1	I	375	ASP	CA-C-O	5.72	126.50	120.33
1	L	23	MET	CA-CB-CG	5.72	125.53	114.10
1	L	244	SER	CB-CA-C	5.72	121.80	110.42
1	B	307	ILE	CA-C-O	-5.72	113.63	120.78
1	G	15	TYR	CA-C-O	-5.72	113.98	120.32
1	G	89	VAL	CG1-CB-CG2	-5.72	98.22	110.80
1	I	152	LYS	CB-CG-CD	5.72	124.45	111.30
1	J	309	ASP	CA-CB-CG	5.72	118.32	112.60
1	K	174	ILE	CA-CB-CG2	5.72	120.22	110.50
1	M	332	ILE	CA-C-O	-5.72	114.36	120.59
1	N	254	ILE	CA-CB-CG1	5.72	120.12	110.40
1	N	316	GLY	N-CA-C	5.72	122.61	112.55
1	O	128	ALA	O-C-N	-5.72	114.24	122.36
1	B	66	ARG	NE-CZ-NH2	-5.71	114.06	119.20
1	C	249	ASP	CB-CG-OD1	5.71	131.54	118.40
1	E	389	LEU	CD1-CG-CD2	5.71	123.37	110.80
1	H	218	ARG	NE-CZ-NH2	-5.71	114.06	119.20
1	H	284	ALA	O-C-N	5.71	130.10	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	116	HIS	ND1-CE1-NE2	5.71	114.11	108.40
1	I	292	MET	CA-C-N	5.71	130.26	120.72
1	I	292	MET	C-N-CA	5.71	130.26	120.72
1	J	131	ALA	O-C-N	5.71	128.91	122.22
1	J	219	VAL	N-CA-C	5.71	121.23	109.34
1	J	354	VAL	CB-CA-C	5.71	120.66	111.29
1	K	170	LEU	CB-CA-C	-5.71	101.14	110.85
1	L	56	VAL	CA-C-O	-5.71	113.64	120.78
1	O	333	PHE	CA-CB-CG	5.71	119.52	113.80
1	P	36	ARG	CG-CD-NE	-5.71	99.43	112.00
1	D	137	THR	O-C-N	-5.71	114.25	122.36
1	G	129	GLN	O-C-N	-5.71	114.63	122.46
1	K	213	LEU	CA-C-N	5.71	128.94	122.48
1	K	213	LEU	C-N-CA	5.71	128.94	122.48
1	K	288	LYS	O-C-N	-5.71	116.12	122.86
1	N	67	GLU	N-CA-CB	5.71	120.14	110.49
1	A	293	GLU	CB-CA-C	5.71	119.59	109.65
1	A	401	SER	CA-CB-OG	5.71	122.52	111.10
1	I	35	VAL	O-C-N	-5.71	115.35	121.80
1	J	362	VAL	CA-CB-CG2	5.71	120.11	110.40
1	J	394	ARG	NE-CZ-NH1	5.71	127.21	121.50
1	L	143	GLY	CA-C-O	-5.71	112.09	122.14
1	O	112	ASP	CB-CG-OD1	5.71	131.53	118.40
1	P	228	THR	N-CA-CB	5.71	120.14	110.49
1	D	221	ALA	N-CA-C	-5.71	105.42	112.90
1	D	347	ILE	CA-C-O	-5.71	113.27	120.69
1	E	311	SER	N-CA-CB	-5.71	100.84	110.49
1	G	266	LYS	CB-CA-C	5.71	121.78	110.42
1	H	159	THR	N-CA-CB	5.71	119.53	110.57
1	N	400	ILE	CA-C-O	-5.71	114.17	120.96
1	A	141	GLU	N-CA-C	5.71	118.73	110.28
1	B	51	ASP	CB-CA-C	5.71	121.78	110.42
1	D	166	ALA	N-CA-C	-5.71	106.21	112.72
1	D	348	ARG	NE-CZ-NH2	-5.71	114.06	119.20
1	E	36	ARG	O-C-N	5.71	129.08	122.17
1	E	241	GLU	O-C-N	-5.71	114.70	122.81
1	G	13	LYS	O-C-N	-5.71	115.79	122.81
1	I	222	GLN	CB-CG-CD	5.71	122.31	112.60
1	O	351	THR	CB-CA-C	-5.71	99.22	111.78
1	O	433	ILE	N-CA-C	5.71	115.84	110.30
1	A	417	VAL	N-CA-CB	5.71	117.60	110.47
1	A	431	ILE	N-CA-C	5.71	121.21	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	69	SER	N-CA-C	5.71	122.95	110.80
1	C	328	GLY	CA-C-N	-5.71	113.68	122.87
1	C	328	GLY	C-N-CA	-5.71	113.68	122.87
1	D	152	LYS	CB-CG-CD	-5.71	98.17	111.30
1	F	302	ASN	CA-C-O	5.71	126.47	120.36
1	G	11	ASN	N-CA-CB	5.71	120.13	110.49
1	N	368	VAL	O-C-N	-5.71	116.11	121.87
1	P	63	THR	N-CA-CB	5.71	119.16	110.14
1	P	154	ALA	CA-C-N	5.71	130.34	120.58
1	P	154	ALA	C-N-CA	5.71	130.34	120.58
1	B	333	PHE	CA-CB-CG	5.71	119.50	113.80
1	F	227	VAL	O-C-N	5.71	129.37	123.04
1	M	432	GLU	O-C-N	5.71	128.25	122.09
1	P	44	MET	CA-C-N	5.71	133.30	121.32
1	P	44	MET	C-N-CA	5.71	133.30	121.32
1	C	474	THR	N-CA-CB	5.70	118.24	109.91
1	D	379	VAL	CA-CB-CG2	-5.70	100.70	110.40
1	J	455	THR	O-C-N	-5.70	115.27	122.17
1	O	77	MET	CA-C-O	5.70	128.67	120.51
1	P	176	GLU	CB-CG-CD	-5.70	102.90	112.60
1	D	175	VAL	CA-CB-CG1	5.70	120.09	110.40
1	I	197	LYS	CA-C-O	-5.70	114.67	120.71
1	B	64	ILE	N-CA-CB	-5.70	101.04	110.56
1	C	276	LEU	CA-C-N	5.70	131.77	122.65
1	C	276	LEU	C-N-CA	5.70	131.77	122.65
1	D	298	ALA	CA-C-O	-5.70	112.36	120.51
1	D	374	GLU	CA-C-O	-5.70	114.45	120.55
1	F	337	CYS	O-C-N	5.70	129.93	122.97
1	I	136	LYS	CA-C-O	-5.70	114.47	120.63
1	J	40	GLY	N-CA-C	5.70	123.97	112.34
1	J	351	THR	O-C-N	-5.70	114.55	122.76
1	J	477	ILE	CA-CB-CG1	5.70	120.09	110.40
1	L	108	GLU	O-C-N	5.70	128.65	122.15
1	O	406	LEU	CA-C-N	5.70	130.23	120.71
1	O	406	LEU	C-N-CA	5.70	130.23	120.71
1	O	425	ASN	N-CA-C	-5.70	104.68	111.69
1	P	68	MET	N-CA-C	5.70	122.94	110.80
1	A	169	LYS	CB-CA-C	5.70	121.13	110.70
1	A	424	GLU	CA-C-N	5.70	128.49	120.28
1	A	424	GLU	C-N-CA	5.70	128.49	120.28
1	B	226	LYS	O-C-N	-5.70	115.01	122.59
1	C	255	LYS	N-CA-C	-5.70	106.33	113.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	46	LYS	N-CA-CB	-5.70	100.92	111.52
1	H	136	LYS	O-C-N	5.70	130.32	122.46
1	H	155	MET	CB-CA-C	5.70	120.37	110.68
1	H	247	LEU	CA-C-O	5.70	126.57	120.70
1	H	348	ARG	N-CA-C	5.70	118.52	110.14
1	L	41	PRO	CA-N-CD	-5.70	104.02	112.00
1	N	253	GLU	CA-C-O	-5.70	114.45	120.55
1	O	222	GLN	N-CA-C	5.70	119.95	112.89
1	O	274	HIS	CA-C-O	5.70	126.39	119.49
1	P	27	ALA	CA-C-O	-5.70	112.65	119.15
1	P	283	ALA	CA-C-O	-5.70	114.61	120.99
1	D	114	ASN	OD1-CG-ND2	-5.70	116.90	122.60
1	F	21	GLN	CA-C-O	-5.70	114.48	120.63
1	G	251	VAL	N-CA-CB	5.70	120.08	110.56
1	H	107	ALA	CB-CA-C	5.70	122.00	110.38
1	M	361	ALA	CA-C-O	-5.70	109.80	118.91
1	B	11	ASN	OD1-CG-ND2	-5.70	116.90	122.60
1	C	357	GLU	CB-CG-CD	5.70	122.28	112.60
1	E	218	ARG	NE-CZ-NH2	5.70	124.33	119.20
1	J	400	ILE	N-CA-CB	5.70	120.07	110.56
1	J	457	ALA	N-CA-CB	-5.70	100.86	110.49
1	L	240	GLU	N-CA-C	5.70	118.02	107.99
1	O	417	VAL	CA-C-O	-5.70	114.57	121.18
1	O	485	GLU	N-CA-CB	5.70	118.69	110.20
1	P	52	LEU	CA-C-O	-5.70	113.66	120.10
1	D	310	LEU	CB-CA-C	5.69	121.75	110.42
1	E	276	LEU	CA-CB-CG	5.69	136.23	116.30
1	F	252	ALA	O-C-N	5.69	130.16	122.59
1	J	227	VAL	N-CA-CB	5.69	118.84	111.67
1	K	477	ILE	N-CA-C	5.69	119.07	111.44
1	L	220	SER	N-CA-CB	5.69	119.70	110.42
1	I	36	ARG	N-CA-CB	-5.69	101.78	110.26
1	I	154	ALA	CA-C-N	5.69	128.18	120.38
1	I	154	ALA	C-N-CA	5.69	128.18	120.38
1	K	78	LEU	CD1-CG-CD2	5.69	123.33	110.80
1	K	320	LEU	O-C-N	-5.69	115.02	122.59
1	N	310	LEU	CA-C-N	5.69	132.41	121.54
1	N	310	LEU	C-N-CA	5.69	132.41	121.54
1	P	312	ALA	O-C-N	-5.69	115.51	122.34
1	A	159	THR	OG1-CB-CG2	5.69	120.68	109.30
1	D	95	THR	O-C-N	5.69	129.06	122.17
1	F	460	ASP	N-CA-C	-5.69	98.47	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	170	LEU	N-CA-CB	5.69	119.13	110.14
1	H	220	SER	O-C-N	-5.69	116.56	123.10
1	H	470	LEU	N-CA-C	-5.69	106.38	113.38
1	J	388	GLU	CB-CA-C	5.69	121.11	110.70
1	O	439	ALA	O-C-N	-5.69	114.81	122.43
1	A	16	MET	O-C-N	-5.69	115.02	122.59
1	I	118	THR	CA-C-N	5.69	128.88	120.74
1	I	118	THR	C-N-CA	5.69	128.88	120.74
1	A	477	ILE	CB-CA-C	5.69	119.25	111.97
1	B	135	LEU	N-CA-C	5.69	117.16	111.07
1	C	194	LYS	N-CA-CB	5.69	118.94	110.29
1	D	41	PRO	CA-C-O	-5.69	110.25	120.60
1	D	320	LEU	CA-C-O	5.69	127.89	120.21
1	E	62	VAL	N-CA-C	5.69	116.47	110.72
1	E	379	VAL	N-CA-CB	5.69	119.73	112.34
1	G	79	ILE	N-CA-C	-5.69	104.97	110.72
1	H	33	GLU	CG-CD-OE2	5.69	131.48	118.40
1	I	437	VAL	O-C-N	-5.69	115.97	121.83
1	J	336	GLU	CG-CD-OE1	5.69	131.48	118.40
1	K	109	GLU	CB-CG-CD	-5.69	102.93	112.60
1	K	190	LYS	N-CA-CB	-5.69	101.54	110.30
1	M	235	LEU	N-CA-CB	-5.69	101.62	110.55
1	M	489	ARG	N-CA-CB	5.69	118.58	110.67
1	N	99	VAL	O-C-N	5.69	129.68	122.57
1	N	378	ILE	CB-CA-C	5.69	119.79	110.69
1	O	70	VAL	CA-C-O	5.69	127.89	120.78
1	A	485	GLU	CB-CG-CD	-5.69	102.93	112.60
1	E	242	THR	CA-C-O	-5.69	114.49	120.80
1	F	401	SER	N-CA-C	5.69	122.91	110.80
1	F	444	ASN	N-CA-C	5.69	120.26	111.56
1	J	439	ALA	O-C-N	5.69	130.05	122.43
1	O	106	LYS	CA-C-O	5.69	126.45	120.42
1	O	334	VAL	CA-C-O	5.69	127.89	120.78
1	P	308	LYS	CA-CB-CG	5.69	125.47	114.10
1	A	30	ILE	N-CA-C	-5.68	104.32	110.23
1	E	225	LYS	CA-C-O	-5.68	112.38	120.51
1	J	197	LYS	CB-CA-C	-5.68	101.94	110.24
1	O	49	VAL	O-C-N	-5.68	118.03	122.97
1	D	153	ILE	CB-CA-C	-5.68	102.90	112.16
1	D	205	ASP	CB-CG-OD2	-5.68	105.33	118.40
1	G	360	ARG	CD-NE-CZ	5.68	132.36	124.40
1	I	364	ASP	CA-CB-CG	5.68	118.28	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	41	PRO	N-CA-CB	5.68	109.22	103.25
1	J	42	LYS	N-CA-CB	-5.68	99.98	110.32
1	J	148	GLU	O-C-N	5.68	130.15	122.59
1	L	176	GLU	OE1-CD-OE2	5.68	136.54	122.90
1	M	119	ILE	N-CA-C	-5.68	105.31	110.82
1	M	344	THR	CA-C-N	-5.68	114.77	123.07
1	M	344	THR	C-N-CA	-5.68	114.77	123.07
1	P	349	GLY	O-C-N	-5.68	115.31	122.70
1	P	437	VAL	CB-CA-C	-5.68	104.58	112.02
1	C	384	SER	CA-C-N	5.68	127.89	120.28
1	C	384	SER	C-N-CA	5.68	127.89	120.28
1	E	79	ILE	CA-C-O	5.68	126.61	120.47
1	F	396	TYR	N-CA-C	-5.68	106.19	113.23
1	L	239	ILE	CA-CB-CG1	5.68	120.06	110.40
1	M	254	ILE	CA-C-O	-5.68	114.20	120.96
1	N	333	PHE	CD1-CE1-CZ	-5.68	109.78	120.00
1	C	227	VAL	N-CA-CB	5.68	120.77	111.45
1	E	116	HIS	ND1-CE1-NE2	-5.68	102.72	108.40
1	F	201	ALA	N-CA-C	5.68	122.90	110.80
1	F	327	SER	CA-C-N	-5.68	110.28	121.41
1	F	327	SER	C-N-CA	-5.68	110.28	121.41
1	J	487	LEU	CD1-CG-CD2	-5.68	98.31	110.80
1	M	173	ILE	N-CA-CB	-5.68	99.12	111.05
1	A	148	GLU	CA-C-N	5.68	129.61	120.30
1	A	148	GLU	C-N-CA	5.68	129.61	120.30
1	G	231	LYS	CA-C-O	-5.68	113.42	120.57
1	I	258	GLY	O-C-N	5.68	130.08	122.70
1	D	118	THR	CA-CB-CG2	5.68	120.15	110.50
1	D	342	ALA	O-C-N	-5.68	117.54	123.56
1	F	33	GLU	CA-C-O	-5.68	114.53	120.55
1	F	249	ASP	N-CA-CB	5.68	119.81	110.39
1	G	201	ALA	CA-C-N	5.68	131.18	121.87
1	G	201	ALA	C-N-CA	5.68	131.18	121.87
1	G	208	LEU	O-C-N	5.68	132.01	122.93
1	H	45	ASP	CA-CB-CG	-5.68	106.92	112.60
1	J	12	MET	CB-CA-C	-5.68	99.94	109.48
1	J	227	VAL	N-CA-C	5.68	115.77	107.37
1	M	422	LEU	CA-C-N	5.68	130.07	120.88
1	M	422	LEU	C-N-CA	5.68	130.07	120.88
1	N	150	LEU	N-CA-CB	5.68	118.66	110.20
1	P	243	ALA	CA-C-O	-5.68	112.39	120.51
1	C	251	VAL	CA-CB-CG2	5.67	120.05	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	360	ARG	CA-CB-CG	5.67	125.45	114.10
1	D	183	ASP	OD1-CG-OD2	-5.67	109.28	122.90
1	F	341	LYS	CB-CA-C	5.67	121.71	110.42
1	H	452	ASN	N-CA-CB	5.67	118.47	109.51
1	I	398	GLU	N-CA-CB	5.67	119.81	110.39
1	M	415	LEU	N-CA-CB	5.67	119.97	110.32
1	O	342	ALA	CA-C-O	-5.67	115.38	121.45
1	P	287	VAL	CA-C-O	5.67	127.87	120.78
1	P	453	VAL	CA-C-N	-5.67	111.69	120.88
1	P	453	VAL	C-N-CA	-5.67	111.69	120.88
1	B	356	GLU	CA-C-N	5.67	128.35	120.29
1	B	356	GLU	C-N-CA	5.67	128.35	120.29
1	C	314	ASP	CB-CG-OD2	5.67	131.45	118.40
1	G	124	TYR	N-CA-C	5.67	119.46	112.54
1	G	409	ARG	NH1-CZ-NH2	-5.67	111.92	119.30
1	M	95	THR	CB-CA-C	5.67	120.50	110.85
1	M	342	ALA	N-CA-C	-5.67	98.72	110.80
1	O	225	LYS	N-CA-C	-5.67	106.16	112.57
1	B	116	HIS	ND1-CG-CD2	5.67	111.77	106.10
1	C	373	ILE	CA-C-O	-5.67	113.69	120.78
1	D	258	GLY	CA-C-N	5.67	130.75	122.41
1	D	258	GLY	C-N-CA	5.67	130.75	122.41
1	F	377	ARG	NE-CZ-NH1	-5.67	115.83	121.50
1	G	420	ARG	CG-CD-NE	-5.67	99.52	112.00
1	H	291	ASP	N-CA-C	5.67	118.23	111.71
1	H	437	VAL	CA-C-O	-5.67	114.73	120.69
1	J	22	ARG	CA-C-O	-5.67	114.86	120.82
1	J	294	LYS	N-CA-C	5.67	119.38	112.23
1	K	194	LYS	O-C-N	-5.67	115.73	122.65
1	K	327	SER	N-CA-CB	5.67	120.64	114.17
1	L	302	ASN	CB-CG-ND2	5.67	124.91	116.40
1	O	324	ARG	NE-CZ-NH2	-5.67	114.09	119.20
1	A	326	ILE	CA-CB-CG2	5.67	120.14	110.50
1	B	60	ASP	OD1-CG-OD2	-5.67	109.29	122.90
1	K	277	ALA	CA-C-O	5.67	126.23	119.60
1	M	478	GLN	CA-CB-CG	5.67	125.44	114.10
1	C	274	HIS	ND1-CE1-NE2	5.67	114.07	108.40
1	E	489	ARG	CA-C-O	5.67	128.62	120.51
1	F	307	ILE	N-CA-CB	5.67	116.80	110.62
1	G	224	PRO	CA-N-CD	-5.67	104.06	112.00
1	G	323	GLU	N-CA-C	5.67	117.70	108.63
1	K	54	ASP	CA-CB-CG	5.67	118.27	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	485	GLU	N-CA-C	5.67	118.40	111.82
1	L	193	ILE	O-C-N	-5.67	114.69	122.62
1	M	311	SER	N-CA-CB	-5.67	100.91	110.49
1	N	212	VAL	O-C-N	-5.67	116.51	123.03
1	O	253	GLU	CB-CA-C	5.67	119.78	110.88
1	B	451	LEU	CB-CA-C	5.67	120.09	111.70
1	F	33	GLU	CB-CA-C	-5.67	101.38	110.79
1	F	120	VAL	CA-CB-CG1	5.67	120.03	110.40
1	H	325	LYS	CG-CD-CE	5.67	124.33	111.30
1	L	88	GLU	OE1-CD-OE2	-5.67	109.30	122.90
1	M	84	THR	CA-CB-OG1	5.67	118.10	109.60
1	M	288	LYS	N-CA-CB	5.67	118.37	110.04
1	N	385	THR	CA-C-N	5.67	132.36	121.54
1	N	385	THR	C-N-CA	5.67	132.36	121.54
1	P	299	THR	O-C-N	-5.67	115.05	122.59
1	C	77	MET	O-C-N	-5.67	114.01	122.39
1	I	260	ASN	OD1-CG-ND2	-5.67	116.94	122.60
1	J	268	ILE	CA-C-O	5.67	125.86	120.25
1	J	273	GLN	CG-CD-OE1	5.67	132.13	120.80
1	K	52	LEU	O-C-N	-5.67	115.30	122.27
1	L	181	VAL	O-C-N	-5.67	115.88	121.94
1	M	180	ALA	CA-C-O	5.67	126.23	119.60
1	A	303	VAL	N-CA-C	5.66	121.12	109.34
1	H	86	GLU	CG-CD-OE1	5.66	131.43	118.40
1	I	125	GLN	CB-CG-CD	5.66	122.23	112.60
1	K	52	LEU	CD1-CG-CD2	-5.66	98.34	110.80
1	L	218	ARG	CA-C-O	-5.66	112.41	120.51
1	L	497	GLU	CB-CG-CD	-5.66	102.97	112.60
1	P	315	LEU	CD1-CG-CD2	5.66	123.26	110.80
1	P	436	LYS	CB-CA-C	-5.66	101.28	110.79
1	A	318	ALA	CA-C-N	5.66	132.51	121.41
1	A	318	ALA	C-N-CA	5.66	132.51	121.41
1	D	121	VAL	N-CA-C	-5.66	105.58	111.58
1	E	422	LEU	O-C-N	5.66	128.12	122.12
1	L	201	ALA	CB-CA-C	5.66	121.69	110.42
1	E	114	ASN	CA-CB-CG	5.66	118.26	112.60
1	F	219	VAL	O-C-N	5.66	127.46	121.91
1	F	265	GLN	N-CA-C	-5.66	105.01	111.07
1	J	309	ASP	CB-CA-C	-5.66	98.85	109.72
1	N	188	VAL	CA-C-N	5.66	131.76	121.97
1	N	188	VAL	C-N-CA	5.66	131.76	121.97
1	N	401	SER	CB-CA-C	5.66	121.69	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	473	LYS	CA-C-O	-5.66	113.46	119.97
1	C	254	ILE	O-C-N	5.66	129.46	122.05
1	F	36	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
1	F	352	GLU	N-CA-C	5.66	122.85	110.80
1	G	88	GLU	CA-C-O	-5.66	112.42	120.51
1	G	289	LYS	O-C-N	-5.66	115.60	122.22
1	H	118	THR	CA-CB-CG2	5.66	120.12	110.50
1	H	361	ALA	N-CA-C	5.66	122.85	110.80
1	I	329	ASP	CB-CG-OD2	-5.66	105.39	118.40
1	I	385	THR	CA-C-N	5.66	128.14	120.44
1	I	385	THR	C-N-CA	5.66	128.14	120.44
1	L	202	SER	N-CA-CB	5.66	120.16	111.22
1	M	13	LYS	N-CA-C	5.66	117.62	108.34
1	A	289	LYS	CB-CA-C	5.66	121.68	110.42
1	E	28	GLY	CA-C-N	5.66	129.38	120.89
1	E	28	GLY	C-N-CA	5.66	129.38	120.89
1	I	234	LEU	N-CA-C	5.66	117.52	108.41
1	K	31	ILE	CB-CA-C	5.66	120.57	111.29
1	N	386	GLU	CA-C-N	5.66	129.41	120.47
1	N	386	GLU	C-N-CA	5.66	129.41	120.47
1	B	117	PRO	CA-C-N	5.66	128.64	120.38
1	B	117	PRO	C-N-CA	5.66	128.64	120.38
1	B	163	ALA	CA-C-O	-5.66	112.42	120.51
1	C	151	THR	CA-CB-OG1	5.66	118.08	109.60
1	C	191	ASP	CB-CA-C	-5.66	101.76	110.81
1	E	274	HIS	N-CA-C	5.66	122.84	110.80
1	E	285	ARG	NH1-CZ-NH2	-5.66	111.95	119.30
1	F	430	ALA	O-C-N	-5.66	116.21	122.09
1	H	33	GLU	OE1-CD-OE2	-5.66	109.33	122.90
1	J	297	LYS	CB-CA-C	5.66	121.05	110.70
1	K	416	GLU	CB-CA-C	-5.66	101.03	110.81
1	K	419	PRO	CA-N-CD	-5.66	104.08	112.00
1	L	352	GLU	CB-CG-CD	5.66	122.22	112.60
1	L	463	GLU	CG-CD-OE1	-5.66	105.39	118.40
1	B	187	LYS	CA-C-N	5.65	132.15	121.97
1	B	187	LYS	C-N-CA	5.65	132.15	121.97
1	B	293	GLU	CA-CB-CG	-5.65	102.79	114.10
1	G	184	ASP	N-CA-C	5.65	119.50	111.92
1	K	136	LYS	O-C-N	-5.65	115.07	122.59
1	L	296	ALA	N-CA-CB	5.65	120.05	110.49
1	A	244	SER	CB-CA-C	5.65	121.67	110.42
1	B	352	GLU	N-CA-C	5.65	118.99	111.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	19	ASP	N-CA-C	-5.65	105.21	111.71
1	G	222	GLN	CA-CB-CG	5.65	125.41	114.10
1	I	151	THR	N-CA-C	5.65	118.64	111.69
1	I	483	SER	N-CA-CB	5.65	118.84	110.53
1	K	160	GLY	CA-C-O	-5.65	110.73	120.57
1	C	11	ASN	N-CA-C	-5.65	104.92	113.51
1	F	202	SER	CB-CA-C	-5.65	99.17	110.42
1	H	339	HIS	ND1-CE1-NE2	-5.65	102.75	108.40
1	J	9	PRO	CA-N-CD	-5.65	104.09	112.00
1	J	389	LEU	N-CA-C	-5.65	105.12	111.28
1	L	378	ILE	N-CA-CB	5.65	121.66	111.21
1	L	417	VAL	CB-CA-C	5.65	120.56	111.29
1	N	433	ILE	CA-C-O	-5.65	114.37	120.47
1	O	151	THR	CB-CA-C	5.65	120.85	110.11
1	P	87	LYS	N-CA-C	5.65	122.83	110.80
1	A	351	THR	CB-CA-C	5.65	122.63	111.22
1	P	369	VAL	N-CA-C	5.65	115.84	110.53
1	A	210	LYS	CA-CB-CG	5.65	125.40	114.10
1	A	366	VAL	O-C-N	5.65	127.35	121.87
1	A	456	GLY	CA-C-O	-5.65	110.75	120.57
1	C	162	GLY	O-C-N	-5.65	115.36	122.70
1	C	397	ALA	N-CA-C	-5.65	104.76	111.03
1	E	204	ASP	N-CA-CB	5.65	120.36	110.42
1	G	14	ARG	N-CA-C	5.65	118.07	108.02
1	G	114	ASN	O-C-N	-5.65	115.08	122.59
1	K	374	GLU	CA-C-N	5.65	130.73	122.77
1	K	374	GLU	C-N-CA	5.65	130.73	122.77
1	L	374	GLU	N-CA-C	5.65	122.83	110.80
1	M	150	LEU	N-CA-C	-5.65	105.12	111.28
1	O	336	GLU	CA-CB-CG	5.65	125.40	114.10
1	A	367	GLY	O-C-N	-5.65	116.77	122.19
1	A	453	VAL	CG1-CB-CG2	-5.65	98.38	110.80
1	C	14	ARG	CA-C-N	5.65	131.81	122.33
1	C	14	ARG	C-N-CA	5.65	131.81	122.33
1	C	411	PHE	CB-CG-CD1	5.65	130.30	120.70
1	D	82	ALA	N-CA-C	-5.65	106.56	113.50
1	D	485	GLU	CA-CB-CG	5.65	125.39	114.10
1	G	415	LEU	CD1-CG-CD2	-5.65	98.38	110.80
1	M	488	LEU	N-CA-CB	5.65	120.03	110.49
1	N	22	ARG	CB-CG-CD	-5.65	98.31	111.30
1	N	136	LYS	CA-C-O	-5.65	112.44	120.51
1	A	170	LEU	O-C-N	5.64	129.99	122.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	68	MET	N-CA-C	5.64	122.83	110.80
1	C	270	ASP	N-CA-CB	5.64	120.03	110.49
1	D	59	ASN	CB-CG-OD1	-5.64	109.51	120.80
1	F	152	LYS	CA-CB-CG	5.64	125.39	114.10
1	G	97	VAL	CB-CA-C	5.64	117.90	110.84
1	I	118	THR	N-CA-CB	5.64	120.03	110.49
1	N	412	ALA	CB-CA-C	-5.64	100.25	109.56
1	E	222	GLN	CA-C-N	5.64	133.87	121.63
1	E	222	GLN	C-N-CA	5.64	133.87	121.63
1	E	328	GLY	N-CA-C	-5.64	99.81	113.18
1	H	375	ASP	N-CA-C	5.64	117.43	107.61
1	I	191	ASP	CA-C-N	5.64	132.32	121.54
1	I	191	ASP	C-N-CA	5.64	132.32	121.54
1	I	295	LEU	N-CA-CB	5.64	120.03	110.49
1	P	21	GLN	N-CA-C	-5.64	104.34	111.11
1	P	208	LEU	CA-C-O	-5.64	109.91	121.03
1	P	463	GLU	N-CA-CB	5.64	119.07	110.44
1	B	231	LYS	CG-CD-CE	5.64	124.28	111.30
1	I	403	ARG	NE-CZ-NH2	5.64	124.28	119.20
1	J	48	LEU	N-CA-CB	5.64	118.26	109.97
1	L	346	LEU	N-CA-CB	5.64	118.58	110.06
1	P	222	GLN	N-CA-CB	-5.64	101.60	110.46
1	D	355	ILE	N-CA-C	5.64	121.07	109.34
1	F	72	HIS	ND1-CG-CD2	-5.64	100.46	106.10
1	I	30	ILE	O-C-N	5.64	129.28	121.84
1	J	360	ARG	NE-CZ-NH2	-5.64	114.12	119.20
1	K	432	GLU	O-C-N	-5.64	115.09	122.59
1	O	37	SER	N-CA-C	-5.64	104.58	112.25
1	P	140	CYS	O-C-N	5.64	129.65	123.22
1	P	236	ASN	CA-C-O	5.64	125.95	119.35
1	B	91	ASP	CA-C-O	-5.64	114.26	120.69
1	F	142	VAL	CA-C-N	5.64	132.46	121.41
1	F	142	VAL	C-N-CA	5.64	132.46	121.41
1	F	443	SER	CB-CA-C	5.64	119.62	110.37
1	L	215	ASP	N-CA-CB	5.64	116.83	110.35
1	A	28	GLY	CA-C-N	5.64	128.09	120.65
1	A	28	GLY	C-N-CA	5.64	128.09	120.65
1	B	416	GLU	O-C-N	-5.64	114.88	122.43
1	C	8	LEU	N-CA-CB	5.64	120.40	110.37
1	C	86	GLU	CB-CG-CD	5.64	122.18	112.60
1	E	269	ASP	CA-C-N	5.64	131.00	121.14
1	E	269	ASP	C-N-CA	5.64	131.00	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	219	VAL	CA-CB-CG1	5.64	119.98	110.40
1	I	13	LYS	CA-C-O	-5.64	115.58	121.55
1	I	468	GLU	N-CA-CB	-5.64	101.70	109.82
1	J	228	THR	O-C-N	-5.64	115.09	122.59
1	M	388	GLU	O-C-N	5.64	128.18	122.09
1	N	425	ASN	OD1-CG-ND2	-5.64	116.96	122.60
1	P	285	ARG	NE-CZ-NH1	5.64	127.14	121.50
1	A	229	ASP	OD1-CG-OD2	-5.63	109.38	122.90
1	C	296	ALA	O-C-N	-5.63	115.10	122.59
1	E	174	ILE	CA-C-O	-5.63	114.68	120.71
1	H	219	VAL	N-CA-CB	5.63	117.14	110.55
1	H	411	PHE	CB-CA-C	5.63	121.76	109.99
1	I	125	GLN	CG-CD-NE2	-5.63	107.95	116.40
1	J	26	LEU	N-CA-CB	-5.63	101.54	110.22
1	K	150	LEU	O-C-N	5.63	129.88	122.33
1	L	11	ASN	CB-CG-ND2	-5.63	107.95	116.40
1	L	115	VAL	CA-C-N	5.63	135.55	121.80
1	L	115	VAL	C-N-CA	5.63	135.55	121.80
1	C	11	ASN	CB-CG-OD1	5.63	132.06	120.80
1	E	47	MET	CA-CB-CG	5.63	125.37	114.10
1	E	428	LEU	CA-C-O	-5.63	116.10	122.01
1	G	61	GLY	O-C-N	-5.63	115.38	122.70
1	J	376	GLY	CA-C-O	-5.63	113.00	119.65
1	O	220	SER	CA-C-N	5.63	128.39	120.28
1	O	220	SER	C-N-CA	5.63	128.39	120.28
1	C	103	LEU	CA-C-O	-5.63	112.46	120.51
1	C	340	PRO	CA-C-O	-5.63	110.35	120.60
1	D	453	VAL	CA-C-O	5.63	126.78	120.64
1	E	261	VAL	O-C-N	-5.63	116.56	123.03
1	F	303	VAL	N-CA-C	5.63	121.06	109.34
1	H	168	GLU	CB-CA-C	-5.63	102.00	110.90
1	J	220	SER	CA-C-N	5.63	128.87	120.31
1	J	220	SER	C-N-CA	5.63	128.87	120.31
1	L	473	LYS	CB-CA-C	-5.63	101.28	110.85
1	M	268	ILE	N-CA-C	5.63	116.85	108.46
1	O	25	ILE	CA-CB-CG1	5.63	119.97	110.40
1	G	233	ALA	CA-C-N	-5.63	115.06	123.00
1	G	233	ALA	C-N-CA	-5.63	115.06	123.00
1	P	184	ASP	O-C-N	5.63	130.08	122.59
1	A	277	ALA	N-CA-CB	-5.63	102.14	110.53
1	E	68	MET	O-C-N	-5.63	115.10	122.59
1	F	467	VAL	CB-CA-C	5.63	120.79	110.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	10	GLU	CG-CD-OE2	5.63	131.35	118.40
1	I	419	PRO	O-C-N	-5.63	114.65	122.30
1	J	166	ALA	CA-C-O	5.63	127.91	118.91
1	J	173	ILE	CA-CB-CG2	5.63	120.07	110.50
1	N	331	MET	CA-C-O	-5.63	114.85	121.44
1	O	464	ASN	O-C-N	5.63	130.14	122.37
1	P	137	THR	O-C-N	-5.63	114.95	122.49
1	B	164	GLU	O-C-N	5.63	130.22	122.46
1	B	402	GLY	CA-C-N	5.63	132.28	121.54
1	B	402	GLY	C-N-CA	5.63	132.28	121.54
1	C	68	MET	CA-C-N	5.63	132.29	121.54
1	C	68	MET	C-N-CA	5.63	132.29	121.54
1	C	374	GLU	N-CA-C	5.63	119.32	112.23
1	D	163	ALA	CA-C-N	-5.63	110.79	121.54
1	D	163	ALA	C-N-CA	-5.63	110.79	121.54
1	F	114	ASN	N-CA-C	5.63	122.78	110.80
1	F	116	HIS	CB-CA-C	5.63	121.25	110.17
1	H	80	GLU	CB-CG-CD	-5.63	103.03	112.60
1	I	480	ALA	N-CA-CB	-5.63	101.89	110.33
1	K	299	THR	N-CA-CB	5.63	120.00	110.49
1	P	307	ILE	N-CA-C	5.63	121.04	109.34
1	B	205	ASP	CA-CB-CG	5.62	118.22	112.60
1	G	485	GLU	N-CA-C	5.62	117.09	111.07
1	I	10	GLU	CB-CA-C	5.62	121.61	110.42
1	I	289	LYS	N-CA-CB	5.62	120.00	110.49
1	J	90	GLY	CA-C-O	-5.62	110.78	120.57
1	M	395	GLU	CA-C-N	5.62	128.86	120.31
1	M	395	GLU	C-N-CA	5.62	128.86	120.31
1	O	53	GLY	CA-C-O	-5.62	113.25	119.27
1	O	350	THR	N-CA-C	5.62	122.78	110.80
1	B	88	GLU	N-CA-CB	5.62	120.00	110.49
1	G	413	ASP	N-CA-CB	-5.62	100.55	110.39
1	I	418	ILE	N-CA-CB	5.62	119.08	111.21
1	J	340	PRO	CB-CA-C	-5.62	102.28	111.56
1	M	186	GLY	CA-C-O	-5.62	110.79	120.57
1	N	186	GLY	O-C-N	5.62	130.01	122.70
1	O	481	ALA	N-CA-CB	5.62	119.02	110.14
1	B	449	ALA	N-CA-C	5.62	122.77	110.80
1	C	12	MET	CB-CA-C	-5.62	99.23	110.42
1	F	80	GLU	N-CA-CB	5.62	119.99	110.49
1	F	111	LEU	N-CA-CB	5.62	119.99	110.49
1	F	421	THR	O-C-N	-5.62	115.64	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	159	THR	CB-CA-C	-5.62	100.74	111.48
1	M	260	ASN	CA-CB-CG	5.62	118.22	112.60
1	M	333	PHE	CG-CD2-CE2	-5.62	111.14	120.70
1	P	440	ALA	CA-C-O	-5.62	112.96	119.14
1	B	404	GLU	CA-C-O	-5.62	112.47	119.38
1	J	11	ASN	CB-CG-ND2	5.62	124.83	116.40
1	A	431	ILE	CB-CA-C	5.62	120.50	111.29
1	E	107	ALA	O-C-N	-5.62	115.75	122.15
1	F	215	ASP	CA-C-O	-5.62	112.48	120.51
1	F	297	LYS	CB-CA-C	5.62	119.15	109.15
1	G	444	ASN	CB-CG-ND2	-5.62	107.97	116.40
1	G	444	ASN	OD1-CG-ND2	5.62	128.22	122.60
1	J	480	ALA	N-CA-CB	-5.62	102.27	110.53
1	K	105	ARG	CA-C-N	5.62	132.27	121.54
1	K	105	ARG	C-N-CA	5.62	132.27	121.54
1	K	429	ASP	O-C-N	-5.62	114.66	122.41
1	M	135	LEU	N-CA-CB	5.62	118.57	110.20
1	N	435	VAL	CA-C-O	5.62	126.32	120.25
1	P	221	ALA	N-CA-C	5.62	122.77	110.80
1	P	316	GLY	CA-C-O	-5.62	114.61	122.36
1	G	426	ALA	N-CA-CB	5.62	119.27	109.72
1	O	219	VAL	CG1-CB-CG2	5.62	123.16	110.80
1	B	433	ILE	CA-C-O	5.62	126.79	120.95
1	C	337	CYS	N-CA-CB	5.62	118.22	109.85
1	E	418	ILE	CB-CG1-CD1	5.62	125.59	113.80
1	F	286	ARG	CA-C-N	5.62	129.60	121.18
1	F	286	ARG	C-N-CA	5.62	129.60	121.18
1	G	413	ASP	O-C-N	-5.62	114.71	122.46
1	J	98	VAL	N-CA-C	-5.62	105.25	110.53
1	J	145	GLN	CG-CD-NE2	5.62	124.82	116.40
1	M	262	LEU	O-C-N	-5.62	115.65	123.34
1	N	196	GLU	N-CA-C	5.62	117.88	108.73
1	P	339	HIS	ND1-CG-CD2	-5.62	100.48	106.10
1	A	21	GLN	O-C-N	5.61	130.06	122.59
1	A	425	ASN	CA-C-N	5.61	134.65	121.52
1	A	425	ASN	C-N-CA	5.61	134.65	121.52
1	D	441	HIS	CG-CD2-NE2	5.61	112.81	107.20
1	E	218	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	I	424	GLU	CB-CA-C	-5.61	99.89	110.67
1	I	470	LEU	CB-CA-C	5.61	118.89	110.08
1	L	155	MET	CB-CA-C	5.61	122.04	110.31
1	M	270	ASP	CB-CA-C	5.61	121.59	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	268	ILE	CA-C-O	5.61	127.24	120.67
1	O	357	GLU	CB-CA-C	5.61	121.59	110.42
1	A	403	ARG	CG-CD-NE	5.61	124.35	112.00
1	M	207	GLU	CA-C-N	-5.61	114.66	123.13
1	M	207	GLU	C-N-CA	-5.61	114.66	123.13
1	P	30	ILE	O-C-N	5.61	129.59	122.57
1	A	344	THR	O-C-N	5.61	129.34	123.06
1	C	89	VAL	CA-C-O	-5.61	114.15	120.32
1	C	444	ASN	CA-CB-CG	5.61	118.21	112.60
1	E	39	LEU	O-C-N	-5.61	115.55	123.01
1	G	192	LEU	N-CA-C	5.61	122.75	110.80
1	I	72	HIS	N-CA-CB	-5.61	102.88	110.23
1	I	121	VAL	N-CA-CB	5.61	117.11	110.55
1	I	233	ALA	CA-C-N	-5.61	114.96	122.42
1	I	233	ALA	C-N-CA	-5.61	114.96	122.42
1	I	344	THR	OG1-CB-CG2	5.61	120.52	109.30
1	J	385	THR	O-C-N	-5.61	115.75	122.15
1	K	115	VAL	CA-C-O	5.61	127.88	120.98
1	N	432	GLU	N-CA-C	5.61	117.09	110.97
1	O	244	SER	N-CA-C	5.61	122.75	110.80
1	E	110	LEU	CA-C-N	5.61	132.25	121.54
1	E	110	LEU	C-N-CA	5.61	132.25	121.54
1	I	333	PHE	O-C-N	-5.61	116.65	123.10
1	N	81	VAL	CA-CB-CG1	5.61	119.94	110.40
1	P	114	ASN	OD1-CG-ND2	-5.61	116.99	122.60
1	B	34	THR	O-C-N	5.61	128.08	122.08
1	C	482	GLU	O-C-N	-5.61	114.24	122.43
1	D	359	ALA	N-CA-CB	5.61	119.26	110.46
1	F	212	VAL	N-CA-C	5.61	116.13	107.78
1	O	86	GLU	N-CA-CB	5.61	118.43	110.13
1	D	424	GLU	CA-C-N	5.61	127.73	120.44
1	D	424	GLU	C-N-CA	5.61	127.73	120.44
1	F	297	LYS	CG-CD-CE	5.61	124.19	111.30
1	G	493	VAL	CA-CB-CG1	-5.61	100.87	110.40
1	O	13	LYS	N-CA-C	5.61	118.67	109.76
1	C	24	ASN	CA-CB-CG	-5.60	107.00	112.60
1	C	330	SER	CA-CB-OG	5.60	122.31	111.10
1	E	360	ARG	CG-CD-NE	5.60	124.33	112.00
1	J	274	HIS	N-CA-CB	5.60	119.96	110.49
1	M	125	GLN	CG-CD-NE2	-5.60	107.99	116.40
1	B	71	GLU	CA-C-O	5.60	128.52	120.51
1	B	151	THR	N-CA-CB	5.60	118.77	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	112	ASP	CA-C-O	-5.60	112.98	119.59
1	J	85	GLN	N-CA-CB	5.60	118.45	110.16
1	J	145	GLN	CA-C-N	5.60	129.84	121.72
1	J	145	GLN	C-N-CA	5.60	129.84	121.72
1	M	474	THR	CA-CB-OG1	5.60	118.00	109.60
1	O	229	ASP	OD1-CG-OD2	-5.60	109.45	122.90
1	C	107	ALA	O-C-N	5.60	129.94	122.43
1	H	496	ALA	CA-C-O	5.60	128.52	120.51
1	M	309	ASP	CA-C-N	5.60	129.06	121.05
1	M	309	ASP	C-N-CA	5.60	129.06	121.05
1	M	345	MET	N-CA-CB	-5.60	101.80	110.65
1	M	477	ILE	N-CA-CB	5.60	120.76	110.40
1	A	275	TYR	CB-CA-C	5.60	119.63	110.95
1	B	322	GLU	OE1-CD-OE2	5.60	136.34	122.90
1	E	71	GLU	CB-CG-CD	5.60	122.12	112.60
1	I	164	GLU	CA-CB-CG	5.60	125.30	114.10
1	J	465	GLY	O-C-N	-5.60	115.42	122.70
1	K	419	PRO	N-CD-CG	5.60	111.60	103.20
1	L	323	GLU	CA-C-O	-5.60	114.72	120.54
1	M	331	MET	CA-C-O	-5.60	115.07	121.40
1	N	116	HIS	CA-C-N	5.60	126.84	119.84
1	N	116	HIS	C-N-CA	5.60	126.84	119.84
1	P	244	SER	CA-C-O	-5.60	112.50	120.51
1	B	421	THR	OG1-CB-CG2	5.60	120.49	109.30
1	E	108	GLU	CB-CA-C	5.60	120.13	110.84
1	E	176	GLU	CA-C-O	-5.60	114.03	120.24
1	E	259	ALA	N-CA-C	5.60	122.72	110.80
1	M	29	ARG	CA-C-O	5.60	126.70	120.82
1	M	83	LYS	N-CA-C	5.60	118.10	111.33
1	N	251	VAL	CA-C-O	-5.60	115.24	121.17
1	O	46	LYS	O-C-N	5.60	130.10	123.33
1	P	377	ARG	N-CA-CB	-5.60	101.28	110.68
1	E	59	ASN	CB-CG-OD1	5.60	131.99	120.80
1	G	132	GLN	CB-CG-CD	-5.60	103.09	112.60
1	H	28	GLY	O-C-N	-5.60	115.66	122.71
1	H	167	LYS	CG-CD-CE	5.60	124.17	111.30
1	I	491	ASP	CA-CB-CG	5.60	118.20	112.60
1	L	439	ALA	CA-C-N	5.60	130.19	120.68
1	L	439	ALA	C-N-CA	5.60	130.19	120.68
1	A	497	GLU	CG-CD-OE1	-5.59	105.53	118.40
1	B	334	VAL	CA-C-O	5.59	127.77	120.78
1	C	343	VAL	CA-C-O	-5.59	113.79	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	182	VAL	CA-C-N	5.59	130.72	123.00
1	E	182	VAL	C-N-CA	5.59	130.72	123.00
1	E	204	ASP	CA-CB-CG	-5.59	107.01	112.60
1	F	188	VAL	CA-C-N	-5.59	114.88	122.77
1	F	188	VAL	C-N-CA	-5.59	114.88	122.77
1	F	348	ARG	CA-CB-CG	5.59	125.29	114.10
1	J	376	GLY	CA-C-N	5.59	131.62	121.89
1	J	376	GLY	C-N-CA	5.59	131.62	121.89
1	L	248	LYS	CB-CA-C	5.59	119.66	110.88
1	L	354	VAL	N-CA-C	5.59	120.98	109.34
1	N	242	THR	CB-CA-C	5.59	118.84	109.89
1	P	255	LYS	CA-C-N	5.59	127.78	120.28
1	P	255	LYS	C-N-CA	5.59	127.78	120.28
1	P	490	ILE	CB-CG1-CD1	-5.59	102.05	113.80
1	A	249	ASP	CA-C-O	-5.59	111.78	119.05
1	B	263	PHE	CB-CG-CD1	-5.59	111.19	120.70
1	F	470	LEU	CB-CA-C	5.59	118.47	109.07
1	H	361	ALA	O-C-N	-5.59	115.15	122.59
1	D	439	ALA	CA-C-N	5.59	128.23	120.29
1	D	439	ALA	C-N-CA	5.59	128.23	120.29
1	E	39	LEU	N-CA-C	5.59	118.29	109.96
1	E	300	GLY	O-C-N	-5.59	115.43	122.70
1	F	50	ASP	CA-C-N	5.59	128.04	120.38
1	F	50	ASP	C-N-CA	5.59	128.04	120.38
1	J	112	ASP	CB-CG-OD1	5.59	131.26	118.40
1	K	158	ILE	N-CA-C	5.59	120.97	109.34
1	O	169	LYS	CA-CB-CG	5.59	125.28	114.10
1	P	420	ARG	NE-CZ-NH1	-5.59	115.91	121.50
1	C	235	LEU	O-C-N	-5.59	112.27	122.44
1	C	358	VAL	CA-CB-CG1	5.59	119.90	110.40
1	E	225	LYS	CA-CB-CG	5.59	125.28	114.10
1	E	497	GLU	CB-CG-CD	-5.59	103.10	112.60
1	J	76	LYS	CB-CG-CD	5.59	124.16	111.30
1	K	258	GLY	O-C-N	5.59	129.97	122.70
1	B	74	ALA	CA-C-N	5.59	128.33	120.28
1	B	74	ALA	C-N-CA	5.59	128.33	120.28
1	B	457	ALA	CA-C-N	-5.59	113.56	122.50
1	B	457	ALA	C-N-CA	-5.59	113.56	122.50
1	J	469	PRO	CB-CA-C	-5.59	102.34	111.56
1	P	318	ALA	CA-C-O	-5.59	114.12	120.32
1	A	370	GLY	N-CA-C	-5.59	106.02	112.50
1	B	39	LEU	CB-CA-C	5.59	119.53	109.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	400	ILE	N-CA-CB	5.59	120.45	111.23
1	G	274	HIS	CG-CD2-NE2	-5.59	101.61	107.20
1	H	349	GLY	CA-C-N	5.59	133.54	121.64
1	H	349	GLY	C-N-CA	5.59	133.54	121.64
1	J	176	GLU	N-CA-C	-5.59	106.30	113.23
1	L	50	ASP	CB-CG-OD2	-5.59	105.55	118.40
1	L	478	GLN	N-CA-CB	5.59	119.93	110.49
1	M	19	ASP	CA-CB-CG	5.59	118.19	112.60
1	N	215	ASP	N-CA-CB	5.59	119.05	110.61
1	N	245	GLU	N-CA-CB	5.59	118.03	110.10
1	N	275	TYR	CA-C-O	-5.59	114.95	120.82
1	D	170	LEU	CB-CA-C	5.58	120.89	109.55
1	I	56	VAL	CB-CA-C	-5.58	102.13	111.29
1	I	331	MET	CA-C-O	-5.58	114.73	120.99
1	A	270	ASP	CB-CG-OD1	5.58	131.24	118.40
1	B	121	VAL	N-CA-C	-5.58	104.48	112.35
1	C	180	ALA	N-CA-C	5.58	120.75	113.88
1	D	293	GLU	CB-CA-C	-5.58	100.77	110.09
1	H	347	ILE	CA-CB-CG1	5.58	119.89	110.40
1	I	8	LEU	CA-C-N	5.58	126.82	119.84
1	I	8	LEU	C-N-CA	5.58	126.82	119.84
1	L	192	LEU	CB-CA-C	5.58	121.56	110.17
1	L	432	GLU	CB-CG-CD	5.58	122.09	112.60
1	N	198	LYS	CA-C-O	-5.58	115.09	121.40
1	P	80	GLU	O-C-N	5.58	130.02	122.59
1	P	148	GLU	OE1-CD-OE2	-5.58	109.50	122.90
1	B	130	LYS	CB-CG-CD	5.58	124.14	111.30
1	C	174	ILE	CB-CA-C	-5.58	103.78	111.65
1	E	30	ILE	CB-CA-C	-5.58	102.14	111.29
1	E	173	ILE	CA-C-O	5.58	125.95	119.36
1	F	374	GLU	OE1-CD-OE2	-5.58	109.51	122.90
1	G	60	ASP	CA-C-O	5.58	127.26	120.62
1	G	395	GLU	CG-CD-OE2	5.58	131.24	118.40
1	H	375	ASP	CA-C-O	-5.58	112.50	120.15
1	H	469	PRO	N-CD-CG	5.58	111.57	103.20
1	I	85	GLN	CB-CA-C	5.58	121.39	110.67
1	J	53	GLY	CA-C-N	5.58	128.77	120.90
1	J	53	GLY	C-N-CA	5.58	128.77	120.90
1	K	489	ARG	NE-CZ-NH2	5.58	124.22	119.20
1	P	308	LYS	O-C-N	-5.58	116.44	122.19
1	B	314	ASP	N-CA-CB	5.58	119.92	110.49
1	G	187	LYS	CB-CG-CD	5.58	124.13	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	326	ILE	CB-CG1-CD1	5.58	125.52	113.80
1	J	350	THR	CA-C-O	-5.58	115.03	120.89
1	M	469	PRO	CA-C-N	-5.58	112.61	122.26
1	M	469	PRO	C-N-CA	-5.58	112.61	122.26
1	N	24	ASN	CA-C-N	5.58	128.08	120.77
1	N	24	ASN	C-N-CA	5.58	128.08	120.77
1	P	245	GLU	OE1-CD-OE2	-5.58	109.51	122.90
1	B	465	GLY	CA-C-O	-5.58	110.86	120.57
1	F	339	HIS	N-CA-CB	5.58	120.30	110.37
1	G	324	ARG	CD-NE-CZ	-5.58	116.59	124.40
1	I	291	ASP	CA-C-O	-5.58	112.52	119.38
1	I	362	VAL	N-CA-C	5.58	118.92	111.44
1	J	144	ALA	CA-C-O	5.58	125.28	119.14
1	L	22	ARG	O-C-N	-5.58	115.79	122.15
1	L	304	ILE	O-C-N	-5.58	117.11	122.97
1	M	313	GLN	CB-CA-C	5.58	120.16	110.79
1	N	453	VAL	CG1-CB-CG2	5.58	123.07	110.80
1	I	466	VAL	N-CA-CB	-5.58	102.03	111.23
1	K	293	GLU	N-CA-C	5.58	118.29	111.82
1	A	375	ASP	CA-CB-CG	5.58	118.17	112.60
1	C	348	ARG	NH1-CZ-NH2	5.58	126.55	119.30
1	C	388	GLU	N-CA-CB	5.58	118.38	110.13
1	E	22	ARG	NE-CZ-NH2	5.58	124.22	119.20
1	I	224	PRO	N-CD-CG	-5.58	94.84	103.20
1	N	314	ASP	CA-C-N	5.58	131.76	122.73
1	N	314	ASP	C-N-CA	5.58	131.76	122.73
1	A	353	HIS	ND1-CE1-NE2	-5.57	102.83	108.40
1	D	317	ASP	CB-CG-OD1	5.57	131.22	118.40
1	F	210	LYS	CA-C-O	-5.57	112.54	120.51
1	G	81	VAL	CB-CA-C	5.57	119.20	110.95
1	J	14	ARG	N-CA-C	5.57	117.49	108.41
1	L	58	THR	O-C-N	-5.57	116.81	123.27
1	N	300	GLY	N-CA-C	5.57	119.54	113.58
1	C	261	VAL	N-CA-C	5.57	116.31	108.17
1	G	309	ASP	N-CA-CB	5.57	118.88	110.30
1	L	176	GLU	CA-C-O	5.57	126.24	119.11
1	O	66	ARG	NE-CZ-NH1	-5.57	115.93	121.50
1	F	469	PRO	N-CD-CG	-5.57	94.84	103.20
1	H	214	VAL	CA-C-O	5.57	127.74	120.78
1	H	472	VAL	CA-CB-CG1	5.57	119.87	110.40
1	I	105	ARG	CB-CA-C	-5.57	101.21	110.68
1	I	187	LYS	CB-CA-C	5.57	119.27	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	406	LEU	N-CA-C	5.57	122.67	110.80
1	K	83	LYS	CB-CA-C	5.57	121.50	110.42
1	D	129	GLN	CG-CD-OE1	-5.57	109.66	120.80
1	D	240	GLU	N-CA-C	5.57	118.66	107.41
1	H	15	TYR	CG-CD2-CE2	-5.57	112.85	121.20
1	J	185	GLU	O-C-N	-5.57	115.18	122.59
1	O	218	ARG	N-CA-C	-5.57	98.13	107.99
1	P	446	ASN	N-CA-CB	-5.57	101.05	110.41
1	P	473	LYS	N-CA-CB	-5.57	101.64	110.22
1	A	181	VAL	N-CA-CB	5.57	117.06	110.55
1	D	11	ASN	CB-CG-ND2	-5.57	108.05	116.40
1	E	415	LEU	N-CA-C	5.57	122.66	110.80
1	F	272	ALA	N-CA-CB	5.57	119.90	110.49
1	H	233	ALA	CA-C-O	5.57	126.14	120.24
1	J	93	THR	CA-CB-CG2	5.57	119.97	110.50
1	J	179	SER	CA-C-O	-5.57	113.22	119.79
1	J	307	ILE	N-CA-CB	5.57	120.42	111.23
1	L	338	LYS	N-CA-C	-5.57	104.61	111.40
1	A	150	LEU	CA-C-N	5.57	127.74	120.28
1	A	150	LEU	C-N-CA	5.57	127.74	120.28
1	A	381	GLY	CA-C-N	5.57	131.18	120.66
1	A	381	GLY	C-N-CA	5.57	131.18	120.66
1	A	412	ALA	N-CA-CB	-5.57	101.89	110.13
1	C	210	LYS	CA-CB-CG	5.57	125.23	114.10
1	C	420	ARG	CB-CA-C	5.57	120.88	110.70
1	D	143	GLY	N-CA-C	5.57	121.03	112.51
1	E	482	GLU	CB-CG-CD	5.57	122.06	112.60
1	F	256	ALA	N-CA-C	5.57	119.91	113.18
1	G	294	LYS	CG-CD-CE	5.57	124.10	111.30
1	H	190	LYS	CA-C-N	5.57	132.41	122.06
1	H	190	LYS	C-N-CA	5.57	132.41	122.06
1	I	433	ILE	CA-C-O	5.57	126.26	120.25
1	I	493	VAL	CA-CB-CG2	5.57	119.86	110.40
1	L	210	LYS	N-CA-CB	5.57	119.90	110.49
1	M	115	VAL	CA-C-O	-5.57	113.82	120.78
1	O	100	ALA	CA-C-O	5.57	126.79	120.00
1	O	134	LEU	CA-C-N	5.57	128.19	120.29
1	O	134	LEU	C-N-CA	5.57	128.19	120.29
1	D	183	ASP	N-CA-C	5.56	118.89	109.76
1	E	97	VAL	N-CA-CB	-5.56	102.05	111.23
1	H	137	THR	CA-C-O	-5.56	114.98	120.82
1	C	455	THR	OG1-CB-CG2	5.56	120.43	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	402	GLY	CA-C-N	5.56	132.16	121.54
1	D	402	GLY	C-N-CA	5.56	132.16	121.54
1	E	492	ASP	OD1-CG-OD2	-5.56	109.55	122.90
1	H	184	ASP	CA-C-O	-5.56	113.90	120.57
1	H	270	ASP	N-CA-CB	-5.56	101.09	110.49
1	H	312	ALA	N-CA-C	5.56	119.06	112.72
1	I	123	GLY	O-C-N	-5.56	115.47	122.70
1	I	185	GLU	OE1-CD-OE2	-5.56	109.55	122.90
1	K	134	LEU	CB-CA-C	5.56	120.92	110.63
1	K	403	ARG	CG-CD-NE	-5.56	99.77	112.00
1	L	119	ILE	N-CA-CB	5.56	120.41	111.23
1	L	461	MET	CA-C-N	5.56	132.16	121.54
1	L	461	MET	C-N-CA	5.56	132.16	121.54
1	N	156	THR	CA-C-N	5.56	128.20	120.63
1	N	156	THR	C-N-CA	5.56	128.20	120.63
1	O	39	LEU	CB-CA-C	5.56	118.79	109.89
1	O	151	THR	CA-C-O	-5.56	111.83	119.12
1	P	159	THR	CA-C-O	-5.56	114.15	120.32
1	P	206	THR	O-C-N	-5.56	116.73	123.13
1	P	497	GLU	CA-C-O	-5.56	111.34	120.80
1	B	200	GLY	CA-C-N	5.56	132.16	121.54
1	B	200	GLY	C-N-CA	5.56	132.16	121.54
1	E	301	ALA	CA-C-N	5.56	130.07	122.84
1	E	301	ALA	C-N-CA	5.56	130.07	122.84
1	G	194	LYS	CA-C-O	-5.56	115.65	121.99
1	I	175	VAL	CA-CB-CG1	5.56	119.85	110.40
1	O	142	VAL	CA-CB-CG2	5.56	119.85	110.40
1	D	311	SER	CB-CA-C	5.56	121.01	110.56
1	E	265	GLN	N-CA-C	5.56	118.86	111.75
1	L	116	HIS	CE1-NE2-CD2	-5.56	103.44	109.00
1	L	204	ASP	N-CA-C	-5.56	106.49	113.72
1	N	324	ARG	CA-CB-CG	5.56	125.22	114.10
1	O	265	GLN	N-CA-C	-5.56	105.12	111.07
1	B	188	VAL	CA-C-O	-5.56	113.83	120.78
1	G	250	MET	CA-CB-CG	5.56	125.22	114.10
1	H	145	GLN	N-CA-C	5.56	119.90	113.18
1	I	353	HIS	ND1-CE1-NE2	-5.56	102.84	108.40
1	J	8	LEU	CA-C-O	5.56	125.36	119.69
1	J	250	MET	N-CA-C	5.56	120.12	113.23
1	K	188	VAL	CB-CA-C	-5.56	102.22	110.33
1	K	376	GLY	CA-C-O	5.56	125.76	119.09
1	K	414	ALA	N-CA-CB	5.56	118.86	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	289	LYS	CA-C-N	5.56	128.19	120.63
1	L	289	LYS	C-N-CA	5.56	128.19	120.63
1	P	247	LEU	CA-C-N	5.56	128.19	120.63
1	P	247	LEU	C-N-CA	5.56	128.19	120.63
1	G	34	THR	CA-CB-CG2	5.56	119.95	110.50
1	J	228	THR	N-CA-CB	5.56	119.88	110.49
1	P	85	GLN	N-CA-CB	5.56	118.48	110.20
1	B	79	ILE	N-CA-C	-5.55	104.95	110.62
1	C	70	VAL	N-CA-C	5.55	120.89	109.34
1	C	431	ILE	N-CA-CB	5.55	121.78	110.78
1	F	21	GLN	CG-CD-OE1	-5.55	109.69	120.80
1	J	253	GLU	CG-CD-OE1	-5.55	105.62	118.40
1	K	468	GLU	N-CA-CB	-5.55	101.82	109.82
1	N	242	THR	N-CA-CB	5.55	118.13	109.85
1	N	455	THR	CA-C-N	5.55	132.30	121.41
1	N	455	THR	C-N-CA	5.55	132.30	121.41
1	O	143	GLY	CA-C-N	-5.55	111.89	121.66
1	O	143	GLY	C-N-CA	-5.55	111.89	121.66
1	E	308	LYS	CB-CA-C	5.55	121.47	110.42
1	F	361	ALA	O-C-N	-5.55	114.99	122.43
1	I	417	VAL	CA-C-O	-5.55	113.84	120.78
1	M	361	ALA	N-CA-CB	5.55	120.19	110.42
1	G	290	SER	CA-CB-OG	5.55	122.20	111.10
1	I	283	ALA	N-CA-C	5.55	116.84	108.46
1	M	65	LEU	N-CA-C	5.55	121.08	113.97
1	N	88	GLU	N-CA-CB	5.55	119.87	110.49
1	P	365	ALA	O-C-N	-5.55	115.87	122.20
1	B	371	CYS	N-CA-C	5.55	120.16	112.45
1	C	268	ILE	O-C-N	-5.55	116.89	123.00
1	E	271	LEU	O-C-N	-5.55	114.33	122.43
1	F	20	ALA	N-CA-CB	5.55	118.23	110.07
1	H	352	GLU	CB-CG-CD	5.55	122.03	112.60
1	K	386	GLU	O-C-N	-5.55	114.81	122.30
1	O	377	ARG	NH1-CZ-NH2	5.55	126.51	119.30
1	P	141	GLU	CA-C-O	-5.55	114.72	121.05
1	A	390	SER	CA-C-O	5.55	126.61	120.90
1	K	286	ARG	N-CA-C	5.55	122.15	113.72
1	K	329	ASP	OD1-CG-OD2	-5.55	109.58	122.90
1	N	19	ASP	N-CA-C	5.55	122.62	110.80
1	P	443	SER	CB-CA-C	5.55	121.46	110.42
1	A	61	GLY	CA-C-N	5.55	131.95	121.97
1	A	61	GLY	C-N-CA	5.55	131.95	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	473	LYS	O-C-N	5.55	129.44	122.23
1	C	378	ILE	CA-CB-CG2	5.55	119.93	110.50
1	D	464	ASN	CB-CG-OD1	-5.55	109.71	120.80
1	F	285	ARG	NE-CZ-NH1	5.55	127.05	121.50
1	I	228	THR	N-CA-CB	5.55	119.86	110.49
1	J	146	ASP	N-CA-CB	-5.55	100.83	109.87
1	K	110	LEU	O-C-N	-5.55	116.10	122.09
1	L	449	ALA	CA-C-O	-5.55	112.58	120.51
1	L	455	THR	N-CA-CB	-5.55	102.01	110.33
1	F	51	ASP	N-CA-C	-5.54	104.62	111.33
1	F	319	GLY	CA-C-N	5.54	131.07	121.64
1	F	319	GLY	C-N-CA	5.54	131.07	121.64
1	H	360	ARG	N-CA-CB	5.54	118.46	110.20
1	J	19	ASP	N-CA-CB	5.54	118.82	109.78
1	L	274	HIS	ND1-CG-CD2	5.54	111.64	106.10
1	M	420	ARG	CA-C-O	-5.54	112.58	120.51
1	C	74	ALA	N-CA-C	-5.54	105.15	111.14
1	G	76	LYS	CA-CB-CG	5.54	125.19	114.10
1	K	418	ILE	CA-CB-CG1	5.54	119.82	110.40
1	P	174	ILE	N-CA-CB	5.54	116.66	110.62
1	P	238	ALA	CA-C-N	5.54	131.95	121.97
1	P	238	ALA	C-N-CA	5.54	131.95	121.97
1	B	114	ASN	CA-C-N	-5.54	112.00	121.97
1	B	114	ASN	C-N-CA	-5.54	112.00	121.97
1	C	346	LEU	CA-C-O	5.54	127.37	121.16
1	G	100	ALA	CA-C-N	5.54	132.27	121.41
1	G	100	ALA	C-N-CA	5.54	132.27	121.41
1	H	235	LEU	CA-C-O	-5.54	114.58	120.40
1	J	59	ASN	CA-C-N	5.54	131.56	121.97
1	J	59	ASN	C-N-CA	5.54	131.56	121.97
1	J	125	GLN	CA-C-O	5.54	126.33	119.79
1	J	294	LYS	O-C-N	-5.54	114.91	122.33
1	L	283	ALA	CA-C-O	-5.54	115.35	121.33
1	N	475	GLN	CA-CB-CG	5.54	125.18	114.10
1	P	203	ILE	CB-CG1-CD1	5.54	125.44	113.80
1	P	379	VAL	CA-CB-CG2	5.54	119.82	110.40
1	A	127	ALA	O-C-N	-5.54	113.55	122.41
1	A	323	GLU	N-CA-C	5.54	117.49	108.63
1	P	297	LYS	CG-CD-CE	5.54	124.04	111.30
1	C	358	VAL	CA-C-N	5.54	128.73	120.31
1	C	358	VAL	C-N-CA	5.54	128.73	120.31
1	D	219	VAL	CG1-CB-CG2	5.54	122.98	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	463	GLU	CA-CB-CG	-5.54	103.02	114.10
1	P	172	GLU	N-CA-C	5.54	117.00	111.07
1	P	466	VAL	CG1-CB-CG2	-5.54	98.62	110.80
1	B	353	HIS	ND1-CE1-NE2	5.54	113.94	108.40
1	E	396	TYR	CG-CD2-CE2	5.54	129.51	121.20
1	H	381	GLY	CA-C-N	5.54	132.26	121.41
1	H	381	GLY	C-N-CA	5.54	132.26	121.41
1	I	455	THR	CA-C-N	-5.54	110.56	121.41
1	I	455	THR	C-N-CA	-5.54	110.56	121.41
1	J	328	GLY	CA-C-O	-5.54	110.94	120.57
1	K	117	PRO	O-C-N	5.54	130.12	122.64
1	K	286	ARG	NH1-CZ-NH2	5.54	126.50	119.30
1	M	379	VAL	O-C-N	5.54	128.79	123.14
1	N	119	ILE	CA-CB-CG2	-5.54	101.09	110.50
1	N	309	ASP	CB-CG-OD2	5.54	131.13	118.40
1	O	388	GLU	CA-C-N	5.54	128.01	120.54
1	O	388	GLU	C-N-CA	5.54	128.01	120.54
1	B	360	ARG	N-CA-CB	5.54	118.43	110.40
1	E	204	ASP	CA-C-N	-5.54	113.04	122.56
1	E	204	ASP	C-N-CA	-5.54	113.04	122.56
1	G	76	LYS	CA-C-N	5.54	132.37	121.58
1	G	76	LYS	C-N-CA	5.54	132.37	121.58
1	G	497	GLU	CA-C-O	-5.54	111.39	120.80
1	J	126	ALA	CB-CA-C	5.54	120.80	109.67
1	J	172	GLU	OE1-CD-OE2	5.54	136.18	122.90
1	J	364	ASP	CA-C-N	5.54	130.09	120.68
1	J	364	ASP	C-N-CA	5.54	130.09	120.68
1	L	320	LEU	CA-C-N	5.54	131.93	121.97
1	L	320	LEU	C-N-CA	5.54	131.93	121.97
1	L	394	ARG	NE-CZ-NH2	-5.54	114.22	119.20
1	M	61	GLY	O-C-N	5.54	127.56	122.19
1	P	248	LYS	CA-CB-CG	5.54	125.17	114.10
1	C	270	ASP	N-CA-C	5.53	122.59	110.80
1	D	413	ASP	CA-C-O	-5.53	114.55	121.02
1	E	171	ALA	N-CA-C	-5.53	105.88	113.30
1	F	85	GLN	CA-C-O	-5.53	113.13	119.60
1	G	226	LYS	N-CA-CB	-5.53	101.14	110.49
1	K	240	GLU	O-C-N	5.53	129.71	122.68
1	K	352	GLU	N-CA-CB	5.53	119.84	110.49
1	L	375	ASP	CB-CG-OD1	5.53	131.12	118.40
1	M	253	GLU	CB-CA-C	5.53	119.28	109.65
1	M	424	GLU	CG-CD-OE2	-5.53	105.67	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	313	GLN	N-CA-C	5.53	122.58	110.80
1	P	351	THR	CA-C-N	-5.53	110.22	121.18
1	P	351	THR	C-N-CA	-5.53	110.22	121.18
1	P	351	THR	N-CA-CB	5.53	119.66	110.14
1	C	148	GLU	N-CA-C	5.53	122.58	110.80
1	G	191	ASP	CB-CG-OD2	5.53	131.12	118.40
1	G	451	LEU	O-C-N	-5.53	115.23	122.59
1	M	166	ALA	CA-C-N	5.53	132.11	121.54
1	M	166	ALA	C-N-CA	5.53	132.11	121.54
1	M	467	VAL	N-CA-C	5.53	117.02	108.44
1	N	31	ILE	O-C-N	-5.53	115.65	122.57
1	P	416	GLU	CA-CB-CG	5.53	125.17	114.10
1	P	445	GLY	N-CA-C	5.53	119.19	111.00
1	A	7	VAL	O-C-N	5.53	131.85	123.00
1	C	117	PRO	O-C-N	-5.53	115.48	122.17
1	E	193	ILE	N-CA-C	5.53	114.57	106.55
1	G	177	ALA	CA-C-N	5.53	129.39	120.82
1	G	177	ALA	C-N-CA	5.53	129.39	120.82
1	G	348	ARG	NE-CZ-NH1	-5.53	115.97	121.50
1	M	50	ASP	CA-CB-CG	5.53	118.13	112.60
1	M	117	PRO	CA-N-CD	-5.53	104.26	112.00
1	M	339	HIS	CA-CB-CG	5.53	119.33	113.80
1	P	421	THR	CA-CB-CG2	5.53	119.90	110.50
1	A	178	VAL	N-CA-C	5.53	118.00	111.09
1	D	131	ALA	CA-C-N	5.53	127.69	120.28
1	D	131	ALA	C-N-CA	5.53	127.69	120.28
1	E	59	ASN	N-CA-C	-5.53	105.33	112.68
1	G	146	ASP	CB-CA-C	-5.53	100.41	109.53
1	H	324	ARG	N-CA-CB	5.53	119.49	110.37
1	I	178	VAL	O-C-N	5.53	128.05	121.80
1	K	292	MET	N-CA-C	5.53	117.11	111.14
1	L	469	PRO	O-C-N	-5.53	115.18	122.64
1	M	30	ILE	N-CA-CB	5.53	120.35	111.23
1	B	204	ASP	CA-C-N	5.53	131.05	122.26
1	B	204	ASP	C-N-CA	5.53	131.05	122.26
1	I	217	GLU	CA-C-O	-5.53	114.71	121.78
1	I	350	THR	CA-C-N	5.53	132.10	121.54
1	I	350	THR	C-N-CA	5.53	132.10	121.54
1	I	471	ARG	CB-CA-C	5.53	121.42	110.42
1	J	311	SER	CA-CB-OG	5.53	122.15	111.10
1	J	438	ARG	CD-NE-CZ	-5.53	116.66	124.40
1	N	446	ASN	CB-CA-C	-5.53	101.74	110.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	250	MET	CA-C-O	-5.53	112.80	119.27
1	B	242	THR	CA-C-O	-5.53	114.08	120.49
1	B	339	HIS	CE1-NE2-CD2	5.53	114.53	109.00
1	B	363	ASP	O-C-N	-5.53	115.75	122.22
1	C	125	GLN	CG-CD-NE2	-5.53	108.11	116.40
1	D	129	GLN	CB-CG-CD	5.53	121.99	112.60
1	F	473	LYS	CA-C-N	5.53	131.39	121.66
1	F	473	LYS	C-N-CA	5.53	131.39	121.66
1	G	324	ARG	NH1-CZ-NH2	5.53	126.48	119.30
1	J	25	ILE	O-C-N	-5.53	115.66	122.57
1	L	229	ASP	O-C-N	-5.53	115.89	122.63
1	P	479	SER	O-C-N	5.53	129.57	122.39
1	B	149	ILE	CA-CB-CG1	5.52	119.79	110.40
1	B	475	GLN	CA-C-O	5.52	126.39	120.70
1	E	302	ASN	N-CA-C	5.52	117.65	108.20
1	F	410	ALA	N-CA-C	-5.52	104.89	111.69
1	H	314	ASP	CB-CG-OD1	5.52	131.10	118.40
1	L	150	LEU	CA-C-O	-5.52	115.01	120.70
1	B	406	LEU	CB-CA-C	5.52	120.94	109.95
1	G	199	SER	CB-CA-C	5.52	117.39	109.71
1	G	369	VAL	CA-C-N	5.52	127.04	120.14
1	G	369	VAL	C-N-CA	5.52	127.04	120.14
1	H	178	VAL	N-CA-C	5.52	120.83	109.34
1	J	105	ARG	NH1-CZ-NH2	-5.52	112.12	119.30
1	L	264	CYS	CB-CA-C	5.52	119.28	109.72
1	M	281	ILE	CA-C-N	-5.52	113.62	121.85
1	M	281	ILE	C-N-CA	-5.52	113.62	121.85
1	O	190	LYS	N-CA-C	5.52	118.36	111.24
1	P	108	GLU	CA-C-N	-5.52	112.33	120.28
1	P	108	GLU	C-N-CA	-5.52	112.33	120.28
1	P	411	PHE	O-C-N	-5.52	115.56	122.35
1	B	313	GLN	CB-CG-CD	5.52	121.98	112.60
1	E	299	THR	N-CA-C	5.52	117.10	111.14
1	F	400	ILE	CA-CB-CG2	5.52	119.89	110.50
1	G	410	ALA	CB-CA-C	5.52	121.85	110.31
1	M	154	ALA	CA-C-O	5.52	126.40	120.55
1	A	477	ILE	N-CA-C	5.52	115.72	110.42
1	D	214	VAL	CB-CA-C	-5.52	102.24	111.29
1	G	77	MET	CA-C-O	-5.52	112.05	119.11
1	H	221	ALA	CA-C-O	-5.52	112.81	119.27
1	H	390	SER	CA-C-O	-5.52	114.56	121.02
1	I	325	LYS	CA-CB-CG	5.52	125.14	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	364	ASP	OD1-CG-OD2	-5.52	109.65	122.90
1	N	438	ARG	NE-CZ-NH2	5.52	124.17	119.20
1	G	313	GLN	CA-C-O	-5.52	112.62	120.51
1	N	122	LYS	CB-CG-CD	-5.52	98.61	111.30
1	C	411	PHE	N-CA-CB	5.52	119.68	110.41
1	A	83	LYS	N-CA-C	5.51	122.54	110.80
1	A	274	HIS	ND1-CE1-NE2	-5.51	102.89	108.40
1	A	281	ILE	CA-C-O	-5.51	114.23	120.74
1	E	60	ASP	CB-CG-OD1	5.51	131.08	118.40
1	I	35	VAL	CA-C-O	-5.51	114.51	120.47
1	I	431	ILE	O-C-N	-5.51	116.49	121.89
1	N	78	LEU	CB-CA-C	5.51	121.40	110.42
1	N	482	GLU	N-CA-CB	5.51	118.65	110.49
1	P	388	GLU	CG-CD-OE1	5.51	131.09	118.40
1	C	368	VAL	CA-C-N	5.51	129.34	121.02
1	C	368	VAL	C-N-CA	5.51	129.34	121.02
1	E	346	LEU	N-CA-CB	5.51	118.16	109.83
1	G	228	THR	CA-CB-OG1	-5.51	101.33	109.60
1	K	400	ILE	O-C-N	-5.51	115.68	122.57
1	F	131	ALA	O-C-N	5.51	127.96	122.12
1	F	431	ILE	CA-CB-CG2	5.51	119.87	110.50
1	G	125	GLN	O-C-N	5.51	129.40	122.23
1	J	281	ILE	O-C-N	5.51	129.66	122.94
1	L	119	ILE	N-CA-C	-5.51	97.88	109.34
1	O	246	MET	CB-CG-SD	5.51	129.24	112.70
1	B	358	VAL	N-CA-C	5.51	119.83	111.89
1	C	218	ARG	NH1-CZ-NH2	-5.51	112.14	119.30
1	C	461	MET	CA-C-O	-5.51	112.63	120.51
1	D	484	THR	CB-CA-C	5.51	120.73	109.55
1	F	21	GLN	O-C-N	5.51	127.96	122.12
1	F	457	ALA	CA-C-O	-5.51	112.63	120.51
1	I	9	PRO	O-C-N	-5.51	115.20	122.64
1	I	161	LYS	CB-CG-CD	5.51	123.97	111.30
1	I	316	GLY	N-CA-C	5.51	122.23	112.64
1	J	54	ASP	OD1-CG-OD2	-5.51	109.68	122.90
1	L	348	ARG	NE-CZ-NH2	-5.51	114.24	119.20
1	M	474	THR	O-C-N	5.51	127.75	122.07
1	N	14	ARG	NE-CZ-NH1	5.51	127.01	121.50
1	P	33	GLU	CG-CD-OE1	5.51	131.07	118.40
1	A	25	ILE	CA-C-N	5.51	127.98	120.54
1	A	25	ILE	C-N-CA	5.51	127.98	120.54
1	B	239	ILE	CB-CA-C	5.51	120.32	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	386	GLU	N-CA-CB	-5.51	101.98	110.13
1	E	432	GLU	N-CA-CB	5.51	117.97	109.98
1	G	450	GLY	O-C-N	-5.51	115.54	122.70
1	I	241	GLU	CA-C-N	-5.51	113.24	120.95
1	I	241	GLU	C-N-CA	-5.51	113.24	120.95
1	N	81	VAL	CB-CA-C	5.51	120.91	110.94
1	N	368	VAL	CA-C-N	5.51	129.76	120.29
1	N	368	VAL	C-N-CA	5.51	129.76	120.29
1	B	445	GLY	CA-C-N	5.51	127.93	120.44
1	B	445	GLY	C-N-CA	5.51	127.93	120.44
1	C	443	SER	O-C-N	5.51	128.86	122.09
1	E	472	VAL	O-C-N	-5.51	115.69	122.57
1	F	68	MET	CB-CG-SD	5.51	129.22	112.70
1	I	319	GLY	CA-C-O	-5.51	113.15	119.65
1	I	357	GLU	CB-CA-C	5.51	119.98	110.84
1	J	260	ASN	CB-CG-OD1	5.51	131.81	120.80
1	N	62	VAL	CA-C-O	-5.51	113.90	120.78
1	N	427	GLY	N-CA-C	-5.51	108.14	114.69
1	O	418	ILE	CA-C-O	5.51	127.33	119.95
1	A	76	LYS	O-C-N	5.50	129.63	122.42
1	C	54	ASP	CA-C-N	5.50	130.02	123.19
1	C	54	ASP	C-N-CA	5.50	130.02	123.19
1	F	271	LEU	CA-C-O	-5.50	112.83	119.49
1	F	423	ALA	CA-C-N	5.50	129.99	120.58
1	F	423	ALA	C-N-CA	5.50	129.99	120.58
1	N	389	LEU	CA-C-N	5.50	129.94	121.19
1	N	389	LEU	C-N-CA	5.50	129.94	121.19
1	B	364	ASP	N-CA-CB	5.50	118.72	110.19
1	E	65	LEU	CD1-CG-CD2	5.50	122.91	110.80
1	F	172	GLU	CA-CB-CG	-5.50	103.09	114.10
1	H	390	SER	N-CA-C	5.50	120.39	111.37
1	J	56	VAL	CA-C-N	5.50	129.94	122.90
1	J	56	VAL	C-N-CA	5.50	129.94	122.90
1	J	289	LYS	N-CA-CB	5.50	119.79	110.49
1	K	378	ILE	CA-CB-CG1	5.50	119.76	110.40
1	K	492	ASP	CA-CB-CG	5.50	118.10	112.60
1	M	359	ALA	O-C-N	5.50	129.70	122.33
1	M	491	ASP	N-CA-CB	5.50	118.73	110.53
1	O	386	GLU	CB-CG-CD	5.50	121.96	112.60
1	A	306	ASN	CA-C-N	5.50	131.87	121.97
1	A	306	ASN	C-N-CA	5.50	131.87	121.97
1	G	144	ALA	CA-C-N	-5.50	113.82	122.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	144	ALA	C-N-CA	-5.50	113.82	122.95
1	H	21	GLN	CA-C-N	5.50	127.92	120.44
1	H	21	GLN	C-N-CA	5.50	127.92	120.44
1	H	377	ARG	N-CA-CB	5.50	119.79	110.49
1	I	171	ALA	CA-C-O	5.50	125.19	119.14
1	I	197	LYS	CB-CA-C	-5.50	99.48	109.38
1	K	152	LYS	CB-CA-C	5.50	121.32	111.03
1	K	189	ASP	N-CA-C	-5.50	98.23	108.02
1	O	438	ARG	CA-CB-CG	5.50	125.10	114.10
1	C	304	ILE	O-C-N	-5.50	115.69	122.57
1	G	255	LYS	CG-CD-CE	5.50	123.95	111.30
1	K	322	GLU	CG-CD-OE1	5.50	131.05	118.40
1	P	78	LEU	CA-C-N	5.50	127.49	120.56
1	P	78	LEU	C-N-CA	5.50	127.49	120.56
1	A	387	VAL	O-C-N	5.50	127.45	121.90
1	C	187	LYS	CB-CA-C	5.50	121.36	110.42
1	F	307	ILE	CB-CA-C	-5.50	104.94	111.81
1	A	71	GLU	N-CA-C	5.50	122.51	110.80
1	C	245	GLU	OE1-CD-OE2	-5.50	109.71	122.90
1	C	249	ASP	CA-CB-CG	5.50	118.10	112.60
1	J	194	LYS	CB-CA-C	5.50	120.95	109.68
1	J	384	SER	O-C-N	-5.50	115.28	122.59
1	L	257	SER	N-CA-CB	5.50	119.78	110.49
1	N	30	ILE	CA-CB-CG1	-5.50	101.06	110.40
1	J	199	SER	N-CA-C	5.50	118.77	109.76
1	K	14	ARG	N-CA-CB	5.50	119.39	110.43
1	N	375	ASP	CA-CB-CG	5.50	118.09	112.60
1	O	413	ASP	OD1-CG-OD2	-5.50	109.71	122.90
1	P	319	GLY	O-C-N	-5.50	115.79	122.71
1	C	390	SER	CB-CA-C	-5.49	102.50	110.96
1	C	419	PRO	N-CA-C	5.49	123.79	112.47
1	D	494	ILE	N-CA-CB	5.49	118.78	111.64
1	E	490	ILE	CB-CA-C	5.49	120.30	111.29
1	F	208	LEU	CA-C-O	-5.49	111.26	121.09
1	M	169	LYS	N-CA-C	-5.49	105.70	112.90
1	M	215	ASP	CA-C-N	5.49	131.56	122.33
1	M	215	ASP	C-N-CA	5.49	131.56	122.33
1	D	115	VAL	N-CA-CB	5.49	120.29	111.23
1	G	300	GLY	CA-C-N	5.49	131.98	122.64
1	G	300	GLY	C-N-CA	5.49	131.98	122.64
1	J	71	GLU	O-C-N	-5.49	115.28	122.59
1	M	58	THR	CA-CB-OG1	-5.49	101.36	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	31	ILE	O-C-N	5.49	129.43	122.57
1	G	320	LEU	N-CA-CB	-5.49	101.58	110.81
1	H	142	VAL	CA-CB-CG1	5.49	119.73	110.40
1	H	423	ALA	CA-C-O	-5.49	115.24	120.90
1	I	76	LYS	CG-CD-CE	-5.49	98.67	111.30
1	I	351	THR	CB-CA-C	5.49	121.34	110.42
1	I	437	VAL	CA-C-N	5.49	127.90	120.65
1	I	437	VAL	C-N-CA	5.49	127.90	120.65
1	J	375	ASP	OD1-CG-OD2	-5.49	109.72	122.90
1	M	202	SER	N-CA-C	5.49	122.50	110.80
1	M	419	PRO	CA-N-CD	-5.49	104.31	112.00
1	A	111	LEU	O-C-N	5.49	129.89	122.59
1	A	330	SER	O-C-N	-5.49	116.27	123.02
1	B	242	THR	N-CA-C	5.49	117.65	109.25
1	E	216	LYS	N-CA-CB	5.49	119.58	110.52
1	F	79	ILE	O-C-N	-5.49	116.18	121.83
1	F	275	TYR	CG-CD2-CE2	-5.49	112.97	121.20
1	F	286	ARG	NE-CZ-NH1	-5.49	116.01	121.50
1	H	34	THR	CB-CA-C	-5.49	99.50	110.42
1	I	24	ASN	CA-CB-CG	-5.49	107.11	112.60
1	K	395	GLU	N-CA-C	-5.49	106.63	113.38
1	K	493	VAL	CG1-CB-CG2	5.49	122.88	110.80
1	L	106	LYS	N-CA-C	5.49	119.08	112.38
1	L	360	ARG	CG-CD-NE	5.49	124.08	112.00
1	M	38	THR	CA-C-N	5.49	129.14	121.24
1	M	38	THR	C-N-CA	5.49	129.14	121.24
1	M	138	ILE	N-CA-C	5.49	119.11	112.80
1	P	13	LYS	CB-CG-CD	5.49	123.92	111.30
1	P	452	ASN	CA-CB-CG	-5.49	107.11	112.60
1	C	42	LYS	CB-CA-C	5.49	121.34	110.42
1	F	487	LEU	O-C-N	-5.49	114.27	122.39
1	I	203	ILE	N-CA-C	5.49	120.75	109.34
1	I	231	LYS	CA-CB-CG	5.49	125.07	114.10
1	N	149	ILE	CA-C-O	-5.49	112.63	119.43
1	O	329	ASP	CA-C-O	-5.49	113.45	120.14
1	B	400	ILE	CA-CB-CG2	5.49	119.83	110.50
1	B	462	CYS	N-CA-CB	5.49	118.72	109.78
1	C	243	ALA	O-C-N	-5.49	115.30	122.59
1	C	324	ARG	N-CA-CB	-5.49	101.64	110.69
1	C	403	ARG	N-CA-C	5.49	122.48	110.80
1	C	410	ALA	N-CA-C	5.49	118.18	111.82
1	D	43	GLY	O-C-N	-5.49	118.54	123.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	149	ILE	CB-CG1-CD1	-5.49	102.28	113.80
1	F	204	ASP	CB-CA-C	5.49	121.33	110.42
1	G	141	GLU	O-C-N	5.49	129.48	123.01
1	H	350	THR	CA-C-O	-5.49	113.31	120.00
1	I	464	ASN	CB-CG-OD1	5.49	131.77	120.80
1	M	85	GLN	CA-C-O	5.49	125.17	119.14
1	P	348	ARG	O-C-N	-5.49	116.76	122.96
1	C	379	VAL	CA-C-O	-5.48	114.06	120.75
1	J	258	GLY	CA-C-O	-5.48	111.03	120.57
1	L	256	ALA	CA-C-N	5.48	132.01	121.54
1	L	256	ALA	C-N-CA	5.48	132.01	121.54
1	O	465	GLY	O-C-N	-5.48	115.57	122.70
1	G	132	GLN	N-CA-CB	5.48	118.11	109.94
1	G	302	ASN	CA-C-O	-5.48	114.71	120.58
1	I	168	GLU	O-C-N	5.48	129.01	122.27
1	K	473	LYS	CA-C-O	-5.48	112.64	119.38
1	L	295	LEU	N-CA-CB	5.48	118.24	110.13
1	M	39	LEU	N-CA-C	5.48	117.65	109.59
1	N	241	GLU	CG-CD-OE2	5.48	131.01	118.40
1	O	362	VAL	CA-C-N	5.48	129.91	121.19
1	O	362	VAL	C-N-CA	5.48	129.91	121.19
1	A	12	MET	N-CA-CB	-5.48	101.49	110.42
1	A	409	ARG	NE-CZ-NH1	5.48	126.98	121.50
1	C	137	THR	CA-CB-OG1	5.48	117.82	109.60
1	C	331	MET	N-CA-CB	5.48	121.34	111.37
1	E	114	ASN	N-CA-CB	5.48	120.42	114.17
1	G	365	ALA	N-CA-CB	5.48	118.71	109.78
1	G	375	ASP	CA-C-O	-5.48	114.78	120.70
1	I	23	MET	CB-CG-SD	5.48	129.14	112.70
1	M	81	VAL	CB-CA-C	5.48	116.85	110.88
1	P	246	MET	CA-C-N	5.48	128.17	120.28
1	P	246	MET	C-N-CA	5.48	128.17	120.28
1	B	291	ASP	CA-C-N	5.48	128.08	120.63
1	B	291	ASP	C-N-CA	5.48	128.08	120.63
1	D	88	GLU	N-CA-C	5.48	122.47	110.80
1	H	152	LYS	CA-CB-CG	5.48	125.06	114.10
1	I	184	ASP	N-CA-C	5.48	118.89	111.17
1	N	21	GLN	CB-CA-C	5.48	121.32	110.42
1	A	49	VAL	CG1-CB-CG2	5.48	122.85	110.80
1	D	196	GLU	N-CA-C	5.48	117.23	108.41
1	E	217	GLU	O-C-N	-5.48	116.26	123.16
1	F	288	LYS	CA-C-O	-5.48	115.16	121.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	313	GLN	CG-CD-OE1	5.48	131.75	120.80
1	H	333	PHE	O-C-N	-5.48	116.81	122.94
1	K	488	LEU	CA-C-N	5.48	132.00	121.54
1	K	488	LEU	C-N-CA	5.48	132.00	121.54
1	L	9	PRO	CA-CB-CG	5.48	114.91	104.50
1	L	38	THR	CA-CB-CG2	5.48	119.81	110.50
1	N	403	ARG	N-CA-CB	5.48	119.33	110.40
1	A	410	ALA	N-CA-CB	-5.48	101.01	110.32
1	E	312	ALA	N-CA-CB	5.48	118.43	110.65
1	F	229	ASP	OD1-CG-OD2	-5.48	109.76	122.90
1	J	316	GLY	O-C-N	-5.48	115.61	122.84
1	M	432	GLU	N-CA-CB	5.48	118.01	110.07
1	N	495	ALA	N-CA-C	5.48	118.19	110.14
1	C	14	ARG	N-CA-C	5.47	118.01	108.76
1	C	112	ASP	CA-C-O	-5.47	112.81	119.43
1	D	486	MET	CA-C-O	-5.47	112.68	120.51
1	E	44	MET	CA-C-N	5.47	132.17	121.66
1	E	44	MET	C-N-CA	5.47	132.17	121.66
1	H	32	ALA	O-C-N	-5.47	115.76	122.11
1	H	274	HIS	ND1-CE1-NE2	5.47	113.88	108.40
1	J	189	ASP	O-C-N	-5.47	116.11	123.23
1	J	287	VAL	O-C-N	-5.47	115.73	122.57
1	J	474	THR	CA-C-N	5.47	127.56	120.44
1	J	474	THR	C-N-CA	5.47	127.56	120.44
1	N	199	SER	O-C-N	-5.47	116.83	123.29
1	N	241	GLU	OE1-CD-OE2	-5.47	109.76	122.90
1	O	197	LYS	CA-C-O	-5.47	114.44	120.30
1	A	254	ILE	N-CA-C	5.47	117.89	111.05
1	A	401	SER	N-CA-CB	5.47	119.74	110.49
1	A	464	ASN	CA-C-N	-5.47	113.60	122.30
1	A	464	ASN	C-N-CA	-5.47	113.60	122.30
1	D	341	LYS	O-C-N	-5.47	115.31	122.59
1	D	497	GLU	CB-CA-C	-5.47	99.70	110.10
1	F	340	PRO	N-CA-C	5.47	123.74	112.47
1	H	78	LEU	CA-C-N	5.47	131.82	121.97
1	H	78	LEU	C-N-CA	5.47	131.82	121.97
1	J	89	VAL	O-C-N	-5.47	117.77	121.98
1	J	103	LEU	O-C-N	5.47	130.49	122.39
1	K	194	LYS	CA-C-O	5.47	128.23	121.99
1	L	464	ASN	CA-C-N	-5.47	114.91	122.63
1	L	464	ASN	C-N-CA	-5.47	114.91	122.63
1	N	13	LYS	N-CA-CB	-5.47	101.51	110.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	186	GLY	CA-C-O	-5.47	111.05	120.57
1	O	430	ALA	O-C-N	5.47	127.94	122.08
1	O	478	GLN	CB-CG-CD	5.47	121.90	112.60
1	I	168	GLU	CA-C-O	-5.47	113.68	119.97
1	K	390	SER	CB-CA-C	-5.47	101.76	110.84
1	N	403	ARG	CA-C-N	5.47	129.86	120.72
1	N	403	ARG	C-N-CA	5.47	129.86	120.72
1	N	469	PRO	CB-CA-C	-5.47	102.53	111.56
1	O	274	HIS	N-CA-C	5.47	119.05	112.38
1	F	387	VAL	N-CA-C	5.47	116.20	110.62
1	G	76	LYS	O-C-N	-5.47	115.25	122.42
1	G	108	GLU	CB-CG-CD	5.47	121.90	112.60
1	P	67	GLU	CB-CG-CD	-5.47	103.30	112.60
1	A	343	VAL	CB-CA-C	5.47	118.94	110.96
1	E	424	GLU	CA-C-O	-5.47	114.62	120.42
1	G	22	ARG	NE-CZ-NH2	-5.47	114.28	119.20
1	I	105	ARG	CA-C-O	-5.47	114.72	120.63
1	I	199	SER	N-CA-C	5.47	118.84	110.20
1	K	295	LEU	CA-C-O	-5.47	114.80	120.92
1	A	30	ILE	CA-CB-CG1	5.47	119.69	110.40
1	A	247	LEU	CB-CA-C	5.47	119.22	110.09
1	B	399	GLY	CA-C-O	-5.47	111.06	120.57
1	B	405	GLN	CB-CA-C	-5.47	102.23	110.92
1	H	332	ILE	CA-CB-CG1	-5.47	101.11	110.40
1	K	116	HIS	CB-CG-ND1	-5.47	114.50	122.70
1	O	452	ASN	CB-CG-OD1	-5.47	109.87	120.80
1	P	475	GLN	N-CA-C	-5.47	104.73	111.40
1	A	425	ASN	CB-CA-C	5.46	120.74	110.63
1	B	45	ASP	OD1-CG-OD2	5.46	136.02	122.90
1	B	223	MET	N-CA-CB	5.46	120.10	110.37
1	B	278	LYS	O-C-N	-5.46	115.32	122.59
1	B	394	ARG	NH1-CZ-NH2	-5.46	112.20	119.30
1	B	467	VAL	N-CA-CB	-5.46	105.55	112.60
1	C	246	MET	CA-C-N	5.46	127.87	120.44
1	C	246	MET	C-N-CA	5.46	127.87	120.44
1	D	64	ILE	O-C-N	-5.46	116.56	121.91
1	D	153	ILE	N-CA-CB	5.46	121.28	110.95
1	D	259	ALA	O-C-N	5.46	129.62	122.68
1	E	296	ALA	N-CA-CB	5.46	118.15	110.12
1	F	204	ASP	CA-C-N	5.46	131.98	121.54
1	F	204	ASP	C-N-CA	5.46	131.98	121.54
1	F	290	SER	CA-C-O	-5.46	115.26	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	352	GLU	CG-CD-OE2	5.46	130.97	118.40
1	K	360	ARG	CD-NE-CZ	5.46	132.05	124.40
1	M	290	SER	CA-C-N	5.46	131.98	121.54
1	M	290	SER	C-N-CA	5.46	131.98	121.54
1	M	336	GLU	CB-CG-CD	5.46	121.89	112.60
1	N	29	ARG	NE-CZ-NH1	-5.46	116.04	121.50
1	O	69	SER	CA-C-N	5.46	131.81	121.97
1	O	69	SER	C-N-CA	5.46	131.81	121.97
1	A	493	VAL	CA-C-O	5.46	127.61	120.78
1	F	215	ASP	CB-CG-OD1	5.46	130.97	118.40
1	H	177	ALA	N-CA-C	5.46	119.66	112.89
1	M	396	TYR	CA-CB-CG	-5.46	104.07	113.90
1	N	273	GLN	N-CA-C	5.46	117.94	111.33
1	A	338	LYS	CA-C-N	5.46	135.12	121.80
1	A	338	LYS	C-N-CA	5.46	135.12	121.80
1	D	23	MET	CB-CA-C	-5.46	98.89	110.31
1	E	12	MET	N-CA-C	5.46	122.43	110.80
1	E	146	ASP	CA-CB-CG	-5.46	107.14	112.60
1	E	170	LEU	CA-C-O	-5.46	111.95	119.05
1	F	97	VAL	O-C-N	-5.46	115.74	122.57
1	F	315	LEU	N-CA-C	5.46	118.17	109.81
1	G	93	THR	O-C-N	5.46	129.85	122.59
1	H	34	THR	N-CA-C	-5.46	99.17	110.80
1	I	273	GLN	CA-C-N	5.46	127.54	120.44
1	I	273	GLN	C-N-CA	5.46	127.54	120.44
1	I	315	LEU	N-CA-C	5.46	122.43	110.80
1	K	139	ALA	CA-C-N	5.46	131.00	122.26
1	K	139	ALA	C-N-CA	5.46	131.00	122.26
1	N	121	VAL	CA-CB-CG1	-5.46	101.12	110.40
1	C	40	GLY	O-C-N	5.46	127.23	121.77
1	G	454	PHE	CG-CD2-CE2	-5.46	111.42	120.70
1	A	256	ALA	CB-CA-C	5.46	120.69	110.70
1	C	346	LEU	N-CA-CB	5.46	117.99	109.97
1	E	94	THR	CB-CA-C	5.46	121.28	110.42
1	F	12	MET	CA-C-O	-5.46	115.24	120.92
1	H	49	VAL	CB-CA-C	-5.46	101.35	111.18
1	M	244	SER	CA-C-N	5.46	131.97	121.54
1	M	244	SER	C-N-CA	5.46	131.97	121.54
1	M	485	GLU	OE1-CD-OE2	-5.46	109.80	122.90
1	N	281	ILE	CA-CB-CG2	5.46	119.78	110.50
1	N	392	LYS	CA-C-N	5.46	131.27	121.66
1	N	392	LYS	C-N-CA	5.46	131.27	121.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	173	ILE	CA-C-N	5.46	127.94	120.46
1	O	173	ILE	C-N-CA	5.46	127.94	120.46
1	B	309	ASP	CB-CG-OD2	-5.46	105.85	118.40
1	C	464	ASN	CA-C-O	-5.46	113.13	118.97
1	H	194	LYS	CA-C-O	-5.46	115.61	121.56
1	L	94	THR	CA-C-O	-5.46	112.71	120.51
1	L	237	CYS	CA-C-O	-5.46	115.61	121.56
1	O	348	ARG	CD-NE-CZ	-5.46	116.76	124.40
1	P	307	ILE	CB-CG1-CD1	5.46	125.26	113.80
1	A	243	ALA	N-CA-CB	5.46	119.71	110.49
1	A	269	ASP	CA-C-O	-5.46	115.67	121.94
1	M	459	GLU	N-CA-CB	-5.46	103.10	111.56
1	N	209	ILE	CB-CA-C	-5.46	105.40	111.35
1	N	472	VAL	CA-C-N	5.46	128.60	120.31
1	N	472	VAL	C-N-CA	5.46	128.60	120.31
1	D	400	ILE	CA-C-O	-5.45	113.96	120.78
1	D	429	ASP	N-CA-C	-5.45	101.83	109.96
1	E	194	LYS	O-C-N	-5.45	116.63	122.85
1	E	431	ILE	N-CA-CB	5.45	119.97	110.65
1	F	31	ILE	CA-CB-CG2	-5.45	101.23	110.50
1	F	242	THR	CB-CA-C	5.45	119.88	110.77
1	F	490	ILE	CA-C-O	-5.45	113.96	120.78
1	I	211	GLY	CA-C-N	5.45	130.72	122.98
1	I	211	GLY	C-N-CA	5.45	130.72	122.98
1	J	297	LYS	N-CA-C	5.45	118.40	111.69
1	K	206	THR	CB-CA-C	5.45	118.01	110.16
1	L	338	LYS	CA-CB-CG	5.45	125.01	114.10
1	A	118	THR	O-C-N	5.45	129.84	122.59
1	E	328	GLY	O-C-N	-5.45	115.61	122.70
1	I	239	ILE	CA-C-N	5.45	130.60	122.86
1	I	239	ILE	C-N-CA	5.45	130.60	122.86
1	L	69	SER	CA-CB-OG	5.45	122.00	111.10
1	O	113	GLN	N-CA-CB	5.45	120.24	110.32
1	A	249	ASP	N-CA-CB	5.45	119.93	110.39
1	B	37	SER	N-CA-C	5.45	122.41	110.80
1	B	222	GLN	CG-CD-OE1	5.45	131.70	120.80
1	B	364	ASP	CA-CB-CG	5.45	118.05	112.60
1	C	12	MET	N-CA-CB	-5.45	101.28	110.49
1	C	348	ARG	CD-NE-CZ	-5.45	116.77	124.40
1	F	342	ALA	N-CA-CB	5.45	119.31	110.32
1	G	358	VAL	N-CA-C	5.45	119.74	111.89
1	G	378	ILE	N-CA-C	5.45	117.56	109.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	338	LYS	N-CA-CB	5.45	117.91	110.01
1	N	263	PHE	CB-CA-C	5.45	119.21	110.16
1	O	286	ARG	N-CA-C	5.45	122.41	110.80
1	P	148	GLU	CA-C-N	-5.45	111.59	120.64
1	P	148	GLU	C-N-CA	-5.45	111.59	120.64
1	A	65	LEU	CA-C-N	5.45	131.95	121.54
1	A	65	LEU	C-N-CA	5.45	131.95	121.54
1	E	256	ALA	O-C-N	5.45	129.84	122.59
1	F	408	VAL	CA-C-O	-5.45	112.67	119.43
1	H	105	ARG	CB-CA-C	-5.45	102.29	110.90
1	I	115	VAL	CB-CA-C	5.45	117.58	111.80
1	I	210	LYS	CG-CD-CE	5.45	123.83	111.30
1	J	394	ARG	CA-C-N	5.45	131.94	121.54
1	J	394	ARG	C-N-CA	5.45	131.94	121.54
1	N	147	LYS	CA-C-N	5.45	127.89	120.54
1	N	147	LYS	C-N-CA	5.45	127.89	120.54
1	N	333	PHE	CG-CD1-CE1	5.45	129.96	120.70
1	B	409	ARG	NH1-CZ-NH2	-5.45	112.22	119.30
1	D	433	ILE	N-CA-C	5.45	116.18	110.62
1	K	68	MET	CB-CG-SD	5.45	129.04	112.70
1	N	46	LYS	O-C-N	-5.45	117.27	123.48
1	O	155	MET	N-CA-CB	5.45	118.10	109.82
1	P	18	ARG	CG-CD-NE	-5.45	100.02	112.00
1	A	454	PHE	CB-CG-CD2	-5.45	111.44	120.70
1	C	254	ILE	CA-CB-CG2	5.45	119.76	110.50
1	G	153	ILE	CA-CB-CG1	-5.45	101.14	110.40
1	H	49	VAL	CA-C-O	-5.45	115.58	121.19
1	J	448	CYS	N-CA-CB	5.45	124.87	111.74
1	K	223	MET	CB-CA-C	-5.45	101.08	109.85
1	L	388	GLU	CB-CG-CD	5.45	121.86	112.60
1	A	60	ASP	CB-CA-C	5.44	121.25	110.42
1	A	388	GLU	CG-CD-OE1	5.44	130.92	118.40
1	C	116	HIS	CA-C-N	-5.44	113.16	119.47
1	C	116	HIS	C-N-CA	-5.44	113.16	119.47
1	D	416	GLU	CA-C-O	-5.44	113.23	119.60
1	G	167	LYS	CG-CD-CE	5.44	123.82	111.30
1	J	302	ASN	CA-C-O	-5.44	114.33	120.32
1	L	282	VAL	CA-CB-CG1	5.44	119.66	110.40
1	L	348	ARG	NE-CZ-NH1	-5.44	116.06	121.50
1	A	352	GLU	CB-CA-C	5.44	121.25	110.42
1	G	281	ILE	N-CA-CB	5.44	117.58	111.21
1	H	153	ILE	CA-CB-CG1	5.44	119.65	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	80	GLU	CG-CD-OE2	5.44	130.92	118.40
1	J	132	GLN	CB-CA-C	-5.44	99.28	110.38
1	K	105	ARG	O-C-N	-5.44	115.35	122.59
1	K	145	GLN	O-C-N	-5.44	114.48	121.83
1	K	195	ILE	N-CA-CB	-5.44	102.25	111.23
1	K	196	GLU	N-CA-C	5.44	118.41	109.76
1	K	239	ILE	CA-CB-CG1	5.44	119.65	110.40
1	L	25	ILE	N-CA-C	-5.44	104.57	110.23
1	M	337	CYS	CA-CB-SG	-5.44	101.88	114.40
1	N	446	ASN	CA-C-O	-5.44	115.09	120.80
1	O	124	TYR	CA-CB-CG	-5.44	104.10	113.90
1	B	35	VAL	O-C-N	-5.44	116.34	122.05
1	F	163	ALA	N-CA-C	-5.44	104.90	112.03
1	F	246	MET	O-C-N	-5.44	113.71	122.41
1	J	124	TYR	CB-CG-CD1	5.44	128.96	120.80
1	J	270	ASP	CB-CA-C	-5.44	101.15	110.24
1	K	355	ILE	CB-CA-C	5.44	120.21	111.29
1	M	126	ALA	N-CA-C	5.44	119.76	113.18
1	M	198	LYS	CB-CA-C	5.44	119.55	109.70
1	A	318	ALA	N-CA-CB	5.44	119.11	110.84
1	A	379	VAL	CA-CB-CG1	-5.44	101.15	110.40
1	B	388	GLU	O-C-N	5.44	127.96	122.09
1	D	11	ASN	N-CA-C	5.44	122.38	110.80
1	G	352	GLU	N-CA-CB	5.44	118.65	109.78
1	O	36	ARG	CG-CD-NE	-5.44	100.03	112.00
1	B	308	LYS	CA-C-N	5.44	128.11	120.28
1	B	308	LYS	C-N-CA	5.44	128.11	120.28
1	D	412	ALA	CA-C-O	5.44	126.63	120.00
1	E	334	VAL	CA-C-N	5.44	132.96	122.03
1	E	334	VAL	C-N-CA	5.44	132.96	122.03
1	F	271	LEU	N-CA-C	5.44	119.01	112.38
1	F	384	SER	O-C-N	-5.44	115.73	122.25
1	G	223	MET	N-CA-CB	5.44	118.05	110.11
1	I	438	ARG	CA-C-O	-5.44	115.29	121.00
1	M	288	LYS	O-C-N	-5.44	116.12	122.81
1	N	82	ALA	CA-C-O	5.44	125.03	119.05
1	N	228	THR	CB-CA-C	5.44	121.24	110.42
1	O	459	GLU	CA-C-N	5.44	131.31	122.07
1	O	459	GLU	C-N-CA	5.44	131.31	122.07
1	B	219	VAL	CB-CA-C	5.44	120.21	111.29
1	B	222	GLN	CA-C-N	5.44	135.06	121.80
1	B	222	GLN	C-N-CA	5.44	135.06	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	36	ARG	O-C-N	-5.44	114.96	122.30
1	F	403	ARG	CB-CA-C	5.44	121.35	109.99
1	G	285	ARG	CG-CD-NE	5.44	123.96	112.00
1	I	103	LEU	O-C-N	5.44	129.82	122.59
1	I	109	GLU	N-CA-C	5.44	117.91	111.33
1	J	307	ILE	N-CA-C	5.44	120.65	109.34
1	K	379	VAL	CA-C-O	-5.44	116.25	121.63
1	M	289	LYS	CA-C-O	-5.44	111.98	119.05
1	N	36	ARG	NH1-CZ-NH2	5.44	126.37	119.30
1	P	148	GLU	CG-CD-OE2	5.44	130.90	118.40
1	P	375	ASP	O-C-N	-5.44	116.64	123.27
1	H	8	LEU	CA-C-N	5.43	125.38	119.78
1	H	8	LEU	C-N-CA	5.43	125.38	119.78
1	I	245	GLU	OE1-CD-OE2	-5.43	109.86	122.90
1	K	165	LYS	O-C-N	5.43	129.91	122.46
1	L	100	ALA	CA-C-N	-5.43	110.76	121.41
1	L	100	ALA	C-N-CA	-5.43	110.76	121.41
1	L	137	THR	N-CA-CB	5.43	118.61	110.19
1	L	173	ILE	CA-C-O	5.43	126.17	119.43
1	N	300	GLY	CA-C-N	5.43	131.92	121.54
1	N	300	GLY	C-N-CA	5.43	131.92	121.54
1	P	158	ILE	O-C-N	5.43	129.36	122.57
1	C	240	GLU	O-C-N	5.43	129.90	122.29
1	C	264	CYS	N-CA-C	5.43	117.56	109.25
1	C	407	ALA	O-C-N	5.43	128.34	122.15
1	D	392	LYS	O-C-N	5.43	130.07	122.36
1	E	274	HIS	CB-CG-CD2	5.43	138.26	131.20
1	H	255	LYS	N-CA-C	5.43	119.97	113.23
1	I	42	LYS	N-CA-C	5.43	119.60	112.92
1	L	175	VAL	CA-C-N	-5.43	110.98	121.58
1	L	175	VAL	C-N-CA	-5.43	110.98	121.58
1	N	267	GLY	N-CA-C	5.43	126.06	113.18
1	O	279	GLU	CA-C-O	-5.43	112.92	118.90
1	C	8	LEU	CB-CG-CD2	5.43	126.99	110.70
1	I	408	VAL	CA-CB-CG2	5.43	119.63	110.40
1	O	207	GLU	N-CA-C	5.43	118.12	110.14
1	A	25	ILE	CB-CA-C	-5.43	104.93	111.88
1	A	238	ALA	CB-CA-C	-5.43	99.61	110.42
1	C	109	GLU	O-C-N	-5.43	115.37	122.59
1	H	39	LEU	N-CA-CB	5.43	117.95	109.97
1	I	7	VAL	CG1-CB-CG2	5.43	122.75	110.80
1	L	307	ILE	CA-C-N	5.43	129.29	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	307	ILE	C-N-CA	5.43	129.29	120.60
1	L	395	GLU	O-C-N	5.43	129.39	122.39
1	M	172	GLU	CA-CB-CG	-5.43	103.24	114.10
1	N	308	LYS	N-CA-C	5.43	122.37	110.80
1	O	167	LYS	CA-C-N	-5.43	113.38	120.44
1	O	167	LYS	C-N-CA	-5.43	113.38	120.44
1	P	420	ARG	NE-CZ-NH2	5.43	124.09	119.20
1	A	353	HIS	CA-C-N	5.43	128.18	120.53
1	A	353	HIS	C-N-CA	5.43	128.18	120.53
1	A	454	PHE	CG-CD1-CE1	5.43	129.93	120.70
1	B	410	ALA	O-C-N	-5.43	116.37	122.12
1	B	446	ASN	CA-C-O	-5.43	115.11	120.70
1	E	172	GLU	CB-CA-C	5.43	119.17	109.29
1	P	315	LEU	CB-CA-C	5.43	119.15	109.65
1	P	455	THR	CA-CB-OG1	5.43	117.74	109.60
1	B	484	THR	N-CA-CB	5.43	119.53	110.41
1	D	274	HIS	CB-CG-ND1	-5.43	114.56	122.70
1	E	130	LYS	O-C-N	-5.43	115.60	122.27
1	E	410	ALA	N-CA-C	5.43	122.36	110.80
1	E	485	GLU	O-C-N	-5.43	115.62	122.19
1	G	274	HIS	CE1-NE2-CD2	5.43	114.43	109.00
1	I	439	ALA	CA-C-N	5.43	129.91	120.68
1	I	439	ALA	C-N-CA	5.43	129.91	120.68
1	J	474	THR	CA-CB-OG1	5.43	117.74	109.60
1	K	304	ILE	CA-CB-CG2	5.43	119.72	110.50
1	L	479	SER	N-CA-C	5.43	122.36	110.80
1	N	139	ALA	CA-C-N	-5.43	114.52	122.06
1	N	139	ALA	C-N-CA	-5.43	114.52	122.06
1	O	411	PHE	CA-C-N	5.43	133.52	121.80
1	O	411	PHE	C-N-CA	5.43	133.52	121.80
1	A	459	GLU	N-CA-C	5.42	118.07	109.50
1	B	421	THR	CA-CB-CG2	5.42	119.72	110.50
1	C	305	THR	CA-CB-OG1	5.42	117.74	109.60
1	C	313	GLN	CG-CD-OE1	-5.42	109.95	120.80
1	C	489	ARG	N-CA-C	5.42	122.35	110.80
1	D	97	VAL	O-C-N	-5.42	115.79	122.57
1	D	234	LEU	CA-C-O	5.42	126.10	120.40
1	D	421	THR	O-C-N	-5.42	115.38	122.59
1	D	479	SER	CB-CA-C	5.42	121.21	110.42
1	F	371	CYS	CB-CA-C	5.42	120.56	109.55
1	G	307	ILE	CG1-CB-CG2	5.42	126.98	110.70
1	L	245	GLU	CA-C-N	5.42	131.90	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	245	GLU	C-N-CA	5.42	131.90	121.54
1	N	58	THR	N-CA-C	5.42	118.29	108.69
1	N	253	GLU	CB-CG-CD	-5.42	103.38	112.60
1	D	135	LEU	CA-C-O	5.42	126.49	120.63
1	F	192	LEU	CA-C-O	-5.42	112.93	119.49
1	K	62	VAL	CA-CB-CG2	-5.42	101.18	110.40
1	N	325	LYS	CA-C-N	-5.42	114.90	122.71
1	N	325	LYS	C-N-CA	-5.42	114.90	122.71
1	N	442	ALA	CB-CA-C	-5.42	99.31	109.72
1	C	125	GLN	N-CA-CB	-5.42	102.14	110.16
1	D	320	LEU	CD1-CG-CD2	5.42	122.73	110.80
1	D	393	LEU	CA-C-N	5.42	129.66	120.88
1	D	393	LEU	C-N-CA	5.42	129.66	120.88
1	E	12	MET	CG-SD-CE	5.42	112.83	100.90
1	E	137	THR	N-CA-C	5.42	119.89	113.28
1	E	275	TYR	CA-C-O	-5.42	115.31	121.00
1	G	411	PHE	CB-CA-C	5.42	120.13	109.72
1	H	63	THR	CA-C-N	5.42	129.62	120.29
1	H	63	THR	C-N-CA	5.42	129.62	120.29
1	N	9	PRO	CA-C-O	5.42	128.73	121.95
1	N	285	ARG	CA-C-O	-5.42	114.43	120.66
1	O	120	VAL	N-CA-C	5.42	120.61	109.34
1	E	73	PRO	CA-C-N	5.42	127.54	120.28
1	E	73	PRO	C-N-CA	5.42	127.54	120.28
1	L	24	ASN	OD1-CG-ND2	5.42	128.02	122.60
1	N	55	VAL	CA-CB-CG1	5.42	119.61	110.40
1	O	91	ASP	CA-C-N	5.42	129.69	120.91
1	O	91	ASP	C-N-CA	5.42	129.69	120.91
1	O	217	GLU	CB-CG-CD	-5.42	103.39	112.60
1	A	403	ARG	NE-CZ-NH1	-5.42	116.08	121.50
1	D	476	ALA	CA-C-N	5.42	131.72	121.97
1	D	476	ALA	C-N-CA	5.42	131.72	121.97
1	H	124	TYR	N-CA-C	5.42	122.34	110.80
1	K	325	LYS	O-C-N	-5.42	115.65	123.07
1	L	227	VAL	CA-C-N	-5.42	111.19	121.54
1	L	227	VAL	C-N-CA	-5.42	111.19	121.54
1	O	244	SER	CB-CA-C	5.42	121.20	110.42
1	O	257	SER	N-CA-C	5.42	122.34	110.80
1	O	453	VAL	CG1-CB-CG2	-5.42	98.88	110.80
1	P	315	LEU	O-C-N	5.42	129.97	123.36
1	A	158	ILE	O-C-N	-5.42	115.80	122.57
1	A	277	ALA	O-C-N	-5.42	115.33	122.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	443	SER	CA-C-O	5.42	125.53	119.41
1	B	90	GLY	CA-C-O	-5.42	111.15	120.57
1	D	370	GLY	O-C-N	-5.42	116.66	122.73
1	D	389	LEU	CD1-CG-CD2	-5.42	98.88	110.80
1	F	414	ALA	CA-C-O	-5.42	115.31	121.00
1	H	17	GLY	N-CA-C	5.42	121.10	111.02
1	I	25	ILE	CA-C-O	-5.42	115.49	121.29
1	K	390	SER	O-C-N	-5.42	115.65	122.20
1	L	55	VAL	N-CA-C	5.42	117.68	109.12
1	M	246	MET	CG-SD-CE	-5.42	88.99	100.90
1	M	296	ALA	N-CA-C	5.42	117.26	111.36
1	P	140	CYS	CA-CB-SG	5.42	126.86	114.40
1	P	257	SER	CB-CA-C	5.42	120.00	111.39
1	E	326	ILE	O-C-N	-5.42	115.04	122.62
1	L	479	SER	N-CA-CB	5.42	119.64	110.49
1	M	315	LEU	N-CA-C	5.42	117.62	109.23
1	M	458	VAL	N-CA-C	-5.42	102.60	109.80
1	N	218	ARG	CD-NE-CZ	5.42	131.98	124.40
1	O	105	ARG	NE-CZ-NH2	5.42	124.07	119.20
1	A	333	PHE	CG-CD2-CE2	5.41	129.90	120.70
1	C	444	ASN	O-C-N	5.41	127.88	122.03
1	D	29	ARG	CD-NE-CZ	5.41	131.98	124.40
1	D	194	LYS	CA-C-O	-5.41	115.66	121.56
1	H	132	GLN	CB-CG-CD	5.41	121.80	112.60
1	J	217	GLU	CA-C-O	-5.41	115.33	121.72
1	J	431	ILE	N-CA-CB	5.41	120.16	111.23
1	K	34	THR	CA-CB-CG2	-5.41	101.30	110.50
1	K	245	GLU	CA-C-O	-5.41	112.77	120.51
1	P	14	ARG	CA-CB-CG	5.41	124.93	114.10
1	D	436	LYS	CA-C-O	5.41	126.50	120.82
1	E	467	VAL	N-CA-CB	-5.41	103.40	112.06
1	G	53	GLY	CA-C-O	-5.41	113.20	119.10
1	P	359	ALA	CA-C-N	5.41	127.47	120.44
1	P	359	ALA	C-N-CA	5.41	127.47	120.44
1	A	417	VAL	O-C-N	5.41	127.19	121.89
1	D	371	CYS	CA-C-N	5.41	132.17	122.38
1	D	371	CYS	C-N-CA	5.41	132.17	122.38
1	F	339	HIS	CB-CG-CD2	-5.41	124.17	131.20
1	G	98	VAL	N-CA-C	-5.41	105.44	110.53
1	I	64	ILE	CA-C-N	-5.41	111.56	121.52
1	I	64	ILE	C-N-CA	-5.41	111.56	121.52
1	K	210	LYS	CA-CB-CG	5.41	124.92	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	242	THR	OG1-CB-CG2	-5.41	98.48	109.30
1	L	355	ILE	CA-CB-CG2	-5.41	101.30	110.50
1	O	33	GLU	N-CA-C	-5.41	105.49	111.71
1	P	74	ALA	CA-C-N	5.41	131.87	121.54
1	P	74	ALA	C-N-CA	5.41	131.87	121.54
1	P	86	GLU	N-CA-CB	5.41	117.81	109.91
1	P	411	PHE	N-CA-C	-5.41	106.69	113.72
1	A	156	THR	N-CA-CB	5.41	118.95	110.46
1	E	172	GLU	CA-C-N	-5.41	112.81	121.35
1	E	172	GLU	C-N-CA	-5.41	112.81	121.35
1	E	360	ARG	CA-C-O	-5.41	113.27	119.60
1	E	496	ALA	N-CA-CB	5.41	119.63	110.49
1	K	297	LYS	CA-CB-CG	5.41	124.92	114.10
1	N	84	THR	CA-CB-CG2	5.41	119.69	110.50
1	N	266	LYS	N-CA-CB	-5.41	101.47	110.23
1	O	105	ARG	CD-NE-CZ	5.41	131.97	124.40
1	O	195	ILE	CA-CB-CG2	-5.41	101.30	110.50
1	O	217	GLU	CA-C-O	-5.41	114.86	121.78
1	P	233	ALA	CA-C-O	-5.41	114.32	120.32
1	P	433	ILE	O-C-N	5.41	128.98	121.84
1	A	477	ILE	CA-CB-CG2	5.41	119.69	110.50
1	C	22	ARG	CA-CB-CG	-5.41	103.29	114.10
1	C	97	VAL	N-CA-CB	-5.41	104.73	110.62
1	D	441	HIS	CB-CG-ND1	-5.41	114.59	122.70
1	F	354	VAL	O-C-N	5.41	129.33	122.57
1	G	379	VAL	CA-C-O	-5.41	114.63	120.36
1	H	113	GLN	CG-CD-OE1	5.41	131.61	120.80
1	J	108	GLU	CB-CG-CD	5.41	121.79	112.60
1	N	383	GLY	N-CA-C	5.41	126.00	113.18
1	P	167	LYS	CB-CG-CD	5.41	123.74	111.30
1	B	285	ARG	CD-NE-CZ	5.41	131.97	124.40
1	B	396	TYR	CG-CD1-CE1	-5.41	113.09	121.20
1	E	473	LYS	O-C-N	5.41	129.02	122.48
1	F	184	ASP	CA-C-O	-5.41	112.78	120.51
1	F	431	ILE	CA-CB-CG1	-5.41	101.21	110.40
1	H	61	GLY	O-C-N	-5.41	115.67	122.70
1	I	325	LYS	CB-CA-C	-5.41	101.03	109.84
1	I	371	CYS	N-CA-C	5.41	120.74	114.04
1	J	27	ALA	CB-CA-C	5.41	119.44	110.90
1	K	307	ILE	N-CA-CB	5.41	117.49	110.57
1	L	99	VAL	CA-C-N	5.41	129.87	120.68
1	L	99	VAL	C-N-CA	5.41	129.87	120.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	497	GLU	CG-CD-OE1	-5.41	105.97	118.40
1	M	260	ASN	CB-CG-OD1	5.41	131.61	120.80
1	M	469	PRO	CB-CA-C	-5.41	102.64	111.56
1	N	96	ALA	N-CA-C	5.41	122.31	110.80
1	O	93	THR	N-CA-C	-5.41	99.29	110.80
1	P	197	LYS	CB-CG-CD	5.41	123.73	111.30
1	A	264	CYS	CA-C-N	5.40	129.82	120.58
1	A	264	CYS	C-N-CA	5.40	129.82	120.58
1	E	97	VAL	O-C-N	-5.40	115.81	122.57
1	J	16	MET	CA-C-O	-5.40	114.05	120.43
1	C	77	MET	CB-CA-C	5.40	120.37	110.11
1	D	364	ASP	O-C-N	5.40	128.92	122.27
1	F	271	LEU	CA-C-N	5.40	131.86	121.54
1	F	271	LEU	C-N-CA	5.40	131.86	121.54
1	G	254	ILE	O-C-N	-5.40	115.82	122.57
1	G	366	VAL	O-C-N	-5.40	114.96	122.31
1	I	33	GLU	CA-C-N	5.40	128.30	120.79
1	I	33	GLU	C-N-CA	5.40	128.30	120.79
1	K	88	GLU	O-C-N	5.40	128.21	122.38
1	K	107	ALA	N-CA-C	-5.40	106.19	112.89
1	L	228	THR	OG1-CB-CG2	-5.40	98.49	109.30
1	M	103	LEU	CB-CA-C	5.40	121.17	110.42
1	M	472	VAL	CA-C-N	5.40	129.82	120.58
1	M	472	VAL	C-N-CA	5.40	129.82	120.58
1	O	69	SER	CA-CB-OG	5.40	121.91	111.10
1	P	27	ALA	N-CA-C	-5.40	106.73	113.38
1	C	467	VAL	CA-CB-CG2	-5.40	101.22	110.40
1	D	19	ASP	CA-CB-CG	5.40	118.00	112.60
1	D	68	MET	CG-SD-CE	5.40	112.78	100.90
1	E	439	ALA	CB-CA-C	5.40	120.94	110.46
1	G	197	LYS	N-CA-C	5.40	117.43	108.20
1	H	307	ILE	O-C-N	-5.40	115.82	122.57
1	H	482	GLU	CA-C-O	-5.40	114.02	120.55
1	L	16	MET	N-CA-CB	-5.40	102.39	110.60
1	M	282	VAL	N-CA-C	-5.40	101.94	109.45
1	N	33	GLU	CA-C-N	-5.40	111.23	121.54
1	N	33	GLU	C-N-CA	-5.40	111.23	121.54
1	N	71	GLU	CA-C-N	5.40	130.69	121.35
1	N	71	GLU	C-N-CA	5.40	130.69	121.35
1	I	232	ILE	CB-CA-C	-5.40	105.40	111.45
1	N	379	VAL	O-C-N	5.40	129.16	123.00
1	A	420	ARG	CB-CG-CD	-5.40	98.89	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	325	LYS	CA-C-O	-5.40	112.79	120.51
1	E	147	LYS	CA-C-N	5.40	127.51	120.28
1	E	147	LYS	C-N-CA	5.40	127.51	120.28
1	F	148	GLU	CG-CD-OE1	-5.40	105.99	118.40
1	H	137	THR	N-CA-CB	5.40	117.83	110.01
1	J	273	GLN	N-CA-CB	5.40	118.03	109.82
1	L	246	MET	N-CA-CB	5.40	119.61	110.49
1	L	483	SER	CA-C-N	5.40	133.10	122.31
1	L	483	SER	C-N-CA	5.40	133.10	122.31
1	N	455	THR	CA-C-O	-5.40	112.95	119.27
1	G	46	LYS	CA-CB-CG	-5.40	103.31	114.10
1	H	88	GLU	CG-CD-OE2	5.40	130.81	118.40
1	L	365	ALA	CA-C-O	-5.40	112.96	119.49
1	M	139	ALA	N-CA-C	5.40	122.29	110.80
1	O	226	LYS	CA-CB-CG	5.40	124.89	114.10
1	A	66	ARG	CA-C-O	5.39	128.22	120.51
1	A	447	LYS	N-CA-CB	5.39	117.79	109.91
1	F	196	GLU	CA-C-O	-5.39	114.61	120.81
1	G	460	ASP	CA-C-N	-5.39	113.26	120.54
1	G	460	ASP	C-N-CA	-5.39	113.26	120.54
1	I	199	SER	O-C-N	-5.39	116.64	123.01
1	J	121	VAL	N-CA-C	-5.39	105.27	110.72
1	L	62	VAL	CA-C-N	-5.39	110.95	120.99
1	L	62	VAL	C-N-CA	-5.39	110.95	120.99
1	M	415	LEU	O-C-N	-5.39	115.38	122.39
1	M	418	ILE	CA-CB-CG1	5.39	119.57	110.40
1	N	180	ALA	CB-CA-C	5.39	119.25	110.24
1	N	429	ASP	OD1-CG-OD2	-5.39	109.95	122.90
1	O	154	ALA	N-CA-CB	-5.39	101.92	110.28
1	O	299	THR	OG1-CB-CG2	5.39	120.09	109.30
1	P	128	ALA	CA-C-O	-5.39	112.80	120.51
1	P	157	SER	CB-CA-C	5.39	119.50	110.92
1	P	388	GLU	CB-CG-CD	5.39	121.77	112.60
1	A	207	GLU	CA-C-N	5.39	131.12	123.14
1	A	207	GLU	C-N-CA	5.39	131.12	123.14
1	B	303	VAL	CA-CB-CG1	5.39	119.57	110.40
1	F	152	LYS	CB-CG-CD	5.39	123.70	111.30
1	J	196	GLU	N-CA-CB	-5.39	102.65	110.36
1	J	272	ALA	O-C-N	-5.39	116.27	122.09
1	K	65	LEU	N-CA-CB	5.39	118.58	110.65
1	K	242	THR	N-CA-CB	-5.39	102.11	110.57
1	M	112	ASP	OD1-CG-OD2	-5.39	109.96	122.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	51	ASP	N-CA-CB	-5.39	101.38	110.49
1	D	399	GLY	O-C-N	5.39	129.71	122.70
1	E	394	ARG	N-CA-C	-5.39	105.32	111.14
1	I	38	THR	O-C-N	-5.39	114.33	122.20
1	P	207	GLU	CB-CG-CD	5.39	121.77	112.60
1	B	385	THR	N-CA-CB	5.39	118.42	110.33
1	C	336	GLU	CA-C-O	-5.39	112.80	120.51
1	D	124	TYR	N-CA-C	5.39	122.28	110.80
1	F	263	PHE	N-CA-CB	5.39	119.17	110.65
1	H	296	ALA	N-CA-C	5.39	118.07	111.82
1	I	157	SER	N-CA-C	-5.39	105.32	111.14
1	L	438	ARG	CA-CB-CG	5.39	124.88	114.10
1	M	88	GLU	O-C-N	-5.39	115.42	122.59
1	M	418	ILE	O-C-N	-5.39	116.97	120.42
1	M	438	ARG	CB-CA-C	-5.39	102.19	110.81
1	N	153	ILE	N-CA-CB	5.39	119.87	110.65
1	P	54	ASP	CB-CA-C	5.39	117.55	110.06
1	A	326	ILE	CG1-CB-CG2	5.39	126.86	110.70
1	C	219	VAL	N-CA-CB	5.39	120.12	111.23
1	C	450	GLY	CA-C-O	-5.39	111.20	120.57
1	F	378	ILE	N-CA-C	5.39	117.64	108.86
1	G	451	LEU	CB-CA-C	5.39	121.14	110.42
1	P	18	ARG	N-CA-C	5.39	120.26	111.37
1	C	192	LEU	N-CA-C	5.39	122.27	110.80
1	E	36	ARG	CD-NE-CZ	-5.39	116.86	124.40
1	E	431	ILE	CB-CG1-CD1	5.39	125.11	113.80
1	G	481	ALA	CA-C-O	-5.39	115.15	120.70
1	H	354	VAL	CA-C-N	5.39	127.83	120.77
1	H	354	VAL	C-N-CA	5.39	127.83	120.77
1	I	39	LEU	CD1-CG-CD2	5.39	122.65	110.80
1	K	303	VAL	CA-C-O	-5.39	114.43	120.95
1	K	363	ASP	CB-CA-C	-5.39	101.80	110.74
1	N	248	LYS	N-CA-C	5.39	119.02	112.23
1	O	130	LYS	CB-CG-CD	5.39	123.69	111.30
1	P	46	LYS	CG-CD-CE	-5.39	98.91	111.30
1	P	325	LYS	CA-CB-CG	5.39	124.87	114.10
1	A	341	LYS	N-CA-CB	5.38	119.18	110.40
1	C	232	ILE	N-CA-C	5.38	116.00	108.89
1	C	340	PRO	CB-CA-C	-5.38	102.68	111.56
1	D	403	ARG	N-CA-CB	5.38	119.59	110.49
1	F	470	LEU	N-CA-CB	-5.38	103.18	110.67
1	M	8	LEU	O-C-N	5.38	127.51	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	348	ARG	CB-CA-C	5.38	118.72	109.51
1	P	358	VAL	CA-C-O	5.38	127.51	120.78
1	F	303	VAL	CA-CB-CG2	5.38	119.55	110.40
1	J	365	ALA	O-C-N	-5.38	115.12	122.33
1	A	81	VAL	CA-CB-CG1	5.38	119.55	110.40
1	B	243	ALA	O-C-N	-5.38	115.43	122.59
1	E	492	ASP	CB-CA-C	5.38	121.13	110.42
1	F	296	ALA	N-CA-CB	5.38	119.47	110.32
1	G	226	LYS	O-C-N	-5.38	115.43	122.59
1	G	495	ALA	N-CA-CB	5.38	121.16	111.37
1	J	212	VAL	N-CA-C	5.38	115.80	107.78
1	J	357	GLU	N-CA-CB	5.38	118.09	110.13
1	M	451	LEU	O-C-N	-5.38	115.98	122.65
1	O	324	ARG	N-CA-C	5.38	117.76	107.75
1	O	344	THR	CB-CA-C	-5.38	100.65	109.53
1	D	67	GLU	CA-C-O	-5.38	114.79	120.55
1	G	25	ILE	CA-CB-CG1	5.38	119.55	110.40
1	I	57	VAL	CG1-CB-CG2	5.38	122.64	110.80
1	J	261	VAL	CB-CA-C	-5.38	102.47	111.29
1	L	80	GLU	N-CA-CB	5.38	118.64	110.14
1	M	447	LYS	N-CA-CB	5.38	119.58	110.49
1	B	29	ARG	CA-C-O	5.38	126.21	120.24
1	E	128	ALA	N-CA-CB	5.38	118.56	110.65
1	G	252	ALA	CA-C-N	5.38	133.42	121.80
1	G	252	ALA	C-N-CA	5.38	133.42	121.80
1	J	395	GLU	CA-C-N	5.38	129.78	120.58
1	J	395	GLU	C-N-CA	5.38	129.78	120.58
1	M	299	THR	CA-C-O	-5.38	114.85	120.55
1	N	425	ASN	O-C-N	5.38	127.84	122.03
1	O	134	LEU	N-CA-C	5.38	120.11	113.50
1	A	114	ASN	CA-C-O	-5.38	112.82	120.51
1	B	390	SER	CA-CB-OG	-5.38	100.35	111.10
1	D	86	GLU	N-CA-C	5.38	117.22	111.36
1	E	417	VAL	N-CA-CB	5.38	120.10	111.23
1	F	417	VAL	O-C-N	5.38	127.30	121.87
1	H	86	GLU	CA-C-N	-5.38	111.27	121.54
1	H	86	GLU	C-N-CA	-5.38	111.27	121.54
1	H	109	GLU	CG-CD-OE1	5.38	130.77	118.40
1	L	447	LYS	N-CA-C	-5.38	106.89	113.50
1	M	145	GLN	O-C-N	-5.38	115.69	122.19
1	P	23	MET	CB-CG-SD	5.38	128.83	112.70
1	J	54	ASP	CB-CG-OD1	5.38	130.76	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	284	ALA	O-C-N	5.38	129.56	123.27
1	C	156	THR	N-CA-CB	5.37	119.13	110.42
1	D	278	LYS	CA-C-O	5.37	126.94	120.92
1	I	45	ASP	CA-C-O	-5.37	112.83	120.51
1	I	148	GLU	O-C-N	-5.37	116.44	122.03
1	I	478	GLN	CG-CD-OE1	5.37	131.55	120.80
1	J	151	THR	N-CA-CB	5.37	118.39	110.33
1	N	98	VAL	N-CA-CB	5.37	120.34	110.40
1	N	124	TYR	CB-CG-CD1	5.37	128.86	120.80
1	A	264	CYS	CA-C-O	-5.37	115.02	120.71
1	B	98	VAL	CA-C-O	5.37	127.01	121.05
1	E	237	CYS	CB-CA-C	5.37	118.61	109.75
1	H	276	LEU	CA-C-O	5.37	126.17	120.10
1	N	200	GLY	CA-C-O	-5.37	115.00	121.98
1	O	299	THR	CA-CB-OG1	5.37	117.66	109.60
1	O	317	ASP	CB-CA-C	5.37	118.26	110.79
1	P	368	VAL	O-C-N	-5.37	116.30	121.83
1	A	396	TYR	CA-C-O	-5.37	112.99	119.27
1	C	361	ALA	N-CA-CB	5.37	118.89	110.46
1	G	443	SER	CB-CA-C	5.37	118.42	109.56
1	J	339	HIS	CA-CB-CG	5.37	119.17	113.80
1	B	433	ILE	CA-CB-CG1	-5.37	101.27	110.40
1	C	137	THR	N-CA-C	-5.37	106.67	113.43
1	C	448	CYS	N-CA-CB	5.37	119.85	111.64
1	F	114	ASN	CA-CB-CG	5.37	117.97	112.60
1	G	185	GLU	CB-CA-C	5.37	121.10	110.42
1	O	332	ILE	CA-C-O	-5.37	114.78	120.53
1	P	240	GLU	CA-CB-CG	5.37	124.84	114.10
1	J	299	THR	CB-CA-C	5.37	119.70	110.79
1	K	482	GLU	N-CA-CB	-5.37	102.70	110.70
1	P	24	ASN	CB-CG-ND2	-5.37	108.35	116.40
1	A	62	VAL	N-CA-CB	5.37	120.08	111.23
1	A	125	GLN	CG-CD-NE2	-5.37	108.35	116.40
1	A	474	THR	CB-CA-C	5.37	119.70	110.79
1	B	161	LYS	CB-CG-CD	5.37	123.64	111.30
1	B	388	GLU	CA-C-O	-5.37	115.17	120.70
1	G	448	CYS	CB-CA-C	5.37	118.07	110.24
1	H	146	ASP	CB-CA-C	-5.37	101.13	109.61
1	K	79	ILE	CA-C-O	-5.37	114.83	120.57
1	K	380	SER	CB-CA-C	5.37	119.35	111.73
1	M	364	ASP	CA-CB-CG	5.37	117.97	112.60
1	N	362	VAL	CA-C-N	5.37	128.01	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	362	VAL	C-N-CA	5.37	128.01	120.28
1	N	489	ARG	CA-C-O	-5.37	113.25	119.64
1	A	25	ILE	CB-CG1-CD1	5.36	125.06	113.80
1	A	409	ARG	N-CA-CB	5.36	117.74	109.91
1	A	417	VAL	CA-C-O	-5.36	115.47	121.05
1	F	36	ARG	CA-CB-CG	5.36	124.83	114.10
1	F	93	THR	N-CA-CB	5.36	117.97	109.82
1	G	307	ILE	CA-CB-CG2	5.36	119.62	110.50
1	H	8	LEU	CB-CA-C	-5.36	99.60	110.17
1	H	167	LYS	N-CA-C	-5.36	105.60	111.82
1	J	115	VAL	CA-C-O	5.36	127.48	120.78
1	L	334	VAL	N-CA-CB	5.36	120.08	111.23
1	E	15	TYR	CD1-CG-CD2	-5.36	110.06	118.10
1	J	286	ARG	CA-C-N	5.36	131.62	121.97
1	J	286	ARG	C-N-CA	5.36	131.62	121.97
1	E	190	LYS	N-CA-CB	-5.36	101.43	110.49
1	G	420	ARG	N-CA-C	5.36	116.98	111.03
1	H	337	CYS	CA-C-O	5.36	126.66	120.60
1	H	406	LEU	CA-C-O	5.36	125.54	119.27
1	I	484	THR	CA-C-N	-5.36	111.76	121.14
1	I	484	THR	C-N-CA	-5.36	111.76	121.14
1	J	188	VAL	CB-CA-C	-5.36	103.16	110.77
1	J	192	LEU	N-CA-C	5.36	122.22	110.80
1	J	428	LEU	CD1-CG-CD2	-5.36	99.01	110.80
1	L	394	ARG	CB-CA-C	-5.36	102.46	110.88
1	M	185	GLU	O-C-N	-5.36	115.46	122.59
1	N	466	VAL	CG1-CB-CG2	-5.36	99.01	110.80
1	O	56	VAL	N-CA-C	5.36	115.24	106.72
1	C	362	VAL	CA-CB-CG1	-5.36	101.29	110.40
1	D	133	GLU	CA-C-O	5.36	126.10	120.42
1	F	478	GLN	CB-CG-CD	5.36	121.71	112.60
1	F	479	SER	CA-C-N	-5.36	114.18	122.49
1	F	479	SER	C-N-CA	-5.36	114.18	122.49
1	G	475	GLN	CA-C-O	-5.36	114.74	120.42
1	N	488	LEU	N-CA-CB	5.36	118.55	110.30
1	B	29	ARG	CD-NE-CZ	5.36	131.90	124.40
1	C	388	GLU	CA-CB-CG	5.36	124.81	114.10
1	D	253	GLU	O-C-N	-5.36	115.15	122.33
1	D	447	LYS	CA-CB-CG	5.36	124.81	114.10
1	E	283	ALA	CA-C-O	-5.36	114.11	120.43
1	F	85	GLN	CB-CG-CD	5.36	121.71	112.60
1	H	108	GLU	CA-C-O	5.36	126.45	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	440	ALA	O-C-N	5.36	128.26	122.15
1	J	356	GLU	O-C-N	5.36	129.30	122.33
1	K	395	GLU	OE1-CD-OE2	5.36	135.76	122.90
1	M	164	GLU	N-CA-C	5.36	122.21	110.80
1	M	477	ILE	CA-CB-CG1	5.36	119.51	110.40
1	N	38	THR	CA-CB-CG2	-5.36	101.39	110.50
1	O	395	GLU	CA-C-N	5.36	130.51	121.14
1	O	395	GLU	C-N-CA	5.36	130.51	121.14
1	E	10	GLU	CA-C-N	5.36	131.77	121.54
1	E	10	GLU	C-N-CA	5.36	131.77	121.54
1	F	327	SER	CB-CA-C	-5.36	99.76	110.42
1	H	133	GLU	N-CA-CB	5.36	118.06	110.13
1	I	33	GLU	CA-CB-CG	5.36	124.81	114.10
1	I	59	ASN	N-CA-C	-5.36	104.41	111.96
1	J	467	VAL	N-CA-C	5.36	117.34	108.99
1	K	360	ARG	CB-CG-CD	5.36	123.62	111.30
1	M	235	LEU	CB-CA-C	-5.36	101.41	110.19
1	N	22	ARG	CA-C-N	5.36	127.40	120.44
1	N	22	ARG	C-N-CA	5.36	127.40	120.44
1	O	175	VAL	CA-C-O	-5.36	113.10	119.58
1	D	16	MET	O-C-N	-5.35	115.56	122.20
1	L	333	PHE	CD1-CG-CD2	-5.35	110.57	118.60
1	M	186	GLY	O-C-N	5.35	129.66	122.70
1	O	406	LEU	CA-C-O	-5.35	112.80	119.28
1	C	460	ASP	OD1-CG-OD2	-5.35	110.05	122.90
1	D	106	LYS	CA-C-O	-5.35	115.38	121.00
1	E	87	LYS	N-CA-CB	5.35	118.58	110.28
1	G	64	ILE	O-C-N	-5.35	114.49	121.82
1	G	114	ASN	CB-CA-C	5.35	121.07	110.42
1	I	156	THR	O-C-N	-5.35	115.07	122.46
1	I	463	GLU	CA-C-N	5.35	129.73	120.58
1	I	463	GLU	C-N-CA	5.35	129.73	120.58
1	K	385	THR	N-CA-C	5.35	122.20	110.80
1	K	435	VAL	CB-CA-C	-5.35	104.83	112.22
1	L	28	GLY	CA-C-N	5.35	127.89	120.29
1	L	28	GLY	C-N-CA	5.35	127.89	120.29
1	M	181	VAL	N-CA-CB	5.35	119.50	110.56
1	N	21	GLN	CG-CD-OE1	5.35	131.50	120.80
1	N	256	ALA	CB-CA-C	5.35	119.28	110.88
1	D	57	VAL	CB-CA-C	-5.35	104.36	110.73
1	D	340	PRO	CA-C-O	-5.35	110.86	120.60
1	H	194	LYS	CG-CD-CE	5.35	123.61	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	165	LYS	N-CA-C	5.35	117.55	111.02
1	J	238	ALA	CA-C-N	5.35	131.60	121.97
1	J	238	ALA	C-N-CA	5.35	131.60	121.97
1	E	69	SER	CA-C-O	-5.35	112.86	120.51
1	F	92	GLY	O-C-N	5.35	128.75	122.38
1	F	210	LYS	CA-C-N	5.35	129.23	120.51
1	F	210	LYS	C-N-CA	5.35	129.23	120.51
1	F	364	ASP	CA-CB-CG	5.35	117.95	112.60
1	M	271	LEU	N-CA-C	5.35	119.43	113.01
1	N	303	VAL	N-CA-C	5.35	115.99	109.30
1	O	460	ASP	CA-C-O	-5.35	114.87	121.02
1	A	27	ALA	N-CA-C	5.35	118.90	112.38
1	A	116	HIS	CB-CA-C	5.35	120.71	110.17
1	A	133	GLU	CA-C-O	5.35	126.43	120.82
1	B	192	LEU	N-CA-C	5.35	117.53	111.11
1	B	441	HIS	CB-CA-C	5.35	119.24	110.95
1	D	16	MET	N-CA-C	5.35	118.65	110.36
1	D	400	ILE	N-CA-CB	5.35	120.05	111.23
1	J	406	LEU	N-CA-C	5.35	119.67	113.20
1	L	488	LEU	CA-C-O	5.35	126.14	120.10
1	M	480	ALA	N-CA-CB	5.35	117.95	109.82
1	P	70	VAL	CA-CB-CG2	-5.35	101.31	110.40
1	A	243	ALA	O-C-N	-5.35	115.48	122.59
1	I	360	ARG	CA-C-N	5.35	127.98	120.28
1	I	360	ARG	C-N-CA	5.35	127.98	120.28
1	J	79	ILE	CA-CB-CG2	5.35	119.59	110.50
1	L	76	LYS	CB-CA-C	5.35	120.42	109.67
1	M	349	GLY	CA-C-O	-5.35	111.27	120.57
1	N	329	ASP	CA-CB-CG	5.35	117.95	112.60
1	A	60	ASP	CA-C-N	5.34	131.89	121.41
1	A	60	ASP	C-N-CA	5.34	131.89	121.41
1	B	35	VAL	CA-C-N	5.34	131.75	121.54
1	B	35	VAL	C-N-CA	5.34	131.75	121.54
1	B	78	LEU	CA-C-O	-5.34	113.37	119.41
1	C	113	GLN	OE1-CD-NE2	5.34	127.94	122.60
1	E	172	GLU	O-C-N	5.34	129.65	122.49
1	F	444	ASN	CA-C-N	-5.34	113.97	121.56
1	F	444	ASN	C-N-CA	-5.34	113.97	121.56
1	G	165	LYS	CD-CE-NZ	5.34	129.00	111.90
1	H	489	ARG	CB-CA-C	5.34	119.27	110.88
1	I	244	SER	O-C-N	-5.34	115.48	122.59
1	M	294	LYS	CA-C-O	-5.34	114.86	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	339	HIS	CB-CG-ND1	5.34	130.72	122.70
1	P	492	ASP	CB-CA-C	5.34	121.32	109.94
1	C	145	GLN	O-C-N	5.34	129.83	122.46
1	D	45	ASP	CA-C-O	5.34	127.92	121.88
1	E	351	THR	N-CA-CB	5.34	119.33	110.14
1	H	241	GLU	CB-CG-CD	5.34	121.68	112.60
1	N	384	SER	CB-CA-C	5.34	121.05	110.42
1	A	358	VAL	N-CA-C	-5.34	106.06	113.00
1	B	191	ASP	OD1-CG-OD2	-5.34	110.08	122.90
1	C	366	VAL	O-C-N	5.34	129.49	122.12
1	D	59	ASN	OD1-CG-ND2	-5.34	117.26	122.60
1	I	323	GLU	CA-CB-CG	5.34	124.78	114.10
1	J	28	GLY	N-CA-C	-5.34	106.18	112.64
1	J	417	VAL	O-C-N	5.34	129.25	122.57
1	K	193	ILE	CA-CB-CG1	5.34	119.48	110.40
1	O	94	THR	CA-C-N	5.34	131.74	121.54
1	O	94	THR	C-N-CA	5.34	131.74	121.54
1	O	247	LEU	N-CA-C	-5.34	106.93	113.50
1	O	256	ALA	CA-C-O	5.34	126.20	120.70
1	P	299	THR	CA-CB-CG2	5.34	119.58	110.50
1	A	173	ILE	CA-CB-CG2	5.34	119.58	110.50
1	B	88	GLU	CA-C-N	5.34	128.38	120.74
1	B	88	GLU	C-N-CA	5.34	128.38	120.74
1	B	109	GLU	O-C-N	5.34	129.27	122.33
1	B	306	ASN	CA-C-N	5.34	131.58	121.97
1	B	306	ASN	C-N-CA	5.34	131.58	121.97
1	B	338	LYS	CA-CB-CG	5.34	124.78	114.10
1	D	333	PHE	O-C-N	5.34	129.24	123.10
1	D	346	LEU	CA-C-N	5.34	130.36	123.10
1	D	346	LEU	C-N-CA	5.34	130.36	123.10
1	D	446	ASN	OD1-CG-ND2	5.34	127.94	122.60
1	H	87	LYS	CD-CE-NZ	5.34	128.99	111.90
1	H	172	GLU	N-CA-CB	5.34	117.92	110.07
1	H	370	GLY	CA-C-N	5.34	131.33	122.73
1	H	370	GLY	C-N-CA	5.34	131.33	122.73
1	I	364	ASP	N-CA-C	-5.34	104.89	111.40
1	J	208	LEU	N-CA-C	5.34	117.30	108.49
1	M	255	LYS	CA-C-N	5.34	133.01	121.64
1	M	255	LYS	C-N-CA	5.34	133.01	121.64
1	P	82	ALA	O-C-N	-5.34	114.78	122.36
1	P	416	GLU	O-C-N	-5.34	116.57	122.07
1	F	396	TYR	CA-CB-CG	-5.34	104.29	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	240	GLU	N-CA-CB	5.34	118.97	110.16
1	L	405	GLN	O-C-N	-5.34	115.49	122.59
1	M	421	THR	CA-C-N	-5.34	112.13	122.06
1	M	421	THR	C-N-CA	-5.34	112.13	122.06
1	O	228	THR	CB-CA-C	5.34	121.04	110.42
1	P	38	THR	CA-C-N	5.34	131.74	121.54
1	P	38	THR	C-N-CA	5.34	131.74	121.54
1	P	175	VAL	CA-C-O	-5.34	113.23	119.85
1	F	371	CYS	CA-C-O	5.34	125.51	119.27
1	G	151	THR	CB-CA-C	5.34	121.14	109.99
1	G	215	ASP	O-C-N	-5.34	115.63	122.83
1	G	463	GLU	CG-CD-OE1	-5.34	106.12	118.40
1	H	31	ILE	N-CA-CB	5.34	120.03	111.23
1	H	204	ASP	CA-C-N	5.34	131.73	121.54
1	H	204	ASP	C-N-CA	5.34	131.73	121.54
1	H	363	ASP	N-CA-CB	5.34	119.51	110.49
1	N	42	LYS	CD-CE-NZ	5.34	128.97	111.90
1	O	133	GLU	CG-CD-OE1	-5.34	106.13	118.40
1	O	467	VAL	CB-CA-C	-5.34	101.16	110.71
1	F	50	ASP	CA-CB-CG	5.33	117.94	112.60
1	F	422	LEU	CA-C-O	-5.33	114.07	120.10
1	G	299	THR	CA-C-O	-5.33	115.20	121.07
1	J	477	ILE	O-C-N	5.33	130.04	122.04
1	M	206	THR	CB-CA-C	5.33	121.04	110.42
1	P	169	LYS	CA-C-O	-5.33	114.32	120.24
1	A	184	ASP	N-CA-C	5.33	118.75	111.39
1	A	292	MET	N-CA-CB	5.33	118.43	110.22
1	B	452	ASN	CA-CB-CG	-5.33	107.27	112.60
1	D	182	VAL	N-CA-C	5.33	116.57	109.37
1	E	335	GLU	CA-C-N	5.33	130.13	122.40
1	E	335	GLU	C-N-CA	5.33	130.13	122.40
1	H	223	MET	CA-C-O	-5.33	115.23	119.71
1	J	84	THR	CA-C-O	5.33	125.92	119.31
1	M	158	ILE	CA-C-O	-5.33	114.11	120.78
1	N	294	LYS	CA-C-N	5.33	129.75	120.68
1	N	294	LYS	C-N-CA	5.33	129.75	120.68
1	O	322	GLU	O-C-N	5.33	129.55	123.31
1	B	174	ILE	CA-CB-CG1	5.33	119.46	110.40
1	C	490	ILE	CA-C-O	5.33	127.44	120.78
1	E	273	GLN	CA-CB-CG	5.33	124.76	114.10
1	E	477	ILE	CB-CA-C	-5.33	105.06	112.04
1	M	103	LEU	CD1-CG-CD2	-5.33	99.07	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	237	CYS	CA-C-O	-5.33	115.34	121.47
1	P	276	LEU	CA-C-N	5.33	131.04	121.66
1	P	276	LEU	C-N-CA	5.33	131.04	121.66
1	P	304	ILE	N-CA-C	5.33	117.23	108.97
1	A	307	ILE	O-C-N	-5.33	115.91	122.57
1	D	77	MET	N-CA-C	-5.33	106.61	113.01
1	I	36	ARG	N-CA-C	-5.33	105.04	112.45
1	L	157	SER	CA-C-N	5.33	131.56	121.97
1	L	157	SER	C-N-CA	5.33	131.56	121.97
1	M	283	ALA	N-CA-C	5.33	117.86	108.75
1	O	82	ALA	N-CA-CB	5.33	118.51	110.30
1	O	333	PHE	CD1-CE1-CZ	-5.33	110.41	120.00
1	A	86	GLU	N-CA-C	5.33	117.17	111.36
1	B	54	ASP	OD1-CG-OD2	-5.33	110.11	122.90
1	D	141	GLU	CG-CD-OE2	5.33	130.65	118.40
1	E	76	LYS	N-CA-CB	5.33	118.32	110.33
1	H	213	LEU	CA-C-N	5.33	131.56	121.97
1	H	213	LEU	C-N-CA	5.33	131.56	121.97
1	L	463	GLU	N-CA-C	-5.33	106.83	113.38
1	N	151	THR	CA-C-O	-5.33	112.83	119.28
1	P	159	THR	CA-CB-CG2	5.33	119.56	110.50
1	C	473	LYS	N-CA-CB	5.33	117.80	110.07
1	L	489	ARG	N-CA-C	5.33	119.88	113.17
1	B	201	ALA	N-CA-CB	5.33	119.49	110.49
1	G	294	LYS	N-CA-C	-5.33	106.83	113.38
1	I	348	ARG	CB-CA-C	5.33	118.50	109.50
1	K	252	ALA	O-C-N	5.33	129.67	122.59
1	K	297	LYS	CB-CA-C	5.33	118.98	109.29
1	M	27	ALA	CB-CA-C	5.33	119.90	110.85
1	M	58	THR	CA-C-O	-5.33	115.03	120.89
1	P	198	LYS	N-CA-C	5.33	116.76	107.49
1	P	240	GLU	OE1-CD-OE2	-5.33	110.12	122.90
1	F	111	LEU	CB-CA-C	5.32	121.01	110.42
1	F	411	PHE	CB-CA-C	5.32	120.54	109.95
1	G	181	VAL	N-CA-CB	5.32	116.78	110.55
1	G	190	LYS	O-C-N	-5.32	115.51	122.59
1	G	396	TYR	CB-CA-C	5.32	121.02	110.42
1	G	464	ASN	CA-CB-CG	-5.32	107.28	112.60
1	H	344	THR	O-C-N	5.32	129.02	123.06
1	I	433	ILE	CB-CA-C	-5.32	103.48	112.16
1	J	391	MET	CA-C-N	-5.32	111.48	120.58
1	J	391	MET	C-N-CA	-5.32	111.48	120.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	488	LEU	O-C-N	-5.32	115.20	122.33
1	P	219	VAL	CA-CB-CG2	-5.32	101.35	110.40
1	P	290	SER	CA-CB-OG	5.32	121.75	111.10
1	C	120	VAL	CG1-CB-CG2	-5.32	99.09	110.80
1	F	103	LEU	O-C-N	5.32	129.67	122.59
1	G	252	ALA	N-CA-C	5.32	119.26	112.87
1	I	290	SER	CA-C-O	-5.32	115.21	120.90
1	J	176	GLU	CG-CD-OE2	5.32	130.64	118.40
1	O	57	VAL	CB-CA-C	-5.32	104.49	111.25
1	A	274	HIS	CE1-NE2-CD2	5.32	114.32	109.00
1	B	133	GLU	CA-C-O	5.32	125.92	119.38
1	B	287	VAL	CB-CA-C	5.32	120.02	111.29
1	F	187	LYS	CG-CD-CE	5.32	123.54	111.30
1	F	421	THR	CA-CB-OG1	-5.32	101.62	109.60
1	H	58	THR	CA-C-N	5.32	130.72	122.26
1	H	58	THR	C-N-CA	5.32	130.72	122.26
1	J	21	GLN	CG-CD-NE2	-5.32	108.42	116.40
1	J	233	ALA	O-C-N	-5.32	117.04	123.27
1	K	486	MET	O-C-N	-5.32	116.34	122.09
1	M	379	VAL	CA-CB-CG2	5.32	119.44	110.40
1	D	118	THR	CA-C-N	5.32	131.54	121.97
1	D	118	THR	C-N-CA	5.32	131.54	121.97
1	F	37	SER	CB-CA-C	5.32	121.00	110.42
1	H	457	ALA	CA-C-O	-5.32	115.59	121.28
1	I	399	GLY	CA-C-N	5.32	129.44	120.29
1	I	399	GLY	C-N-CA	5.32	129.44	120.29
1	K	424	GLU	CA-C-O	-5.32	114.91	120.55
1	O	161	LYS	N-CA-C	5.32	117.50	109.41
1	B	96	ALA	N-CA-CB	5.32	119.48	110.49
1	D	149	ILE	CA-CB-CG2	5.32	119.54	110.50
1	D	281	ILE	CA-CB-CG1	5.32	119.44	110.40
1	E	340	PRO	CA-N-CD	-5.32	104.56	112.00
1	I	308	LYS	CB-CG-CD	-5.32	99.07	111.30
1	L	486	MET	N-CA-CB	5.32	117.72	110.01
1	P	309	ASP	CB-CG-OD1	5.32	130.63	118.40
1	P	336	GLU	CB-CA-C	5.32	119.44	111.89
1	D	210	LYS	N-CA-CB	5.32	119.47	110.49
1	E	203	ILE	CB-CA-C	5.32	120.01	111.29
1	F	304	ILE	CA-CB-CG2	5.32	119.54	110.50
1	F	407	ALA	O-C-N	5.32	129.48	122.30
1	J	23	MET	CA-C-O	-5.32	114.79	120.42
1	J	148	GLU	CA-C-N	-5.32	113.76	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	148	GLU	C-N-CA	-5.32	113.76	120.56
1	J	350	THR	CA-C-N	5.32	133.10	123.27
1	J	350	THR	C-N-CA	5.32	133.10	123.27
1	K	97	VAL	CB-CA-C	5.32	119.56	112.22
1	K	326	ILE	CG1-CB-CG2	5.32	126.65	110.70
1	K	349	GLY	O-C-N	-5.32	118.50	123.87
1	M	297	LYS	CA-C-N	5.32	131.69	121.54
1	M	297	LYS	C-N-CA	5.32	131.69	121.54
1	B	405	GLN	N-CA-CB	5.31	117.90	109.82
1	C	208	LEU	N-CA-C	5.31	117.88	107.57
1	C	482	GLU	N-CA-C	-5.31	106.75	113.18
1	F	10	GLU	CA-CB-CG	5.31	124.73	114.10
1	G	106	LYS	N-CA-C	5.31	117.07	111.28
1	N	72	HIS	CB-CA-C	5.31	118.40	109.69
1	O	105	ARG	NH1-CZ-NH2	5.31	126.21	119.30
1	O	264	CYS	CB-CA-C	5.31	118.90	110.19
1	C	336	GLU	O-C-N	5.31	129.66	122.59
1	E	435	VAL	O-C-N	5.31	129.33	122.26
1	F	109	GLU	CB-CG-CD	-5.31	103.57	112.60
1	G	411	PHE	O-C-N	-5.31	114.87	122.41
1	I	129	GLN	N-CA-CB	5.31	119.47	110.49
1	I	357	GLU	CG-CD-OE1	5.31	130.62	118.40
1	L	175	VAL	N-CA-C	-5.31	104.45	111.09
1	L	176	GLU	O-C-N	-5.31	114.67	122.43
1	P	441	HIS	O-C-N	5.31	129.90	122.36
1	F	469	PRO	CB-CA-C	-5.31	102.80	111.56
1	M	244	SER	CA-CB-OG	5.31	121.72	111.10
1	N	479	SER	CA-CB-OG	5.31	121.72	111.10
1	A	190	LYS	O-C-N	-5.31	116.36	122.09
1	A	314	ASP	N-CA-C	5.31	122.11	110.80
1	B	301	ALA	N-CA-C	5.31	117.39	110.43
1	B	420	ARG	NE-CZ-NH2	-5.31	114.42	119.20
1	C	433	ILE	CA-C-O	5.31	126.80	121.17
1	F	29	ARG	N-CA-C	-5.31	105.60	111.71
1	H	98	VAL	CB-CA-C	-5.31	104.93	111.94
1	H	285	ARG	CD-NE-CZ	5.31	131.83	124.40
1	J	94	THR	CA-C-O	-5.31	114.79	120.42
1	J	137	THR	N-CA-CB	5.31	118.17	110.26
1	K	23	MET	O-C-N	5.31	129.65	122.59
1	L	423	ALA	CA-C-O	5.31	126.91	121.07
1	O	497	GLU	CA-C-O	-5.31	111.77	120.80
1	C	365	ALA	CA-C-N	5.31	129.34	120.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	365	ALA	C-N-CA	5.31	129.34	120.64
1	G	309	ASP	OD1-CG-OD2	-5.31	110.16	122.90
1	H	11	ASN	CB-CG-OD1	5.31	131.42	120.80
1	H	93	THR	CB-CA-C	-5.31	101.98	110.79
1	J	221	ALA	CA-C-N	5.31	127.83	120.29
1	J	221	ALA	C-N-CA	5.31	127.83	120.29
1	M	344	THR	O-C-N	5.31	129.95	123.21
1	M	436	LYS	CB-CA-C	-5.31	102.52	110.90
1	O	410	ALA	N-CA-C	5.31	119.02	112.54
1	C	323	GLU	CA-C-N	-5.31	115.12	123.13
1	C	323	GLU	C-N-CA	-5.31	115.12	123.13
1	I	377	ARG	CA-C-N	-5.31	114.81	122.45
1	I	377	ARG	C-N-CA	-5.31	114.81	122.45
1	J	274	HIS	N-CA-C	5.31	122.10	110.80
1	L	195	ILE	N-CA-C	5.31	120.38	109.34
1	P	286	ARG	NE-CZ-NH1	-5.31	116.19	121.50
1	A	38	THR	CA-C-N	-5.30	113.52	120.95
1	A	38	THR	C-N-CA	-5.30	113.52	120.95
1	B	354	VAL	N-CA-C	5.30	117.68	111.05
1	C	268	ILE	CA-CB-CG1	5.30	119.42	110.40
1	C	380	SER	CA-C-O	5.30	128.10	120.51
1	D	458	VAL	O-C-N	5.30	128.39	122.61
1	E	240	GLU	N-CA-CB	5.30	120.43	110.56
1	E	466	VAL	N-CA-CB	-5.30	102.48	111.23
1	J	365	ALA	CA-C-O	5.30	126.05	119.79
1	L	432	GLU	CB-CA-C	5.30	120.33	109.67
1	M	22	ARG	CA-C-N	-5.30	111.86	121.14
1	M	22	ARG	C-N-CA	-5.30	111.86	121.14
1	N	265	GLN	CG-CD-NE2	5.30	124.36	116.40
1	O	402	GLY	CA-C-O	-5.30	111.34	120.57
1	P	90	GLY	O-C-N	5.30	129.60	122.70
1	B	36	ARG	CA-CB-CG	5.30	124.71	114.10
1	F	113	GLN	CB-CA-C	-5.30	103.77	111.14
1	J	157	SER	N-CA-C	5.30	119.60	113.18
1	N	69	SER	CA-C-O	-5.30	112.93	120.51
1	N	408	VAL	CA-CB-CG2	5.30	119.42	110.40
1	O	317	ASP	O-C-N	-5.30	116.24	123.24
1	A	335	GLU	N-CA-C	5.30	118.64	110.42
1	D	175	VAL	CA-C-N	-5.30	113.12	120.38
1	D	175	VAL	C-N-CA	-5.30	113.12	120.38
1	E	241	GLU	N-CA-C	-5.30	102.06	109.69
1	F	441	HIS	CE1-NE2-CD2	5.30	114.30	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	480	ALA	N-CA-CB	-5.30	102.60	110.61
1	G	363	ASP	N-CA-CB	5.30	118.10	110.20
1	I	180	ALA	CA-C-N	5.30	127.35	120.56
1	I	180	ALA	C-N-CA	5.30	127.35	120.56
1	K	245	GLU	CA-CB-CG	5.30	124.70	114.10
1	K	255	LYS	CG-CD-CE	5.30	123.49	111.30
1	L	175	VAL	CA-C-O	-5.30	114.75	120.47
1	P	477	ILE	CA-C-N	5.30	128.84	120.89
1	P	477	ILE	C-N-CA	5.30	128.84	120.89
1	A	72	HIS	CB-CG-ND1	5.30	130.65	122.70
1	C	71	GLU	N-CA-C	5.30	119.50	112.72
1	E	471	ARG	CA-C-O	-5.30	114.98	120.92
1	F	80	GLU	CA-C-O	-5.30	112.93	120.51
1	F	147	LYS	CB-CA-C	5.30	120.97	110.42
1	G	192	LEU	CA-C-N	5.30	131.51	121.97
1	G	192	LEU	C-N-CA	5.30	131.51	121.97
1	H	461	MET	CA-C-N	5.30	131.66	121.54
1	H	461	MET	C-N-CA	5.30	131.66	121.54
1	I	265	GLN	CB-CG-CD	-5.30	103.59	112.60
1	I	392	LYS	N-CA-CB	5.30	117.64	110.59
1	M	321	VAL	CG1-CB-CG2	-5.30	99.14	110.80
1	M	333	PHE	O-C-N	-5.30	117.12	123.06
1	N	55	VAL	CA-C-N	5.30	131.17	122.64
1	N	55	VAL	C-N-CA	5.30	131.17	122.64
1	N	444	ASN	CA-C-N	-5.30	113.75	121.44
1	N	444	ASN	C-N-CA	-5.30	113.75	121.44
1	O	52	LEU	N-CA-CB	-5.30	101.59	110.39
1	P	227	VAL	CB-CA-C	5.30	118.52	110.62
1	D	229	ASP	CA-C-N	5.30	130.19	121.39
1	D	229	ASP	C-N-CA	5.30	130.19	121.39
1	D	405	GLN	O-C-N	-5.30	115.54	122.59
1	F	497	GLU	CB-CG-CD	-5.30	103.59	112.60
1	G	42	LYS	CD-CE-NZ	5.30	128.85	111.90
1	H	154	ALA	CA-C-O	-5.30	113.54	120.00
1	C	35	VAL	N-CA-C	5.30	120.36	109.34
1	E	224	PRO	N-CA-C	5.30	123.38	112.47
1	E	282	VAL	CA-CB-CG1	5.30	119.40	110.40
1	E	362	VAL	O-C-N	-5.30	114.85	121.84
1	F	112	ASP	CB-CG-OD1	5.30	130.58	118.40
1	H	169	LYS	CA-C-O	-5.30	113.54	119.79
1	I	87	LYS	N-CA-CB	5.30	119.18	110.39
1	L	42	LYS	CB-CA-C	-5.30	101.61	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	109	GLU	CA-C-O	5.30	128.09	120.51
1	P	156	THR	N-CA-C	5.30	117.74	111.33
1	P	308	LYS	N-CA-C	-5.30	106.71	114.39
1	C	26	LEU	CA-C-N	-5.29	113.84	122.26
1	C	26	LEU	C-N-CA	-5.29	113.84	122.26
1	C	387	VAL	CG1-CB-CG2	-5.29	99.15	110.80
1	D	15	TYR	CE1-CZ-CE2	-5.29	109.71	120.30
1	F	398	GLU	N-CA-CB	-5.29	101.84	110.42
1	H	395	GLU	CA-CB-CG	-5.29	103.51	114.10
1	K	229	ASP	CB-CA-C	5.29	120.13	111.23
1	C	185	GLU	CG-CD-OE2	5.29	130.58	118.40
1	G	131	ALA	CA-C-N	5.29	127.69	120.54
1	G	131	ALA	C-N-CA	5.29	127.69	120.54
1	J	110	LEU	N-CA-C	5.29	117.86	111.40
1	K	72	HIS	CB-CG-CD2	5.29	138.08	131.20
1	M	38	THR	CA-CB-OG1	5.29	117.54	109.60
1	M	76	LYS	CB-CA-C	5.29	118.29	109.56
1	N	72	HIS	N-CA-C	5.29	118.84	109.58
1	O	314	ASP	CA-CB-CG	5.29	117.89	112.60
1	O	321	VAL	CG1-CB-CG2	-5.29	99.15	110.80
1	O	481	ALA	O-C-N	5.29	128.24	122.20
1	A	224	PRO	N-CD-CG	5.29	111.14	103.20
1	C	104	LEU	O-C-N	-5.29	114.84	122.36
1	D	210	LYS	CA-C-N	5.29	131.78	121.41
1	D	210	LYS	C-N-CA	5.29	131.78	121.41
1	D	300	GLY	CA-C-O	5.29	123.74	118.77
1	E	129	GLN	CA-CB-CG	5.29	124.68	114.10
1	F	215	ASP	OD1-CG-OD2	-5.29	110.20	122.90
1	H	95	THR	OG1-CB-CG2	-5.29	98.72	109.30
1	H	250	MET	CA-C-N	5.29	127.18	120.72
1	H	250	MET	C-N-CA	5.29	127.18	120.72
1	J	459	GLU	O-C-N	5.29	129.63	122.59
1	M	129	GLN	OE1-CD-NE2	-5.29	117.31	122.60
1	M	269	ASP	CB-CG-OD1	5.29	130.57	118.40
1	N	41	PRO	N-CD-CG	5.29	111.14	103.20
1	O	272	ALA	CA-C-O	-5.29	113.12	119.15
1	O	292	MET	N-CA-CB	5.29	118.39	110.14
1	O	393	LEU	CA-C-N	5.29	127.64	120.44
1	O	393	LEU	C-N-CA	5.29	127.64	120.44
1	D	93	THR	O-C-N	-5.29	115.56	122.59
1	J	484	THR	O-C-N	5.29	128.88	122.48
1	M	380	SER	N-CA-CB	-5.29	104.16	112.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	336	GLU	N-CA-C	5.29	118.92	111.52
1	P	193	ILE	CA-C-N	5.29	130.17	121.39
1	P	193	ILE	C-N-CA	5.29	130.17	121.39
1	P	244	SER	CA-C-N	5.29	131.64	121.54
1	P	244	SER	C-N-CA	5.29	131.64	121.54
1	B	474	THR	N-CA-C	5.29	120.04	111.37
1	C	318	ALA	O-C-N	5.29	129.50	123.31
1	A	452	ASN	OD1-CG-ND2	5.29	127.89	122.60
1	B	283	ALA	N-CA-C	5.29	116.99	108.32
1	D	161	LYS	O-C-N	-5.29	115.38	122.94
1	D	299	THR	CA-CB-CG2	5.29	119.49	110.50
1	D	375	ASP	CB-CA-C	-5.29	100.57	109.72
1	E	87	LYS	N-CA-C	5.29	117.95	111.82
1	G	329	ASP	CA-CB-CG	-5.29	107.31	112.60
1	G	464	ASN	CB-CG-ND2	-5.29	108.47	116.40
1	H	105	ARG	NH1-CZ-NH2	-5.29	112.43	119.30
1	H	351	THR	N-CA-C	5.29	115.01	108.19
1	J	205	ASP	CA-C-O	-5.29	112.13	120.37
1	M	312	ALA	CA-C-N	5.29	129.54	120.71
1	M	312	ALA	C-N-CA	5.29	129.54	120.71
1	N	196	GLU	O-C-N	-5.29	117.19	123.22
1	P	405	GLN	OE1-CD-NE2	-5.29	117.31	122.60
1	A	136	LYS	CA-CB-CG	-5.28	103.53	114.10
1	A	237	CYS	N-CA-CB	5.28	120.14	111.58
1	B	236	ASN	CA-C-N	5.28	130.78	123.07
1	B	236	ASN	C-N-CA	5.28	130.78	123.07
1	C	281	ILE	CB-CG1-CD1	-5.28	102.70	113.80
1	F	284	ALA	CA-C-O	-5.28	114.65	120.30
1	G	335	GLU	OE1-CD-OE2	5.28	135.58	122.90
1	I	92	GLY	N-CA-C	5.28	123.22	115.08
1	I	470	LEU	CA-C-N	5.28	131.63	121.54
1	I	470	LEU	C-N-CA	5.28	131.63	121.54
1	J	82	ALA	N-CA-CB	5.28	118.31	110.49
1	J	141	GLU	CA-C-O	-5.28	114.90	120.92
1	K	122	LYS	O-C-N	5.28	129.62	122.59
1	K	330	SER	CA-C-O	-5.28	114.57	120.54
1	P	234	LEU	O-C-N	-5.28	116.50	123.21
1	D	86	GLU	CA-C-O	5.28	126.02	120.42
1	D	413	ASP	N-CA-C	5.28	120.03	111.37
1	F	264	CYS	CA-C-N	5.28	127.31	120.44
1	F	264	CYS	C-N-CA	5.28	127.31	120.44
1	F	462	CYS	CA-C-N	5.28	129.59	121.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	462	CYS	C-N-CA	5.28	129.59	121.19
1	I	286	ARG	N-CA-C	5.28	122.05	110.80
1	J	237	CYS	CA-C-O	-5.28	114.65	120.30
1	O	245	GLU	CG-CD-OE1	5.28	130.55	118.40
1	A	306	ASN	CB-CG-OD1	5.28	131.36	120.80
1	D	399	GLY	CA-C-N	5.28	131.48	121.97
1	D	399	GLY	C-N-CA	5.28	131.48	121.97
1	H	316	GLY	CA-C-O	5.28	129.96	122.51
1	J	225	LYS	N-CA-C	5.28	122.05	110.80
1	K	126	ALA	CA-C-O	5.28	125.45	119.27
1	K	168	GLU	O-C-N	5.28	127.72	122.12
1	M	372	THR	CA-C-N	5.28	131.47	121.97
1	M	372	THR	C-N-CA	5.28	131.47	121.97
1	M	416	GLU	CG-CD-OE1	5.28	130.55	118.40
1	N	298	ALA	CA-C-N	5.28	129.66	120.68
1	N	298	ALA	C-N-CA	5.28	129.66	120.68
1	N	424	GLU	O-C-N	5.28	129.61	122.59
1	N	496	ALA	CA-C-O	-5.28	112.96	120.51
1	C	324	ARG	CB-CA-C	-5.28	102.36	111.23
1	H	281	ILE	CA-CB-CG1	5.28	119.37	110.40
1	K	55	VAL	O-C-N	5.28	128.80	123.20
1	L	415	LEU	CB-CA-C	5.28	120.92	110.42
1	M	205	ASP	CA-C-N	5.28	131.62	121.54
1	M	205	ASP	C-N-CA	5.28	131.62	121.54
1	B	89	VAL	N-CA-CB	5.28	118.12	110.52
1	B	338	LYS	CB-CG-CD	5.28	123.44	111.30
1	E	98	VAL	CA-CB-CG1	-5.28	101.43	110.40
1	I	263	PHE	N-CA-C	5.28	117.25	108.02
1	I	398	GLU	CA-C-N	5.28	131.75	121.41
1	I	398	GLU	C-N-CA	5.28	131.75	121.41
1	L	286	ARG	O-C-N	5.28	129.61	122.59
1	N	432	GLU	CA-C-O	-5.28	115.46	121.00
1	O	124	TYR	N-CA-CB	-5.28	100.72	110.32
1	P	14	ARG	CB-CA-C	-5.28	101.70	110.14
1	P	43	GLY	CA-C-N	5.28	132.34	122.74
1	P	43	GLY	C-N-CA	5.28	132.34	122.74
1	P	252	ALA	O-C-N	5.28	130.20	122.39
1	C	152	LYS	CG-CD-CE	5.28	123.44	111.30
1	D	268	ILE	CA-C-N	-5.28	113.14	122.74
1	D	268	ILE	C-N-CA	-5.28	113.14	122.74
1	F	112	ASP	CA-C-N	5.28	131.71	122.95
1	F	112	ASP	C-N-CA	5.28	131.71	122.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	290	SER	CA-C-N	5.28	131.62	121.54
1	G	290	SER	C-N-CA	5.28	131.62	121.54
1	I	34	THR	CB-CA-C	-5.28	102.53	110.92
1	K	313	GLN	CA-C-N	5.28	131.62	121.54
1	K	313	GLN	C-N-CA	5.28	131.62	121.54
1	L	78	LEU	N-CA-CB	5.28	118.28	110.53
1	L	235	LEU	CA-C-O	-5.28	112.04	120.85
1	L	276	LEU	CA-CB-CG	5.28	134.77	116.30
1	M	80	GLU	OE1-CD-OE2	-5.28	110.24	122.90
1	N	229	ASP	CB-CG-OD2	5.28	130.53	118.40
1	O	205	ASP	N-CA-C	5.28	119.28	113.21
1	O	310	LEU	O-C-N	-5.28	115.57	122.59
1	O	412	ALA	CB-CA-C	-5.28	100.90	110.56
1	P	379	VAL	N-CA-CB	5.28	119.94	111.23
1	C	375	ASP	N-CA-C	5.27	117.25	108.02
1	I	62	VAL	N-CA-C	5.27	120.31	109.34
1	J	117	PRO	CA-C-N	5.27	129.12	120.63
1	J	117	PRO	C-N-CA	5.27	129.12	120.63
1	J	360	ARG	N-CA-C	-5.27	106.85	113.28
1	K	81	VAL	CA-CB-CG2	-5.27	101.44	110.40
1	B	71	GLU	N-CA-C	5.27	122.03	110.80
1	B	388	GLU	CB-CA-C	5.27	119.23	110.90
1	C	287	VAL	O-C-N	-5.27	115.98	122.57
1	F	47	MET	O-C-N	5.27	129.17	122.84
1	F	323	GLU	CG-CD-OE1	5.27	130.53	118.40
1	H	99	VAL	CA-CB-CG2	-5.27	101.44	110.40
1	I	466	VAL	N-CA-C	5.27	120.31	109.34
1	J	368	VAL	CA-C-O	-5.27	114.19	120.78
1	K	197	LYS	N-CA-CB	-5.27	102.42	110.65
1	M	94	THR	OG1-CB-CG2	5.27	119.84	109.30
1	N	469	PRO	O-C-N	5.27	129.76	122.64
1	O	7	VAL	N-CA-C	5.27	125.76	111.00
1	O	352	GLU	N-CA-C	5.27	122.03	110.80
1	O	367	GLY	N-CA-C	5.27	118.87	112.49
1	P	294	LYS	CA-CB-CG	5.27	124.65	114.10
1	A	149	ILE	CA-CB-CG2	5.27	119.46	110.50
1	B	138	ILE	N-CA-CB	5.27	119.36	110.56
1	D	245	GLU	CA-CB-CG	5.27	124.64	114.10
1	D	382	GLY	O-C-N	-5.27	115.85	122.70
1	I	242	THR	O-C-N	-5.27	116.45	122.93
1	L	88	GLU	CA-CB-CG	5.27	124.64	114.10
1	N	358	VAL	CG1-CB-CG2	-5.27	99.20	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	496	ALA	CA-C-N	-5.27	112.21	121.70
1	N	496	ALA	C-N-CA	-5.27	112.21	121.70
1	O	337	CYS	N-CA-C	-5.27	102.81	110.24
1	D	473	LYS	O-C-N	-5.27	115.37	122.43
1	E	73	PRO	O-C-N	-5.27	115.42	122.22
1	E	226	LYS	CA-C-N	-5.27	116.30	123.10
1	E	226	LYS	C-N-CA	-5.27	116.30	123.10
1	F	247	LEU	CA-C-N	5.27	128.32	120.31
1	F	247	LEU	C-N-CA	5.27	128.32	120.31
1	L	408	VAL	CA-C-O	-5.27	114.56	120.25
1	M	211	GLY	CA-C-O	-5.27	111.40	120.57
1	P	185	GLU	CB-CG-CD	-5.27	103.64	112.60
1	P	334	VAL	O-C-N	-5.27	115.98	122.57
1	A	342	ALA	CB-CA-C	5.27	118.91	110.16
1	B	172	GLU	CG-CD-OE1	-5.27	106.28	118.40
1	B	405	GLN	CG-CD-NE2	-5.27	108.50	116.40
1	D	113	GLN	O-C-N	-5.27	114.69	121.33
1	D	255	LYS	N-CA-C	5.27	118.81	112.38
1	E	173	ILE	CB-CG1-CD1	5.27	124.86	113.80
1	F	155	MET	CB-CG-SD	5.27	128.50	112.70
1	G	240	GLU	N-CA-CB	5.27	118.46	109.87
1	G	333	PHE	CG-CD1-CE1	-5.27	111.75	120.70
1	J	26	LEU	CD1-CG-CD2	5.27	122.39	110.80
1	L	179	SER	O-C-N	5.27	130.84	122.41
1	O	9	PRO	CA-N-CD	-5.27	104.62	112.00
1	O	422	LEU	CA-C-N	5.27	131.03	121.92
1	O	422	LEU	C-N-CA	5.27	131.03	121.92
1	O	479	SER	N-CA-CB	5.27	119.39	110.49
1	P	134	LEU	CA-CB-CG	5.27	134.73	116.30
1	P	340	PRO	CA-N-CD	-5.27	104.63	112.00
1	A	342	ALA	O-C-N	5.27	129.38	123.27
1	H	112	ASP	N-CA-CB	5.27	118.41	110.30
1	J	212	VAL	CB-CA-C	5.27	117.28	110.12
1	F	340	PRO	O-C-N	-5.26	115.53	122.64
1	L	311	SER	CA-C-O	-5.26	115.10	120.89
1	N	84	THR	OG1-CB-CG2	-5.26	98.77	109.30
1	P	12	MET	N-CA-CB	5.26	119.49	111.70
1	B	166	ALA	N-CA-CB	-5.26	102.94	110.57
1	C	287	VAL	CA-C-N	5.26	129.88	122.09
1	C	287	VAL	C-N-CA	5.26	129.88	122.09
1	C	454	PHE	CB-CG-CD1	5.26	129.65	120.70
1	I	322	GLU	CA-C-O	-5.26	114.68	120.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	280	GLY	CA-C-O	-5.26	111.41	120.57
1	N	133	GLU	N-CA-C	5.26	122.01	110.80
1	O	391	MET	CA-CB-CG	5.26	124.63	114.10
1	A	209	ILE	CB-CA-C	5.26	116.91	111.23
1	A	276	LEU	CA-CB-CG	5.26	134.72	116.30
1	A	299	THR	CA-C-N	5.26	129.76	122.29
1	A	299	THR	C-N-CA	5.26	129.76	122.29
1	E	148	GLU	CG-CD-OE2	5.26	130.50	118.40
1	F	35	VAL	CA-C-O	-5.26	114.20	120.78
1	H	275	TYR	CA-C-O	-5.26	115.28	120.70
1	I	212	VAL	N-CA-CB	5.26	118.97	111.82
1	I	325	LYS	N-CA-CB	5.26	118.11	109.95
1	I	446	ASN	OD1-CG-ND2	-5.26	117.34	122.60
1	I	471	ARG	N-CA-CB	5.26	119.38	110.49
1	K	51	ASP	N-CA-CB	-5.26	100.78	109.72
1	K	232	ILE	CB-CG1-CD1	5.26	124.85	113.80
1	O	347	ILE	CA-C-N	5.26	131.07	122.81
1	O	347	ILE	C-N-CA	5.26	131.07	122.81
1	P	102	GLU	CB-CA-C	-5.26	102.86	110.96
1	A	370	GLY	CA-C-N	5.26	128.10	120.79
1	A	370	GLY	C-N-CA	5.26	128.10	120.79
1	B	158	ILE	N-CA-C	5.26	120.28	109.34
1	B	216	LYS	N-CA-C	5.26	117.81	109.50
1	C	386	GLU	CG-CD-OE1	5.26	130.50	118.40
1	E	447	LYS	N-CA-C	5.26	122.00	110.80
1	F	146	ASP	N-CA-C	-5.26	102.61	110.23
1	G	8	LEU	O-C-N	-5.26	115.27	121.32
1	G	471	ARG	N-CA-C	5.26	118.96	112.54
1	H	165	LYS	CG-CD-CE	5.26	123.40	111.30
1	I	132	GLN	CA-C-O	-5.26	112.99	120.51
1	I	221	ALA	CA-C-N	5.26	130.34	121.14
1	I	221	ALA	C-N-CA	5.26	130.34	121.14
1	K	65	LEU	CD1-CG-CD2	5.26	122.37	110.80
1	K	86	GLU	N-CA-CB	5.26	119.38	110.49
1	K	210	LYS	O-C-N	-5.26	115.59	122.59
1	M	229	ASP	CB-CA-C	5.26	119.94	111.05
1	M	357	GLU	CG-CD-OE1	5.26	130.50	118.40
1	M	411	PHE	CB-CG-CD1	5.26	129.64	120.70
1	N	387	VAL	O-C-N	5.26	127.18	121.87
1	O	88	GLU	CA-C-N	5.26	128.89	122.63
1	O	88	GLU	C-N-CA	5.26	128.89	122.63
1	O	453	VAL	O-C-N	-5.26	116.77	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	54	ASP	OD1-CG-OD2	-5.26	110.28	122.90
1	G	74	ALA	O-C-N	-5.26	116.55	122.12
1	G	74	ALA	N-CA-CB	-5.26	102.39	110.12
1	P	212	VAL	N-CA-CB	5.26	118.97	111.82
1	A	257	SER	N-CA-CB	-5.26	102.37	110.20
1	A	278	LYS	CB-CG-CD	-5.26	99.21	111.30
1	B	278	LYS	CB-CA-C	5.26	120.88	110.42
1	D	93	THR	CA-CB-CG2	5.26	119.43	110.50
1	D	100	ALA	CA-C-O	5.26	125.99	120.42
1	D	173	ILE	N-CA-C	5.26	119.81	112.50
1	E	196	GLU	OE1-CD-OE2	5.26	135.52	122.90
1	H	347	ILE	CA-C-N	-5.26	113.64	123.05
1	H	347	ILE	C-N-CA	-5.26	113.64	123.05
1	J	13	LYS	O-C-N	-5.26	116.40	123.23
1	J	375	ASP	CA-C-O	-5.26	113.73	120.14
1	O	275	TYR	CB-CG-CD2	5.26	128.69	120.80
1	B	351	THR	CA-C-N	-5.25	112.71	120.38
1	B	351	THR	C-N-CA	-5.25	112.71	120.38
1	F	416	GLU	CB-CA-C	-5.25	99.01	109.99
1	G	344	THR	O-C-N	-5.25	117.06	123.16
1	K	94	THR	CA-C-O	5.25	128.03	120.51
1	L	481	ALA	N-CA-CB	-5.25	102.37	110.20
1	M	74	ALA	CA-C-N	5.25	131.58	121.54
1	M	74	ALA	C-N-CA	5.25	131.58	121.54
1	A	24	ASN	N-CA-CB	5.25	117.69	110.07
1	B	374	GLU	CA-C-N	5.25	131.57	121.54
1	B	374	GLU	C-N-CA	5.25	131.57	121.54
1	H	331	MET	N-CA-CB	5.25	120.51	111.00
1	I	347	ILE	CB-CA-C	5.25	118.23	110.77
1	I	403	ARG	CA-C-O	5.25	126.41	120.00
1	K	114	ASN	OD1-CG-ND2	-5.25	117.35	122.60
1	L	336	GLU	O-C-N	-5.25	115.60	122.59
1	N	426	ALA	CA-C-O	-5.25	113.00	120.51
1	O	235	LEU	CA-C-O	-5.25	114.68	120.30
1	A	299	THR	CA-CB-OG1	5.25	117.48	109.60
1	C	144	ALA	O-C-N	5.25	129.66	122.46
1	E	450	GLY	N-CA-C	-5.25	103.47	111.14
1	H	407	ALA	CA-C-O	-5.25	115.49	121.00
1	K	274	HIS	ND1-CG-CD2	5.25	111.35	106.10
1	P	321	VAL	CG1-CB-CG2	-5.25	99.25	110.80
1	F	465	GLY	N-CA-C	5.25	122.09	115.42
1	I	124	TYR	N-CA-C	5.25	117.91	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	334	VAL	CA-CB-CG2	5.25	119.32	110.40
1	N	291	ASP	OD1-CG-OD2	-5.25	110.30	122.90
1	N	453	VAL	CA-CB-CG2	5.25	119.33	110.40
1	B	218	ARG	CD-NE-CZ	5.25	131.75	124.40
1	D	181	VAL	CB-CA-C	-5.25	105.33	111.94
1	D	234	LEU	CD1-CG-CD2	5.25	122.35	110.80
1	K	122	LYS	CB-CA-C	5.25	120.86	110.42
1	K	358	VAL	N-CA-C	-5.25	105.88	113.07
1	M	377	ARG	NH1-CZ-NH2	-5.25	112.48	119.30
1	P	56	VAL	O-C-N	5.25	128.93	123.26
1	B	190	LYS	CA-C-O	-5.25	112.66	120.42
1	C	195	ILE	N-CA-CB	-5.25	102.57	111.23
1	D	34	THR	CB-CA-C	-5.25	102.88	110.96
1	E	222	GLN	N-CA-C	5.25	121.97	110.80
1	H	473	LYS	CB-CA-C	-5.25	101.93	110.85
1	I	474	THR	CA-C-N	5.25	127.31	120.28
1	I	474	THR	C-N-CA	5.25	127.31	120.28
1	J	12	MET	CA-C-N	5.25	130.81	122.94
1	J	12	MET	C-N-CA	5.25	130.81	122.94
1	J	249	ASP	N-CA-CB	5.25	119.87	110.32
1	K	91	ASP	OD1-CG-OD2	-5.25	110.31	122.90
1	L	249	ASP	N-CA-C	-5.25	106.71	113.01
1	M	199	SER	O-C-N	-5.25	116.76	123.06
1	P	99	VAL	N-CA-CB	5.25	119.89	111.23
1	C	427	GLY	CA-C-N	5.25	130.54	122.93
1	C	427	GLY	C-N-CA	5.25	130.54	122.93
1	K	382	GLY	CA-C-O	-5.25	111.44	120.57
1	M	447	LYS	O-C-N	5.25	129.56	122.59
1	P	243	ALA	CB-CA-C	5.25	120.86	110.42
1	A	339	HIS	CG-ND1-CE1	5.24	118.21	109.30
1	C	10	GLU	CA-CB-CG	5.24	124.59	114.10
1	C	354	VAL	N-CA-CB	5.24	121.16	110.78
1	D	108	GLU	CB-CG-CD	5.24	121.52	112.60
1	E	39	LEU	CA-C-O	5.24	126.73	120.70
1	F	42	LYS	CD-CE-NZ	5.24	128.68	111.90
1	F	201	ALA	CA-C-N	-5.24	111.53	121.54
1	F	201	ALA	C-N-CA	-5.24	111.53	121.54
1	H	137	THR	CA-CB-CG2	5.24	119.41	110.50
1	H	283	ALA	CA-C-N	5.24	130.38	122.99
1	H	283	ALA	C-N-CA	5.24	130.38	122.99
1	J	448	CYS	O-C-N	-5.24	115.46	122.28
1	N	429	ASP	CB-CG-OD2	5.24	130.46	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	126	ALA	N-CA-CB	5.24	118.37	110.30
1	F	104	LEU	CA-C-O	5.24	126.11	120.55
1	H	114	ASN	CB-CG-ND2	5.24	124.26	116.40
1	L	441	HIS	CA-CB-CG	5.24	119.04	113.80
1	A	418	ILE	CA-C-N	5.24	125.55	119.47
1	A	418	ILE	C-N-CA	5.24	125.55	119.47
1	C	183	ASP	CA-CB-CG	5.24	117.84	112.60
1	D	29	ARG	NH1-CZ-NH2	-5.24	112.49	119.30
1	D	296	ALA	CA-C-N	5.24	127.73	120.29
1	D	296	ALA	C-N-CA	5.24	127.73	120.29
1	E	250	MET	CA-C-N	5.24	127.63	120.77
1	E	250	MET	C-N-CA	5.24	127.63	120.77
1	F	53	GLY	O-C-N	5.24	128.46	122.33
1	G	267	GLY	CA-C-O	-5.24	116.56	121.90
1	H	66	ARG	CG-CD-NE	5.24	123.53	112.00
1	H	352	GLU	CB-CA-C	5.24	120.86	110.17
1	J	7	VAL	N-CA-C	5.24	125.67	111.00
1	L	203	ILE	CA-C-N	5.24	130.59	122.26
1	L	203	ILE	C-N-CA	5.24	130.59	122.26
1	M	65	LEU	N-CA-CB	5.24	117.95	110.67
1	N	271	LEU	CB-CA-C	5.24	121.26	110.31
1	O	377	ARG	N-CA-CB	-5.24	101.71	110.57
1	F	280	GLY	CA-C-O	-5.24	113.12	119.04
1	M	50	ASP	CA-C-N	5.24	131.55	121.54
1	M	50	ASP	C-N-CA	5.24	131.55	121.54
1	M	411	PHE	CA-C-O	5.24	125.41	119.18
1	P	236	ASN	N-CA-C	-5.24	106.57	113.17
1	A	278	LYS	O-C-N	-5.24	115.23	122.46
1	B	412	ALA	CA-C-O	-5.24	114.95	120.55
1	E	259	ALA	CA-C-O	-5.24	113.02	120.51
1	F	184	ASP	N-CA-CB	-5.24	101.64	110.49
1	J	66	ARG	CA-C-O	-5.24	113.02	120.51
1	M	117	PRO	N-CA-CB	5.24	108.75	103.25
1	P	194	LYS	O-C-N	5.24	128.88	122.96
1	B	244	SER	N-CA-C	5.24	121.95	110.80
1	B	279	GLU	CA-C-O	-5.24	113.47	119.60
1	C	220	SER	N-CA-C	5.24	118.27	109.95
1	D	93	THR	CA-C-N	5.24	131.54	121.54
1	D	93	THR	C-N-CA	5.24	131.54	121.54
1	D	463	GLU	CA-C-O	5.24	126.02	120.10
1	G	244	SER	CA-CB-OG	5.24	121.57	111.10
1	G	250	MET	CB-CA-C	5.24	119.10	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	234	LEU	CA-C-O	5.24	126.18	120.58
1	H	484	THR	CA-CB-OG1	5.24	117.45	109.60
1	I	237	CYS	CB-CA-C	5.24	118.17	109.53
1	J	65	LEU	N-CA-C	5.24	117.79	111.40
1	J	77	MET	N-CA-CB	5.24	119.34	110.49
1	J	310	LEU	N-CA-C	5.24	117.82	110.23
1	L	141	GLU	O-C-N	-5.24	117.11	123.13
1	M	185	GLU	CA-CB-CG	5.24	124.57	114.10
1	N	206	THR	CA-C-N	5.24	132.13	122.92
1	N	206	THR	C-N-CA	5.24	132.13	122.92
1	P	13	LYS	N-CA-C	5.24	117.82	110.23
1	A	470	LEU	O-C-N	-5.23	114.98	122.41
1	B	482	GLU	CB-CG-CD	5.23	121.50	112.60
1	D	153	ILE	CA-CB-CG2	5.23	119.40	110.50
1	L	490	ILE	N-CA-CB	-5.23	103.09	110.26
1	D	38	THR	CA-C-O	5.23	125.39	119.27
1	D	336	GLU	CB-CA-C	5.23	120.83	110.42
1	G	220	SER	CA-CB-OG	-5.23	100.63	111.10
1	H	202	SER	O-C-N	-5.23	113.42	122.11
1	I	386	GLU	CA-CB-CG	-5.23	103.63	114.10
1	I	459	GLU	OE1-CD-OE2	-5.23	110.34	122.90
1	L	74	ALA	CA-C-N	5.23	131.53	121.54
1	L	74	ALA	C-N-CA	5.23	131.53	121.54
1	A	355	ILE	O-C-N	-5.23	116.03	122.57
1	B	63	THR	O-C-N	5.23	129.55	122.59
1	B	124	TYR	N-CA-C	-5.23	106.16	112.54
1	E	300	GLY	N-CA-C	5.23	125.58	113.18
1	F	148	GLU	CA-C-N	5.23	128.92	121.02
1	F	148	GLU	C-N-CA	5.23	128.92	121.02
1	H	339	HIS	CB-CA-C	-5.23	99.87	110.17
1	J	177	ALA	N-CA-C	5.23	119.66	113.28
1	J	256	ALA	O-C-N	-5.23	115.43	122.23
1	K	34	THR	N-CA-C	-5.23	99.66	110.80
1	L	174	ILE	O-C-N	-5.23	115.10	121.90
1	N	462	CYS	CA-C-N	-5.23	114.44	122.60
1	N	462	CYS	C-N-CA	-5.23	114.44	122.60
1	A	266	LYS	O-C-N	-5.23	116.56	122.68
1	C	372	THR	O-C-N	-5.23	114.98	122.41
1	A	48	LEU	CB-CG-CD2	-5.23	95.02	110.70
1	B	260	ASN	CB-CG-ND2	-5.23	108.56	116.40
1	G	70	VAL	CA-CB-CG1	5.23	119.29	110.40
1	K	80	GLU	CA-C-N	5.23	128.91	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	80	GLU	C-N-CA	5.23	128.91	120.55
1	M	97	VAL	CA-CB-CG2	-5.23	101.52	110.40
1	C	209	ILE	N-CA-CB	-5.23	103.88	110.31
1	A	259	ALA	N-CA-C	5.22	121.93	110.80
1	B	177	ALA	CA-C-O	-5.22	112.83	119.31
1	B	428	LEU	N-CA-C	5.22	117.03	110.24
1	K	320	LEU	CD1-CG-CD2	-5.22	99.30	110.80
1	K	490	ILE	CA-C-N	5.22	130.39	122.08
1	K	490	ILE	C-N-CA	5.22	130.39	122.08
1	O	15	TYR	CA-C-O	-5.22	113.26	120.52
1	A	479	SER	CB-CA-C	5.22	120.81	110.42
1	D	324	ARG	CD-NE-CZ	-5.22	117.09	124.40
1	H	233	ALA	N-CA-CB	5.22	118.97	110.77
1	H	307	ILE	N-CA-CB	5.22	119.85	111.23
1	H	345	MET	CA-C-N	5.22	128.76	121.24
1	H	345	MET	C-N-CA	5.22	128.76	121.24
1	I	187	LYS	CG-CD-CE	5.22	123.31	111.30
1	I	220	SER	CA-C-O	5.22	126.81	120.81
1	K	326	ILE	CB-CA-C	-5.22	104.52	110.73
1	K	429	ASP	N-CA-CB	5.22	117.88	110.46
1	L	228	THR	CA-CB-OG1	5.22	117.43	109.60
1	L	442	ALA	CA-C-N	5.22	129.43	120.71
1	L	442	ALA	C-N-CA	5.22	129.43	120.71
1	M	135	LEU	CB-CA-C	5.22	120.26	110.70
1	N	60	ASP	CB-CG-OD2	-5.22	106.39	118.40
1	P	375	ASP	CA-CB-CG	5.22	117.82	112.60
1	C	450	GLY	N-CA-C	5.22	125.55	113.18
1	I	476	ALA	O-C-N	5.22	127.66	122.12
1	L	173	ILE	CA-C-N	5.22	128.21	120.74
1	L	173	ILE	C-N-CA	5.22	128.21	120.74
1	N	298	ALA	O-C-N	-5.22	115.65	122.59
1	N	493	VAL	CA-CB-CG2	5.22	119.28	110.40
1	P	127	ALA	CA-C-N	5.22	131.51	121.54
1	P	127	ALA	C-N-CA	5.22	131.51	121.54
1	E	405	GLN	N-CA-C	-5.22	105.48	111.07
1	E	475	GLN	N-CA-C	-5.22	104.52	112.04
1	F	441	HIS	CB-CA-C	5.22	119.15	110.90
1	H	208	LEU	CD1-CG-CD2	-5.22	99.32	110.80
1	J	291	ASP	O-C-N	5.22	129.32	122.33
1	L	33	GLU	CA-C-O	5.22	127.97	120.51
1	A	84	THR	N-CA-C	5.22	121.91	110.80
1	A	478	GLN	O-C-N	5.22	128.48	122.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	307	ILE	CA-CB-CG1	5.22	119.27	110.40
1	F	227	VAL	CA-C-N	-5.22	111.57	121.54
1	F	227	VAL	C-N-CA	-5.22	111.57	121.54
1	H	459	GLU	CG-CD-OE1	-5.22	106.40	118.40
1	L	252	ALA	CA-C-O	-5.22	112.53	119.10
1	O	173	ILE	CA-CB-CG2	5.22	119.37	110.50
1	B	48	LEU	N-CA-C	5.22	118.72	109.96
1	D	71	GLU	N-CA-C	5.22	119.55	112.04
1	E	446	ASN	CB-CG-OD1	5.22	131.23	120.80
1	F	269	ASP	CB-CA-C	5.22	123.94	112.99
1	J	148	GLU	CB-CG-CD	5.22	121.47	112.60
1	J	446	ASN	CB-CA-C	-5.22	101.98	110.85
1	L	470	LEU	N-CA-CB	5.22	117.53	110.59
1	M	429	ASP	N-CA-C	-5.22	101.92	109.59
1	N	256	ALA	N-CA-C	-5.22	105.49	111.07
1	N	329	ASP	CA-C-O	-5.22	113.05	120.51
1	N	336	GLU	N-CA-CB	5.22	119.84	111.91
1	P	70	VAL	CB-CA-C	-5.22	102.73	111.29
1	B	351	THR	CA-CB-OG1	-5.21	101.78	109.60
1	C	157	SER	O-C-N	-5.21	115.34	122.33
1	C	249	ASP	OD1-CG-OD2	-5.21	110.39	122.90
1	C	394	ARG	CD-NE-CZ	5.21	131.70	124.40
1	D	352	GLU	CA-C-N	-5.21	111.66	120.58
1	D	352	GLU	C-N-CA	-5.21	111.66	120.58
1	D	441	HIS	ND1-CE1-NE2	5.21	113.61	108.40
1	F	452	ASN	CA-C-N	5.21	127.60	120.46
1	F	452	ASN	C-N-CA	5.21	127.60	120.46
1	G	166	ALA	N-CA-C	-5.21	106.94	113.15
1	J	340	PRO	CA-N-CD	-5.21	104.70	112.00
1	K	436	LYS	CD-CE-NZ	5.21	128.59	111.90
1	L	436	LYS	O-C-N	5.21	128.09	122.15
1	M	125	GLN	CB-CG-CD	-5.21	103.73	112.60
1	M	219	VAL	CA-C-O	5.21	127.30	120.78
1	C	123	GLY	CA-C-N	5.21	127.69	120.29
1	C	123	GLY	C-N-CA	5.21	127.69	120.29
1	D	496	ALA	CA-C-O	-5.21	115.44	121.49
1	G	147	LYS	N-CA-C	5.21	117.96	111.24
1	O	455	THR	O-C-N	-5.21	115.34	122.33
1	A	356	GLU	CB-CG-CD	-5.21	103.74	112.60
1	C	186	GLY	O-C-N	-5.21	115.93	122.70
1	E	81	VAL	CB-CA-C	5.21	119.84	111.29
1	F	336	GLU	CB-CA-C	5.21	119.41	111.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	303	VAL	CA-C-O	-5.21	114.35	120.76
1	I	39	LEU	CA-C-N	-5.21	113.69	121.87
1	I	39	LEU	C-N-CA	-5.21	113.69	121.87
1	I	441	HIS	CB-CG-ND1	5.21	130.52	122.70
1	K	227	VAL	CA-CB-CG1	5.21	119.26	110.40
1	M	204	ASP	CA-CB-CG	5.21	117.81	112.60
1	M	237	CYS	CA-CB-SG	5.21	126.39	114.40
1	M	468	GLU	CB-CG-CD	5.21	121.46	112.60
1	N	372	THR	O-C-N	-5.21	115.27	122.46
1	N	423	ALA	N-CA-CB	5.21	117.63	110.07
1	O	288	LYS	O-C-N	-5.21	116.40	122.81
1	P	96	ALA	N-CA-C	5.21	117.64	111.33
1	C	341	LYS	CA-C-O	-5.21	112.98	119.18
1	C	418	ILE	O-C-N	5.21	127.04	121.10
1	F	145	GLN	CB-CG-CD	-5.21	103.74	112.60
1	G	92	GLY	CA-C-O	-5.21	112.58	119.25
1	N	10	GLU	OE1-CD-OE2	-5.21	110.40	122.90
1	B	166	ALA	O-C-N	5.21	131.72	122.34
1	C	368	VAL	CB-CA-C	5.21	119.83	111.29
1	D	165	LYS	CB-CG-CD	-5.21	99.32	111.30
1	F	111	LEU	CA-C-O	5.21	127.96	120.51
1	F	376	GLY	CA-C-N	5.21	131.49	121.54
1	F	376	GLY	C-N-CA	5.21	131.49	121.54
1	G	130	LYS	CA-C-N	5.21	128.63	120.82
1	G	130	LYS	C-N-CA	5.21	128.63	120.82
1	H	260	ASN	CB-CA-C	5.21	118.79	110.09
1	H	333	PHE	CG-CD2-CE2	5.21	129.56	120.70
1	L	183	ASP	CA-CB-CG	5.21	117.81	112.60
1	M	264	CYS	CA-C-N	-5.21	111.30	120.99
1	M	264	CYS	C-N-CA	-5.21	111.30	120.99
1	P	132	GLN	CB-CA-C	-5.21	102.00	110.85
1	A	137	THR	CA-CB-CG2	-5.21	101.65	110.50
1	H	465	GLY	CA-C-O	-5.21	111.51	120.57
1	I	204	ASP	CA-CB-CG	5.21	117.81	112.60
1	J	196	GLU	N-CA-C	5.21	117.40	110.53
1	L	322	GLU	CG-CD-OE1	-5.21	106.42	118.40
1	P	164	GLU	CA-C-N	5.21	127.52	120.44
1	P	164	GLU	C-N-CA	5.21	127.52	120.44
1	P	378	ILE	CA-CB-CG1	5.21	119.25	110.40
1	P	406	LEU	N-CA-C	5.21	121.89	110.80
1	P	441	HIS	CG-CD2-NE2	5.21	112.41	107.20
1	B	275	TYR	N-CA-C	5.21	119.91	111.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	87	LYS	N-CA-CB	5.21	119.29	110.49
1	C	325	LYS	N-CA-CB	5.21	117.65	109.69
1	F	305	THR	CA-C-O	-5.21	114.98	120.55
1	H	352	GLU	O-C-N	-5.21	115.28	122.46
1	J	240	GLU	N-CA-C	5.21	117.10	108.20
1	O	415	LEU	CA-C-N	5.21	131.13	122.54
1	O	415	LEU	C-N-CA	5.21	131.13	122.54
1	A	129	GLN	CG-CD-NE2	-5.20	108.59	116.40
1	C	58	THR	CA-C-N	5.20	131.40	122.09
1	C	58	THR	C-N-CA	5.20	131.40	122.09
1	H	145	GLN	CB-CG-CD	-5.20	103.75	112.60
1	H	207	GLU	O-C-N	-5.20	117.01	123.36
1	I	15	TYR	CA-C-O	-5.20	115.19	120.71
1	K	204	ASP	N-CA-CB	5.20	117.94	110.40
1	K	253	GLU	CB-CA-C	5.20	119.53	110.79
1	K	433	ILE	CA-CB-CG2	-5.20	101.65	110.50
1	L	9	PRO	N-CA-CB	-5.20	96.55	103.42
1	L	138	ILE	CA-CB-CG1	-5.20	101.55	110.40
1	O	60	ASP	OD1-CG-OD2	-5.20	110.41	122.90
1	O	309	ASP	N-CA-C	5.20	119.48	113.18
1	O	472	VAL	CA-C-O	-5.20	115.14	121.18
1	G	362	VAL	CA-CB-CG2	5.20	119.24	110.40
1	G	390	SER	CB-CA-C	-5.20	102.89	110.95
1	H	351	THR	CA-C-O	5.20	126.26	120.80
1	J	474	THR	CA-CB-CG2	5.20	119.34	110.50
1	N	374	GLU	CA-C-N	5.20	130.66	123.07
1	N	374	GLU	C-N-CA	5.20	130.66	123.07
1	P	305	THR	CA-CB-OG1	5.20	117.40	109.60
1	A	69	SER	O-C-N	-5.20	115.67	122.59
1	D	322	GLU	CA-C-N	5.20	130.05	122.41
1	D	322	GLU	C-N-CA	5.20	130.05	122.41
1	D	396	TYR	CG-CD1-CE1	-5.20	113.40	121.20
1	D	425	ASN	CB-CG-OD1	5.20	131.20	120.80
1	E	333	PHE	CA-C-O	-5.20	115.28	121.16
1	J	431	ILE	CA-C-O	-5.20	114.28	120.78
1	K	11	ASN	CA-C-O	-5.20	113.07	120.51
1	K	442	ALA	CB-CA-C	-5.20	100.74	110.36
1	L	275	TYR	CB-CG-CD1	-5.20	113.00	120.80
1	M	41	PRO	CA-C-N	5.20	130.97	122.65
1	M	41	PRO	C-N-CA	5.20	130.97	122.65
1	N	106	LYS	N-CA-CB	-5.20	101.92	110.40
1	N	181	VAL	N-CA-CB	5.20	119.81	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	278	LYS	N-CA-C	5.20	119.34	112.89
1	B	345	MET	N-CA-CB	-5.20	102.40	110.87
1	B	414	ALA	CA-C-O	-5.20	113.66	119.79
1	E	286	ARG	CA-C-N	5.20	131.33	121.97
1	E	286	ARG	C-N-CA	5.20	131.33	121.97
1	F	360	ARG	CA-C-N	5.20	129.40	120.72
1	F	360	ARG	C-N-CA	5.20	129.40	120.72
1	J	271	LEU	CB-CA-C	5.20	119.37	110.74
1	J	440	ALA	CA-C-O	-5.20	113.66	119.79
1	L	46	LYS	N-CA-C	5.20	117.90	109.06
1	N	62	VAL	O-C-N	-5.20	116.07	122.57
1	N	357	GLU	CA-C-N	-5.20	112.61	121.97
1	N	357	GLU	C-N-CA	-5.20	112.61	121.97
1	P	62	VAL	CA-C-O	-5.20	114.28	120.78
1	C	33	GLU	O-C-N	5.20	127.63	122.12
1	D	345	MET	O-C-N	-5.20	115.06	122.96
1	F	473	LYS	CB-CG-CD	5.20	123.25	111.30
1	H	202	SER	CA-CB-OG	5.20	121.50	111.10
1	J	278	LYS	CB-CA-C	5.20	119.18	110.92
1	L	399	GLY	O-C-N	5.20	129.46	122.70
1	O	313	GLN	O-C-N	-5.20	114.98	122.36
1	B	125	GLN	CB-CG-CD	5.20	121.43	112.60
1	C	242	THR	CA-C-O	-5.20	114.55	120.58
1	E	169	LYS	CB-CG-CD	5.20	123.25	111.30
1	F	296	ALA	CA-C-N	5.20	131.62	122.42
1	F	296	ALA	C-N-CA	5.20	131.62	122.42
1	G	24	ASN	CA-CB-CG	-5.20	107.40	112.60
1	H	288	LYS	CB-CA-C	5.20	118.83	109.64
1	J	225	LYS	CG-CD-CE	5.20	123.25	111.30
1	K	115	VAL	CA-CB-CG2	5.20	119.23	110.40
1	L	210	LYS	O-C-N	-5.20	115.68	122.59
1	M	78	LEU	CA-C-N	5.20	127.58	120.77
1	M	78	LEU	C-N-CA	5.20	127.58	120.77
1	M	261	VAL	N-CA-CB	5.20	120.00	111.58
1	M	284	ALA	CA-C-N	5.20	130.02	121.39
1	M	284	ALA	C-N-CA	5.20	130.02	121.39
1	O	363	ASP	N-CA-C	5.20	119.89	111.37
1	O	414	ALA	N-CA-C	-5.20	106.94	113.28
1	P	401	SER	N-CA-C	5.20	121.87	110.80
1	B	104	LEU	N-CA-CB	-5.19	102.44	110.13
1	G	485	GLU	CB-CA-C	5.19	119.03	110.88
1	H	29	ARG	N-CA-C	-5.19	104.56	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	115	VAL	O-C-N	-5.19	117.10	122.66
1	K	313	GLN	CG-CD-OE1	5.19	131.19	120.80
1	M	133	GLU	CA-C-O	5.19	125.75	119.31
1	A	15	TYR	CA-C-O	-5.19	113.08	120.51
1	A	263	PHE	CA-CB-CG	5.19	118.99	113.80
1	B	97	VAL	CA-CB-CG2	-5.19	101.57	110.40
1	C	19	ASP	CA-C-O	-5.19	114.23	120.10
1	D	272	ALA	O-C-N	-5.19	116.63	122.03
1	F	138	ILE	CA-C-N	-5.19	113.00	121.26
1	F	138	ILE	C-N-CA	-5.19	113.00	121.26
1	F	259	ALA	CA-C-O	-5.19	114.78	120.70
1	I	76	LYS	O-C-N	5.19	129.78	122.41
1	J	201	ALA	N-CA-C	5.19	121.86	110.80
1	K	127	ALA	N-CA-C	5.19	119.33	112.89
1	K	289	LYS	N-CA-C	5.19	121.86	110.80
1	L	149	ILE	CA-C-O	-5.19	113.00	119.70
1	P	228	THR	N-CA-C	-5.19	99.74	110.80
1	B	284	ALA	N-CA-C	5.19	117.19	108.73
1	C	52	LEU	CB-CG-CD2	5.19	126.27	110.70
1	C	290	SER	CA-CB-OG	5.19	121.48	111.10
1	E	187	LYS	CB-CA-C	5.19	120.75	110.42
1	E	300	GLY	CA-C-O	5.19	129.60	120.57
1	F	33	GLU	O-C-N	-5.19	116.62	122.12
1	J	403	ARG	CG-CD-NE	5.19	123.42	112.00
1	L	386	GLU	CB-CA-C	-5.19	102.07	110.79
1	M	243	ALA	CB-CA-C	5.19	120.75	110.42
1	N	315	LEU	O-C-N	-5.19	116.94	123.27
1	E	230	ALA	N-CA-C	5.19	117.94	109.59
1	F	394	ARG	N-CA-C	-5.19	105.53	111.14
1	J	411	PHE	N-CA-CB	5.19	118.61	110.46
1	L	72	HIS	O-C-N	-5.19	113.08	121.59
1	M	320	LEU	CB-CG-CD1	5.19	126.27	110.70
1	M	389	LEU	CD1-CG-CD2	5.19	122.22	110.80
1	A	385	THR	CA-C-O	-5.19	115.00	120.55
1	C	164	GLU	CA-C-O	-5.19	113.09	120.51
1	E	195	ILE	N-CA-CB	-5.19	102.67	111.23
1	E	261	VAL	CB-CA-C	-5.19	101.52	110.65
1	E	411	PHE	N-CA-C	-5.19	106.64	113.17
1	G	62	VAL	CA-CB-CG1	5.19	119.22	110.40
1	K	294	LYS	CG-CD-CE	5.19	123.23	111.30
1	N	215	ASP	O-C-N	-5.19	115.96	122.24
1	N	243	ALA	N-CA-C	5.19	121.85	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	306	ASN	O-C-N	5.19	128.75	122.94
1	C	446	ASN	CA-C-O	-5.19	113.09	120.51
1	D	12	MET	N-CA-C	5.19	117.86	110.24
1	D	460	ASP	O-C-N	5.19	129.53	122.48
1	F	119	ILE	CB-CA-C	-5.19	105.68	111.80
1	F	303	VAL	CA-CB-CG1	5.19	119.22	110.40
1	F	390	SER	CB-CA-C	-5.19	102.67	110.92
1	F	437	VAL	N-CA-CB	5.19	116.51	110.65
1	J	291	ASP	CB-CA-C	5.19	120.96	110.38
1	K	256	ALA	N-CA-C	-5.19	105.07	111.40
1	K	285	ARG	CA-C-N	5.19	134.15	125.02
1	K	285	ARG	C-N-CA	5.19	134.15	125.02
1	P	88	GLU	OE1-CD-OE2	5.19	135.35	122.90
1	A	183	ASP	CB-CG-OD2	-5.18	106.47	118.40
1	A	237	CYS	CA-CB-SG	5.18	126.32	114.40
1	A	365	ALA	CB-CA-C	5.18	120.74	110.42
1	B	50	ASP	CB-CG-OD1	5.18	130.32	118.40
1	B	149	ILE	CB-CA-C	5.18	120.66	112.26
1	B	220	SER	CA-C-N	5.18	127.54	120.54
1	B	220	SER	C-N-CA	5.18	127.54	120.54
1	C	124	TYR	CB-CG-CD2	5.18	128.58	120.80
1	C	428	LEU	CB-CA-C	-5.18	100.05	109.38
1	F	266	LYS	CB-CA-C	5.18	120.74	110.42
1	F	332	ILE	CA-C-N	-5.18	113.80	122.92
1	F	332	ILE	C-N-CA	-5.18	113.80	122.92
1	G	116	HIS	CB-CA-C	5.18	120.39	110.17
1	H	38	THR	CA-CB-OG1	5.18	117.38	109.60
1	I	290	SER	N-CA-C	5.18	117.33	111.11
1	J	182	VAL	CG1-CB-CG2	-5.18	99.39	110.80
1	K	29	ARG	CB-CA-C	-5.18	99.81	110.38
1	M	327	SER	CB-CA-C	-5.18	103.35	111.39
1	N	33	GLU	CG-CD-OE1	5.18	130.32	118.40
1	O	416	GLU	N-CA-CB	5.18	118.16	110.49
1	P	358	VAL	N-CA-C	5.18	120.12	109.34
1	P	477	ILE	CB-CA-C	-5.18	104.34	111.65
1	E	452	ASN	N-CA-CB	5.18	117.78	109.28
1	F	33	GLU	N-CA-CB	-5.18	102.50	110.12
1	I	398	GLU	CG-CD-OE1	5.18	130.32	118.40
1	K	240	GLU	N-CA-C	5.18	117.11	107.99
1	L	286	ARG	CA-CB-CG	5.18	124.46	114.10
1	M	463	GLU	CA-C-N	5.18	131.44	121.54
1	M	463	GLU	C-N-CA	5.18	131.44	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	485	GLU	N-CA-C	5.18	119.88	113.50
1	O	405	GLN	CG-CD-NE2	5.18	124.17	116.40
1	H	419	PRO	N-CA-CB	5.18	108.48	103.51
1	O	303	VAL	CB-CA-C	5.18	116.83	111.23
1	P	149	ILE	CA-CB-CG1	5.18	119.21	110.40
1	C	335	GLU	N-CA-CB	-5.18	101.74	110.49
1	D	269	ASP	CA-CB-CG	5.18	117.78	112.60
1	G	348	ARG	NE-CZ-NH2	-5.18	114.54	119.20
1	H	340	PRO	CA-C-N	5.18	127.74	120.28
1	H	340	PRO	C-N-CA	5.18	127.74	120.28
1	I	275	TYR	CD1-CE1-CZ	-5.18	110.28	119.60
1	I	379	VAL	N-CA-CB	5.18	118.42	112.15
1	J	188	VAL	N-CA-CB	5.18	118.37	111.64
1	J	411	PHE	CE1-CZ-CE2	-5.18	110.68	120.00
1	M	12	MET	N-CA-CB	-5.18	101.74	110.49
1	M	304	ILE	CA-CB-CG2	5.18	119.31	110.50
1	M	467	VAL	CA-C-O	-5.18	116.27	121.45
1	O	174	ILE	CB-CA-C	-5.18	105.15	112.14
1	O	388	GLU	CG-CD-OE1	5.18	130.31	118.40
1	P	76	LYS	CA-C-O	5.18	125.66	119.60
1	A	374	GLU	N-CA-C	5.18	121.83	110.80
1	G	289	LYS	CA-C-N	5.18	131.43	121.54
1	G	289	LYS	C-N-CA	5.18	131.43	121.54
1	I	276	LEU	CA-CB-CG	5.18	134.42	116.30
1	K	354	VAL	N-CA-C	5.18	119.35	111.89
1	L	237	CYS	CB-CA-C	5.18	119.07	109.54
1	N	198	LYS	CG-CD-CE	5.18	123.21	111.30
1	P	47	MET	CA-CB-CG	5.18	124.46	114.10
1	P	129	GLN	CB-CA-C	5.18	120.72	110.42
1	A	444	ASN	CB-CG-ND2	-5.18	108.64	116.40
1	H	183	ASP	CA-C-O	5.18	126.82	120.92
1	J	423	ALA	CA-C-N	5.18	127.94	120.38
1	J	423	ALA	C-N-CA	5.18	127.94	120.38
1	K	67	GLU	CB-CA-C	-5.18	102.09	110.79
1	K	323	GLU	CG-CD-OE1	5.18	130.31	118.40
1	M	274	HIS	CB-CG-ND1	-5.18	114.93	122.70
1	N	388	GLU	N-CA-CB	5.18	117.79	110.13
1	P	12	MET	N-CA-C	5.18	118.53	111.39
1	C	55	VAL	CB-CA-C	5.17	118.54	110.83
1	C	381	GLY	O-C-N	-5.17	115.97	122.70
1	D	116	HIS	CA-C-O	5.17	127.25	120.16
1	E	335	GLU	CG-CD-OE1	5.17	130.30	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	457	ALA	O-C-N	5.17	129.47	122.59
1	G	38	THR	CB-CA-C	-5.17	99.05	109.55
1	H	102	GLU	CA-C-O	-5.17	115.06	120.55
1	H	334	VAL	N-CA-C	5.17	120.10	109.34
1	J	324	ARG	O-C-N	5.17	129.40	123.29
1	L	133	GLU	CB-CA-C	5.17	120.61	110.67
1	L	396	TYR	CG-CD1-CE1	-5.17	113.44	121.20
1	M	274	HIS	O-C-N	-5.17	115.91	122.27
1	M	280	GLY	CA-C-N	5.17	128.95	122.43
1	M	280	GLY	C-N-CA	5.17	128.95	122.43
1	M	497	GLU	CB-CA-C	-5.17	100.27	110.10
1	O	431	ILE	CB-CG1-CD1	5.17	124.67	113.80
1	P	254	ILE	CB-CA-C	-5.17	105.08	112.22
1	A	87	LYS	CG-CD-CE	5.17	123.20	111.30
1	F	157	SER	CB-CA-C	5.17	119.48	110.79
1	L	119	ILE	CA-C-N	5.17	131.28	121.97
1	L	119	ILE	C-N-CA	5.17	131.28	121.97
1	L	360	ARG	O-C-N	5.17	129.26	122.33
1	E	278	LYS	N-CA-C	5.17	121.82	110.80
1	E	480	ALA	CA-C-N	5.17	127.21	120.28
1	E	480	ALA	C-N-CA	5.17	127.21	120.28
1	G	63	THR	OG1-CB-CG2	-5.17	98.95	109.30
1	H	351	THR	CA-CB-OG1	5.17	117.36	109.60
1	H	393	LEU	CB-CA-C	5.17	120.60	110.67
1	I	226	LYS	CA-C-O	5.17	127.91	120.51
1	K	230	ALA	N-CA-C	5.17	118.17	109.95
1	K	272	ALA	CA-C-O	-5.17	114.94	120.42
1	O	14	ARG	O-C-N	5.17	129.95	123.23
1	O	128	ALA	CA-C-O	5.17	125.25	119.41
1	P	79	ILE	CA-C-N	5.17	131.42	121.54
1	P	79	ILE	C-N-CA	5.17	131.42	121.54
1	A	67	GLU	CA-CB-CG	-5.17	103.76	114.10
1	B	228	THR	CB-CA-C	5.17	120.71	110.42
1	B	443	SER	CB-CA-C	5.17	117.41	109.03
1	H	55	VAL	O-C-N	-5.17	117.68	123.26
1	A	219	VAL	CA-C-O	5.17	127.24	120.78
1	B	45	ASP	CB-CG-OD2	-5.17	106.51	118.40
1	C	473	LYS	CA-CB-CG	5.17	124.44	114.10
1	G	144	ALA	N-CA-CB	5.17	117.68	109.82
1	H	290	SER	CB-CA-C	5.17	119.47	110.68
1	H	460	ASP	CB-CA-C	-5.17	104.42	112.07
1	K	182	VAL	CB-CA-C	-5.17	105.65	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	337	CYS	CA-C-N	5.17	127.16	120.44
1	K	337	CYS	C-N-CA	5.17	127.16	120.44
1	L	86	GLU	N-CA-CB	5.17	117.72	110.12
1	L	454	PHE	CA-CB-CG	5.17	118.97	113.80
1	M	432	GLU	CA-C-O	-5.17	115.38	120.70
1	O	400	ILE	O-C-N	-5.17	116.11	122.57
1	O	482	GLU	CB-CG-CD	5.17	121.39	112.60
1	P	428	LEU	CD1-CG-CD2	-5.17	99.43	110.80
1	C	245	GLU	CA-C-N	5.17	131.41	121.54
1	C	245	GLU	C-N-CA	5.17	131.41	121.54
1	C	456	GLY	N-CA-C	5.17	125.42	113.18
1	G	114	ASN	CA-CB-CG	5.17	117.77	112.60
1	H	362	VAL	CB-CA-C	5.17	119.76	111.29
1	I	239	ILE	CA-CB-CG1	5.17	119.18	110.40
1	L	261	VAL	N-CA-C	-5.17	101.19	108.27
1	N	385	THR	CA-C-O	-5.17	112.50	119.11
1	O	365	ALA	CA-C-O	-5.17	115.13	120.92
1	P	479	SER	CA-C-O	-5.17	113.24	119.49
1	A	82	ALA	CA-C-N	5.17	131.41	121.54
1	A	82	ALA	C-N-CA	5.17	131.41	121.54
1	B	165	LYS	CG-CD-CE	5.17	123.18	111.30
1	E	438	ARG	NE-CZ-NH1	5.17	126.67	121.50
1	F	109	GLU	OE1-CD-OE2	5.17	135.30	122.90
1	H	236	ASN	O-C-N	-5.17	114.69	122.28
1	I	179	SER	N-CA-C	-5.17	106.95	113.20
1	J	385	THR	CA-C-O	5.17	125.89	120.42
1	D	124	TYR	N-CA-CB	-5.16	101.76	110.49
1	D	189	ASP	CB-CA-C	5.16	119.93	111.41
1	D	299	THR	N-CA-CB	5.16	119.22	110.49
1	H	76	LYS	CB-CG-CD	5.16	123.17	111.30
1	H	288	LYS	N-CA-CB	5.16	118.18	109.92
1	H	463	GLU	CB-CA-C	5.16	120.48	110.46
1	J	22	ARG	NE-CZ-NH1	5.16	126.66	121.50
1	L	131	ALA	N-CA-CB	5.16	117.71	110.12
1	O	239	ILE	N-CA-CB	5.16	119.75	111.23
1	O	390	SER	CA-C-O	-5.16	113.13	120.51
1	O	475	GLN	CA-C-O	5.16	126.39	120.71
1	C	66	ARG	CA-CB-CG	-5.16	103.78	114.10
1	D	249	ASP	CA-C-N	5.16	129.41	120.58
1	D	249	ASP	C-N-CA	5.16	129.41	120.58
1	E	69	SER	O-C-N	-5.16	115.72	122.59
1	E	321	VAL	CA-CB-CG1	5.16	119.17	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	103	LEU	N-CA-C	-5.16	106.95	113.20
1	O	425	ASN	CA-C-N	5.16	131.40	121.54
1	O	425	ASN	C-N-CA	5.16	131.40	121.54
1	A	353	HIS	CG-ND1-CE1	5.16	118.07	109.30
1	B	428	LEU	CA-C-O	-5.16	115.87	121.44
1	E	405	GLN	CB-CA-C	-5.16	102.78	110.88
1	F	187	LYS	O-C-N	-5.16	115.73	122.59
1	F	490	ILE	N-CA-CB	5.16	119.74	111.23
1	G	164	GLU	CA-C-O	-5.16	113.13	120.51
1	I	318	ALA	N-CA-CB	-5.16	102.08	110.59
1	K	36	ARG	CA-CB-CG	5.16	124.42	114.10
1	K	335	GLU	N-CA-C	5.16	118.16	109.95
1	L	298	ALA	CB-CA-C	5.16	120.69	110.42
1	L	490	ILE	O-C-N	-5.16	116.63	122.72
1	M	404	GLU	CA-C-O	-5.16	112.34	119.05
1	N	286	ARG	O-C-N	5.16	131.86	122.11
1	O	139	ALA	CA-C-O	-5.16	113.13	120.51
1	O	461	MET	CA-C-N	5.16	127.62	120.29
1	O	461	MET	C-N-CA	5.16	127.62	120.29
1	B	47	MET	CA-CB-CG	5.16	124.42	114.10
1	B	491	ASP	O-C-N	-5.16	115.70	122.20
1	C	301	ALA	CA-C-N	-5.16	115.28	123.12
1	C	301	ALA	C-N-CA	-5.16	115.28	123.12
1	D	55	VAL	N-CA-CB	5.16	118.53	111.41
1	I	155	MET	CA-C-O	5.16	126.20	120.63
1	I	329	ASP	CB-CA-C	5.16	120.69	110.42
1	I	337	CYS	CA-C-N	5.16	129.32	120.71
1	I	337	CYS	C-N-CA	5.16	129.32	120.71
1	I	489	ARG	CA-C-O	-5.16	113.14	120.51
1	P	52	LEU	N-CA-C	5.16	117.64	111.71
1	F	205	ASP	CB-CA-C	5.16	120.68	110.42
1	G	206	THR	CA-C-N	5.16	132.00	122.92
1	G	206	THR	C-N-CA	5.16	132.00	122.92
1	I	14	ARG	CA-CB-CG	5.16	124.41	114.10
1	J	229	ASP	CA-C-O	-5.16	114.77	120.70
1	J	331	MET	O-C-N	-5.16	116.90	123.24
1	O	235	LEU	N-CA-CB	5.16	118.69	110.65
1	A	349	GLY	CA-C-O	-5.16	111.60	120.57
1	B	69	SER	CA-C-O	5.16	127.88	120.51
1	F	117	PRO	CA-CB-CG	5.16	114.30	104.50
1	F	332	ILE	CA-C-O	-5.16	114.88	120.71
1	G	71	GLU	CG-CD-OE1	-5.16	106.54	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	493	VAL	N-CA-C	5.16	115.40	107.77
1	K	339	HIS	CE1-NE2-CD2	5.16	114.16	109.00
1	K	477	ILE	CA-C-N	-5.16	110.66	121.64
1	K	477	ILE	C-N-CA	-5.16	110.66	121.64
1	L	431	ILE	CB-CA-C	5.16	118.79	112.04
1	M	42	LYS	O-C-N	5.16	128.53	122.34
1	M	355	ILE	CA-CB-CG2	-5.16	101.74	110.50
1	N	207	GLU	CA-C-O	-5.16	115.32	121.56
1	P	110	LEU	CA-C-O	-5.16	113.14	120.51
1	B	59	ASN	CB-CG-ND2	5.15	124.13	116.40
1	C	259	ALA	N-CA-C	5.15	117.17	109.59
1	C	488	LEU	CA-C-O	-5.15	115.09	120.55
1	I	214	VAL	CA-C-O	5.15	127.22	120.78
1	I	385	THR	N-CA-C	5.15	117.57	111.33
1	K	83	LYS	CA-C-N	5.15	127.19	120.28
1	K	83	LYS	C-N-CA	5.15	127.19	120.28
1	O	261	VAL	O-C-N	5.15	128.96	123.03
1	O	464	ASN	CB-CA-C	-5.15	100.73	110.01
1	B	27	ALA	O-C-N	5.15	128.97	122.37
1	B	282	VAL	N-CA-CB	5.15	120.53	110.95
1	C	185	GLU	CB-CG-CD	5.15	121.36	112.60
1	D	236	ASN	N-CA-C	-5.15	107.37	113.97
1	E	125	GLN	CB-CG-CD	5.15	121.36	112.60
1	E	363	ASP	CA-C-O	5.15	126.01	120.70
1	F	482	GLU	CB-CA-C	5.15	121.08	110.31
1	G	11	ASN	N-CA-C	5.15	121.77	110.80
1	G	83	LYS	CA-C-N	5.15	129.39	120.58
1	G	83	LYS	C-N-CA	5.15	129.39	120.58
1	H	39	LEU	CB-CA-C	5.15	118.46	109.65
1	I	110	LEU	CA-C-O	-5.15	115.59	120.90
1	J	272	ALA	N-CA-CB	5.15	117.54	110.07
1	L	144	ALA	CA-C-O	5.15	125.63	119.60
1	L	255	LYS	N-CA-C	-5.15	106.97	113.20
1	M	55	VAL	O-C-N	-5.15	117.82	123.18
1	N	100	ALA	N-CA-C	-5.15	107.12	113.41
1	O	56	VAL	CA-C-N	5.15	128.92	122.43
1	O	56	VAL	C-N-CA	5.15	128.92	122.43
1	A	80	GLU	N-CA-C	5.15	119.04	112.34
1	A	393	LEU	N-CA-C	-5.15	107.05	113.38
1	B	93	THR	CA-CB-OG1	5.15	117.33	109.60
1	I	24	ASN	N-CA-CB	-5.15	102.41	110.44
1	I	55	VAL	CA-CB-CG2	-5.15	101.64	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	11	ASN	CB-CG-OD1	-5.15	110.50	120.80
1	J	87	LYS	N-CA-CB	5.15	119.19	110.49
1	J	269	ASP	N-CA-CB	5.15	119.20	110.49
1	K	173	ILE	CA-C-N	5.15	127.15	120.56
1	K	173	ILE	C-N-CA	5.15	127.15	120.56
1	L	7	VAL	O-C-N	-5.15	114.76	123.00
1	M	48	LEU	N-CA-C	5.15	117.18	110.43
1	N	109	GLU	CB-CG-CD	-5.15	103.84	112.60
1	N	315	LEU	N-CA-C	5.15	117.84	109.24
1	B	114	ASN	O-C-N	5.15	129.44	122.59
1	D	33	GLU	OE1-CD-OE2	-5.15	110.54	122.90
1	D	157	SER	N-CA-CB	5.15	118.22	110.65
1	G	311	SER	N-CA-CB	5.15	119.19	110.49
1	A	130	LYS	N-CA-CB	5.15	118.23	110.30
1	D	388	GLU	CB-CA-C	5.15	119.60	110.85
1	E	306	ASN	CB-CA-C	5.15	120.24	110.51
1	I	87	LYS	CA-C-N	5.15	131.37	121.54
1	I	87	LYS	C-N-CA	5.15	131.37	121.54
1	L	190	LYS	N-CA-CB	-5.15	102.51	110.13
1	L	350	THR	O-C-N	-5.15	115.74	122.59
1	P	249	ASP	N-CA-CB	5.15	119.19	110.49
1	C	119	ILE	N-CA-CB	-5.15	100.88	110.40
1	C	216	LYS	CB-CA-C	5.15	118.62	109.72
1	D	64	ILE	CB-CG1-CD1	5.15	124.61	113.80
1	D	356	GLU	CA-C-N	5.15	129.38	120.58
1	D	356	GLU	C-N-CA	5.15	129.38	120.58
1	F	215	ASP	CB-CA-C	5.15	120.66	110.42
1	F	259	ALA	CB-CA-C	-5.15	102.37	111.22
1	K	212	VAL	O-C-N	-5.15	117.51	123.07
1	O	228	THR	O-C-N	-5.15	115.75	122.59
1	A	449	ALA	CA-C-N	-5.14	114.63	122.04
1	A	449	ALA	C-N-CA	-5.14	114.63	122.04
1	B	185	GLU	N-CA-C	5.14	121.76	110.80
1	D	363	ASP	CB-CG-OD1	5.14	130.23	118.40
1	E	452	ASN	N-CA-C	-5.14	102.58	110.30
1	G	17	GLY	O-C-N	-5.14	117.01	122.67
1	H	373	ILE	CA-C-N	5.14	130.72	121.66
1	H	373	ILE	C-N-CA	5.14	130.72	121.66
1	J	344	THR	CA-CB-OG1	-5.14	101.88	109.60
1	J	431	ILE	CA-C-N	-5.14	113.36	122.26
1	J	431	ILE	C-N-CA	-5.14	113.36	122.26
1	J	431	ILE	N-CA-C	5.14	120.04	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	458	VAL	CA-CB-CG2	5.14	119.15	110.40
1	K	296	ALA	N-CA-C	5.14	121.76	110.80
1	L	459	GLU	OE1-CD-OE2	5.14	135.25	122.90
1	M	169	LYS	N-CA-CB	-5.14	102.61	110.33
1	N	474	THR	OG1-CB-CG2	5.14	119.59	109.30
1	O	222	GLN	OE1-CD-NE2	-5.14	117.46	122.60
1	A	314	ASP	OD1-CG-OD2	-5.14	110.56	122.90
1	D	431	ILE	CB-CG1-CD1	5.14	124.60	113.80
1	E	105	ARG	N-CA-C	5.14	116.97	111.36
1	F	339	HIS	CA-C-N	-5.14	113.41	119.84
1	F	339	HIS	C-N-CA	-5.14	113.41	119.84
1	G	137	THR	CA-CB-OG1	5.14	117.31	109.60
1	H	192	LEU	CA-C-N	5.14	131.23	121.97
1	H	192	LEU	C-N-CA	5.14	131.23	121.97
1	H	258	GLY	CA-C-O	-5.14	111.62	120.57
1	I	241	GLU	CG-CD-OE2	-5.14	106.57	118.40
1	I	384	SER	CA-C-N	5.14	127.42	120.38
1	I	384	SER	C-N-CA	5.14	127.42	120.38
1	O	263	PHE	O-C-N	-5.14	117.30	123.27
1	P	195	ILE	CB-CG1-CD1	5.14	124.60	113.80
1	A	14	ARG	NH1-CZ-NH2	5.14	125.98	119.30
1	A	172	GLU	OE1-CD-OE2	-5.14	110.56	122.90
1	C	321	VAL	CB-CA-C	5.14	116.80	111.09
1	D	430	ALA	CA-C-O	-5.14	113.58	119.60
1	E	286	ARG	O-C-N	5.14	129.43	122.59
1	G	429	ASP	CB-CA-C	5.14	120.65	110.42
1	I	29	ARG	CA-C-N	-5.14	112.33	120.55
1	I	29	ARG	C-N-CA	-5.14	112.33	120.55
1	I	78	LEU	CB-CA-C	5.14	117.71	109.07
1	M	255	LYS	O-C-N	-5.14	115.75	122.59
1	D	174	ILE	CB-CA-C	-5.14	105.35	112.24
1	G	389	LEU	CB-CA-C	-5.14	101.12	110.63
1	H	22	ARG	CA-C-O	5.14	125.99	120.70
1	H	112	ASP	CA-C-O	-5.14	113.72	119.79
1	K	138	ILE	CA-C-N	-5.14	115.21	122.46
1	K	138	ILE	C-N-CA	-5.14	115.21	122.46
1	L	460	ASP	CB-CG-OD2	5.14	130.22	118.40
1	O	434	LEU	O-C-N	-5.14	115.75	122.59
1	P	30	ILE	CA-CB-CG1	5.14	119.14	110.40
1	B	134	LEU	CB-CA-C	5.14	119.82	110.11
1	G	155	MET	N-CA-CB	5.14	119.17	110.49
1	O	285	ARG	NE-CZ-NH2	5.14	123.82	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	36	ARG	O-C-N	5.14	128.02	122.11
1	C	190	LYS	N-CA-C	5.14	121.74	110.80
1	C	438	ARG	NH1-CZ-NH2	-5.14	112.62	119.30
1	C	482	GLU	OE1-CD-OE2	-5.14	110.57	122.90
1	E	114	ASN	CB-CA-C	5.14	117.46	110.06
1	E	440	ALA	N-CA-C	5.14	119.26	112.89
1	H	45	ASP	CB-CG-OD1	5.14	130.21	118.40
1	J	220	SER	N-CA-C	-5.14	101.03	109.40
1	M	336	GLU	CB-CA-C	5.14	120.64	110.42
1	M	360	ARG	CD-NE-CZ	5.14	131.59	124.40
1	O	292	MET	CA-C-O	-5.14	114.34	120.56
1	P	141	GLU	CB-CG-CD	5.14	121.33	112.60
1	P	385	THR	CA-CB-CG2	5.14	119.23	110.50
1	A	295	LEU	N-CA-CB	5.13	118.21	110.30
1	E	331	MET	CA-C-N	-5.13	115.75	122.37
1	E	331	MET	C-N-CA	-5.13	115.75	122.37
1	E	464	ASN	CA-CB-CG	-5.13	107.47	112.60
1	F	125	GLN	CG-CD-OE1	5.13	131.07	120.80
1	I	132	GLN	N-CA-C	5.13	121.74	110.80
1	I	294	LYS	N-CA-C	5.13	119.00	111.04
1	I	393	LEU	CA-C-O	5.13	125.29	119.18
1	N	298	ALA	N-CA-CB	5.13	119.17	110.49
1	N	432	GLU	CB-CA-C	5.13	118.87	110.96
1	B	67	GLU	CA-CB-CG	-5.13	103.83	114.10
1	F	306	ASN	CB-CG-OD1	5.13	131.07	120.80
1	M	128	ALA	CA-C-O	5.13	126.28	120.89
1	M	286	ARG	NE-CZ-NH2	5.13	123.82	119.20
1	P	98	VAL	CB-CA-C	-5.13	105.13	111.70
1	B	404	GLU	CA-C-N	5.13	127.92	120.79
1	B	404	GLU	C-N-CA	5.13	127.92	120.79
1	B	416	GLU	CA-C-O	5.13	125.69	119.38
1	B	471	ARG	CB-CA-C	-5.13	102.39	110.86
1	C	204	ASP	N-CA-CB	5.13	118.41	110.81
1	D	153	ILE	CB-CG1-CD1	-5.13	103.02	113.80
1	G	138	ILE	CA-CB-CG1	-5.13	101.68	110.40
1	G	232	ILE	O-C-N	-5.13	116.28	122.59
1	G	232	ILE	CB-CG1-CD1	5.13	124.58	113.80
1	J	188	VAL	CG1-CB-CG2	-5.13	99.51	110.80
1	K	257	SER	N-CA-C	5.13	121.73	110.80
1	O	281	ILE	CA-CB-CG1	5.13	119.12	110.40
1	O	340	PRO	N-CA-CB	5.13	105.79	102.92
1	P	438	ARG	CB-CA-C	-5.13	102.76	110.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	168	GLU	OE1-CD-OE2	5.13	135.21	122.90
1	B	93	THR	CA-C-O	-5.13	115.61	121.00
1	B	372	THR	CA-CB-OG1	-5.13	101.91	109.60
1	C	130	LYS	CD-CE-NZ	5.13	128.32	111.90
1	E	388	GLU	CB-CA-C	5.13	119.95	110.56
1	H	313	GLN	CB-CA-C	5.13	118.90	110.95
1	I	10	GLU	N-CA-CB	5.13	119.16	110.49
1	N	170	LEU	O-C-N	-5.13	115.56	122.43
1	A	145	GLN	CG-CD-OE1	-5.13	110.54	120.80
1	A	374	GLU	CB-CG-CD	5.13	121.32	112.60
1	B	178	VAL	CB-CA-C	5.13	118.88	111.65
1	F	297	LYS	CA-CB-CG	5.13	124.36	114.10
1	F	343	VAL	CA-C-O	-5.13	114.93	120.67
1	F	464	ASN	N-CA-C	5.13	121.73	110.80
1	H	37	SER	CA-C-O	-5.13	110.08	119.36
1	H	368	VAL	CA-C-O	-5.13	114.37	120.78
1	I	315	LEU	CA-C-N	5.13	128.97	122.77
1	I	315	LEU	C-N-CA	5.13	128.97	122.77
1	J	147	LYS	N-CA-CB	5.13	117.40	109.91
1	K	99	VAL	N-CA-C	-5.13	106.09	113.07
1	K	324	ARG	NE-CZ-NH2	5.13	123.82	119.20
1	M	307	ILE	CA-CB-CG1	5.13	119.12	110.40
1	A	43	GLY	CA-C-N	5.13	131.33	121.54
1	A	43	GLY	C-N-CA	5.13	131.33	121.54
1	C	146	ASP	N-CA-C	5.13	117.13	109.59
1	D	151	THR	N-CA-C	5.13	118.31	111.75
1	E	57	VAL	N-CA-CB	-5.13	104.33	111.41
1	H	95	THR	CA-C-N	5.13	128.51	120.82
1	H	95	THR	C-N-CA	5.13	128.51	120.82
1	I	326	ILE	CA-CB-CG2	5.13	119.21	110.50
1	I	401	SER	O-C-N	5.13	129.41	122.59
1	I	404	GLU	CA-C-O	-5.13	113.18	120.51
1	K	23	MET	N-CA-C	5.13	121.72	110.80
1	K	276	LEU	CA-C-O	-5.13	113.29	119.49
1	M	221	ALA	N-CA-CB	-5.13	102.59	110.44
1	O	350	THR	CA-CB-OG1	5.13	117.29	109.60
1	B	137	THR	CA-CB-OG1	5.12	117.29	109.60
1	F	265	GLN	N-CA-CB	-5.12	102.58	110.01
1	C	266	LYS	N-CA-C	-5.12	102.31	109.69
1	D	478	GLN	CB-CG-CD	5.12	121.31	112.60
1	E	267	GLY	O-C-N	5.12	129.36	122.70
1	F	142	VAL	CB-CA-C	-5.12	106.92	111.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	173	ILE	CA-C-O	5.12	126.00	120.47
1	H	215	ASP	CB-CA-C	5.12	119.32	111.02
1	H	379	VAL	O-C-N	-5.12	117.03	122.61
1	I	398	GLU	CB-CG-CD	5.12	121.31	112.60
1	K	255	LYS	CA-CB-CG	5.12	124.35	114.10
1	K	263	PHE	CZ-CE2-CD2	-5.12	110.78	120.00
1	N	49	VAL	CA-C-N	-5.12	113.88	123.05
1	N	49	VAL	C-N-CA	-5.12	113.88	123.05
1	O	374	GLU	CB-CG-CD	5.12	121.31	112.60
1	O	379	VAL	N-CA-C	5.12	116.98	108.99
1	O	489	ARG	CD-NE-CZ	5.12	131.57	124.40
1	P	298	ALA	CA-C-O	5.12	127.84	120.51
1	A	70	VAL	CA-CB-CG2	-5.12	101.69	110.40
1	A	97	VAL	CA-C-O	-5.12	115.36	121.05
1	C	86	GLU	OE1-CD-OE2	-5.12	110.61	122.90
1	D	30	ILE	O-C-N	5.12	128.97	122.57
1	E	302	ASN	CB-CG-OD1	5.12	131.04	120.80
1	F	301	ALA	O-C-N	-5.12	116.27	122.82
1	F	318	ALA	O-C-N	5.12	129.89	123.23
1	I	41	PRO	O-C-N	5.12	129.56	122.64
1	I	287	VAL	CB-CA-C	5.12	118.19	111.33
1	J	82	ALA	CA-C-O	-5.12	113.36	119.35
1	G	248	LYS	N-CA-CB	5.12	118.01	110.33
1	G	485	GLU	O-C-N	-5.12	116.80	122.07
1	J	183	ASP	N-CA-C	-5.12	102.28	109.96
1	K	124	TYR	CD1-CG-CD2	-5.12	110.42	118.10
1	M	306	ASN	N-CA-C	5.12	121.71	110.80
1	O	302	ASN	CA-C-O	-5.12	114.70	120.43
1	P	429	ASP	O-C-N	-5.12	116.20	123.01
1	B	72	HIS	ND1-CE1-NE2	5.12	113.52	108.40
1	C	32	ALA	CB-CA-C	-5.12	102.19	110.79
1	C	350	THR	OG1-CB-CG2	-5.12	99.06	109.30
1	D	239	ILE	N-CA-C	5.12	119.98	109.34
1	D	377	ARG	NH1-CZ-NH2	5.12	125.95	119.30
1	G	30	ILE	CA-C-O	5.12	127.18	120.78
1	L	243	ALA	N-CA-CB	5.12	119.14	110.49
1	O	322	GLU	CB-CA-C	-5.12	100.44	109.70
1	P	121	VAL	CB-CA-C	-5.12	105.42	111.97
1	J	368	VAL	N-CA-C	5.12	119.98	109.34
1	C	338	LYS	N-CA-C	5.12	116.54	111.07
1	E	372	THR	O-C-N	5.12	129.28	122.43
1	F	93	THR	CB-CA-C	-5.12	102.79	110.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	146	ASP	N-CA-CB	-5.12	102.11	109.83
1	F	276	LEU	CA-C-O	-5.12	113.20	120.51
1	H	270	ASP	N-CA-C	5.12	121.70	110.80
1	I	265	GLN	N-CA-CB	5.12	119.39	110.18
1	I	308	LYS	CG-CD-CE	-5.12	99.53	111.30
1	K	380	SER	N-CA-CB	5.12	119.85	112.13
1	L	403	ARG	NH1-CZ-NH2	5.12	125.95	119.30
1	M	180	ALA	CA-C-N	5.12	128.73	120.55
1	M	180	ALA	C-N-CA	5.12	128.73	120.55
1	N	345	MET	CA-CB-CG	-5.12	103.87	114.10
1	O	236	ASN	O-C-N	-5.12	115.07	122.03
1	O	333	PHE	CB-CG-CD1	-5.12	112.00	120.70
1	O	443	SER	CA-CB-OG	5.12	121.33	111.10
1	C	122	LYS	O-C-N	5.11	129.39	122.59
1	E	354	VAL	CA-CB-CG2	-5.11	101.71	110.40
1	I	167	LYS	N-CA-C	5.11	121.69	110.80
1	K	97	VAL	CG1-CB-CG2	-5.11	99.55	110.80
1	N	446	ASN	CB-CG-OD1	-5.11	110.57	120.80
1	O	131	ALA	CA-C-O	-5.11	113.20	120.51
1	A	233	ALA	N-CA-CB	5.11	119.27	110.68
1	B	255	LYS	CA-C-O	-5.11	115.08	120.55
1	L	42	LYS	N-CA-CB	5.11	118.02	110.56
1	N	360	ARG	CB-CG-CD	5.11	123.06	111.30
1	O	371	CYS	CA-C-N	5.11	127.55	120.29
1	O	371	CYS	C-N-CA	5.11	127.55	120.29
1	A	446	ASN	O-C-N	5.11	129.39	122.59
1	D	48	LEU	CA-C-N	5.11	130.51	122.33
1	D	48	LEU	C-N-CA	5.11	130.51	122.33
1	D	160	GLY	CA-C-N	5.11	132.18	123.03
1	D	160	GLY	C-N-CA	5.11	132.18	123.03
1	I	324	ARG	CA-C-O	-5.11	114.81	120.38
1	L	41	PRO	N-CD-CG	5.11	110.87	103.20
1	L	168	GLU	CB-CA-C	5.11	120.67	109.99
1	L	215	ASP	CA-C-O	-5.11	114.17	122.20
1	M	193	ILE	CA-CB-CG2	5.11	119.19	110.50
1	P	132	GLN	OE1-CD-NE2	-5.11	117.49	122.60
1	A	201	ALA	N-CA-C	5.11	121.68	110.80
1	E	199	SER	O-C-N	-5.11	116.28	122.82
1	I	448	CYS	N-CA-C	5.11	117.96	107.69
1	N	366	VAL	CA-CB-CG2	5.11	119.08	110.40
1	A	194	LYS	CA-C-O	-5.11	116.25	121.87
1	B	286	ARG	NE-CZ-NH1	-5.11	116.39	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	71	GLU	CA-CB-CG	-5.11	103.88	114.10
1	D	72	HIS	N-CA-C	5.11	121.10	109.81
1	E	21	GLN	CA-CB-CG	5.11	124.32	114.10
1	E	141	GLU	N-CA-CB	5.11	117.77	110.06
1	F	249	ASP	CA-C-N	5.11	129.31	120.58
1	F	249	ASP	C-N-CA	5.11	129.31	120.58
1	F	286	ARG	CA-C-O	-5.11	114.69	121.08
1	I	293	GLU	O-C-N	5.11	129.27	122.43
1	K	137	THR	N-CA-C	5.11	119.61	113.17
1	L	58	THR	CA-CB-CG2	-5.11	101.82	110.50
1	L	159	THR	CA-CB-CG2	5.11	119.18	110.50
1	N	290	SER	CA-C-O	-5.11	113.21	120.51
1	O	78	LEU	N-CA-C	5.11	121.22	114.12
1	I	44	MET	O-C-N	5.11	129.51	123.33
1	M	56	VAL	CA-C-N	5.11	128.96	122.37
1	M	56	VAL	C-N-CA	5.11	128.96	122.37
1	M	72	HIS	ND1-CG-CD2	5.11	111.21	106.10
1	M	184	ASP	O-C-N	-5.11	116.45	122.58
1	O	271	LEU	CA-C-N	5.11	131.09	122.26
1	O	271	LEU	C-N-CA	5.11	131.09	122.26
1	B	285	ARG	N-CA-CB	5.10	118.10	110.39
1	I	286	ARG	CA-C-N	5.10	128.84	121.18
1	I	286	ARG	C-N-CA	5.10	128.84	121.18
1	J	427	GLY	CA-C-N	-5.10	111.86	121.66
1	J	427	GLY	C-N-CA	-5.10	111.86	121.66
1	L	414	ALA	N-CA-CB	5.10	117.54	109.94
1	M	467	VAL	O-C-N	5.10	128.38	122.82
1	A	30	ILE	O-C-N	5.10	127.47	121.96
1	B	124	TYR	CD1-CE1-CZ	5.10	128.79	119.60
1	C	429	ASP	CA-C-N	5.10	131.29	121.54
1	C	429	ASP	C-N-CA	5.10	131.29	121.54
1	E	97	VAL	CA-CB-CG1	-5.10	101.72	110.40
1	E	244	SER	CB-CA-C	5.10	120.57	110.42
1	F	370	GLY	O-C-N	5.10	129.33	122.70
1	H	82	ALA	N-CA-CB	5.10	117.98	110.33
1	M	248	LYS	CA-C-O	-5.10	114.10	119.97
1	N	464	ASN	CA-C-N	-5.10	111.41	121.41
1	N	464	ASN	C-N-CA	-5.10	111.41	121.41
1	O	332	ILE	CA-CB-CG1	5.10	119.08	110.40
1	P	323	GLU	N-CA-C	5.10	116.79	108.63
1	A	77	MET	CA-C-O	-5.10	112.28	120.65
1	A	348	ARG	N-CA-CB	5.10	118.17	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	452	ASN	CA-CB-CG	-5.10	107.50	112.60
1	L	429	ASP	CB-CA-C	5.10	119.29	110.77
1	M	431	ILE	O-C-N	-5.10	115.37	122.05
1	A	337	CYS	CA-C-N	5.10	130.90	121.52
1	A	337	CYS	C-N-CA	5.10	130.90	121.52
1	D	59	ASN	CB-CA-C	-5.10	101.85	110.88
1	D	286	ARG	CA-CB-CG	5.10	124.30	114.10
1	F	254	ILE	CA-C-N	5.10	130.74	121.92
1	F	254	ILE	C-N-CA	5.10	130.74	121.92
1	F	264	CYS	CA-C-O	5.10	125.93	120.32
1	F	466	VAL	CG1-CB-CG2	-5.10	99.58	110.80
1	H	486	MET	O-C-N	-5.10	116.58	122.09
1	I	184	ASP	OD1-CG-OD2	-5.10	110.66	122.90
1	K	190	LYS	CB-CG-CD	5.10	123.03	111.30
1	L	235	LEU	O-C-N	-5.10	115.32	122.87
1	M	429	ASP	CA-CB-CG	5.10	117.70	112.60
1	O	396	TYR	O-C-N	-5.10	115.42	122.46
1	C	286	ARG	O-C-N	-5.10	115.81	122.59
1	D	469	PRO	CB-CA-C	-5.10	103.15	111.56
1	F	245	GLU	CA-C-O	-5.10	113.22	120.51
1	G	354	VAL	N-CA-CB	5.10	117.47	110.54
1	H	31	ILE	CA-C-N	5.10	129.14	120.88
1	H	31	ILE	C-N-CA	5.10	129.14	120.88
1	K	314	ASP	O-C-N	-5.10	115.81	122.59
1	M	41	PRO	CA-N-CD	-5.10	104.86	112.00
1	N	9	PRO	N-CD-CG	-5.10	95.56	103.20
1	B	309	ASP	CA-C-N	-5.10	113.33	120.82
1	B	309	ASP	C-N-CA	-5.10	113.33	120.82
1	I	424	GLU	CG-CD-OE1	5.10	130.12	118.40
1	L	109	GLU	O-C-N	5.10	127.52	122.12
1	M	333	PHE	CE1-CZ-CE2	5.10	129.17	120.00
1	N	493	VAL	O-C-N	-5.10	118.38	122.97
1	P	355	ILE	N-CA-C	-5.10	106.71	111.45
1	C	38	THR	CA-CB-CG2	-5.09	101.84	110.50
1	C	58	THR	O-C-N	-5.09	117.78	123.48
1	C	396	TYR	O-C-N	-5.09	115.43	122.46
1	C	411	PHE	CB-CG-CD2	-5.09	112.04	120.70
1	G	314	ASP	CB-CG-OD2	5.09	130.12	118.40
1	H	100	ALA	O-C-N	5.09	129.18	122.30
1	J	341	LYS	CA-C-N	5.09	131.27	121.54
1	J	341	LYS	C-N-CA	5.09	131.27	121.54
1	J	447	LYS	CA-C-N	-5.09	115.53	122.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	447	LYS	C-N-CA	-5.09	115.53	122.87
1	N	167	LYS	CB-CG-CD	5.09	123.02	111.30
1	P	140	CYS	CA-C-N	-5.09	114.13	121.42
1	P	140	CYS	C-N-CA	-5.09	114.13	121.42
1	P	319	GLY	CA-C-O	5.09	125.46	119.45
1	P	373	ILE	CA-CB-CG2	5.09	119.16	110.50
1	B	159	THR	CA-C-O	-5.09	114.67	120.32
1	D	268	ILE	CG1-CB-CG2	-5.09	95.42	110.70
1	L	15	TYR	CA-CB-CG	5.09	123.07	113.90
1	M	8	LEU	CA-C-N	5.09	126.21	119.84
1	M	8	LEU	C-N-CA	5.09	126.21	119.84
1	M	261	VAL	CG1-CB-CG2	-5.09	99.59	110.80
1	P	202	SER	O-C-N	-5.09	116.54	122.96
1	B	171	ALA	O-C-N	-5.09	115.43	122.46
1	D	235	LEU	CA-C-O	-5.09	114.83	120.38
1	E	212	VAL	CB-CA-C	5.09	118.33	110.28
1	F	72	HIS	ND1-CE1-NE2	-5.09	103.31	108.40
1	G	196	GLU	CA-C-N	5.09	129.46	122.84
1	G	196	GLU	C-N-CA	5.09	129.46	122.84
1	H	294	LYS	CG-CD-CE	5.09	123.01	111.30
1	I	142	VAL	CA-C-O	-5.09	114.42	120.78
1	I	356	GLU	CB-CG-CD	5.09	121.25	112.60
1	I	487	LEU	CA-C-O	-5.09	114.11	119.97
1	J	486	MET	CB-CA-C	5.09	119.26	110.86
1	L	50	ASP	O-C-N	-5.09	115.11	121.78
1	L	351	THR	CA-C-O	5.09	126.17	120.77
1	M	322	GLU	CA-C-O	-5.09	115.41	121.16
1	M	486	MET	CA-C-O	-5.09	113.23	120.51
1	N	229	ASP	CA-C-N	5.09	131.07	122.87
1	N	229	ASP	C-N-CA	5.09	131.07	122.87
1	P	172	GLU	CG-CD-OE2	-5.09	106.69	118.40
1	P	280	GLY	CA-C-N	5.09	128.93	121.80
1	P	280	GLY	C-N-CA	5.09	128.93	121.80
1	C	348	ARG	CB-CA-C	5.09	118.21	109.51
1	E	137	THR	CA-C-N	5.09	131.13	121.97
1	E	137	THR	C-N-CA	5.09	131.13	121.97
1	E	157	SER	CB-CA-C	5.09	119.49	109.72
1	E	292	MET	CB-CA-C	-5.09	100.90	110.67
1	E	319	GLY	O-C-N	-5.09	115.66	122.48
1	F	166	ALA	N-CA-CB	-5.09	101.48	110.39
1	I	33	GLU	CB-CA-C	5.09	120.55	110.42
1	I	146	ASP	CA-CB-CG	-5.09	107.51	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	438	ARG	NH1-CZ-NH2	5.09	125.92	119.30
1	P	176	GLU	O-C-N	5.09	128.85	122.23
1	P	269	ASP	CB-CA-C	-5.09	101.84	110.19
1	B	489	ARG	N-CA-CB	5.09	117.33	110.10
1	C	358	VAL	CA-C-O	5.09	126.19	120.64
1	C	404	GLU	CG-CD-OE2	-5.09	106.70	118.40
1	G	342	ALA	O-C-N	-5.09	117.17	123.33
1	M	461	MET	CA-C-O	-5.09	115.03	120.42
1	N	166	ALA	CB-CA-C	-5.09	104.96	111.22
1	P	197	LYS	N-CA-CB	-5.09	102.58	110.57
1	A	37	SER	CA-C-N	5.09	127.55	120.63
1	A	37	SER	C-N-CA	5.09	127.55	120.63
1	A	449	ALA	N-CA-C	5.09	121.63	110.80
1	A	488	LEU	CB-CA-C	-5.09	100.00	110.38
1	C	239	ILE	CA-CB-CG2	5.09	119.15	110.50
1	C	361	ALA	O-C-N	-5.09	115.19	122.41
1	E	13	LYS	N-CA-CB	-5.09	102.50	110.69
1	I	370	GLY	O-C-N	-5.09	116.09	122.70
1	J	109	GLU	OE1-CD-OE2	5.09	135.11	122.90
1	J	421	THR	OG1-CB-CG2	5.09	119.47	109.30
1	L	411	PHE	N-CA-CB	5.09	118.01	110.53
1	M	47	MET	O-C-N	5.09	129.83	123.12
1	M	77	MET	N-CA-C	5.09	120.39	113.37
1	A	134	LEU	N-CA-CB	-5.08	101.87	110.41
1	C	435	VAL	O-C-N	5.08	129.14	122.12
1	G	396	TYR	CA-CB-CG	-5.08	104.75	113.90
1	A	465	GLY	O-C-N	-5.08	113.29	121.53
1	B	67	GLU	N-CA-CB	5.08	117.44	110.07
1	B	241	GLU	CA-C-N	5.08	129.09	121.72
1	B	241	GLU	C-N-CA	5.08	129.09	121.72
1	B	439	ALA	N-CA-CB	-5.08	101.95	110.39
1	D	52	LEU	N-CA-CB	-5.08	102.64	110.16
1	D	473	LYS	CA-CB-CG	5.08	124.27	114.10
1	F	339	HIS	CG-CD2-NE2	5.08	112.28	107.20
1	G	403	ARG	CB-CA-C	5.08	120.61	109.99
1	I	129	GLN	CB-CG-CD	5.08	121.24	112.60
1	J	368	VAL	N-CA-CB	5.08	119.62	111.23
1	J	401	SER	N-CA-CB	5.08	119.08	110.49
1	K	300	GLY	CA-C-N	5.08	131.25	121.54
1	K	300	GLY	C-N-CA	5.08	131.25	121.54
1	K	446	ASN	CB-CG-ND2	-5.08	108.78	116.40
1	L	394	ARG	N-CA-CB	5.08	117.38	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	318	ALA	O-C-N	-5.08	116.53	123.14
1	P	34	THR	CA-C-N	-5.08	116.10	121.84
1	P	34	THR	C-N-CA	-5.08	116.10	121.84
1	B	15	TYR	O-C-N	5.08	129.25	123.31
1	F	198	LYS	N-CA-C	5.08	116.45	107.61
1	G	304	ILE	CG1-CB-CG2	5.08	125.95	110.70
1	I	59	ASN	O-C-N	-5.08	116.19	122.19
1	K	31	ILE	CA-CB-CG2	5.08	119.14	110.50
1	N	306	ASN	N-CA-CB	-5.08	102.33	110.46
1	O	266	LYS	O-C-N	-5.08	117.06	122.85
1	D	310	LEU	CD1-CG-CD2	5.08	121.98	110.80
1	D	342	ALA	CA-C-O	5.08	126.44	120.75
1	D	390	SER	CA-C-N	-5.08	111.78	121.94
1	D	390	SER	C-N-CA	-5.08	111.78	121.94
1	M	445	GLY	CA-C-O	5.08	126.96	121.02
1	N	39	LEU	CD1-CG-CD2	5.08	121.98	110.80
1	B	353	HIS	N-CA-C	5.08	116.50	111.07
1	B	360	ARG	CD-NE-CZ	5.08	131.51	124.40
1	E	335	GLU	O-C-N	5.08	128.62	122.68
1	F	31	ILE	CB-CA-C	5.08	119.62	111.29
1	F	287	VAL	N-CA-CB	5.08	116.46	110.82
1	H	105	ARG	CD-NE-CZ	-5.08	117.29	124.40
1	H	193	ILE	N-CA-CB	5.08	119.61	111.23
1	H	216	LYS	N-CA-CB	5.08	118.89	110.97
1	J	317	ASP	N-CA-C	5.08	116.45	107.61
1	K	86	GLU	CA-C-O	-5.08	113.25	120.51
1	L	154	ALA	CB-CA-C	5.08	119.27	110.84
1	M	216	LYS	N-CA-CB	5.08	119.34	110.81
1	E	119	ILE	CA-CB-CG1	5.08	119.03	110.40
1	E	358	VAL	CA-CB-CG2	5.08	119.03	110.40
1	F	111	LEU	O-C-N	-5.08	115.84	122.59
1	I	70	VAL	CB-CA-C	-5.08	102.96	111.29
1	K	287	VAL	CG1-CB-CG2	-5.08	99.63	110.80
1	L	459	GLU	CA-C-O	-5.08	113.25	120.51
1	P	324	ARG	CA-C-O	-5.08	114.93	120.36
1	B	211	GLY	N-CA-C	5.08	120.37	110.73
1	E	136	LYS	O-C-N	5.08	129.13	122.33
1	E	248	LYS	CA-C-N	-5.08	112.24	120.72
1	E	248	LYS	C-N-CA	-5.08	112.24	120.72
1	F	293	GLU	OE1-CD-OE2	5.08	135.08	122.90
1	H	207	GLU	CB-CG-CD	-5.08	103.97	112.60
1	K	367	GLY	CA-C-O	-5.08	111.74	120.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	351	THR	N-CA-C	5.08	117.87	109.85
1	O	309	ASP	N-CA-CB	-5.08	101.88	110.41
1	B	272	ALA	N-CA-CB	5.07	117.43	110.07
1	C	138	ILE	N-CA-CB	5.07	119.33	110.65
1	C	273	GLN	CG-CD-OE1	-5.07	110.65	120.80
1	D	337	CYS	O-C-N	5.07	129.04	123.16
1	D	369	VAL	CA-CB-CG1	5.07	119.02	110.40
1	F	132	GLN	CG-CD-NE2	-5.07	108.79	116.40
1	H	462	CYS	CB-CA-C	5.07	120.52	110.42
1	K	160	GLY	O-C-N	5.07	129.29	122.70
1	K	377	ARG	CA-C-N	-5.07	115.86	122.51
1	K	377	ARG	C-N-CA	-5.07	115.86	122.51
1	M	448	CYS	CA-C-O	-5.07	114.75	120.43
1	O	75	ALA	N-CA-CB	5.07	118.16	110.14
1	P	355	ILE	N-CA-CB	5.07	118.43	110.31
1	B	146	ASP	CA-C-O	-5.07	115.59	121.07
1	D	72	HIS	CA-C-O	-5.07	113.21	120.16
1	K	85	GLN	CG-CD-NE2	-5.07	108.79	116.40
1	K	119	ILE	CA-CB-CG2	5.07	119.12	110.50
1	M	376	GLY	CA-C-O	5.07	129.40	120.57
1	O	64	ILE	CA-CB-CG2	5.07	119.12	110.50
1	O	262	LEU	CA-C-O	-5.07	114.30	120.54
1	A	419	PRO	N-CA-C	5.07	121.16	113.81
1	B	346	LEU	CB-CA-C	-5.07	101.78	109.89
1	E	347	ILE	O-C-N	-5.07	116.47	122.66
1	F	67	GLU	CA-CB-CG	5.07	124.24	114.10
1	F	178	VAL	CA-C-N	-5.07	114.54	122.65
1	F	178	VAL	C-N-CA	-5.07	114.54	122.65
1	G	228	THR	CA-C-N	-5.07	115.80	122.85
1	G	228	THR	C-N-CA	-5.07	115.80	122.85
1	H	449	ALA	O-C-N	-5.07	115.85	122.59
1	I	229	ASP	CA-CB-CG	5.07	117.67	112.60
1	J	175	VAL	N-CA-C	5.07	115.79	110.62
1	K	188	VAL	CA-CB-CG2	5.07	119.02	110.40
1	K	217	GLU	N-CA-C	-5.07	100.63	108.90
1	L	137	THR	CA-C-O	-5.07	113.97	120.31
1	M	253	GLU	CG-CD-OE1	5.07	130.06	118.40
1	N	171	ALA	CA-C-N	-5.07	113.01	122.09
1	N	171	ALA	C-N-CA	-5.07	113.01	122.09
1	O	47	MET	CB-CA-C	-5.07	102.58	110.74
1	P	185	GLU	OE1-CD-OE2	-5.07	110.73	122.90
1	B	475	GLN	OE1-CD-NE2	-5.07	117.53	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	403	ARG	N-CA-CB	5.07	119.06	110.49
1	E	44	MET	O-C-N	-5.07	115.65	122.14
1	F	110	LEU	O-C-N	5.07	128.15	122.32
1	G	26	LEU	N-CA-C	-5.07	105.94	111.82
1	G	36	ARG	CB-CA-C	5.07	120.51	110.42
1	L	496	ALA	CB-CA-C	5.07	119.39	109.35
1	N	475	GLN	O-C-N	5.07	129.14	122.30
1	O	184	ASP	CB-CG-OD1	-5.07	106.74	118.40
1	P	452	ASN	CA-C-N	5.07	128.95	120.64
1	P	452	ASN	C-N-CA	5.07	128.95	120.64
1	F	14	ARG	CA-CB-CG	5.07	124.23	114.10
1	H	377	ARG	N-CA-C	5.07	121.59	110.80
1	H	484	THR	CA-CB-CG2	-5.07	101.89	110.50
1	M	33	GLU	CA-C-O	-5.07	115.16	120.63
1	P	33	GLU	CA-CB-CG	5.07	124.24	114.10
1	A	275	TYR	CB-CG-CD2	-5.07	113.20	120.80
1	D	237	CYS	CA-C-N	5.07	131.22	121.54
1	D	237	CYS	C-N-CA	5.07	131.22	121.54
1	D	448	CYS	CA-CB-SG	5.07	126.05	114.40
1	E	442	ALA	CA-C-O	-5.07	112.72	119.10
1	G	77	MET	N-CA-CB	5.07	118.92	110.41
1	G	137	THR	CB-CA-C	-5.07	102.24	110.85
1	G	280	GLY	CA-C-O	-5.07	113.54	119.72
1	H	150	LEU	CA-C-N	5.07	129.18	120.72
1	H	150	LEU	C-N-CA	5.07	129.18	120.72
1	K	62	VAL	CA-CB-CG1	5.07	119.01	110.40
1	K	291	ASP	O-C-N	-5.07	115.64	122.43
1	K	469	PRO	O-C-N	-5.07	115.80	122.64
1	L	322	GLU	CA-C-N	5.07	129.42	122.84
1	L	322	GLU	C-N-CA	5.07	129.42	122.84
1	O	112	ASP	OD1-CG-OD2	-5.07	110.74	122.90
1	G	394	ARG	N-CA-CB	-5.06	102.50	110.30
1	J	128	ALA	N-CA-C	-5.06	104.75	112.04
1	K	302	ASN	CA-C-O	-5.06	114.76	120.43
1	N	390	SER	N-CA-C	5.06	119.67	111.37
1	P	249	ASP	CB-CA-C	5.06	120.50	110.42
1	A	492	ASP	N-CA-CB	-5.06	103.19	111.24
1	B	332	ILE	CB-CA-C	-5.06	103.95	110.84
1	B	429	ASP	CA-C-N	5.06	127.51	120.63
1	B	429	ASP	C-N-CA	5.06	127.51	120.63
1	D	42	LYS	CG-CD-CE	5.06	122.94	111.30
1	D	473	LYS	CB-CA-C	-5.06	99.73	110.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	83	LYS	CA-C-N	5.06	127.37	120.54
1	E	83	LYS	C-N-CA	5.06	127.37	120.54
1	F	309	ASP	OD1-CG-OD2	5.06	135.05	122.90
1	H	10	GLU	OE1-CD-OE2	-5.06	110.75	122.90
1	J	69	SER	O-C-N	-5.06	115.86	122.59
1	K	417	VAL	N-CA-C	5.06	115.18	110.42
1	P	98	VAL	CG1-CB-CG2	-5.06	99.66	110.80
1	P	249	ASP	OD1-CG-OD2	-5.06	110.75	122.90
1	C	219	VAL	CG1-CB-CG2	5.06	121.93	110.80
1	D	287	VAL	CA-CB-CG1	5.06	119.00	110.40
1	E	495	ALA	O-C-N	-5.06	117.00	122.92
1	G	77	MET	CA-C-N	-5.06	114.21	122.26
1	G	77	MET	C-N-CA	-5.06	114.21	122.26
1	J	58	THR	OG1-CB-CG2	5.06	119.42	109.30
1	L	328	GLY	O-C-N	-5.06	116.12	122.70
1	O	206	THR	CB-CA-C	5.06	118.59	110.29
1	P	221	ALA	CB-CA-C	5.06	120.49	110.42
1	A	357	GLU	CB-CG-CD	5.06	121.20	112.60
1	D	161	LYS	N-CA-CB	5.06	118.64	111.05
1	E	332	ILE	CA-C-O	-5.06	114.99	120.71
1	H	442	ALA	CA-C-N	-5.06	113.46	122.42
1	H	442	ALA	C-N-CA	-5.06	113.46	122.42
1	I	210	LYS	N-CA-CB	5.06	119.04	110.49
1	I	305	THR	CB-CA-C	5.06	120.49	110.42
1	J	351	THR	N-CA-CB	5.06	118.29	110.60
1	L	268	ILE	N-CA-CB	5.06	119.58	111.23
1	N	491	ASP	CA-C-N	5.06	131.21	121.54
1	N	491	ASP	C-N-CA	5.06	131.21	121.54
1	O	125	GLN	O-C-N	-5.06	115.65	122.23
1	O	368	VAL	O-C-N	5.06	127.99	122.12
1	A	109	GLU	CA-C-N	-5.06	112.69	120.88
1	A	109	GLU	C-N-CA	-5.06	112.69	120.88
1	A	311	SER	CA-C-O	-5.06	113.28	120.51
1	D	18	ARG	O-C-N	-5.06	115.05	122.43
1	E	349	GLY	N-CA-C	5.06	117.82	111.09
1	G	293	GLU	CB-CA-C	5.06	119.18	110.79
1	G	368	VAL	CA-C-O	-5.06	115.49	120.85
1	J	411	PHE	CB-CA-C	5.06	119.43	109.72
1	K	276	LEU	N-CA-C	5.06	118.55	112.38
1	K	421	THR	N-CA-CB	5.06	118.79	110.39
1	L	362	VAL	N-CA-CB	5.06	117.80	110.52
1	N	39	LEU	O-C-N	5.06	129.15	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	56	VAL	CG1-CB-CG2	5.06	121.93	110.80
1	N	348	ARG	CG-CD-NE	5.06	123.13	112.00
1	O	379	VAL	CA-CB-CG1	-5.06	101.80	110.40
1	P	148	GLU	N-CA-C	5.06	119.66	111.37
1	C	201	ALA	N-CA-C	5.06	121.57	110.80
1	G	454	PHE	CA-C-N	-5.06	113.17	121.92
1	G	454	PHE	C-N-CA	-5.06	113.17	121.92
1	J	126	ALA	N-CA-C	-5.06	106.28	112.90
1	J	295	LEU	CA-C-N	5.06	127.06	120.28
1	J	295	LEU	C-N-CA	5.06	127.06	120.28
1	B	135	LEU	O-C-N	-5.05	116.86	122.07
1	D	52	LEU	CA-C-O	-5.05	115.06	120.42
1	D	193	ILE	O-C-N	-5.05	115.95	122.32
1	E	215	ASP	N-CA-CB	5.05	118.89	110.91
1	F	18	ARG	CA-C-O	-5.05	115.51	120.82
1	F	62	VAL	N-CA-CB	5.05	119.57	111.23
1	G	190	LYS	N-CA-C	5.05	121.57	110.80
1	H	162	GLY	O-C-N	-5.05	116.13	122.70
1	I	417	VAL	CB-CA-C	5.05	119.58	111.29
1	J	137	THR	OG1-CB-CG2	-5.05	99.19	109.30
1	L	245	GLU	CA-CB-CG	5.05	124.21	114.10
1	L	415	LEU	N-CA-C	5.05	121.57	110.80
1	M	350	THR	N-CA-CB	5.05	119.03	110.49
1	B	222	GLN	CB-CG-CD	-5.05	104.01	112.60
1	I	132	GLN	CG-CD-NE2	-5.05	108.82	116.40
1	O	463	GLU	O-C-N	5.05	127.48	122.12
1	A	190	LYS	CB-CG-CD	5.05	122.92	111.30
1	A	252	ALA	CA-C-N	5.05	127.46	120.29
1	A	252	ALA	C-N-CA	5.05	127.46	120.29
1	F	26	LEU	N-CA-CB	-5.05	102.17	110.40
1	F	300	GLY	CA-C-N	5.05	128.25	120.82
1	F	300	GLY	C-N-CA	5.05	128.25	120.82
1	H	148	GLU	CA-CB-CG	5.05	124.20	114.10
1	I	470	LEU	CA-CB-CG	5.05	133.98	116.30
1	M	294	LYS	O-C-N	5.05	127.47	122.12
1	O	231	LYS	CB-CG-CD	5.05	122.92	111.30
1	P	313	GLN	OE1-CD-NE2	-5.05	117.55	122.60
1	B	368	VAL	CA-C-O	-5.05	112.92	119.53
1	B	430	ALA	N-CA-CB	5.05	117.30	109.98
1	C	291	ASP	CA-C-O	-5.05	112.74	119.10
1	E	67	GLU	CA-C-N	-5.05	111.89	121.54
1	E	67	GLU	C-N-CA	-5.05	111.89	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	183	ASP	CA-CB-CG	5.05	117.65	112.60
1	H	392	LYS	O-C-N	-5.05	115.48	122.30
1	H	395	GLU	CB-CA-C	5.05	120.86	110.31
1	I	163	ALA	CA-C-N	-5.05	111.89	121.54
1	I	163	ALA	C-N-CA	-5.05	111.89	121.54
1	J	256	ALA	CA-C-O	-5.05	114.64	120.24
1	K	14	ARG	CA-CB-CG	5.05	124.20	114.10
1	M	126	ALA	O-C-N	-5.05	115.06	122.43
1	M	452	ASN	N-CA-C	-5.05	101.52	109.25
1	N	141	GLU	CA-C-N	5.05	131.06	121.97
1	N	141	GLU	C-N-CA	5.05	131.06	121.97
1	O	31	ILE	N-CA-C	5.05	119.84	109.34
1	O	72	HIS	CB-CG-CD2	5.05	137.76	131.20
1	O	133	GLU	N-CA-C	5.05	119.42	113.16
1	P	447	LYS	CA-CB-CG	5.05	124.20	114.10
1	F	109	GLU	CG-CD-OE2	-5.05	106.79	118.40
1	G	237	CYS	CB-CA-C	5.05	117.96	109.48
1	I	430	ALA	CA-C-O	-5.05	113.69	119.60
1	J	306	ASN	CA-C-O	-5.05	116.20	121.55
1	M	180	ALA	N-CA-C	5.05	119.51	112.90
1	C	373	ILE	CB-CA-C	5.05	119.57	111.29
1	F	214	VAL	CA-CB-CG2	-5.05	101.82	110.40
1	H	304	ILE	CA-CB-CG2	5.05	119.08	110.50
1	I	169	LYS	CA-C-N	5.05	128.76	120.63
1	I	169	LYS	C-N-CA	5.05	128.76	120.63
1	J	122	LYS	N-CA-CB	-5.05	101.56	110.39
1	O	117	PRO	N-CA-CB	-5.05	97.95	103.25
1	P	78	LEU	N-CA-CB	-5.05	104.19	110.90
1	E	313	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	E	318	ALA	CB-CA-C	-5.04	100.82	109.65
1	K	16	MET	CA-C-O	-5.04	115.21	121.11
1	K	106	LYS	CG-CD-CE	5.04	122.90	111.30
1	N	277	ALA	CA-C-O	5.04	125.77	120.42
1	A	141	GLU	N-CA-CB	5.04	117.39	109.97
1	D	14	ARG	NH1-CZ-NH2	-5.04	112.74	119.30
1	E	227	VAL	CA-C-O	5.04	126.47	120.72
1	F	477	ILE	CA-CB-CG1	5.04	118.97	110.40
1	I	335	GLU	CA-C-O	-5.04	115.33	121.28
1	I	348	ARG	CG-CD-NE	5.04	123.10	112.00
1	J	239	ILE	CA-C-O	-5.04	114.47	120.78
1	K	281	ILE	CB-CG1-CD1	-5.04	103.21	113.80
1	L	390	SER	CA-C-O	5.04	126.62	121.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	487	LEU	CA-C-O	5.04	125.59	119.49
1	M	348	ARG	NE-CZ-NH1	-5.04	116.46	121.50
1	O	81	VAL	CA-C-O	5.04	127.08	120.78
1	A	308	LYS	CB-CA-C	5.04	120.45	110.42
1	C	173	ILE	N-CA-CB	5.04	123.57	111.87
1	C	307	ILE	CG1-CB-CG2	-5.04	95.58	110.70
1	E	85	GLN	N-CA-C	5.04	117.17	111.02
1	F	374	GLU	O-C-N	-5.04	116.38	122.48
1	F	395	GLU	CG-CD-OE1	-5.04	106.81	118.40
1	G	365	ALA	CB-CA-C	5.04	119.11	110.74
1	H	97	VAL	CB-CA-C	5.04	118.76	111.65
1	H	228	THR	N-CA-C	5.04	121.54	110.80
1	H	414	ALA	CB-CA-C	5.04	119.92	110.70
1	H	424	GLU	CA-C-O	-5.04	115.19	120.63
1	I	359	ALA	CA-C-O	5.04	126.11	120.82
1	F	246	MET	CB-CA-C	-5.04	100.49	110.27
1	F	452	ASN	CB-CA-C	-5.04	100.39	110.42
1	N	17	GLY	CA-C-N	-5.04	113.69	122.36
1	N	17	GLY	C-N-CA	-5.04	113.69	122.36
1	O	304	ILE	CA-CB-CG2	5.04	119.07	110.50
1	P	9	PRO	O-C-N	5.04	129.44	122.64
1	P	38	THR	CA-CB-CG2	-5.04	101.93	110.50
1	B	289	LYS	O-C-N	-5.04	115.89	122.59
1	C	489	ARG	CA-C-O	-5.04	113.30	120.51
1	D	63	THR	N-CA-CB	5.04	119.00	110.49
1	E	105	ARG	CG-CD-NE	5.04	123.08	112.00
1	I	198	LYS	O-C-N	-5.04	117.51	123.25
1	I	328	GLY	CA-C-N	5.04	131.16	121.54
1	I	328	GLY	C-N-CA	5.04	131.16	121.54
1	L	73	PRO	N-CA-C	-5.04	107.29	113.84
1	L	249	ASP	CA-C-O	5.04	125.60	119.05
1	P	31	ILE	CA-C-O	5.04	127.08	120.78
1	P	416	GLU	CA-C-O	-5.04	115.53	120.82
1	A	350	THR	CA-C-N	5.04	132.79	123.32
1	A	350	THR	C-N-CA	5.04	132.79	123.32
1	C	23	MET	CA-C-O	-5.04	113.31	120.51
1	H	378	ILE	N-CA-CB	-5.04	104.97	111.82
1	J	394	ARG	N-CA-C	-5.04	105.25	111.40
1	N	387	VAL	N-CA-C	5.04	117.35	111.05
1	N	491	ASP	CA-C-O	-5.04	116.14	121.78
1	O	346	LEU	CA-C-N	-5.04	115.99	122.99
1	O	346	LEU	C-N-CA	-5.04	115.99	122.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	370	GLY	CA-C-N	5.04	132.36	121.64
1	B	370	GLY	C-N-CA	5.04	132.36	121.64
1	C	226	LYS	N-CA-C	-5.04	100.07	110.80
1	D	356	GLU	N-CA-C	5.04	121.53	110.80
1	D	438	ARG	CB-CA-C	-5.04	102.75	110.81
1	E	180	ALA	N-CA-CB	-5.04	103.67	110.67
1	F	282	VAL	CA-CB-CG2	5.04	118.96	110.40
1	G	318	ALA	N-CA-CB	5.04	117.72	110.37
1	M	283	ALA	CA-C-N	5.04	129.87	122.77
1	M	283	ALA	C-N-CA	5.04	129.87	122.77
1	O	229	ASP	O-C-N	-5.04	116.46	123.01
1	B	400	ILE	CA-C-O	-5.03	115.33	120.71
1	B	458	VAL	CA-C-O	-5.03	114.63	121.02
1	C	16	MET	CB-CA-C	-5.03	100.80	109.86
1	D	444	ASN	N-CA-CB	5.03	118.14	110.39
1	F	111	LEU	CA-C-N	5.03	131.40	121.58
1	F	111	LEU	C-N-CA	5.03	131.40	121.58
1	F	115	VAL	CG1-CB-CG2	5.03	121.88	110.80
1	J	61	GLY	CA-C-O	-5.03	111.81	120.57
1	K	151	THR	CA-CB-CG2	5.03	119.06	110.50
1	K	208	LEU	N-CA-C	5.03	116.79	107.73
1	L	333	PHE	CE1-CZ-CE2	-5.03	110.94	120.00
1	M	29	ARG	N-CA-CB	5.03	117.31	110.01
1	N	95	THR	CB-CA-C	5.03	118.71	110.96
1	N	98	VAL	CA-CB-CG2	5.03	118.96	110.40
1	A	222	GLN	CA-C-N	5.03	127.49	120.65
1	A	222	GLN	C-N-CA	5.03	127.49	120.65
1	M	170	LEU	N-CA-CB	5.03	118.86	110.41
1	N	70	VAL	O-C-N	5.03	128.16	122.67
1	O	219	VAL	CB-CA-C	5.03	119.54	111.29
1	O	293	GLU	CA-CB-CG	-5.03	104.04	114.10
1	P	138	ILE	CB-CG1-CD1	-5.03	103.23	113.80
1	B	68	MET	N-CA-C	5.03	121.52	110.80
1	C	244	SER	N-CA-CB	5.03	118.99	110.49
1	F	144	ALA	N-CA-C	5.03	121.52	110.80
1	F	244	SER	N-CA-CB	5.03	118.99	110.49
1	G	10	GLU	CA-C-N	5.03	131.15	121.54
1	G	10	GLU	C-N-CA	5.03	131.15	121.54
1	I	74	ALA	N-CA-C	5.03	116.61	111.03
1	K	289	LYS	CD-CE-NZ	-5.03	95.80	111.90
1	L	278	LYS	N-CA-C	5.03	117.66	111.82
1	M	328	GLY	O-C-N	-5.03	116.16	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	70	VAL	CA-C-N	5.03	132.67	121.80
1	N	70	VAL	C-N-CA	5.03	132.67	121.80
1	N	70	VAL	CA-C-O	-5.03	115.30	121.04
1	O	29	ARG	NE-CZ-NH2	-5.03	114.67	119.20
1	O	489	ARG	O-C-N	5.03	129.28	122.59
1	P	453	VAL	N-CA-C	-5.03	105.51	112.50
1	A	16	MET	CB-CA-C	-5.03	100.41	110.42
1	A	413	ASP	CB-CG-OD2	-5.03	106.83	118.40
1	B	49	VAL	CA-CB-CG2	5.03	118.95	110.40
1	C	127	ALA	N-CA-CB	5.03	118.86	110.41
1	D	420	ARG	CG-CD-NE	-5.03	100.94	112.00
1	G	412	ALA	N-CA-C	-5.03	104.75	111.24
1	L	466	VAL	CA-C-N	-5.03	115.92	122.51
1	L	466	VAL	C-N-CA	-5.03	115.92	122.51
1	O	37	SER	O-C-N	-5.03	113.98	121.63
1	O	118	THR	CA-C-O	-5.03	113.32	120.51
1	A	364	ASP	CA-C-O	-5.03	115.17	120.55
1	D	302	ASN	CA-C-N	5.03	131.02	121.97
1	D	302	ASN	C-N-CA	5.03	131.02	121.97
1	F	253	GLU	N-CA-CB	5.03	117.92	110.53
1	F	400	ILE	N-CA-CB	5.03	116.33	110.65
1	H	78	LEU	N-CA-C	5.03	119.41	113.12
1	J	421	THR	CA-CB-CG2	5.03	119.05	110.50
1	K	448	CYS	CA-C-N	5.03	131.14	121.54
1	K	448	CYS	C-N-CA	5.03	131.14	121.54
1	M	68	MET	O-C-N	-5.03	115.90	122.59
1	M	429	ASP	N-CA-CB	5.03	117.45	109.71
1	N	12	MET	N-CA-CB	5.03	117.82	109.88
1	O	409	ARG	O-C-N	-5.03	116.89	122.07
1	P	348	ARG	CA-CB-CG	5.03	124.15	114.10
1	P	375	ASP	OD1-CG-OD2	-5.03	110.83	122.90
1	A	273	GLN	CG-CD-NE2	5.03	123.94	116.40
1	F	333	PHE	CG-CD1-CE1	-5.03	112.16	120.70
1	H	395	GLU	CA-C-O	5.03	125.56	119.38
1	I	58	THR	CB-CA-C	-5.03	101.27	110.62
1	I	157	SER	CA-C-O	-5.03	115.52	120.70
1	M	378	ILE	O-C-N	-5.03	116.29	122.57
1	O	72	HIS	CE1-NE2-CD2	5.03	114.03	109.00
1	O	495	ALA	CB-CA-C	5.03	119.69	110.24
1	D	159	THR	O-C-N	5.02	129.22	123.29
1	D	395	GLU	CB-CA-C	5.02	120.21	110.46
1	E	80	GLU	OE1-CD-OE2	5.02	134.96	122.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	401	SER	CA-CB-OG	5.02	121.15	111.10
1	P	13	LYS	N-CA-CB	-5.02	102.24	109.83
1	C	447	LYS	O-C-N	-5.02	115.91	122.39
1	D	492	ASP	CA-CB-CG	5.02	117.62	112.60
1	F	24	ASN	CA-C-N	5.02	127.34	120.46
1	F	24	ASN	C-N-CA	5.02	127.34	120.46
1	F	124	TYR	OH-CZ-CE2	5.02	134.97	119.90
1	F	412	ALA	CA-C-N	-5.02	111.23	121.18
1	F	412	ALA	C-N-CA	-5.02	111.23	121.18
1	J	343	VAL	CG1-CB-CG2	5.02	121.85	110.80
1	K	431	ILE	O-C-N	5.02	126.97	121.90
1	L	69	SER	CB-CA-C	5.02	120.42	110.42
1	L	484	THR	CA-CB-CG2	-5.02	101.96	110.50
1	M	242	THR	CB-CA-C	5.02	118.53	110.29
1	O	200	GLY	N-CA-C	5.02	125.08	113.18
1	O	331	MET	CA-C-N	-5.02	116.59	123.12
1	O	331	MET	C-N-CA	-5.02	116.59	123.12
1	A	203	ILE	CA-CB-CG2	5.02	119.04	110.50
1	A	248	LYS	CA-C-O	-5.02	113.90	119.67
1	C	157	SER	CB-CA-C	5.02	120.62	110.38
1	E	147	LYS	O-C-N	5.02	127.44	122.12
1	E	236	ASN	N-CA-C	-5.02	105.90	112.23
1	E	408	VAL	CA-CB-CG1	5.02	118.94	110.40
1	H	131	ALA	O-C-N	-5.02	115.10	122.43
1	B	169	LYS	CB-CA-C	5.02	119.74	109.55
1	C	136	LYS	CA-C-N	5.02	132.97	122.58
1	C	136	LYS	C-N-CA	5.02	132.97	122.58
1	D	112	ASP	O-C-N	-5.02	115.23	122.36
1	D	375	ASP	CB-CG-OD2	5.02	129.94	118.40
1	E	168	GLU	CB-CA-C	5.02	118.84	110.81
1	E	220	SER	CA-C-O	-5.02	115.33	121.05
1	E	471	ARG	NH1-CZ-NH2	-5.02	112.78	119.30
1	G	232	ILE	CA-C-O	5.02	127.66	121.54
1	H	292	MET	O-C-N	5.02	127.31	122.09
1	I	158	ILE	O-C-N	-5.02	116.30	122.57
1	I	286	ARG	CA-C-O	-5.02	113.33	120.51
1	J	188	VAL	CA-C-N	-5.02	115.41	122.94
1	J	188	VAL	C-N-CA	-5.02	115.41	122.94
1	K	55	VAL	CA-C-O	-5.02	115.17	120.39
1	K	299	THR	CB-CA-C	5.02	120.41	110.42
1	M	129	GLN	N-CA-CB	5.02	118.97	110.49
1	M	285	ARG	CD-NE-CZ	5.02	131.43	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	439	ALA	O-C-N	5.02	129.06	122.33
1	A	473	LYS	CA-C-N	5.02	127.00	120.28
1	A	473	LYS	C-N-CA	5.02	127.00	120.28
1	D	483	SER	N-CA-C	-5.02	107.33	113.50
1	F	56	VAL	CB-CA-C	-5.02	101.82	110.65
1	F	389	LEU	CD1-CG-CD2	-5.02	99.76	110.80
1	G	272	ALA	N-CA-CB	5.02	117.50	110.12
1	I	83	LYS	CA-C-N	5.02	127.31	120.54
1	I	83	LYS	C-N-CA	5.02	127.31	120.54
1	I	288	LYS	CA-CB-CG	5.02	124.14	114.10
1	I	453	VAL	CG1-CB-CG2	5.02	121.84	110.80
1	K	36	ARG	N-CA-C	-5.02	105.48	112.45
1	K	153	ILE	N-CA-CB	5.02	118.42	110.54
1	L	197	LYS	CA-CB-CG	-5.02	104.06	114.10
1	M	248	LYS	CB-CA-C	5.02	120.31	110.67
1	O	67	GLU	CA-C-N	-5.02	111.95	121.54
1	O	67	GLU	C-N-CA	-5.02	111.95	121.54
1	P	443	SER	CA-CB-OG	5.02	121.14	111.10
1	A	115	VAL	O-C-N	-5.02	116.30	122.57
1	A	121	VAL	N-CA-CB	-5.02	104.68	110.55
1	B	407	ALA	N-CA-C	5.02	116.60	111.03
1	C	67	GLU	CB-CA-C	-5.02	103.17	110.95
1	D	305	THR	CB-CA-C	5.02	120.40	110.42
1	E	10	GLU	O-C-N	-5.02	116.64	122.81
1	E	125	GLN	CA-C-O	-5.02	115.55	120.82
1	E	446	ASN	CA-C-O	-5.02	115.73	120.90
1	F	211	GLY	O-C-N	-5.02	117.54	123.61
1	G	32	ALA	CB-CA-C	-5.02	101.65	111.03
1	G	362	VAL	CA-C-N	5.02	129.16	120.58
1	G	362	VAL	C-N-CA	5.02	129.16	120.58
1	J	96	ALA	CB-CA-C	-5.02	102.46	110.79
1	L	411	PHE	CA-C-O	5.02	124.66	119.14
1	B	10	GLU	OE1-CD-OE2	-5.01	110.86	122.90
1	B	116	HIS	CB-CA-C	5.01	120.05	110.17
1	E	21	GLN	OE1-CD-NE2	-5.01	117.59	122.60
1	F	326	ILE	CA-C-N	5.01	131.12	121.54
1	F	326	ILE	C-N-CA	5.01	131.12	121.54
1	I	194	LYS	N-CA-C	-5.01	103.78	110.55
1	J	126	ALA	O-C-N	5.01	129.48	122.36
1	J	334	VAL	CA-CB-CG1	5.01	118.93	110.40
1	M	16	MET	N-CA-CB	-5.01	103.46	110.38
1	M	55	VAL	CA-C-N	5.01	130.36	122.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	55	VAL	C-N-CA	5.01	130.36	122.84
1	O	91	ASP	N-CA-C	5.01	117.74	110.42
1	P	243	ALA	O-C-N	5.01	129.26	122.59
1	P	286	ARG	NE-CZ-NH2	5.01	123.71	119.20
1	P	347	ILE	O-C-N	-5.01	117.62	122.99
1	N	67	GLU	CA-C-N	-5.01	111.97	121.54
1	N	67	GLU	C-N-CA	-5.01	111.97	121.54
1	A	489	ARG	CA-C-N	-5.01	112.95	121.97
1	A	489	ARG	C-N-CA	-5.01	112.95	121.97
1	C	155	MET	N-CA-CB	5.01	117.58	110.06
1	H	397	ALA	N-CA-C	5.01	116.43	110.97
1	I	261	VAL	CA-CB-CG2	5.01	118.92	110.40
1	I	357	GLU	N-CA-C	5.01	119.59	111.37
1	J	412	ALA	CA-C-O	-5.01	113.72	119.78
1	J	487	LEU	O-C-N	5.01	129.26	122.59
1	K	427	GLY	CA-C-N	-5.01	114.72	122.59
1	K	427	GLY	C-N-CA	-5.01	114.72	122.59
1	L	89	VAL	O-C-N	-5.01	116.58	121.94
1	L	271	LEU	N-CA-C	5.01	121.47	110.80
1	M	162	GLY	CA-C-O	5.01	129.29	120.57
1	P	226	LYS	O-C-N	-5.01	115.92	122.59
1	D	207	GLU	CB-CG-CD	5.01	121.12	112.60
1	E	384	SER	N-CA-CB	-5.01	102.75	110.42
1	G	444	ASN	CA-CB-CG	5.01	117.61	112.60
1	J	68	MET	N-CA-CB	5.01	118.96	110.49
1	J	375	ASP	CB-CG-OD1	5.01	129.92	118.40
1	M	161	LYS	N-CA-CB	5.01	119.17	111.56
1	M	416	GLU	CB-CA-C	-5.01	100.59	110.11
1	N	460	ASP	CA-CB-CG	-5.01	107.59	112.60
1	O	70	VAL	CB-CA-C	-5.01	103.08	111.29
1	O	432	GLU	CA-C-O	5.01	125.80	120.24
1	P	382	GLY	CA-C-N	5.01	131.23	121.41
1	P	382	GLY	C-N-CA	5.01	131.23	121.41
1	B	212	VAL	CA-C-O	5.01	125.89	120.43
1	C	200	GLY	O-C-N	5.01	129.21	122.70
1	E	215	ASP	CA-C-O	5.01	126.61	120.15
1	G	244	SER	N-CA-C	5.01	117.43	109.02
1	M	493	VAL	N-CA-C	5.01	114.68	106.72
1	P	446	ASN	CA-C-N	5.01	132.31	121.64
1	P	446	ASN	C-N-CA	5.01	132.31	121.64
1	B	267	GLY	N-CA-C	5.01	125.05	113.18
1	C	226	LYS	O-C-N	-5.01	115.93	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	155	MET	O-C-N	-5.01	115.93	122.59
1	E	271	LEU	CA-C-O	5.01	125.52	119.11
1	H	176	GLU	OE1-CD-OE2	5.01	134.92	122.90
1	J	445	GLY	CA-C-N	5.01	127.40	120.29
1	J	445	GLY	C-N-CA	5.01	127.40	120.29
1	K	55	VAL	N-CA-CB	-5.01	105.13	111.64
1	L	251	VAL	CA-C-N	5.01	130.30	120.99
1	L	251	VAL	C-N-CA	5.01	130.30	120.99
1	L	275	TYR	CA-C-N	5.01	131.10	121.54
1	L	275	TYR	C-N-CA	5.01	131.10	121.54
1	M	394	ARG	NH1-CZ-NH2	-5.01	112.79	119.30
1	N	185	GLU	N-CA-C	5.01	121.47	110.80
1	H	337	CYS	CB-CA-C	5.00	119.13	110.77
1	I	317	ASP	CA-C-O	5.00	125.55	120.24
1	L	339	HIS	N-CA-CB	5.00	118.61	110.75
1	A	21	GLN	CG-CD-OE1	-5.00	110.79	120.80
1	C	95	THR	CB-CA-C	5.00	119.36	110.85
1	D	142	VAL	O-C-N	-5.00	116.31	122.57
1	F	105	ARG	NE-CZ-NH2	5.00	123.70	119.20
1	H	176	GLU	CA-C-O	5.00	125.72	119.97
1	I	359	ALA	CA-C-N	5.00	132.30	121.64
1	I	359	ALA	C-N-CA	5.00	132.30	121.64
1	J	334	VAL	CB-CA-C	-5.00	103.08	111.29
1	L	473	LYS	CA-CB-CG	5.00	124.11	114.10
1	M	87	LYS	N-CA-C	-5.00	105.73	111.14
1	O	277	ALA	N-CA-CB	-5.00	102.31	110.42
1	C	245	GLU	CB-CA-C	5.00	120.37	110.42
1	D	292	MET	O-C-N	-5.00	116.89	122.09
1	G	66	ARG	CA-CB-CG	5.00	124.11	114.10
1	H	127	ALA	O-C-N	5.00	129.27	122.37
1	J	54	ASP	CA-CB-CG	5.00	117.60	112.60
1	K	465	GLY	O-C-N	5.00	129.20	122.70
1	L	205	ASP	CB-CA-C	-5.00	102.69	110.94
1	M	157	SER	CB-CA-C	5.00	120.44	109.99
1	N	234	LEU	O-C-N	5.00	128.92	123.27
1	P	72	HIS	CB-CA-C	5.00	120.03	110.17
1	P	85	GLN	CB-CA-C	5.00	119.85	110.70
1	P	322	GLU	CA-C-O	-5.00	114.91	120.66
1	P	326	ILE	CA-CB-CG2	5.00	119.00	110.50
1	P	416	GLU	CB-CG-CD	5.00	121.10	112.60

All (924) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	7	VAL	CA
1	A	8	LEU	CA
1	A	10	GLU	CA
1	A	15	TYR	CA
1	A	30	ILE	CB
1	A	39	LEU	CA
1	A	42	LYS	CA
1	A	63	THR	CA
1	A	72	HIS	CA
1	A	79	ILE	CB
1	A	84	THR	CA,CB
1	A	93	THR	CB
1	A	111	LEU	CA
1	A	112	ASP	CA
1	A	113	GLN	CA
1	A	115	VAL	CA
1	A	116	HIS	CA
1	A	129	GLN	CA
1	A	135	LEU	CA
1	A	138	ILE	CB
1	A	139	ALA	CA
1	A	141	GLU	CA
1	A	145	GLN	CA
1	A	153	ILE	CA
1	A	159	THR	CB
1	A	187	LYS	CA
1	A	201	ALA	CA
1	A	203	ILE	CB
1	A	210	LYS	CA
1	A	212	VAL	CA
1	A	215	ASP	CA
1	A	216	LYS	CA
1	A	228	THR	CA
1	A	229	ASP	CA
1	A	237	CYS	CA
1	A	242	THR	CB,CA
1	A	243	ALA	CA
1	A	256	ALA	CA
1	A	260	ASN	CA
1	A	289	LYS	CA
1	A	293	GLU	CA
1	A	294	LYS	CA
1	A	297	LYS	CA

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Mol	Chain	Res	Type	Atom
1	A	305	THR	CA,CB
1	A	307	ILE	CB
1	A	308	LYS	CA
1	A	313	GLN	CA
1	A	315	LEU	CA
1	A	326	ILE	CB
1	A	336	GLU	CA
1	A	352	GLU	CA
1	A	354	VAL	CA
1	A	356	GLU	CA
1	A	359	ALA	CA
1	A	372	THR	CA
1	A	403	ARG	CA
1	A	414	ALA	CA
1	A	421	THR	CB
1	A	428	LEU	CA
1	A	429	ASP	CA
1	A	431	ILE	CA
1	A	444	ASN	CA
1	A	448	CYS	CA
1	A	471	ARG	CA
1	A	477	ILE	CB,CA
1	A	479	SER	CA
1	A	496	ALA	CA
1	B	16	MET	CA
1	B	19	ASP	CA
1	B	39	LEU	CA
1	B	51	ASP	CA
1	B	63	THR	CA
1	B	79	ILE	CB
1	B	86	GLU	CA
1	B	88	GLU	CA
1	B	93	THR	CB
1	B	94	THR	CB
1	B	113	GLN	CA
1	B	116	HIS	CA
1	B	136	LYS	CA
1	B	139	ALA	CA
1	B	155	MET	CA
1	B	158	ILE	CB
1	B	159	THR	CB
1	B	180	ALA	CA

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Mol	Chain	Res	Type	Atom
1	B	188	VAL	CA
1	B	192	LEU	CA
1	B	201	ALA	CA
1	B	210	LYS	CA
1	B	239	ILE	CB
1	B	242	THR	CB
1	B	244	SER	CA
1	B	246	MET	CA
1	B	260	ASN	CA
1	B	273	GLN	CA
1	B	289	LYS	CA
1	B	302	ASN	CA
1	B	305	THR	CA,CB
1	B	307	ILE	CA,CB
1	B	313	GLN	CA
1	B	314	ASP	CA
1	B	325	LYS	CA
1	B	348	ARG	CA
1	B	350	THR	CA
1	B	356	GLU	CA
1	B	365	ALA	CA
1	B	395	GLU	CA
1	B	401	SER	CA
1	B	403	ARG	CA
1	B	414	ALA	CA
1	B	415	LEU	CA
1	B	417	VAL	CA
1	B	421	THR	CB
1	B	430	ALA	CA
1	B	449	ALA	CA
1	B	461	MET	CA
1	B	463	GLU	CA
1	B	479	SER	CA
1	B	494	ILE	CB
1	B	495	ALA	CA
1	C	10	GLU	CA
1	C	12	MET	CA
1	C	39	LEU	CA
1	C	42	LYS	CA
1	C	64	ILE	CB
1	C	81	VAL	CA
1	C	87	LYS	CA

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Mol	Chain	Res	Type	Atom
1	C	93	THR	CB
1	C	111	LEU	CA
1	C	114	ASN	CA
1	C	115	VAL	CA
1	C	116	HIS	CA
1	C	118	THR	CA,CB
1	C	133	GLU	CA
1	C	141	GLU	CA
1	C	142	VAL	CA
1	C	145	GLN	CA
1	C	147	LYS	CA
1	C	148	GLU	CA
1	C	156	THR	CB
1	C	158	ILE	CB
1	C	201	ALA	CA
1	C	205	ASP	CA
1	C	210	LYS	CA
1	C	215	ASP	CA
1	C	216	LYS	CA
1	C	237	CYS	CA
1	C	239	ILE	CB
1	C	242	THR	CB
1	C	243	ALA	CA
1	C	247	LEU	CA
1	C	270	ASP	CA
1	C	271	LEU	CA
1	C	273	GLN	CA
1	C	302	ASN	CA
1	C	304	ILE	CB
1	C	305	THR	CA,CB
1	C	315	LEU	CA
1	C	330	SER	CA
1	C	351	THR	CA
1	C	368	VAL	CA
1	C	373	ILE	CB
1	C	379	VAL	CA
1	C	400	ILE	CA
1	C	401	SER	CA
1	C	403	ARG	CA
1	C	414	ALA	CA
1	C	421	THR	CB
1	C	448	CYS	CA

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Mol	Chain	Res	Type	Atom
1	C	455	THR	CB
1	C	461	MET	CA
1	C	477	ILE	CB
1	C	485	GLU	CA
1	C	489	ARG	CA
1	C	497	GLU	CA
1	D	7	VAL	CA
1	D	8	LEU	CA
1	D	11	ASN	CA
1	D	27	ALA	CA
1	D	31	ILE	CA,CB
1	D	34	THR	CB
1	D	39	LEU	CA
1	D	88	GLU	CA
1	D	89	VAL	CA
1	D	93	THR	CB
1	D	94	THR	CA
1	D	110	LEU	CA
1	D	112	ASP	CA
1	D	113	GLN	CA
1	D	116	HIS	CA
1	D	118	THR	CB
1	D	136	LYS	CA
1	D	141	GLU	CA
1	D	144	ALA	CA
1	D	158	ILE	CB
1	D	159	THR	CB
1	D	172	GLU	CA
1	D	188	VAL	CA
1	D	201	ALA	CA
1	D	210	LYS	CA
1	D	216	LYS	CA
1	D	224	PRO	CA
1	D	237	CYS	CA
1	D	239	ILE	CA
1	D	243	ALA	CA
1	D	260	ASN	CA
1	D	289	LYS	CA
1	D	290	SER	CA
1	D	294	LYS	CA
1	D	305	THR	CA,CB
1	D	307	ILE	CB

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Mol	Chain	Res	Type	Atom
1	D	309	ASP	CA
1	D	313	GLN	CA
1	D	330	SER	CA
1	D	347	ILE	CB,CA
1	D	351	THR	CB
1	D	355	ILE	CB
1	D	369	VAL	CA
1	D	372	THR	CB
1	D	401	SER	CA
1	D	403	ARG	CA
1	D	414	ALA	CA
1	D	422	LEU	CA
1	D	428	LEU	CA
1	D	432	GLU	CA
1	D	433	ILE	CB
1	D	451	LEU	CA
1	D	476	ALA	CA
1	D	477	ILE	CA
1	D	479	SER	CA
1	D	485	GLU	CA
1	D	489	ARG	CA
1	E	37	SER	CA
1	E	39	LEU	CA
1	E	51	ASP	CA
1	E	88	GLU	CA
1	E	94	THR	CB,CA
1	E	113	GLN	CA
1	E	115	VAL	CA
1	E	116	HIS	CA
1	E	131	ALA	CA
1	E	147	LYS	CA
1	E	153	ILE	CA
1	E	155	MET	CA
1	E	158	ILE	CB
1	E	178	VAL	CA
1	E	201	ALA	CA
1	E	229	ASP	CA
1	E	237	CYS	CA
1	E	243	ALA	CA
1	E	245	GLU	CA
1	E	257	SER	CA
1	E	260	ASN	CA

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Mol	Chain	Res	Type	Atom
1	E	273	GLN	CA
1	E	274	HIS	CA
1	E	289	LYS	CA
1	E	291	ASP	CA
1	E	304	ILE	CB
1	E	305	THR	CA,CB
1	E	307	ILE	CA
1	E	313	GLN	CA
1	E	315	LEU	CA
1	E	347	ILE	CA
1	E	350	THR	CA
1	E	355	ILE	CB
1	E	356	GLU	CA
1	E	368	VAL	CA
1	E	369	VAL	CA
1	E	400	ILE	CA
1	E	401	SER	CA
1	E	403	ARG	CA
1	E	417	VAL	CA
1	E	421	THR	CB
1	E	432	GLU	CA
1	E	447	LYS	CA
1	E	449	ALA	CA
1	E	461	MET	CA
1	E	488	LEU	CA
1	E	489	ARG	CA
1	E	496	ALA	CA
1	E	497	GLU	CA
1	F	7	VAL	CA
1	F	31	ILE	CA
1	F	37	SER	CA
1	F	39	LEU	CA
1	F	59	ASN	CA
1	F	66	ARG	CA
1	F	72	HIS	CA
1	F	111	LEU	CA
1	F	113	GLN	CA
1	F	115	VAL	CA
1	F	116	HIS	CA
1	F	144	ALA	CA
1	F	147	LYS	CA
1	F	148	GLU	CA

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Mol	Chain	Res	Type	Atom
1	F	153	ILE	CB
1	F	155	MET	CA
1	F	156	THR	CA,CB
1	F	159	THR	CB
1	F	178	VAL	CA
1	F	203	ILE	CB
1	F	204	ASP	CA
1	F	205	ASP	CA
1	F	210	LYS	CA
1	F	222	GLN	CA
1	F	237	CYS	CA
1	F	239	ILE	CB
1	F	242	THR	CB,CA
1	F	243	ALA	CA
1	F	244	SER	CA
1	F	260	ASN	CA
1	F	276	LEU	CA
1	F	281	ILE	CB,CA
1	F	291	ASP	CA
1	F	293	GLU	CA
1	F	294	LYS	CA
1	F	304	ILE	CB
1	F	307	ILE	CB
1	F	313	GLN	CA
1	F	315	LEU	CA
1	F	330	SER	CA
1	F	352	GLU	CA
1	F	354	VAL	CA
1	F	360	ARG	CA
1	F	379	VAL	CA
1	F	400	ILE	CB
1	F	414	ALA	CA
1	F	415	LEU	CA
1	F	430	ALA	CA
1	F	442	ALA	CA
1	F	448	CYS	CA
1	F	451	LEU	CA
1	F	463	GLU	CA
1	F	474	THR	CB
1	F	489	ARG	CA
1	F	496	ALA	CA
1	G	8	LEU	CA

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Mol	Chain	Res	Type	Atom
1	G	11	ASN	CA
1	G	30	ILE	CB
1	G	31	ILE	CA,CB
1	G	39	LEU	CA
1	G	42	LYS	CA
1	G	63	THR	CA
1	G	69	SER	CA
1	G	71	GLU	CA
1	G	72	HIS	CA
1	G	94	THR	CA
1	G	99	VAL	CA
1	G	111	LEU	CA
1	G	115	VAL	CA
1	G	116	HIS	CA
1	G	118	THR	CB
1	G	139	ALA	CA
1	G	141	GLU	CA
1	G	144	ALA	CA
1	G	155	MET	CA
1	G	156	THR	CB
1	G	190	LYS	CA
1	G	191	ASP	CA
1	G	192	LEU	CA
1	G	201	ALA	CA
1	G	210	LYS	CA
1	G	216	LYS	CA
1	G	236	ASN	CA
1	G	237	CYS	CA
1	G	239	ILE	CB
1	G	245	GLU	CA
1	G	246	MET	CA
1	G	247	LEU	CA
1	G	257	SER	CA
1	G	266	LYS	CA
1	G	271	LEU	CA
1	G	276	LEU	CA
1	G	278	LYS	CA
1	G	289	LYS	CA
1	G	291	ASP	CA
1	G	293	GLU	CA
1	G	302	ASN	CA
1	G	304	ILE	CB

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Mol	Chain	Res	Type	Atom
1	G	305	THR	CA,CB
1	G	307	ILE	CB
1	G	313	GLN	CA
1	G	317	ASP	CA
1	G	352	GLU	CA
1	G	359	ALA	CA
1	G	385	THR	CB
1	G	403	ARG	CA
1	G	421	THR	CB
1	G	426	ALA	CA
1	G	429	ASP	CA
1	G	431	ILE	CA
1	G	432	GLU	CA
1	G	449	ALA	CA
1	G	451	LEU	CA
1	G	466	VAL	CA
1	G	484	THR	CA
1	G	497	GLU	CA
1	H	7	VAL	CA
1	H	11	ASN	CA
1	H	12	MET	CA
1	H	25	ILE	CB
1	H	31	ILE	CA
1	H	38	THR	CB
1	H	39	LEU	CA
1	H	76	LYS	CA
1	H	81	VAL	CA
1	H	89	VAL	CA
1	H	93	THR	CB
1	H	94	THR	CB
1	H	112	ASP	CA
1	H	113	GLN	CA
1	H	116	HIS	CA
1	H	118	THR	CB
1	H	124	TYR	CA
1	H	142	VAL	CA
1	H	147	LYS	CA
1	H	148	GLU	CA
1	H	158	ILE	CB
1	H	166	ALA	CA
1	H	172	GLU	CA
1	H	188	VAL	CA

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Mol	Chain	Res	Type	Atom
1	H	201	ALA	CA
1	H	204	ASP	CA
1	H	205	ASP	CA
1	H	210	LYS	CA
1	H	215	ASP	CA
1	H	224	PRO	CA
1	H	228	THR	CA
1	H	237	CYS	CA
1	H	247	LEU	CA
1	H	248	LYS	CA
1	H	266	LYS	CA
1	H	286	ARG	CA
1	H	293	GLU	CA
1	H	294	LYS	CA
1	H	302	ASN	CA
1	H	304	ILE	CB
1	H	305	THR	CA,CB
1	H	306	ASN	CA
1	H	307	ILE	CB
1	H	341	LYS	CA
1	H	354	VAL	CA
1	H	362	VAL	CA
1	H	368	VAL	CA
1	H	401	SER	CA
1	H	414	ALA	CA
1	H	415	LEU	CA
1	H	421	THR	CA
1	H	430	ALA	CA
1	H	431	ILE	CB
1	H	432	GLU	CA
1	H	449	ALA	CA
1	H	472	VAL	CA
1	H	478	GLN	CA
1	H	484	THR	CA
1	H	489	ARG	CA
1	H	494	ILE	CB
1	I	7	VAL	CA
1	I	18	ARG	CA
1	I	30	ILE	CB
1	I	31	ILE	CA,CB
1	I	35	VAL	CA
1	I	38	THR	CB

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Mol	Chain	Res	Type	Atom
1	I	64	ILE	CB
1	I	88	GLU	CA
1	I	93	THR	CB
1	I	116	HIS	CA
1	I	118	THR	CB
1	I	129	GLN	CA
1	I	134	LEU	CA
1	I	145	GLN	CA
1	I	147	LYS	CA
1	I	152	LYS	CA
1	I	153	ILE	CA,CB
1	I	155	MET	CA
1	I	165	LYS	CA
1	I	172	GLU	CA
1	I	188	VAL	CA
1	I	201	ALA	CA
1	I	203	ILE	CA
1	I	210	LYS	CA
1	I	228	THR	CA
1	I	237	CYS	CA
1	I	239	ILE	CB
1	I	243	ALA	CA
1	I	257	SER	CA
1	I	260	ASN	CA
1	I	266	LYS	CA
1	I	270	ASP	CA
1	I	273	GLN	CA
1	I	294	LYS	CA
1	I	299	THR	CA
1	I	305	THR	CB
1	I	307	ILE	CB
1	I	313	GLN	CA
1	I	314	ASP	CA
1	I	315	LEU	CA
1	I	330	SER	CA
1	I	336	GLU	CA
1	I	352	GLU	CA
1	I	354	VAL	CA
1	I	356	GLU	CA
1	I	357	GLU	CA
1	I	359	ALA	CA
1	I	379	VAL	CA

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Mol	Chain	Res	Type	Atom
1	I	380	SER	CA
1	I	401	SER	CA
1	I	417	VAL	CA
1	I	421	THR	CA
1	I	422	LEU	CA
1	I	449	ALA	CA
1	I	471	ARG	CA
1	I	489	ARG	CA
1	I	493	VAL	CA
1	I	496	ALA	CA
1	J	7	VAL	CA
1	J	18	ARG	CA
1	J	31	ILE	CA
1	J	34	THR	CB
1	J	35	VAL	CA
1	J	37	SER	CA
1	J	39	LEU	CA
1	J	65	LEU	CA
1	J	77	MET	CA
1	J	86	GLU	CA
1	J	87	LYS	CA
1	J	93	THR	CB
1	J	97	VAL	CA
1	J	111	LEU	CA
1	J	115	VAL	CA
1	J	116	HIS	CA
1	J	118	THR	CB
1	J	134	LEU	CA
1	J	156	THR	CA,CB
1	J	168	GLU	CA
1	J	185	GLU	CA
1	J	187	LYS	CA
1	J	192	LEU	CA
1	J	201	ALA	CA
1	J	210	LYS	CA
1	J	216	LYS	CA
1	J	229	ASP	CA
1	J	237	CYS	CA
1	J	245	GLU	CA
1	J	247	LEU	CA
1	J	260	ASN	CA
1	J	266	LYS	CA

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Mol	Chain	Res	Type	Atom
1	J	271	LEU	CA
1	J	293	GLU	CA
1	J	297	LYS	CA
1	J	302	ASN	CA
1	J	305	THR	CA
1	J	307	ILE	CA,CB
1	J	311	SER	CA
1	J	315	LEU	CA
1	J	337	CYS	CA
1	J	347	ILE	CB
1	J	351	THR	CB
1	J	354	VAL	CA
1	J	371	CYS	CA
1	J	372	THR	CB
1	J	395	GLU	CA
1	J	401	SER	CA
1	J	448	CYS	CA
1	J	489	ARG	CA
1	J	497	GLU	CA
1	K	10	GLU	CA
1	K	12	MET	CA
1	K	15	TYR	CA
1	K	31	ILE	CA,CB
1	K	38	THR	CA
1	K	81	VAL	CA
1	K	83	LYS	CA
1	K	86	GLU	CA
1	K	93	THR	CB
1	K	94	THR	CA,CB
1	K	95	THR	CB
1	K	97	VAL	CA
1	K	115	VAL	CA
1	K	116	HIS	CA
1	K	118	THR	CB
1	K	136	LYS	CA
1	K	139	ALA	CA
1	K	141	GLU	CA
1	K	159	THR	CB
1	K	201	ALA	CA
1	K	210	LYS	CA
1	K	237	CYS	CA
1	K	243	ALA	CA

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Mol	Chain	Res	Type	Atom
1	K	257	SER	CA
1	K	260	ASN	CA
1	K	286	ARG	CA
1	K	289	LYS	CA
1	K	294	LYS	CA
1	K	301	ALA	CA
1	K	302	ASN	CA
1	K	305	THR	CA,CB
1	K	307	ILE	CB
1	K	308	LYS	CA
1	K	313	GLN	CA
1	K	314	ASP	CA
1	K	337	CYS	CA
1	K	351	THR	CA
1	K	352	GLU	CA
1	K	355	ILE	CB
1	K	356	GLU	CA
1	K	359	ALA	CA
1	K	360	ARG	CA
1	K	371	CYS	CA
1	K	384	SER	CA
1	K	401	SER	CA
1	K	403	ARG	CA
1	K	414	ALA	CA
1	K	417	VAL	CA
1	K	429	ASP	CA
1	K	430	ALA	CA
1	K	432	GLU	CA
1	K	439	ALA	CA
1	K	477	ILE	CB
1	K	489	ARG	CA
1	L	10	GLU	CA
1	L	12	MET	CA
1	L	18	ARG	CA
1	L	31	ILE	CA
1	L	39	LEU	CA
1	L	63	THR	CB
1	L	67	GLU	CA
1	L	93	THR	CB
1	L	94	THR	CB
1	L	113	GLN	CA
1	L	116	HIS	CA

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Mol	Chain	Res	Type	Atom
1	L	148	GLU	CA
1	L	172	GLU	CA
1	L	188	VAL	CA
1	L	201	ALA	CA
1	L	210	LYS	CA
1	L	237	CYS	CA
1	L	239	ILE	CB
1	L	242	THR	CA
1	L	243	ALA	CA
1	L	260	ASN	CA
1	L	270	ASP	CA
1	L	276	LEU	CA
1	L	293	GLU	CA
1	L	298	ALA	CA
1	L	305	THR	CA
1	L	313	GLN	CA
1	L	315	LEU	CA
1	L	336	GLU	CA
1	L	350	THR	CA
1	L	352	GLU	CA
1	L	374	GLU	CA
1	L	401	SER	CA
1	L	403	ARG	CA
1	L	414	ALA	CA
1	L	417	VAL	CA
1	L	429	ASP	CA
1	L	430	ALA	CA
1	L	443	SER	CA
1	L	462	CYS	CA
1	L	471	ARG	CA
1	L	479	SER	CA
1	L	487	LEU	CA
1	L	489	ARG	CA
1	M	7	VAL	CA
1	M	9	PRO	CA
1	M	11	ASN	CA
1	M	30	ILE	CA
1	M	35	VAL	CA
1	M	39	LEU	CA
1	M	51	ASP	CA
1	M	88	GLU	CA
1	M	89	VAL	CA

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Mol	Chain	Res	Type	Atom
1	M	93	THR	CB
1	M	94	THR	CA,CB
1	M	112	ASP	CA
1	M	113	GLN	CA
1	M	115	VAL	CA
1	M	116	HIS	CA
1	M	129	GLN	CA
1	M	148	GLU	CA
1	M	166	ALA	CA
1	M	188	VAL	CA
1	M	192	LEU	CA
1	M	201	ALA	CA
1	M	210	LYS	CA
1	M	215	ASP	CA
1	M	216	LYS	CA
1	M	222	GLN	CA
1	M	242	THR	CB
1	M	243	ALA	CA
1	M	244	SER	CA
1	M	256	ALA	CA
1	M	260	ASN	CA
1	M	270	ASP	CA
1	M	288	LYS	CA
1	M	291	ASP	CA
1	M	302	ASN	CA
1	M	305	THR	CA,CB
1	M	306	ASN	CA
1	M	307	ILE	CB
1	M	313	GLN	CA
1	M	336	GLU	CA
1	M	341	LYS	CA
1	M	350	THR	CA
1	M	380	SER	CA
1	M	384	SER	CA
1	M	417	VAL	CA
1	M	429	ASP	CA
1	M	434	LEU	CA
1	M	448	CYS	CA
1	M	449	ALA	CA
1	M	451	LEU	CA
1	M	455	THR	CB
1	M	480	ALA	CA

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Mol	Chain	Res	Type	Atom
1	M	494	ILE	CB
1	N	11	ASN	CA
1	N	18	ARG	CA
1	N	31	ILE	CA
1	N	37	SER	CA
1	N	39	LEU	CA
1	N	55	VAL	CA
1	N	59	ASN	CA
1	N	88	GLU	CA
1	N	99	VAL	CA
1	N	118	THR	CB
1	N	129	GLN	CA
1	N	136	LYS	CA
1	N	138	ILE	CB
1	N	142	VAL	CA
1	N	158	ILE	CB
1	N	159	THR	CB
1	N	161	LYS	CA
1	N	181	VAL	CA
1	N	188	VAL	CA
1	N	201	ALA	CA
1	N	203	ILE	CB
1	N	205	ASP	CA
1	N	210	LYS	CA
1	N	215	ASP	CA
1	N	224	PRO	CA
1	N	237	CYS	CA
1	N	239	ILE	CB
1	N	244	SER	CA
1	N	254	ILE	CB
1	N	260	ASN	CA
1	N	271	LEU	CA
1	N	273	GLN	CA
1	N	297	LYS	CA
1	N	302	ASN	CA
1	N	314	ASP	CA
1	N	351	THR	CA
1	N	356	GLU	CA
1	N	372	THR	CB
1	N	385	THR	CB
1	N	401	SER	CA
1	N	421	THR	CB

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Mol	Chain	Res	Type	Atom
1	N	430	ALA	CA
1	N	432	GLU	CA
1	N	447	LYS	CA
1	N	448	CYS	CA
1	N	449	ALA	CA
1	N	471	ARG	CA
1	N	487	LEU	CA
1	N	490	ILE	CB
1	N	496	ALA	CA
1	O	30	ILE	CB
1	O	31	ILE	CA
1	O	34	THR	CB
1	O	35	VAL	CA
1	O	39	LEU	CA
1	O	51	ASP	CA
1	O	65	LEU	CA
1	O	71	GLU	CA
1	O	84	THR	CB
1	O	113	GLN	CA
1	O	114	ASN	CA
1	O	116	HIS	CA
1	O	118	THR	CB
1	O	129	GLN	CA
1	O	131	ALA	CA
1	O	134	LEU	CA
1	O	147	LYS	CA
1	O	155	MET	CA
1	O	159	THR	CB
1	O	165	LYS	CA
1	O	185	GLU	CA
1	O	192	LEU	CA
1	O	201	ALA	CA
1	O	210	LYS	CA
1	O	216	LYS	CA
1	O	235	LEU	CA
1	O	239	ILE	CB
1	O	242	THR	CB
1	O	254	ILE	CB
1	O	260	ASN	CA
1	O	271	LEU	CA
1	O	276	LEU	CA
1	O	281	ILE	CB

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Mol	Chain	Res	Type	Atom
1	O	294	LYS	CA
1	O	298	ALA	CA
1	O	299	THR	CA
1	O	302	ASN	CA
1	O	304	ILE	CB
1	O	305	THR	CA,CB
1	O	308	LYS	CA
1	O	315	LEU	CA
1	O	350	THR	CA
1	O	351	THR	CB
1	O	352	GLU	CA
1	O	354	VAL	CA
1	O	357	GLU	CA
1	O	369	VAL	CA
1	O	372	THR	CB
1	O	380	SER	CA
1	O	401	SER	CA
1	O	403	ARG	CA
1	O	404	GLU	CA
1	O	414	ALA	CA
1	O	421	THR	CB
1	O	429	ASP	CA
1	O	463	GLU	CA
1	O	470	LEU	CA
1	O	478	GLN	CA
1	O	487	LEU	CA
1	O	489	ARG	CA
1	O	495	ALA	CA
1	O	496	ALA	CA
1	P	7	VAL	CA
1	P	12	MET	CA
1	P	30	ILE	CB
1	P	31	ILE	CA,CB
1	P	34	THR	CB
1	P	39	LEU	CA
1	P	42	LYS	CA
1	P	64	ILE	CB
1	P	65	LEU	CA
1	P	99	VAL	CA
1	P	110	LEU	CA
1	P	111	LEU	CA
1	P	113	GLN	CA

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Mol	Chain	Res	Type	Atom
1	P	116	HIS	CA
1	P	129	GLN	CA
1	P	134	LEU	CA
1	P	153	ILE	CB
1	P	156	THR	CB,CA
1	P	158	ILE	CB
1	P	159	THR	CB
1	P	163	ALA	CA
1	P	172	GLU	CA
1	P	187	LYS	CA
1	P	188	VAL	CA
1	P	201	ALA	CA
1	P	203	ILE	CA,CB
1	P	210	LYS	CA
1	P	216	LYS	CA
1	P	239	ILE	CB
1	P	242	THR	CB,CA
1	P	243	ALA	CA
1	P	244	SER	CA
1	P	247	LEU	CA
1	P	249	ASP	CA
1	P	260	ASN	CA
1	P	271	LEU	CA
1	P	273	GLN	CA
1	P	290	SER	CA
1	P	294	LYS	CA
1	P	299	THR	CA
1	P	302	ASN	CA
1	P	304	ILE	CB
1	P	305	THR	CA
1	P	307	ILE	CB
1	P	309	ASP	CA
1	P	313	GLN	CA
1	P	315	LEU	CA
1	P	341	LYS	CA
1	P	348	ARG	CA
1	P	351	THR	CA
1	P	368	VAL	CA
1	P	379	VAL	CA
1	P	385	THR	CB
1	P	401	SER	CA
1	P	426	ALA	CA

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Mol	Chain	Res	Type	Atom
1	P	430	ALA	CA
1	P	448	CYS	CA
1	P	449	ALA	CA
1	P	455	THR	CB
1	P	471	ARG	CA
1	P	489	ARG	CA
1	P	493	VAL	CA
1	P	496	ALA	CA

All (4314) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	10	GLU	Mainchain
1	A	100	ALA	Mainchain
1	A	103	LEU	Mainchain
1	A	106	LYS	Mainchain
1	A	109	GLU	Mainchain
1	A	11	ASN	Mainchain
1	A	110	LEU	Mainchain
1	A	111	LEU	Mainchain
1	A	112	ASP	Peptide,Mainchain
1	A	113	GLN	Mainchain
1	A	114	ASN	Mainchain
1	A	115	VAL	Mainchain
1	A	116	HIS	Mainchain
1	A	117	PRO	Peptide
1	A	12	MET	Peptide
1	A	123	GLY	Mainchain
1	A	124	TYR	Mainchain
1	A	129	GLN	Mainchain
1	A	135	LEU	Mainchain
1	A	138	ILE	Peptide
1	A	142	VAL	Mainchain
1	A	144	ALA	Mainchain
1	A	145	GLN	Mainchain
1	A	146	ASP	Mainchain
1	A	149	ILE	Mainchain
1	A	151	THR	Mainchain
1	A	155	MET	Mainchain
1	A	160	GLY	Mainchain
1	A	162	GLY	Mainchain
1	A	163	ALA	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	A	172	GLU	Mainchain
1	A	175	VAL	Mainchain
1	A	176	GLU	Mainchain
1	A	177	ALA	Mainchain
1	A	179	SER	Mainchain
1	A	181	VAL	Mainchain
1	A	186	GLY	Peptide,Mainchain
1	A	188	VAL	Mainchain
1	A	189	ASP	Mainchain
1	A	190	LYS	Mainchain
1	A	193	ILE	Mainchain
1	A	198	LYS	Mainchain
1	A	200	GLY	Peptide,Mainchain
1	A	201	ALA	Peptide
1	A	202	SER	Mainchain
1	A	204	ASP	Mainchain
1	A	205	ASP	Mainchain
1	A	206	THR	Mainchain
1	A	207	GLU	Mainchain
1	A	209	ILE	Mainchain
1	A	210	LYS	Mainchain
1	A	215	ASP	Mainchain
1	A	217	GLU	Mainchain
1	A	218	ARG	Mainchain
1	A	220	SER	Mainchain
1	A	221	ALA	Mainchain
1	A	222	GLN	Mainchain
1	A	223	MET	Mainchain
1	A	225	LYS	Mainchain
1	A	227	VAL	Mainchain
1	A	228	THR	Mainchain
1	A	229	ASP	Mainchain
1	A	23	MET	Mainchain
1	A	232	ILE	Mainchain
1	A	236	ASN	Peptide
1	A	237	CYS	Peptide,Mainchain
1	A	238	ALA	Mainchain
1	A	243	ALA	Mainchain
1	A	244	SER	Mainchain
1	A	247	LEU	Mainchain
1	A	252	ALA	Mainchain
1	A	255	LYS	Mainchain

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Mol	Chain	Res	Type	Group
1	A	257	SER	Mainchain
1	A	258	GLY	Mainchain
1	A	266	LYS	Mainchain
1	A	267	GLY	Mainchain
1	A	268	ILE	Mainchain
1	A	269	ASP	Mainchain
1	A	27	ALA	Mainchain
1	A	276	LEU	Mainchain
1	A	277	ALA	Mainchain
1	A	278	LYS	Mainchain
1	A	279	GLU	Peptide,Mainchain
1	A	28	GLY	Mainchain
1	A	281	ILE	Mainchain
1	A	284	ALA	Mainchain
1	A	285	ARG	Peptide
1	A	286	ARG	Mainchain
1	A	288	LYS	Mainchain
1	A	289	LYS	Mainchain
1	A	290	SER	Mainchain
1	A	294	LYS	Mainchain
1	A	297	LYS	Mainchain
1	A	298	ALA	Mainchain
1	A	301	ALA	Mainchain
1	A	302	ASN	Mainchain
1	A	304	ILE	Mainchain
1	A	305	THR	Mainchain
1	A	306	ASN	Mainchain
1	A	307	ILE	Peptide,Mainchain
1	A	309	ASP	Mainchain
1	A	310	LEU	Peptide
1	A	312	ALA	Mainchain
1	A	313	GLN	Peptide
1	A	314	ASP	Peptide,Mainchain
1	A	315	LEU	Peptide
1	A	316	GLY	Mainchain
1	A	317	ASP	Mainchain
1	A	318	ALA	Peptide
1	A	319	GLY	Mainchain
1	A	32	ALA	Mainchain
1	A	324	ARG	Mainchain
1	A	327	SER	Mainchain
1	A	328	GLY	Peptide

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Mol	Chain	Res	Type	Group
1	A	33	GLU	Mainchain
1	A	330	SER	Mainchain
1	A	335	GLU	Mainchain
1	A	337	CYS	Mainchain
1	A	338	LYS	Mainchain
1	A	340	PRO	Peptide,Mainchain
1	A	341	LYS	Mainchain
1	A	342	ALA	Mainchain
1	A	345	MET	Mainchain
1	A	346	LEU	Mainchain
1	A	349	GLY	Peptide
1	A	351	THR	Peptide
1	A	354	VAL	Mainchain
1	A	355	ILE	Peptide,Mainchain
1	A	356	GLU	Mainchain
1	A	357	GLU	Mainchain
1	A	361	ALA	Mainchain
1	A	363	ASP	Mainchain
1	A	364	ASP	Peptide
1	A	365	ALA	Mainchain
1	A	369	VAL	Mainchain
1	A	370	GLY	Mainchain
1	A	371	CYS	Mainchain
1	A	372	THR	Mainchain
1	A	373	ILE	Peptide,Mainchain
1	A	374	GLU	Mainchain
1	A	376	GLY	Mainchain
1	A	377	ARG	Mainchain
1	A	378	ILE	Mainchain
1	A	38	THR	Mainchain
1	A	380	SER	Mainchain
1	A	382	GLY	Peptide,Mainchain
1	A	383	GLY	Mainchain
1	A	384	SER	Mainchain
1	A	387	VAL	Mainchain
1	A	39	LEU	Mainchain
1	A	393	LEU	Mainchain
1	A	395	GLU	Mainchain
1	A	400	ILE	Peptide
1	A	406	LEU	Mainchain
1	A	407	ALA	Mainchain
1	A	409	ARG	Mainchain

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Mol	Chain	Res	Type	Group
1	A	412	ALA	Mainchain
1	A	415	LEU	Mainchain
1	A	416	GLU	Mainchain
1	A	42	LYS	Peptide,Mainchain
1	A	425	ASN	Mainchain
1	A	426	ALA	Mainchain
1	A	427	GLY	Peptide,Mainchain
1	A	428	LEU	Peptide,Mainchain
1	A	43	GLY	Peptide,Mainchain
1	A	430	ALA	Mainchain
1	A	434	LEU	Mainchain
1	A	438	ARG	Mainchain
1	A	44	MET	Mainchain
1	A	442	ALA	Mainchain
1	A	443	SER	Mainchain
1	A	444	ASN	Mainchain
1	A	447	LYS	Mainchain
1	A	448	CYS	Peptide
1	A	450	GLY	Mainchain
1	A	452	ASN	Mainchain
1	A	453	VAL	Mainchain
1	A	456	GLY	Mainchain
1	A	459	GLU	Mainchain
1	A	462	CYS	Mainchain
1	A	463	GLU	Mainchain
1	A	464	ASN	Mainchain
1	A	465	GLY	Mainchain
1	A	467	VAL	Mainchain
1	A	468	GLU	Mainchain
1	A	471	ARG	Peptide,Mainchain
1	A	472	VAL	Mainchain
1	A	478	GLN	Mainchain
1	A	480	ALA	Mainchain
1	A	482	GLU	Mainchain
1	A	484	THR	Mainchain
1	A	485	GLU	Peptide
1	A	486	MET	Mainchain
1	A	487	LEU	Mainchain
1	A	489	ARG	Mainchain
1	A	495	ALA	Peptide,Mainchain
1	A	51	ASP	Mainchain
1	A	53	GLY	Mainchain

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Mol	Chain	Res	Type	Group
1	A	55	VAL	Peptide,Mainchain
1	A	56	VAL	Mainchain
1	A	57	VAL	Mainchain
1	A	60	ASP	Mainchain
1	A	62	VAL	Mainchain
1	A	63	THR	Mainchain
1	A	68	MET	Mainchain
1	A	69	SER	Mainchain
1	A	70	VAL	Mainchain
1	A	71	GLU	Mainchain
1	A	74	ALA	Mainchain
1	A	75	ALA	Mainchain
1	A	77	MET	Mainchain
1	A	78	LEU	Mainchain
1	A	8	LEU	Peptide
1	A	82	ALA	Mainchain
1	A	83	LYS	Peptide,Mainchain
1	A	86	GLU	Mainchain
1	A	9	PRO	Peptide
1	A	90	GLY	Mainchain
1	A	93	THR	Mainchain
1	A	94	THR	Mainchain
1	A	95	THR	Peptide,Mainchain
1	A	97	VAL	Mainchain
1	B	10	GLU	Mainchain
1	B	100	ALA	Mainchain
1	B	101	GLY	Mainchain
1	B	102	GLU	Mainchain
1	B	104	LEU	Mainchain
1	B	105	ARG	Mainchain
1	B	106	LYS	Mainchain
1	B	108	GLU	Mainchain
1	B	11	ASN	Mainchain
1	B	111	LEU	Mainchain
1	B	112	ASP	Peptide,Mainchain
1	B	113	GLN	Peptide,Mainchain
1	B	115	VAL	Peptide,Mainchain
1	B	116	HIS	Mainchain
1	B	117	PRO	Mainchain
1	B	119	ILE	Mainchain
1	B	125	GLN	Mainchain
1	B	128	ALA	Mainchain

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Mol	Chain	Res	Type	Group
1	B	13	LYS	Mainchain
1	B	131	ALA	Mainchain
1	B	132	GLN	Mainchain
1	B	135	LEU	Mainchain
1	B	136	LYS	Mainchain
1	B	138	ILE	Peptide,Mainchain
1	B	139	ALA	Mainchain
1	B	14	ARG	Mainchain
1	B	140	CYS	Mainchain
1	B	141	GLU	Mainchain
1	B	144	ALA	Mainchain
1	B	146	ASP	Mainchain
1	B	150	LEU	Mainchain
1	B	152	LYS	Mainchain
1	B	153	ILE	Mainchain
1	B	154	ALA	Peptide,Mainchain
1	B	155	MET	Mainchain
1	B	159	THR	Mainchain
1	B	16	MET	Peptide,Mainchain
1	B	160	GLY	Mainchain
1	B	161	LYS	Mainchain
1	B	162	GLY	Mainchain
1	B	17	GLY	Peptide,Mainchain
1	B	170	LEU	Mainchain
1	B	172	GLU	Mainchain
1	B	173	ILE	Mainchain
1	B	175	VAL	Mainchain
1	B	176	GLU	Mainchain
1	B	177	ALA	Mainchain
1	B	18	ARG	Mainchain
1	B	181	VAL	Mainchain
1	B	182	VAL	Mainchain
1	B	187	LYS	Peptide,Mainchain
1	B	188	VAL	Mainchain
1	B	19	ASP	Mainchain
1	B	190	LYS	Mainchain
1	B	191	ASP	Peptide,Mainchain
1	B	192	LEU	Mainchain
1	B	197	LYS	Mainchain
1	B	199	SER	Mainchain
1	B	20	ALA	Mainchain
1	B	201	ALA	Mainchain

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Mol	Chain	Res	Type	Group
1	B	203	ILE	Mainchain
1	B	205	ASP	Mainchain
1	B	207	GLU	Mainchain
1	B	209	ILE	Mainchain
1	B	210	LYS	Peptide,Mainchain
1	B	215	ASP	Mainchain
1	B	216	LYS	Mainchain
1	B	218	ARG	Mainchain
1	B	219	VAL	Mainchain
1	B	221	ALA	Mainchain
1	B	222	GLN	Mainchain
1	B	224	PRO	Mainchain
1	B	228	THR	Mainchain
1	B	23	MET	Mainchain
1	B	232	ILE	Mainchain
1	B	234	LEU	Peptide
1	B	237	CYS	Mainchain
1	B	238	ALA	Mainchain
1	B	240	GLU	Mainchain
1	B	241	GLU	Mainchain
1	B	244	SER	Mainchain
1	B	25	ILE	Mainchain
1	B	252	ALA	Mainchain
1	B	255	LYS	Mainchain
1	B	259	ALA	Peptide
1	B	260	ASN	Mainchain
1	B	265	GLN	Mainchain
1	B	266	LYS	Mainchain
1	B	274	HIS	Mainchain
1	B	276	LEU	Mainchain
1	B	279	GLU	Mainchain
1	B	281	ILE	Mainchain
1	B	283	ALA	Mainchain
1	B	285	ARG	Peptide,Mainchain
1	B	288	LYS	Peptide,Mainchain
1	B	289	LYS	Peptide,Mainchain
1	B	290	SER	Mainchain
1	B	295	LEU	Mainchain
1	B	299	THR	Mainchain
1	B	30	ILE	Mainchain
1	B	301	ALA	Peptide,Mainchain
1	B	302	ASN	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	B	303	VAL	Mainchain
1	B	304	ILE	Mainchain
1	B	305	THR	Mainchain
1	B	306	ASN	Peptide,Mainchain
1	B	307	ILE	Mainchain
1	B	31	ILE	Mainchain
1	B	310	LEU	Mainchain
1	B	311	SER	Mainchain
1	B	312	ALA	Peptide,Mainchain
1	B	313	GLN	Peptide,Mainchain
1	B	314	ASP	Mainchain
1	B	318	ALA	Mainchain
1	B	319	GLY	Mainchain
1	B	320	LEU	Mainchain
1	B	327	SER	Peptide,Mainchain
1	B	328	GLY	Mainchain
1	B	329	ASP	Mainchain
1	B	331	MET	Mainchain
1	B	338	LYS	Mainchain
1	B	340	PRO	Mainchain
1	B	342	ALA	Mainchain
1	B	343	VAL	Mainchain
1	B	346	LEU	Mainchain
1	B	347	ILE	Mainchain
1	B	349	GLY	Peptide,Mainchain
1	B	35	VAL	Mainchain
1	B	350	THR	Peptide
1	B	351	THR	Mainchain
1	B	352	GLU	Mainchain
1	B	355	ILE	Peptide,Mainchain
1	B	358	VAL	Mainchain
1	B	359	ALA	Mainchain
1	B	36	ARG	Mainchain
1	B	360	ARG	Mainchain
1	B	363	ASP	Mainchain
1	B	364	ASP	Peptide,Mainchain
1	B	37	SER	Mainchain
1	B	371	CYS	Mainchain
1	B	372	THR	Peptide,Mainchain
1	B	373	ILE	Mainchain
1	B	374	GLU	Mainchain
1	B	375	ASP	Mainchain

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Mol	Chain	Res	Type	Group
1	B	376	GLY	Mainchain
1	B	377	ARG	Mainchain
1	B	378	ILE	Mainchain
1	B	379	VAL	Peptide
1	B	380	SER	Peptide,Mainchain
1	B	381	GLY	Peptide,Mainchain
1	B	384	SER	Mainchain
1	B	385	THR	Mainchain
1	B	388	GLU	Mainchain
1	B	389	LEU	Mainchain
1	B	393	LEU	Mainchain
1	B	396	TYR	Mainchain
1	B	398	GLU	Mainchain
1	B	406	LEU	Mainchain
1	B	409	ARG	Mainchain
1	B	41	PRO	Peptide
1	B	411	PHE	Mainchain
1	B	412	ALA	Mainchain
1	B	416	GLU	Mainchain
1	B	419	PRO	Mainchain
1	B	420	ARG	Mainchain
1	B	421	THR	Mainchain
1	B	425	ASN	Mainchain
1	B	43	GLY	Mainchain
1	B	430	ALA	Mainchain
1	B	431	ILE	Mainchain
1	B	434	LEU	Mainchain
1	B	44	MET	Mainchain
1	B	440	ALA	Mainchain
1	B	443	SER	Mainchain
1	B	445	GLY	Peptide
1	B	447	LYS	Mainchain
1	B	448	CYS	Peptide,Mainchain
1	B	452	ASN	Mainchain
1	B	459	GLU	Peptide,Mainchain
1	B	460	ASP	Mainchain
1	B	461	MET	Mainchain
1	B	463	GLU	Mainchain
1	B	465	GLY	Mainchain
1	B	466	VAL	Mainchain
1	B	467	VAL	Mainchain
1	B	469	PRO	Mainchain

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Mol	Chain	Res	Type	Group
1	B	470	LEU	Mainchain
1	B	471	ARG	Peptide,Mainchain
1	B	472	VAL	Mainchain
1	B	473	LYS	Mainchain
1	B	474	THR	Mainchain
1	B	475	GLN	Mainchain
1	B	477	ILE	Mainchain
1	B	481	ALA	Mainchain
1	B	482	GLU	Mainchain
1	B	485	GLU	Mainchain
1	B	486	MET	Mainchain
1	B	487	LEU	Mainchain
1	B	488	LEU	Mainchain
1	B	491	ASP	Mainchain
1	B	494	ILE	Mainchain
1	B	495	ALA	Mainchain
1	B	496	ALA	Mainchain
1	B	50	ASP	Peptide
1	B	52	LEU	Mainchain
1	B	54	ASP	Mainchain
1	B	55	VAL	Peptide
1	B	56	VAL	Mainchain
1	B	58	THR	Mainchain
1	B	60	ASP	Mainchain
1	B	62	VAL	Mainchain
1	B	68	MET	Mainchain
1	B	69	SER	Peptide
1	B	71	GLU	Mainchain
1	B	72	HIS	Mainchain
1	B	76	LYS	Mainchain
1	B	8	LEU	Mainchain
1	B	82	ALA	Mainchain
1	B	83	LYS	Mainchain
1	B	87	LYS	Peptide,Mainchain
1	B	89	VAL	Mainchain
1	B	90	GLY	Mainchain
1	B	91	ASP	Mainchain
1	B	92	GLY	Mainchain
1	B	93	THR	Mainchain
1	B	94	THR	Mainchain
1	B	95	THR	Mainchain
1	B	96	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	C	101	GLY	Mainchain
1	C	102	GLU	Mainchain
1	C	103	LEU	Mainchain
1	C	104	LEU	Mainchain
1	C	106	LYS	Mainchain
1	C	107	ALA	Mainchain
1	C	108	GLU	Mainchain
1	C	109	GLU	Mainchain
1	C	11	ASN	Peptide,Mainchain
1	C	112	ASP	Peptide
1	C	113	GLN	Peptide
1	C	115	VAL	Peptide
1	C	117	PRO	Peptide
1	C	119	ILE	Mainchain
1	C	12	MET	Peptide
1	C	121	VAL	Mainchain
1	C	123	GLY	Mainchain
1	C	133	GLU	Mainchain
1	C	135	LEU	Mainchain
1	C	136	LYS	Mainchain
1	C	137	THR	Mainchain
1	C	138	ILE	Mainchain
1	C	139	ALA	Mainchain
1	C	14	ARG	Mainchain
1	C	141	GLU	Peptide,Mainchain
1	C	143	GLY	Mainchain
1	C	145	GLN	Mainchain
1	C	146	ASP	Peptide
1	C	147	LYS	Mainchain
1	C	151	THR	Mainchain
1	C	156	THR	Mainchain
1	C	157	SER	Mainchain
1	C	159	THR	Mainchain
1	C	160	GLY	Mainchain
1	C	162	GLY	Mainchain
1	C	163	ALA	Peptide
1	C	165	LYS	Mainchain
1	C	167	LYS	Mainchain
1	C	168	GLU	Mainchain
1	C	17	GLY	Mainchain
1	C	170	LEU	Mainchain
1	C	171	ALA	Mainchain

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Mol	Chain	Res	Type	Group
1	C	172	GLU	Mainchain
1	C	176	GLU	Mainchain
1	C	178	VAL	Peptide,Mainchain
1	C	179	SER	Mainchain
1	C	182	VAL	Mainchain
1	C	183	ASP	Mainchain
1	C	187	LYS	Mainchain
1	C	188	VAL	Peptide,Mainchain
1	C	189	ASP	Mainchain
1	C	190	LYS	Mainchain
1	C	196	GLU	Mainchain
1	C	197	LYS	Mainchain
1	C	198	LYS	Peptide
1	C	199	SER	Mainchain
1	C	201	ALA	Peptide
1	C	204	ASP	Mainchain
1	C	205	ASP	Mainchain
1	C	206	THR	Mainchain
1	C	209	ILE	Mainchain
1	C	21	GLN	Mainchain
1	C	211	GLY	Mainchain
1	C	217	GLU	Mainchain
1	C	22	ARG	Mainchain
1	C	221	ALA	Peptide,Mainchain
1	C	225	LYS	Mainchain
1	C	226	LYS	Mainchain
1	C	228	THR	Mainchain
1	C	229	ASP	Mainchain
1	C	23	MET	Mainchain
1	C	232	ILE	Mainchain
1	C	233	ALA	Mainchain
1	C	235	LEU	Peptide,Mainchain
1	C	236	ASN	Mainchain
1	C	237	CYS	Mainchain
1	C	238	ALA	Mainchain
1	C	239	ILE	Mainchain
1	C	240	GLU	Mainchain
1	C	241	GLU	Mainchain
1	C	242	THR	Mainchain
1	C	245	GLU	Mainchain
1	C	249	ASP	Mainchain
1	C	255	LYS	Mainchain

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Mol	Chain	Res	Type	Group
1	C	257	SER	Mainchain
1	C	258	GLY	Mainchain
1	C	259	ALA	Mainchain
1	C	26	LEU	Mainchain
1	C	262	LEU	Mainchain
1	C	265	GLN	Mainchain
1	C	266	LYS	Mainchain
1	C	267	GLY	Mainchain
1	C	269	ASP	Mainchain
1	C	27	ALA	Mainchain
1	C	270	ASP	Peptide,Mainchain
1	C	277	ALA	Mainchain
1	C	279	GLU	Mainchain
1	C	28	GLY	Mainchain
1	C	280	GLY	Peptide
1	C	281	ILE	Mainchain
1	C	284	ALA	Mainchain
1	C	285	ARG	Mainchain
1	C	286	ARG	Mainchain
1	C	288	LYS	Mainchain
1	C	289	LYS	Mainchain
1	C	290	SER	Mainchain
1	C	291	ASP	Peptide,Mainchain
1	C	292	MET	Mainchain
1	C	296	ALA	Mainchain
1	C	297	LYS	Mainchain
1	C	30	ILE	Mainchain
1	C	300	GLY	Mainchain
1	C	301	ALA	Mainchain
1	C	302	ASN	Mainchain
1	C	303	VAL	Mainchain
1	C	304	ILE	Mainchain
1	C	306	ASN	Mainchain
1	C	307	ILE	Mainchain
1	C	308	LYS	Mainchain
1	C	310	LEU	Peptide
1	C	311	SER	Peptide
1	C	312	ALA	Mainchain
1	C	313	GLN	Mainchain
1	C	314	ASP	Mainchain
1	C	317	ASP	Mainchain
1	C	322	GLU	Mainchain

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Mol	Chain	Res	Type	Group
1	C	326	ILE	Mainchain
1	C	328	GLY	Mainchain
1	C	33	GLU	Mainchain
1	C	335	GLU	Peptide
1	C	336	GLU	Mainchain
1	C	339	HIS	Mainchain
1	C	341	LYS	Mainchain
1	C	343	VAL	Mainchain
1	C	346	LEU	Mainchain
1	C	347	ILE	Mainchain
1	C	348	ARG	Mainchain
1	C	349	GLY	Mainchain
1	C	350	THR	Peptide,Mainchain
1	C	351	THR	Mainchain
1	C	352	GLU	Mainchain
1	C	353	HIS	Mainchain
1	C	354	VAL	Mainchain
1	C	356	GLU	Mainchain
1	C	357	GLU	Mainchain
1	C	361	ALA	Peptide
1	C	366	VAL	Mainchain
1	C	367	GLY	Peptide
1	C	37	SER	Mainchain
1	C	370	GLY	Mainchain
1	C	371	CYS	Mainchain
1	C	372	THR	Mainchain
1	C	373	ILE	Mainchain
1	C	374	GLU	Mainchain
1	C	376	GLY	Peptide,Mainchain
1	C	377	ARG	Peptide,Mainchain
1	C	378	ILE	Mainchain
1	C	379	VAL	Mainchain
1	C	38	THR	Mainchain
1	C	380	SER	Peptide,Mainchain
1	C	381	GLY	Mainchain
1	C	384	SER	Mainchain
1	C	389	LEU	Mainchain
1	C	394	ARG	Mainchain
1	C	396	TYR	Mainchain
1	C	398	GLU	Peptide
1	C	399	GLY	Mainchain
1	C	40	GLY	Mainchain

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Mol	Chain	Res	Type	Group
1	C	400	ILE	Mainchain
1	C	401	SER	Mainchain
1	C	402	GLY	Peptide
1	C	403	ARG	Mainchain
1	C	405	GLN	Peptide,Mainchain
1	C	406	LEU	Mainchain
1	C	41	PRO	Mainchain
1	C	410	ALA	Mainchain
1	C	411	PHE	Mainchain
1	C	412	ALA	Mainchain
1	C	415	LEU	Mainchain
1	C	416	GLU	Mainchain
1	C	418	ILE	Mainchain
1	C	42	LYS	Mainchain
1	C	420	ARG	Mainchain
1	C	422	LEU	Mainchain
1	C	425	ASN	Mainchain
1	C	427	GLY	Peptide,Mainchain
1	C	428	LEU	Mainchain
1	C	429	ASP	Peptide
1	C	437	VAL	Mainchain
1	C	439	ALA	Mainchain
1	C	44	MET	Mainchain
1	C	443	SER	Mainchain
1	C	446	ASN	Mainchain
1	C	447	LYS	Mainchain
1	C	448	CYS	Mainchain
1	C	450	GLY	Peptide,Mainchain
1	C	452	ASN	Mainchain
1	C	453	VAL	Mainchain
1	C	454	PHE	Mainchain
1	C	455	THR	Mainchain
1	C	456	GLY	Mainchain
1	C	458	VAL	Mainchain
1	C	460	ASP	Mainchain
1	C	461	MET	Mainchain
1	C	462	CYS	Mainchain
1	C	463	GLU	Mainchain
1	C	467	VAL	Mainchain
1	C	469	PRO	Mainchain
1	C	478	GLN	Mainchain
1	C	486	MET	Mainchain

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Mol	Chain	Res	Type	Group
1	C	487	LEU	Mainchain
1	C	489	ARG	Mainchain
1	C	49	VAL	Mainchain
1	C	491	ASP	Mainchain
1	C	495	ALA	Peptide,Mainchain
1	C	496	ALA	Peptide
1	C	50	ASP	Peptide,Mainchain
1	C	51	ASP	Mainchain
1	C	52	LEU	Mainchain
1	C	55	VAL	Mainchain
1	C	56	VAL	Mainchain
1	C	57	VAL	Mainchain
1	C	60	ASP	Mainchain
1	C	62	VAL	Mainchain
1	C	63	THR	Mainchain
1	C	68	MET	Mainchain
1	C	70	VAL	Mainchain
1	C	71	GLU	Peptide,Mainchain
1	C	76	LYS	Mainchain
1	C	77	MET	Mainchain
1	C	79	ILE	Mainchain
1	C	8	LEU	Mainchain
1	C	80	GLU	Mainchain
1	C	81	VAL	Mainchain
1	C	85	GLN	Mainchain
1	C	86	GLU	Mainchain
1	C	87	LYS	Mainchain
1	C	89	VAL	Mainchain
1	C	9	PRO	Peptide,Mainchain
1	C	90	GLY	Mainchain
1	C	91	ASP	Mainchain
1	C	92	GLY	Mainchain
1	C	93	THR	Mainchain
1	C	95	THR	Mainchain
1	C	99	VAL	Mainchain
1	D	10	GLU	Mainchain
1	D	105	ARG	Mainchain
1	D	106	LYS	Mainchain
1	D	107	ALA	Mainchain
1	D	108	GLU	Mainchain
1	D	109	GLU	Mainchain
1	D	11	ASN	Mainchain

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Mol	Chain	Res	Type	Group
1	D	112	ASP	Peptide,Mainchain
1	D	113	GLN	Peptide,Mainchain
1	D	115	VAL	Peptide
1	D	119	ILE	Mainchain
1	D	12	MET	Peptide,Mainchain
1	D	120	VAL	Mainchain
1	D	122	LYS	Mainchain
1	D	123	GLY	Mainchain
1	D	124	TYR	Mainchain
1	D	125	GLN	Mainchain
1	D	128	ALA	Mainchain
1	D	129	GLN	Mainchain
1	D	13	LYS	Mainchain
1	D	130	LYS	Mainchain
1	D	135	LEU	Mainchain
1	D	136	LYS	Mainchain
1	D	137	THR	Mainchain
1	D	138	ILE	Peptide
1	D	14	ARG	Mainchain
1	D	141	GLU	Peptide
1	D	148	GLU	Mainchain
1	D	149	ILE	Mainchain
1	D	15	TYR	Peptide
1	D	150	LEU	Mainchain
1	D	151	THR	Mainchain
1	D	155	MET	Mainchain
1	D	156	THR	Mainchain
1	D	158	ILE	Mainchain
1	D	16	MET	Mainchain
1	D	161	LYS	Mainchain
1	D	162	GLY	Peptide
1	D	163	ALA	Peptide,Mainchain
1	D	165	LYS	Mainchain
1	D	169	LYS	Mainchain
1	D	17	GLY	Mainchain
1	D	171	ALA	Mainchain
1	D	184	ASP	Mainchain
1	D	185	GLU	Mainchain
1	D	187	LYS	Mainchain
1	D	189	ASP	Peptide
1	D	190	LYS	Mainchain
1	D	193	ILE	Mainchain

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Mol	Chain	Res	Type	Group
1	D	194	LYS	Mainchain
1	D	197	LYS	Mainchain
1	D	198	LYS	Mainchain
1	D	199	SER	Mainchain
1	D	200	GLY	Peptide,Mainchain
1	D	201	ALA	Peptide,Mainchain
1	D	205	ASP	Mainchain
1	D	206	THR	Mainchain
1	D	209	ILE	Mainchain
1	D	21	GLN	Peptide
1	D	212	VAL	Mainchain
1	D	214	VAL	Mainchain
1	D	217	GLU	Mainchain
1	D	218	ARG	Mainchain
1	D	220	SER	Mainchain
1	D	223	MET	Peptide
1	D	225	LYS	Mainchain
1	D	226	LYS	Mainchain
1	D	227	VAL	Mainchain
1	D	228	THR	Mainchain
1	D	229	ASP	Mainchain
1	D	23	MET	Mainchain
1	D	233	ALA	Mainchain
1	D	234	LEU	Mainchain
1	D	235	LEU	Mainchain
1	D	237	CYS	Mainchain
1	D	239	ILE	Mainchain
1	D	24	ASN	Mainchain
1	D	244	SER	Mainchain
1	D	246	MET	Mainchain
1	D	252	ALA	Mainchain
1	D	253	GLU	Mainchain
1	D	256	ALA	Mainchain
1	D	257	SER	Mainchain
1	D	258	GLY	Mainchain
1	D	259	ALA	Peptide
1	D	26	LEU	Mainchain
1	D	260	ASN	Mainchain
1	D	263	PHE	Mainchain
1	D	265	GLN	Mainchain
1	D	266	LYS	Mainchain
1	D	267	GLY	Mainchain

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Mol	Chain	Res	Type	Group
1	D	268	ILE	Mainchain
1	D	269	ASP	Peptide,Mainchain
1	D	27	ALA	Peptide,Mainchain
1	D	273	GLN	Mainchain
1	D	279	GLU	Mainchain
1	D	28	GLY	Mainchain
1	D	284	ALA	Peptide,Mainchain
1	D	285	ARG	Mainchain
1	D	286	ARG	Mainchain
1	D	287	VAL	Mainchain
1	D	289	LYS	Mainchain
1	D	29	ARG	Mainchain
1	D	290	SER	Mainchain
1	D	291	ASP	Peptide
1	D	292	MET	Mainchain
1	D	293	GLU	Peptide,Mainchain
1	D	294	LYS	Mainchain
1	D	295	LEU	Mainchain
1	D	296	ALA	Mainchain
1	D	300	GLY	Mainchain
1	D	301	ALA	Mainchain
1	D	305	THR	Mainchain
1	D	306	ASN	Peptide,Mainchain
1	D	307	ILE	Mainchain
1	D	308	LYS	Peptide,Mainchain
1	D	31	ILE	Mainchain
1	D	310	LEU	Mainchain
1	D	311	SER	Mainchain
1	D	312	ALA	Peptide,Mainchain
1	D	313	GLN	Peptide
1	D	314	ASP	Mainchain
1	D	317	ASP	Mainchain
1	D	318	ALA	Mainchain
1	D	326	ILE	Mainchain
1	D	327	SER	Mainchain
1	D	328	GLY	Mainchain
1	D	329	ASP	Mainchain
1	D	334	VAL	Mainchain
1	D	336	GLU	Mainchain
1	D	337	CYS	Mainchain
1	D	338	LYS	Mainchain
1	D	340	PRO	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	D	341	LYS	Mainchain
1	D	342	ALA	Peptide
1	D	347	ILE	Mainchain
1	D	348	ARG	Mainchain
1	D	349	GLY	Peptide
1	D	35	VAL	Mainchain
1	D	350	THR	Peptide
1	D	351	THR	Mainchain
1	D	352	GLU	Mainchain
1	D	353	HIS	Mainchain
1	D	354	VAL	Mainchain
1	D	36	ARG	Mainchain
1	D	362	VAL	Mainchain
1	D	366	VAL	Mainchain
1	D	367	GLY	Mainchain
1	D	369	VAL	Mainchain
1	D	37	SER	Mainchain
1	D	370	GLY	Mainchain
1	D	375	ASP	Mainchain
1	D	376	GLY	Mainchain
1	D	377	ARG	Mainchain
1	D	379	VAL	Mainchain
1	D	380	SER	Peptide
1	D	381	GLY	Peptide,Mainchain
1	D	382	GLY	Mainchain
1	D	384	SER	Mainchain
1	D	385	THR	Mainchain
1	D	386	GLU	Mainchain
1	D	393	LEU	Mainchain
1	D	396	TYR	Mainchain
1	D	398	GLU	Mainchain
1	D	40	GLY	Mainchain
1	D	400	ILE	Mainchain
1	D	401	SER	Mainchain
1	D	403	ARG	Mainchain
1	D	404	GLU	Mainchain
1	D	405	GLN	Mainchain
1	D	406	LEU	Mainchain
1	D	407	ALA	Mainchain
1	D	408	VAL	Mainchain
1	D	41	PRO	Peptide,Mainchain
1	D	412	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	D	416	GLU	Mainchain
1	D	418	ILE	Mainchain
1	D	419	PRO	Mainchain
1	D	420	ARG	Mainchain
1	D	421	THR	Peptide,Mainchain
1	D	423	ALA	Mainchain
1	D	425	ASN	Peptide,Mainchain
1	D	427	GLY	Peptide
1	D	428	LEU	Mainchain
1	D	429	ASP	Mainchain
1	D	43	GLY	Mainchain
1	D	430	ALA	Mainchain
1	D	431	ILE	Mainchain
1	D	432	GLU	Mainchain
1	D	439	ALA	Mainchain
1	D	44	MET	Mainchain
1	D	440	ALA	Mainchain
1	D	443	SER	Mainchain
1	D	444	ASN	Mainchain
1	D	447	LYS	Mainchain
1	D	448	CYS	Mainchain
1	D	449	ALA	Mainchain
1	D	450	GLY	Mainchain
1	D	453	VAL	Mainchain
1	D	454	PHE	Mainchain
1	D	455	THR	Peptide
1	D	456	GLY	Mainchain
1	D	457	ALA	Mainchain
1	D	458	VAL	Mainchain
1	D	462	CYS	Mainchain
1	D	464	ASN	Mainchain
1	D	465	GLY	Mainchain
1	D	466	VAL	Mainchain
1	D	468	GLU	Mainchain
1	D	469	PRO	Mainchain
1	D	47	MET	Mainchain
1	D	470	LEU	Mainchain
1	D	471	ARG	Mainchain
1	D	473	LYS	Mainchain
1	D	474	THR	Mainchain
1	D	475	GLN	Mainchain
1	D	476	ALA	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	D	477	ILE	Mainchain
1	D	481	ALA	Mainchain
1	D	484	THR	Mainchain
1	D	485	GLU	Mainchain
1	D	486	MET	Mainchain
1	D	487	LEU	Mainchain
1	D	488	LEU	Mainchain
1	D	49	VAL	Mainchain
1	D	490	ILE	Peptide,Mainchain
1	D	491	ASP	Mainchain
1	D	493	VAL	Mainchain
1	D	494	ILE	Mainchain
1	D	495	ALA	Peptide,Mainchain
1	D	50	ASP	Mainchain
1	D	52	LEU	Mainchain
1	D	55	VAL	Peptide
1	D	56	VAL	Mainchain
1	D	57	VAL	Mainchain
1	D	58	THR	Mainchain
1	D	59	ASN	Mainchain
1	D	62	VAL	Mainchain
1	D	63	THR	Mainchain
1	D	68	MET	Peptide,Mainchain
1	D	7	VAL	Peptide,Mainchain
1	D	72	HIS	Mainchain
1	D	73	PRO	Mainchain
1	D	77	MET	Mainchain
1	D	78	LEU	Mainchain
1	D	79	ILE	Mainchain
1	D	8	LEU	Peptide,Mainchain
1	D	82	ALA	Mainchain
1	D	83	LYS	Mainchain
1	D	89	VAL	Mainchain
1	D	9	PRO	Peptide,Mainchain
1	D	90	GLY	Mainchain
1	D	91	ASP	Mainchain
1	D	92	GLY	Mainchain
1	D	93	THR	Peptide,Mainchain
1	D	94	THR	Mainchain
1	D	96	ALA	Mainchain
1	D	99	VAL	Peptide
1	E	10	GLU	Mainchain

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Mol	Chain	Res	Type	Group
1	E	100	ALA	Mainchain
1	E	102	GLU	Mainchain
1	E	103	LEU	Mainchain
1	E	107	ALA	Mainchain
1	E	110	LEU	Mainchain
1	E	111	LEU	Mainchain
1	E	112	ASP	Peptide,Mainchain
1	E	114	ASN	Mainchain
1	E	115	VAL	Mainchain
1	E	116	HIS	Mainchain
1	E	117	PRO	Mainchain
1	E	118	THR	Mainchain
1	E	119	ILE	Mainchain
1	E	12	MET	Mainchain
1	E	120	VAL	Mainchain
1	E	121	VAL	Mainchain
1	E	123	GLY	Mainchain
1	E	124	TYR	Mainchain
1	E	128	ALA	Mainchain
1	E	133	GLU	Mainchain
1	E	136	LYS	Mainchain
1	E	137	THR	Mainchain
1	E	138	ILE	Peptide
1	E	139	ALA	Peptide,Mainchain
1	E	140	CYS	Mainchain
1	E	144	ALA	Mainchain
1	E	145	GLN	Mainchain
1	E	150	LEU	Mainchain
1	E	154	ALA	Peptide,Mainchain
1	E	155	MET	Mainchain
1	E	157	SER	Mainchain
1	E	159	THR	Peptide,Mainchain
1	E	16	MET	Mainchain
1	E	160	GLY	Mainchain
1	E	162	GLY	Mainchain
1	E	163	ALA	Peptide
1	E	167	LYS	Mainchain
1	E	17	GLY	Mainchain
1	E	170	LEU	Mainchain
1	E	171	ALA	Mainchain
1	E	172	GLU	Mainchain
1	E	174	ILE	Mainchain

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Mol	Chain	Res	Type	Group
1	E	176	GLU	Mainchain
1	E	177	ALA	Mainchain
1	E	181	VAL	Mainchain
1	E	182	VAL	Mainchain
1	E	184	ASP	Mainchain
1	E	188	VAL	Peptide,Mainchain
1	E	189	ASP	Mainchain
1	E	19	ASP	Mainchain
1	E	190	LYS	Mainchain
1	E	191	ASP	Mainchain
1	E	195	ILE	Mainchain
1	E	196	GLU	Mainchain
1	E	197	LYS	Mainchain
1	E	20	ALA	Mainchain
1	E	200	GLY	Mainchain
1	E	201	ALA	Peptide,Mainchain
1	E	203	ILE	Mainchain
1	E	204	ASP	Mainchain
1	E	205	ASP	Mainchain
1	E	206	THR	Mainchain
1	E	207	GLU	Mainchain
1	E	209	ILE	Mainchain
1	E	21	GLN	Mainchain
1	E	210	LYS	Mainchain
1	E	217	GLU	Mainchain
1	E	22	ARG	Mainchain
1	E	220	SER	Peptide
1	E	221	ALA	Peptide,Mainchain
1	E	223	MET	Mainchain
1	E	225	LYS	Mainchain
1	E	228	THR	Mainchain
1	E	23	MET	Mainchain
1	E	236	ASN	Mainchain
1	E	237	CYS	Peptide,Mainchain
1	E	246	MET	Mainchain
1	E	25	ILE	Mainchain
1	E	253	GLU	Mainchain
1	E	255	LYS	Mainchain
1	E	257	SER	Peptide
1	E	258	GLY	Mainchain
1	E	259	ALA	Mainchain
1	E	26	LEU	Mainchain

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Mol	Chain	Res	Type	Group
1	E	263	PHE	Mainchain
1	E	265	GLN	Mainchain
1	E	266	LYS	Mainchain
1	E	267	GLY	Mainchain
1	E	268	ILE	Mainchain
1	E	269	ASP	Mainchain
1	E	270	ASP	Mainchain
1	E	273	GLN	Peptide
1	E	276	LEU	Mainchain
1	E	277	ALA	Peptide
1	E	28	GLY	Mainchain
1	E	280	GLY	Peptide
1	E	285	ARG	Peptide
1	E	286	ARG	Mainchain
1	E	287	VAL	Mainchain
1	E	288	LYS	Mainchain
1	E	289	LYS	Mainchain
1	E	293	GLU	Mainchain
1	E	295	LEU	Mainchain
1	E	30	ILE	Mainchain
1	E	300	GLY	Mainchain
1	E	301	ALA	Mainchain
1	E	305	THR	Mainchain
1	E	306	ASN	Peptide,Mainchain
1	E	307	ILE	Mainchain
1	E	308	LYS	Mainchain
1	E	309	ASP	Peptide
1	E	31	ILE	Mainchain
1	E	310	LEU	Peptide,Mainchain
1	E	312	ALA	Mainchain
1	E	313	GLN	Peptide,Mainchain
1	E	315	LEU	Mainchain
1	E	319	GLY	Mainchain
1	E	324	ARG	Mainchain
1	E	325	LYS	Mainchain
1	E	327	SER	Mainchain
1	E	328	GLY	Mainchain
1	E	333	PHE	Mainchain
1	E	334	VAL	Mainchain
1	E	335	GLU	Mainchain
1	E	336	GLU	Mainchain
1	E	338	LYS	Mainchain

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Mol	Chain	Res	Type	Group
1	E	341	LYS	Peptide,Mainchain
1	E	342	ALA	Mainchain
1	E	343	VAL	Mainchain
1	E	346	LEU	Mainchain
1	E	347	ILE	Mainchain
1	E	348	ARG	Mainchain
1	E	349	GLY	Peptide,Mainchain
1	E	350	THR	Peptide
1	E	352	GLU	Mainchain
1	E	353	HIS	Mainchain
1	E	354	VAL	Mainchain
1	E	356	GLU	Mainchain
1	E	357	GLU	Mainchain
1	E	361	ALA	Mainchain
1	E	362	VAL	Mainchain
1	E	363	ASP	Mainchain
1	E	366	VAL	Mainchain
1	E	367	GLY	Peptide
1	E	368	VAL	Peptide
1	E	369	VAL	Mainchain
1	E	37	SER	Mainchain
1	E	370	GLY	Mainchain
1	E	371	CYS	Mainchain
1	E	372	THR	Mainchain
1	E	373	ILE	Mainchain
1	E	374	GLU	Mainchain
1	E	375	ASP	Mainchain
1	E	376	GLY	Mainchain
1	E	377	ARG	Mainchain
1	E	379	VAL	Peptide
1	E	380	SER	Peptide,Mainchain
1	E	382	GLY	Peptide
1	E	383	GLY	Mainchain
1	E	39	LEU	Mainchain
1	E	393	LEU	Mainchain
1	E	395	GLU	Mainchain
1	E	396	TYR	Mainchain
1	E	398	GLU	Mainchain
1	E	400	ILE	Mainchain
1	E	401	SER	Mainchain
1	E	402	GLY	Mainchain
1	E	403	ARG	Mainchain

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Mol	Chain	Res	Type	Group
1	E	406	LEU	Mainchain
1	E	407	ALA	Mainchain
1	E	409	ARG	Peptide,Mainchain
1	E	410	ALA	Mainchain
1	E	412	ALA	Mainchain
1	E	416	GLU	Mainchain
1	E	420	ARG	Mainchain
1	E	423	ALA	Mainchain
1	E	425	ASN	Mainchain
1	E	426	ALA	Mainchain
1	E	427	GLY	Peptide
1	E	428	LEU	Mainchain
1	E	43	GLY	Mainchain
1	E	432	GLU	Mainchain
1	E	44	MET	Mainchain
1	E	442	ALA	Mainchain
1	E	446	ASN	Mainchain
1	E	447	LYS	Peptide
1	E	448	CYS	Mainchain
1	E	450	GLY	Mainchain
1	E	452	ASN	Mainchain
1	E	455	THR	Mainchain
1	E	456	GLY	Mainchain
1	E	457	ALA	Mainchain
1	E	459	GLU	Mainchain
1	E	46	LYS	Mainchain
1	E	461	MET	Mainchain
1	E	462	CYS	Mainchain
1	E	464	ASN	Mainchain
1	E	465	GLY	Mainchain
1	E	467	VAL	Mainchain
1	E	468	GLU	Mainchain
1	E	469	PRO	Mainchain
1	E	471	ARG	Peptide
1	E	478	GLN	Mainchain
1	E	48	LEU	Mainchain
1	E	483	SER	Mainchain
1	E	485	GLU	Mainchain
1	E	487	LEU	Peptide,Mainchain
1	E	488	LEU	Mainchain
1	E	489	ARG	Peptide
1	E	49	VAL	Mainchain

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Mol	Chain	Res	Type	Group
1	E	491	ASP	Mainchain
1	E	494	ILE	Mainchain
1	E	495	ALA	Peptide,Mainchain
1	E	496	ALA	Mainchain
1	E	50	ASP	Peptide,Mainchain
1	E	52	LEU	Mainchain
1	E	54	ASP	Mainchain
1	E	55	VAL	Peptide,Mainchain
1	E	56	VAL	Mainchain
1	E	57	VAL	Mainchain
1	E	58	THR	Mainchain
1	E	60	ASP	Mainchain
1	E	63	THR	Mainchain
1	E	67	GLU	Mainchain
1	E	68	MET	Mainchain
1	E	69	SER	Mainchain
1	E	7	VAL	Mainchain
1	E	72	HIS	Mainchain
1	E	8	LEU	Mainchain
1	E	82	ALA	Mainchain
1	E	84	THR	Mainchain
1	E	88	GLU	Mainchain
1	E	9	PRO	Mainchain
1	E	90	GLY	Mainchain
1	E	92	GLY	Mainchain
1	E	94	THR	Mainchain
1	E	95	THR	Mainchain
1	E	96	ALA	Mainchain
1	E	97	VAL	Mainchain
1	F	10	GLU	Mainchain
1	F	102	GLU	Mainchain
1	F	103	LEU	Mainchain
1	F	106	LYS	Mainchain
1	F	108	GLU	Mainchain
1	F	109	GLU	Mainchain
1	F	11	ASN	Mainchain
1	F	110	LEU	Mainchain
1	F	111	LEU	Mainchain
1	F	113	GLN	Mainchain
1	F	116	HIS	Mainchain
1	F	119	ILE	Mainchain
1	F	12	MET	Mainchain

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Mol	Chain	Res	Type	Group
1	F	121	VAL	Mainchain
1	F	124	TYR	Mainchain
1	F	125	GLN	Mainchain
1	F	128	ALA	Mainchain
1	F	129	GLN	Mainchain
1	F	132	GLN	Mainchain
1	F	133	GLU	Mainchain
1	F	135	LEU	Mainchain
1	F	136	LYS	Mainchain
1	F	137	THR	Mainchain
1	F	138	ILE	Mainchain
1	F	139	ALA	Mainchain
1	F	14	ARG	Mainchain
1	F	140	CYS	Peptide
1	F	141	GLU	Mainchain
1	F	142	VAL	Peptide
1	F	143	GLY	Peptide
1	F	144	ALA	Mainchain
1	F	145	GLN	Mainchain
1	F	146	ASP	Mainchain
1	F	147	LYS	Mainchain
1	F	149	ILE	Mainchain
1	F	15	TYR	Mainchain
1	F	151	THR	Mainchain
1	F	153	ILE	Peptide,Mainchain
1	F	154	ALA	Peptide
1	F	155	MET	Mainchain
1	F	16	MET	Mainchain
1	F	160	GLY	Mainchain
1	F	166	ALA	Mainchain
1	F	169	LYS	Mainchain
1	F	177	ALA	Mainchain
1	F	181	VAL	Mainchain
1	F	182	VAL	Mainchain
1	F	183	ASP	Mainchain
1	F	184	ASP	Mainchain
1	F	186	GLY	Peptide,Mainchain
1	F	187	LYS	Mainchain
1	F	188	VAL	Peptide,Mainchain
1	F	189	ASP	Peptide
1	F	191	ASP	Mainchain
1	F	198	LYS	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	F	199	SER	Mainchain
1	F	200	GLY	Mainchain
1	F	201	ALA	Mainchain
1	F	202	SER	Peptide
1	F	203	ILE	Peptide,Mainchain
1	F	204	ASP	Peptide,Mainchain
1	F	205	ASP	Mainchain
1	F	209	ILE	Mainchain
1	F	210	LYS	Peptide
1	F	215	ASP	Mainchain
1	F	217	GLU	Mainchain
1	F	221	ALA	Peptide
1	F	222	GLN	Peptide
1	F	223	MET	Mainchain
1	F	226	LYS	Mainchain
1	F	228	THR	Mainchain
1	F	229	ASP	Mainchain
1	F	230	ALA	Mainchain
1	F	232	ILE	Mainchain
1	F	234	LEU	Mainchain
1	F	236	ASN	Mainchain
1	F	237	CYS	Peptide,Mainchain
1	F	24	ASN	Mainchain
1	F	240	GLU	Peptide,Mainchain
1	F	243	ALA	Mainchain
1	F	246	MET	Mainchain
1	F	247	LEU	Mainchain
1	F	251	VAL	Mainchain
1	F	253	GLU	Mainchain
1	F	255	LYS	Mainchain
1	F	256	ALA	Mainchain
1	F	257	SER	Mainchain
1	F	258	GLY	Mainchain
1	F	259	ALA	Peptide
1	F	26	LEU	Mainchain
1	F	264	CYS	Mainchain
1	F	265	GLN	Peptide,Mainchain
1	F	266	LYS	Peptide
1	F	268	ILE	Mainchain
1	F	269	ASP	Mainchain
1	F	272	ALA	Mainchain
1	F	279	GLU	Mainchain

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Mol	Chain	Res	Type	Group
1	F	28	GLY	Mainchain
1	F	280	GLY	Peptide,Mainchain
1	F	283	ALA	Mainchain
1	F	287	VAL	Mainchain
1	F	288	LYS	Mainchain
1	F	289	LYS	Mainchain
1	F	290	SER	Peptide,Mainchain
1	F	291	ASP	Mainchain
1	F	294	LYS	Mainchain
1	F	297	LYS	Peptide,Mainchain
1	F	299	THR	Mainchain
1	F	30	ILE	Mainchain
1	F	300	GLY	Mainchain
1	F	303	VAL	Mainchain
1	F	304	ILE	Mainchain
1	F	305	THR	Mainchain
1	F	306	ASN	Mainchain
1	F	307	ILE	Mainchain
1	F	309	ASP	Mainchain
1	F	31	ILE	Mainchain
1	F	310	LEU	Peptide,Mainchain
1	F	312	ALA	Mainchain
1	F	313	GLN	Peptide
1	F	323	GLU	Mainchain
1	F	33	GLU	Mainchain
1	F	335	GLU	Mainchain
1	F	336	GLU	Mainchain
1	F	337	CYS	Mainchain
1	F	338	LYS	Peptide,Mainchain
1	F	340	PRO	Mainchain
1	F	341	LYS	Peptide,Mainchain
1	F	342	ALA	Mainchain
1	F	343	VAL	Mainchain
1	F	344	THR	Mainchain
1	F	349	GLY	Peptide,Mainchain
1	F	35	VAL	Mainchain
1	F	350	THR	Mainchain
1	F	351	THR	Mainchain
1	F	352	GLU	Mainchain
1	F	355	ILE	Mainchain
1	F	36	ARG	Peptide,Mainchain
1	F	360	ARG	Mainchain

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Mol	Chain	Res	Type	Group
1	F	37	SER	Mainchain
1	F	370	GLY	Mainchain
1	F	372	THR	Peptide
1	F	374	GLU	Peptide,Mainchain
1	F	375	ASP	Peptide,Mainchain
1	F	376	GLY	Peptide
1	F	377	ARG	Mainchain
1	F	378	ILE	Mainchain
1	F	379	VAL	Peptide,Mainchain
1	F	380	SER	Peptide
1	F	381	GLY	Peptide
1	F	382	GLY	Peptide,Mainchain
1	F	384	SER	Mainchain
1	F	392	LYS	Mainchain
1	F	397	ALA	Mainchain
1	F	398	GLU	Peptide,Mainchain
1	F	399	GLY	Mainchain
1	F	40	GLY	Mainchain
1	F	400	ILE	Mainchain
1	F	403	ARG	Mainchain
1	F	405	GLN	Mainchain
1	F	406	LEU	Mainchain
1	F	407	ALA	Mainchain
1	F	408	VAL	Mainchain
1	F	41	PRO	Peptide
1	F	410	ALA	Mainchain
1	F	413	ASP	Mainchain
1	F	414	ALA	Peptide,Mainchain
1	F	416	GLU	Mainchain
1	F	417	VAL	Mainchain
1	F	420	ARG	Mainchain
1	F	423	ALA	Mainchain
1	F	424	GLU	Mainchain
1	F	426	ALA	Mainchain
1	F	427	GLY	Mainchain
1	F	428	LEU	Mainchain
1	F	429	ASP	Mainchain
1	F	43	GLY	Mainchain
1	F	431	ILE	Mainchain
1	F	432	GLU	Mainchain
1	F	434	LEU	Mainchain
1	F	438	ARG	Mainchain

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Mol	Chain	Res	Type	Group
1	F	439	ALA	Mainchain
1	F	442	ALA	Mainchain
1	F	444	ASN	Mainchain
1	F	445	GLY	Mainchain
1	F	446	ASN	Mainchain
1	F	448	CYS	Mainchain
1	F	449	ALA	Mainchain
1	F	452	ASN	Mainchain
1	F	456	GLY	Mainchain
1	F	458	VAL	Peptide
1	F	459	GLU	Mainchain
1	F	460	ASP	Mainchain
1	F	461	MET	Mainchain
1	F	462	CYS	Mainchain
1	F	465	GLY	Mainchain
1	F	469	PRO	Mainchain
1	F	471	ARG	Peptide
1	F	472	VAL	Mainchain
1	F	474	THR	Mainchain
1	F	476	ALA	Mainchain
1	F	479	SER	Mainchain
1	F	48	LEU	Mainchain
1	F	480	ALA	Mainchain
1	F	482	GLU	Mainchain
1	F	486	MET	Mainchain
1	F	487	LEU	Mainchain
1	F	488	LEU	Mainchain
1	F	489	ARG	Peptide
1	F	49	VAL	Mainchain
1	F	490	ILE	Mainchain
1	F	491	ASP	Mainchain
1	F	495	ALA	Peptide,Mainchain
1	F	50	ASP	Mainchain
1	F	51	ASP	Mainchain
1	F	52	LEU	Peptide
1	F	53	GLY	Peptide
1	F	55	VAL	Peptide,Mainchain
1	F	57	VAL	Mainchain
1	F	58	THR	Mainchain
1	F	59	ASN	Mainchain
1	F	61	GLY	Mainchain
1	F	62	VAL	Mainchain

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Mol	Chain	Res	Type	Group
1	F	64	ILE	Mainchain
1	F	66	ARG	Mainchain
1	F	67	GLU	Mainchain
1	F	68	MET	Peptide
1	F	69	SER	Mainchain
1	F	7	VAL	Peptide,Mainchain
1	F	71	GLU	Peptide,Mainchain
1	F	73	PRO	Peptide
1	F	74	ALA	Peptide
1	F	78	LEU	Mainchain
1	F	79	ILE	Mainchain
1	F	82	ALA	Mainchain
1	F	84	THR	Mainchain
1	F	85	GLN	Mainchain
1	F	86	GLU	Mainchain
1	F	87	LYS	Mainchain
1	F	9	PRO	Mainchain
1	F	93	THR	Mainchain
1	F	97	VAL	Mainchain
1	F	98	VAL	Mainchain
1	G	101	GLY	Mainchain
1	G	102	GLU	Mainchain
1	G	106	LYS	Mainchain
1	G	109	GLU	Mainchain
1	G	110	LEU	Peptide
1	G	111	LEU	Mainchain
1	G	112	ASP	Peptide,Mainchain
1	G	113	GLN	Peptide
1	G	114	ASN	Peptide,Mainchain
1	G	115	VAL	Peptide
1	G	119	ILE	Mainchain
1	G	12	MET	Peptide
1	G	120	VAL	Mainchain
1	G	123	GLY	Mainchain
1	G	126	ALA	Mainchain
1	G	129	GLN	Mainchain
1	G	130	LYS	Mainchain
1	G	133	GLU	Mainchain
1	G	137	THR	Mainchain
1	G	138	ILE	Peptide
1	G	139	ALA	Mainchain
1	G	14	ARG	Mainchain

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Mol	Chain	Res	Type	Group
1	G	140	CYS	Mainchain
1	G	141	GLU	Mainchain
1	G	142	VAL	Mainchain
1	G	144	ALA	Mainchain
1	G	145	GLN	Mainchain
1	G	146	ASP	Mainchain
1	G	149	ILE	Mainchain
1	G	150	LEU	Mainchain
1	G	155	MET	Mainchain
1	G	156	THR	Mainchain
1	G	157	SER	Mainchain
1	G	16	MET	Mainchain
1	G	161	LYS	Mainchain
1	G	162	GLY	Mainchain
1	G	163	ALA	Peptide
1	G	167	LYS	Mainchain
1	G	169	LYS	Mainchain
1	G	17	GLY	Mainchain
1	G	174	ILE	Mainchain
1	G	182	VAL	Mainchain
1	G	186	GLY	Mainchain
1	G	188	VAL	Peptide
1	G	189	ASP	Mainchain
1	G	190	LYS	Mainchain
1	G	191	ASP	Peptide
1	G	192	LEU	Mainchain
1	G	198	LYS	Mainchain
1	G	199	SER	Mainchain
1	G	20	ALA	Mainchain
1	G	200	GLY	Mainchain
1	G	202	SER	Mainchain
1	G	205	ASP	Mainchain
1	G	206	THR	Mainchain
1	G	209	ILE	Mainchain
1	G	21	GLN	Mainchain
1	G	210	LYS	Mainchain
1	G	211	GLY	Mainchain
1	G	214	VAL	Mainchain
1	G	216	LYS	Mainchain
1	G	221	ALA	Mainchain
1	G	222	GLN	Mainchain
1	G	225	LYS	Mainchain

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Mol	Chain	Res	Type	Group
1	G	227	VAL	Mainchain
1	G	229	ASP	Mainchain
1	G	23	MET	Mainchain
1	G	230	ALA	Mainchain
1	G	231	LYS	Mainchain
1	G	233	ALA	Mainchain
1	G	234	LEU	Peptide
1	G	235	LEU	Mainchain
1	G	237	CYS	Peptide
1	G	238	ALA	Peptide,Mainchain
1	G	242	THR	Peptide
1	G	243	ALA	Peptide
1	G	244	SER	Mainchain
1	G	246	MET	Peptide,Mainchain
1	G	251	VAL	Mainchain
1	G	258	GLY	Peptide
1	G	26	LEU	Mainchain
1	G	261	VAL	Mainchain
1	G	267	GLY	Mainchain
1	G	268	ILE	Mainchain
1	G	271	LEU	Mainchain
1	G	273	GLN	Mainchain
1	G	276	LEU	Mainchain
1	G	28	GLY	Mainchain
1	G	281	ILE	Mainchain
1	G	284	ALA	Mainchain
1	G	287	VAL	Mainchain
1	G	290	SER	Peptide,Mainchain
1	G	291	ASP	Mainchain
1	G	294	LYS	Mainchain
1	G	297	LYS	Mainchain
1	G	301	ALA	Mainchain
1	G	303	VAL	Mainchain
1	G	305	THR	Mainchain
1	G	306	ASN	Peptide
1	G	307	ILE	Peptide,Mainchain
1	G	309	ASP	Mainchain
1	G	31	ILE	Mainchain
1	G	311	SER	Peptide
1	G	312	ALA	Peptide,Mainchain
1	G	313	GLN	Peptide,Mainchain
1	G	315	LEU	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	G	317	ASP	Mainchain
1	G	325	LYS	Mainchain
1	G	327	SER	Mainchain
1	G	328	GLY	Mainchain
1	G	329	ASP	Mainchain
1	G	330	SER	Mainchain
1	G	331	MET	Mainchain
1	G	332	ILE	Mainchain
1	G	333	PHE	Mainchain
1	G	335	GLU	Peptide,Mainchain
1	G	336	GLU	Mainchain
1	G	338	LYS	Mainchain
1	G	339	HIS	Mainchain
1	G	340	PRO	Mainchain
1	G	342	ALA	Peptide
1	G	345	MET	Mainchain
1	G	348	ARG	Mainchain
1	G	350	THR	Peptide
1	G	357	GLU	Mainchain
1	G	359	ALA	Mainchain
1	G	36	ARG	Peptide,Mainchain
1	G	360	ARG	Mainchain
1	G	361	ALA	Mainchain
1	G	366	VAL	Mainchain
1	G	367	GLY	Mainchain
1	G	37	SER	Mainchain
1	G	370	GLY	Mainchain
1	G	371	CYS	Mainchain
1	G	374	GLU	Peptide
1	G	375	ASP	Peptide,Mainchain
1	G	376	GLY	Peptide,Mainchain
1	G	38	THR	Mainchain
1	G	380	SER	Mainchain
1	G	381	GLY	Mainchain
1	G	39	LEU	Mainchain
1	G	395	GLU	Mainchain
1	G	396	TYR	Mainchain
1	G	398	GLU	Mainchain
1	G	399	GLY	Mainchain
1	G	400	ILE	Peptide
1	G	401	SER	Mainchain
1	G	406	LEU	Mainchain

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Mol	Chain	Res	Type	Group
1	G	409	ARG	Mainchain
1	G	412	ALA	Mainchain
1	G	414	ALA	Peptide,Mainchain
1	G	415	LEU	Mainchain
1	G	416	GLU	Mainchain
1	G	42	LYS	Peptide,Mainchain
1	G	422	LEU	Mainchain
1	G	423	ALA	Mainchain
1	G	424	GLU	Mainchain
1	G	425	ASN	Peptide,Mainchain
1	G	426	ALA	Mainchain
1	G	427	GLY	Mainchain
1	G	428	LEU	Mainchain
1	G	429	ASP	Peptide,Mainchain
1	G	436	LYS	Mainchain
1	G	438	ARG	Mainchain
1	G	439	ALA	Mainchain
1	G	443	SER	Mainchain
1	G	444	ASN	Mainchain
1	G	445	GLY	Mainchain
1	G	446	ASN	Peptide,Mainchain
1	G	447	LYS	Peptide,Mainchain
1	G	45	ASP	Mainchain
1	G	450	GLY	Peptide,Mainchain
1	G	451	LEU	Mainchain
1	G	454	PHE	Mainchain
1	G	455	THR	Mainchain
1	G	459	GLU	Mainchain
1	G	462	CYS	Mainchain
1	G	464	ASN	Peptide,Mainchain
1	G	465	GLY	Peptide
1	G	467	VAL	Mainchain
1	G	468	GLU	Mainchain
1	G	469	PRO	Mainchain
1	G	470	LEU	Mainchain
1	G	471	ARG	Mainchain
1	G	472	VAL	Mainchain
1	G	475	GLN	Mainchain
1	G	478	GLN	Mainchain
1	G	481	ALA	Mainchain
1	G	482	GLU	Mainchain
1	G	483	SER	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	G	486	MET	Mainchain
1	G	487	LEU	Mainchain
1	G	488	LEU	Mainchain
1	G	49	VAL	Mainchain
1	G	491	ASP	Mainchain
1	G	494	ILE	Mainchain
1	G	495	ALA	Peptide,Mainchain
1	G	496	ALA	Peptide,Mainchain
1	G	50	ASP	Peptide,Mainchain
1	G	52	LEU	Mainchain
1	G	55	VAL	Peptide,Mainchain
1	G	57	VAL	Mainchain
1	G	59	ASN	Mainchain
1	G	61	GLY	Mainchain
1	G	62	VAL	Mainchain
1	G	63	THR	Mainchain
1	G	64	ILE	Mainchain
1	G	65	LEU	Mainchain
1	G	66	ARG	Mainchain
1	G	68	MET	Mainchain
1	G	7	VAL	Peptide,Mainchain
1	G	70	VAL	Mainchain
1	G	71	GLU	Peptide,Mainchain
1	G	72	HIS	Peptide,Mainchain
1	G	73	PRO	Mainchain
1	G	76	LYS	Mainchain
1	G	79	ILE	Mainchain
1	G	8	LEU	Mainchain
1	G	81	VAL	Mainchain
1	G	82	ALA	Mainchain
1	G	9	PRO	Peptide,Mainchain
1	G	90	GLY	Mainchain
1	G	91	ASP	Mainchain
1	G	93	THR	Peptide,Mainchain
1	G	95	THR	Peptide
1	G	96	ALA	Peptide
1	G	97	VAL	Mainchain
1	H	10	GLU	Mainchain
1	H	11	ASN	Peptide
1	H	110	LEU	Mainchain
1	H	111	LEU	Mainchain
1	H	112	ASP	Peptide

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Mol	Chain	Res	Type	Group
1	H	114	ASN	Peptide,Mainchain
1	H	115	VAL	Peptide,Mainchain
1	H	12	MET	Mainchain
1	H	120	VAL	Mainchain
1	H	121	VAL	Mainchain
1	H	128	ALA	Mainchain
1	H	13	LYS	Mainchain
1	H	136	LYS	Mainchain
1	H	138	ILE	Peptide,Mainchain
1	H	139	ALA	Peptide,Mainchain
1	H	14	ARG	Mainchain
1	H	140	CYS	Mainchain
1	H	141	GLU	Peptide
1	H	142	VAL	Mainchain
1	H	143	GLY	Mainchain
1	H	145	GLN	Mainchain
1	H	146	ASP	Mainchain
1	H	149	ILE	Mainchain
1	H	15	TYR	Mainchain
1	H	157	SER	Mainchain
1	H	158	ILE	Mainchain
1	H	159	THR	Mainchain
1	H	16	MET	Peptide,Mainchain
1	H	160	GLY	Mainchain
1	H	162	GLY	Mainchain
1	H	163	ALA	Peptide
1	H	167	LYS	Mainchain
1	H	17	GLY	Mainchain
1	H	172	GLU	Mainchain
1	H	174	ILE	Mainchain
1	H	177	ALA	Mainchain
1	H	179	SER	Mainchain
1	H	18	ARG	Mainchain
1	H	180	ALA	Mainchain
1	H	182	VAL	Mainchain
1	H	185	GLU	Mainchain
1	H	187	LYS	Peptide,Mainchain
1	H	188	VAL	Peptide,Mainchain
1	H	191	ASP	Mainchain
1	H	193	ILE	Mainchain
1	H	196	GLU	Mainchain
1	H	198	LYS	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	H	199	SER	Mainchain
1	H	20	ALA	Mainchain
1	H	200	GLY	Mainchain
1	H	201	ALA	Peptide
1	H	202	SER	Peptide,Mainchain
1	H	204	ASP	Mainchain
1	H	206	THR	Peptide,Mainchain
1	H	207	GLU	Mainchain
1	H	209	ILE	Mainchain
1	H	210	LYS	Peptide,Mainchain
1	H	213	LEU	Mainchain
1	H	214	VAL	Mainchain
1	H	215	ASP	Mainchain
1	H	216	LYS	Peptide,Mainchain
1	H	217	GLU	Peptide,Mainchain
1	H	219	VAL	Mainchain
1	H	220	SER	Mainchain
1	H	223	MET	Peptide,Mainchain
1	H	226	LYS	Mainchain
1	H	227	VAL	Mainchain
1	H	228	THR	Peptide
1	H	23	MET	Mainchain
1	H	232	ILE	Mainchain
1	H	235	LEU	Mainchain
1	H	236	ASN	Mainchain
1	H	237	CYS	Peptide,Mainchain
1	H	238	ALA	Mainchain
1	H	24	ASN	Mainchain
1	H	240	GLU	Mainchain
1	H	241	GLU	Mainchain
1	H	242	THR	Peptide,Mainchain
1	H	243	ALA	Mainchain
1	H	244	SER	Mainchain
1	H	247	LEU	Peptide
1	H	248	LYS	Mainchain
1	H	250	MET	Mainchain
1	H	253	GLU	Peptide,Mainchain
1	H	255	LYS	Peptide,Mainchain
1	H	256	ALA	Mainchain
1	H	258	GLY	Mainchain
1	H	259	ALA	Mainchain
1	H	263	PHE	Mainchain

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Mol	Chain	Res	Type	Group
1	H	266	LYS	Mainchain
1	H	267	GLY	Peptide,Mainchain
1	H	268	ILE	Mainchain
1	H	270	ASP	Mainchain
1	H	275	TYR	Mainchain
1	H	276	LEU	Mainchain
1	H	277	ALA	Mainchain
1	H	28	GLY	Mainchain
1	H	286	ARG	Mainchain
1	H	287	VAL	Mainchain
1	H	289	LYS	Peptide
1	H	29	ARG	Mainchain
1	H	291	ASP	Mainchain
1	H	293	GLU	Mainchain
1	H	297	LYS	Mainchain
1	H	30	ILE	Mainchain
1	H	300	GLY	Mainchain
1	H	301	ALA	Mainchain
1	H	302	ASN	Mainchain
1	H	305	THR	Peptide,Mainchain
1	H	306	ASN	Peptide
1	H	307	ILE	Mainchain
1	H	309	ASP	Peptide,Mainchain
1	H	310	LEU	Peptide,Mainchain
1	H	311	SER	Mainchain
1	H	312	ALA	Peptide,Mainchain
1	H	314	ASP	Peptide,Mainchain
1	H	315	LEU	Peptide
1	H	317	ASP	Mainchain
1	H	318	ALA	Mainchain
1	H	319	GLY	Mainchain
1	H	32	ALA	Mainchain
1	H	320	LEU	Mainchain
1	H	323	GLU	Mainchain
1	H	327	SER	Mainchain
1	H	328	GLY	Peptide,Mainchain
1	H	330	SER	Mainchain
1	H	331	MET	Mainchain
1	H	335	GLU	Mainchain
1	H	337	CYS	Mainchain
1	H	34	THR	Mainchain
1	H	341	LYS	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	H	342	ALA	Peptide,Mainchain
1	H	344	THR	Mainchain
1	H	346	LEU	Mainchain
1	H	348	ARG	Mainchain
1	H	349	GLY	Peptide
1	H	35	VAL	Mainchain
1	H	350	THR	Peptide,Mainchain
1	H	351	THR	Mainchain
1	H	352	GLU	Mainchain
1	H	353	HIS	Mainchain
1	H	357	GLU	Mainchain
1	H	36	ARG	Mainchain
1	H	361	ALA	Mainchain
1	H	362	VAL	Mainchain
1	H	363	ASP	Peptide,Mainchain
1	H	366	VAL	Mainchain
1	H	37	SER	Mainchain
1	H	371	CYS	Mainchain
1	H	372	THR	Mainchain
1	H	373	ILE	Mainchain
1	H	374	GLU	Mainchain
1	H	375	ASP	Mainchain
1	H	376	GLY	Peptide,Mainchain
1	H	377	ARG	Mainchain
1	H	378	ILE	Mainchain
1	H	38	THR	Mainchain
1	H	380	SER	Peptide
1	H	382	GLY	Mainchain
1	H	383	GLY	Mainchain
1	H	384	SER	Mainchain
1	H	385	THR	Mainchain
1	H	39	LEU	Mainchain
1	H	390	SER	Mainchain
1	H	392	LYS	Mainchain
1	H	394	ARG	Mainchain
1	H	395	GLU	Mainchain
1	H	398	GLU	Peptide
1	H	399	GLY	Mainchain
1	H	402	GLY	Mainchain
1	H	408	VAL	Mainchain
1	H	41	PRO	Mainchain
1	H	411	PHE	Mainchain

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Mol	Chain	Res	Type	Group
1	H	414	ALA	Peptide,Mainchain
1	H	416	GLU	Mainchain
1	H	420	ARG	Peptide
1	H	421	THR	Mainchain
1	H	422	LEU	Mainchain
1	H	423	ALA	Mainchain
1	H	426	ALA	Mainchain
1	H	427	GLY	Mainchain
1	H	429	ASP	Peptide,Mainchain
1	H	431	ILE	Peptide,Mainchain
1	H	436	LYS	Mainchain
1	H	438	ARG	Mainchain
1	H	442	ALA	Mainchain
1	H	443	SER	Mainchain
1	H	444	ASN	Mainchain
1	H	446	ASN	Mainchain
1	H	447	LYS	Mainchain
1	H	448	CYS	Peptide
1	H	449	ALA	Mainchain
1	H	451	LEU	Mainchain
1	H	453	VAL	Peptide
1	H	454	PHE	Mainchain
1	H	455	THR	Mainchain
1	H	458	VAL	Mainchain
1	H	459	GLU	Mainchain
1	H	460	ASP	Mainchain
1	H	464	ASN	Mainchain
1	H	465	GLY	Mainchain
1	H	467	VAL	Mainchain
1	H	469	PRO	Mainchain
1	H	47	MET	Mainchain
1	H	471	ARG	Peptide,Mainchain
1	H	474	THR	Mainchain
1	H	475	GLN	Mainchain
1	H	477	ILE	Mainchain
1	H	481	ALA	Mainchain
1	H	482	GLU	Mainchain
1	H	483	SER	Mainchain
1	H	488	LEU	Mainchain
1	H	49	VAL	Mainchain
1	H	491	ASP	Mainchain
1	H	492	ASP	Mainchain

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Mol	Chain	Res	Type	Group
1	H	493	VAL	Mainchain
1	H	494	ILE	Mainchain
1	H	495	ALA	Mainchain
1	H	496	ALA	Peptide,Mainchain
1	H	50	ASP	Mainchain
1	H	51	ASP	Mainchain
1	H	52	LEU	Mainchain
1	H	55	VAL	Mainchain
1	H	57	VAL	Mainchain
1	H	59	ASN	Mainchain
1	H	60	ASP	Mainchain
1	H	64	ILE	Mainchain
1	H	68	MET	Peptide,Mainchain
1	H	69	SER	Mainchain
1	H	7	VAL	Peptide,Mainchain
1	H	70	VAL	Mainchain
1	H	71	GLU	Mainchain
1	H	75	ALA	Mainchain
1	H	85	GLN	Mainchain
1	H	86	GLU	Mainchain
1	H	87	LYS	Mainchain
1	H	88	GLU	Peptide,Mainchain
1	H	89	VAL	Mainchain
1	H	9	PRO	Mainchain
1	H	90	GLY	Peptide,Mainchain
1	H	91	ASP	Mainchain
1	H	93	THR	Mainchain
1	H	97	VAL	Mainchain
1	I	10	GLU	Mainchain
1	I	100	ALA	Mainchain
1	I	105	ARG	Mainchain
1	I	11	ASN	Mainchain
1	I	110	LEU	Mainchain
1	I	111	LEU	Mainchain
1	I	113	GLN	Peptide,Mainchain
1	I	114	ASN	Peptide
1	I	115	VAL	Peptide,Mainchain
1	I	116	HIS	Mainchain
1	I	118	THR	Mainchain
1	I	119	ILE	Mainchain
1	I	12	MET	Peptide
1	I	123	GLY	Mainchain

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Mol	Chain	Res	Type	Group
1	I	126	ALA	Mainchain
1	I	128	ALA	Mainchain
1	I	129	GLN	Peptide,Mainchain
1	I	130	LYS	Mainchain
1	I	131	ALA	Mainchain
1	I	134	LEU	Mainchain
1	I	136	LYS	Mainchain
1	I	138	ILE	Peptide,Mainchain
1	I	139	ALA	Mainchain
1	I	14	ARG	Mainchain
1	I	140	CYS	Mainchain
1	I	141	GLU	Mainchain
1	I	142	VAL	Mainchain
1	I	143	GLY	Peptide,Mainchain
1	I	145	GLN	Mainchain
1	I	146	ASP	Mainchain
1	I	147	LYS	Mainchain
1	I	148	GLU	Mainchain
1	I	15	TYR	Mainchain
1	I	151	THR	Mainchain
1	I	152	LYS	Mainchain
1	I	154	ALA	Mainchain
1	I	16	MET	Mainchain
1	I	163	ALA	Peptide,Mainchain
1	I	164	GLU	Mainchain
1	I	166	ALA	Mainchain
1	I	170	LEU	Mainchain
1	I	175	VAL	Mainchain
1	I	176	GLU	Mainchain
1	I	18	ARG	Mainchain
1	I	180	ALA	Mainchain
1	I	181	VAL	Mainchain
1	I	182	VAL	Mainchain
1	I	183	ASP	Mainchain
1	I	185	GLU	Mainchain
1	I	186	GLY	Mainchain
1	I	187	LYS	Mainchain
1	I	188	VAL	Mainchain
1	I	189	ASP	Mainchain
1	I	19	ASP	Mainchain
1	I	191	ASP	Mainchain
1	I	192	LEU	Mainchain

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Mol	Chain	Res	Type	Group
1	I	195	ILE	Mainchain
1	I	197	LYS	Mainchain
1	I	198	LYS	Mainchain
1	I	199	SER	Mainchain
1	I	200	GLY	Mainchain
1	I	201	ALA	Peptide
1	I	202	SER	Mainchain
1	I	203	ILE	Mainchain
1	I	208	LEU	Mainchain
1	I	209	ILE	Mainchain
1	I	21	GLN	Mainchain
1	I	215	ASP	Mainchain
1	I	216	LYS	Mainchain
1	I	22	ARG	Mainchain
1	I	222	GLN	Mainchain
1	I	223	MET	Mainchain
1	I	224	PRO	Peptide
1	I	225	LYS	Mainchain
1	I	226	LYS	Mainchain
1	I	228	THR	Mainchain
1	I	229	ASP	Mainchain
1	I	235	LEU	Mainchain
1	I	236	ASN	Mainchain
1	I	237	CYS	Peptide,Mainchain
1	I	238	ALA	Peptide,Mainchain
1	I	239	ILE	Mainchain
1	I	241	GLU	Mainchain
1	I	242	THR	Mainchain
1	I	247	LEU	Mainchain
1	I	249	ASP	Mainchain
1	I	25	ILE	Mainchain
1	I	250	MET	Mainchain
1	I	254	ILE	Mainchain
1	I	255	LYS	Mainchain
1	I	257	SER	Mainchain
1	I	258	GLY	Peptide
1	I	263	PHE	Mainchain
1	I	264	CYS	Mainchain
1	I	265	GLN	Mainchain
1	I	266	LYS	Mainchain
1	I	268	ILE	Mainchain
1	I	27	ALA	Mainchain

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Mol	Chain	Res	Type	Group
1	I	274	HIS	Mainchain
1	I	277	ALA	Mainchain
1	I	279	GLU	Peptide,Mainchain
1	I	287	VAL	Mainchain
1	I	289	LYS	Mainchain
1	I	292	MET	Mainchain
1	I	294	LYS	Mainchain
1	I	296	ALA	Peptide,Mainchain
1	I	297	LYS	Mainchain
1	I	298	ALA	Peptide
1	I	301	ALA	Mainchain
1	I	302	ASN	Mainchain
1	I	304	ILE	Mainchain
1	I	305	THR	Mainchain
1	I	306	ASN	Peptide
1	I	307	ILE	Mainchain
1	I	309	ASP	Mainchain
1	I	31	ILE	Mainchain
1	I	311	SER	Peptide
1	I	312	ALA	Mainchain
1	I	313	GLN	Peptide,Mainchain
1	I	314	ASP	Peptide,Mainchain
1	I	319	GLY	Mainchain
1	I	326	ILE	Mainchain
1	I	327	SER	Peptide
1	I	328	GLY	Mainchain
1	I	329	ASP	Mainchain
1	I	331	MET	Mainchain
1	I	333	PHE	Mainchain
1	I	335	GLU	Mainchain
1	I	336	GLU	Mainchain
1	I	338	LYS	Mainchain
1	I	339	HIS	Mainchain
1	I	34	THR	Mainchain
1	I	340	PRO	Mainchain
1	I	341	LYS	Mainchain
1	I	342	ALA	Mainchain
1	I	343	VAL	Mainchain
1	I	345	MET	Mainchain
1	I	348	ARG	Peptide
1	I	349	GLY	Mainchain
1	I	35	VAL	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	I	350	THR	Peptide
1	I	352	GLU	Mainchain
1	I	356	GLU	Mainchain
1	I	357	GLU	Mainchain
1	I	36	ARG	Mainchain
1	I	361	ALA	Mainchain
1	I	364	ASP	Mainchain
1	I	367	GLY	Mainchain
1	I	368	VAL	Mainchain
1	I	37	SER	Mainchain
1	I	371	CYS	Peptide
1	I	376	GLY	Peptide,Mainchain
1	I	377	ARG	Mainchain
1	I	378	ILE	Mainchain
1	I	379	VAL	Peptide
1	I	38	THR	Mainchain
1	I	380	SER	Mainchain
1	I	381	GLY	Mainchain
1	I	382	GLY	Peptide,Mainchain
1	I	384	SER	Mainchain
1	I	39	LEU	Mainchain
1	I	396	TYR	Mainchain
1	I	398	GLU	Mainchain
1	I	400	ILE	Mainchain
1	I	405	GLN	Peptide
1	I	407	ALA	Mainchain
1	I	409	ARG	Mainchain
1	I	410	ALA	Mainchain
1	I	411	PHE	Mainchain
1	I	413	ASP	Mainchain
1	I	415	LEU	Mainchain
1	I	416	GLU	Peptide,Mainchain
1	I	418	ILE	Mainchain
1	I	420	ARG	Mainchain
1	I	423	ALA	Mainchain
1	I	427	GLY	Mainchain
1	I	437	VAL	Mainchain
1	I	438	ARG	Mainchain
1	I	439	ALA	Mainchain
1	I	442	ALA	Mainchain
1	I	443	SER	Mainchain
1	I	444	ASN	Mainchain

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Mol	Chain	Res	Type	Group
1	I	445	GLY	Mainchain
1	I	449	ALA	Mainchain
1	I	45	ASP	Mainchain
1	I	450	GLY	Mainchain
1	I	452	ASN	Peptide,Mainchain
1	I	454	PHE	Mainchain
1	I	456	GLY	Mainchain
1	I	459	GLU	Mainchain
1	I	462	CYS	Mainchain
1	I	465	GLY	Mainchain
1	I	467	VAL	Mainchain
1	I	473	LYS	Mainchain
1	I	474	THR	Mainchain
1	I	475	GLN	Mainchain
1	I	477	ILE	Mainchain
1	I	479	SER	Mainchain
1	I	481	ALA	Mainchain
1	I	482	GLU	Mainchain
1	I	483	SER	Mainchain
1	I	488	LEU	Mainchain
1	I	489	ARG	Mainchain
1	I	49	VAL	Mainchain
1	I	491	ASP	Mainchain
1	I	494	ILE	Mainchain
1	I	495	ALA	Peptide,Mainchain
1	I	496	ALA	Mainchain
1	I	52	LEU	Mainchain
1	I	55	VAL	Mainchain
1	I	60	ASP	Mainchain
1	I	61	GLY	Mainchain
1	I	62	VAL	Mainchain
1	I	64	ILE	Mainchain
1	I	65	LEU	Peptide,Mainchain
1	I	66	ARG	Mainchain
1	I	68	MET	Mainchain
1	I	69	SER	Mainchain
1	I	7	VAL	Peptide,Mainchain
1	I	70	VAL	Mainchain
1	I	71	GLU	Mainchain
1	I	73	PRO	Mainchain
1	I	74	ALA	Peptide
1	I	78	LEU	Mainchain

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Mol	Chain	Res	Type	Group
1	I	81	VAL	Mainchain
1	I	83	LYS	Mainchain
1	I	84	THR	Mainchain
1	I	86	GLU	Mainchain
1	I	87	LYS	Mainchain
1	I	89	VAL	Mainchain
1	I	91	ASP	Mainchain
1	I	98	VAL	Mainchain
1	J	10	GLU	Peptide,Mainchain
1	J	103	LEU	Mainchain
1	J	107	ALA	Mainchain
1	J	11	ASN	Peptide,Mainchain
1	J	110	LEU	Mainchain
1	J	111	LEU	Mainchain
1	J	112	ASP	Mainchain
1	J	113	GLN	Mainchain
1	J	115	VAL	Peptide
1	J	116	HIS	Mainchain
1	J	119	ILE	Mainchain
1	J	123	GLY	Mainchain
1	J	133	GLU	Peptide,Mainchain
1	J	137	THR	Mainchain
1	J	138	ILE	Peptide,Mainchain
1	J	139	ALA	Mainchain
1	J	140	CYS	Mainchain
1	J	141	GLU	Mainchain
1	J	143	GLY	Peptide,Mainchain
1	J	144	ALA	Mainchain
1	J	145	GLN	Mainchain
1	J	147	LYS	Mainchain
1	J	149	ILE	Mainchain
1	J	15	TYR	Mainchain
1	J	152	LYS	Mainchain
1	J	16	MET	Mainchain
1	J	162	GLY	Peptide
1	J	166	ALA	Mainchain
1	J	169	LYS	Mainchain
1	J	17	GLY	Peptide
1	J	175	VAL	Mainchain
1	J	177	ALA	Mainchain
1	J	179	SER	Mainchain
1	J	182	VAL	Mainchain

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Mol	Chain	Res	Type	Group
1	J	184	ASP	Mainchain
1	J	185	GLU	Mainchain
1	J	186	GLY	Peptide
1	J	187	LYS	Mainchain
1	J	188	VAL	Peptide,Mainchain
1	J	189	ASP	Peptide
1	J	191	ASP	Mainchain
1	J	192	LEU	Mainchain
1	J	196	GLU	Mainchain
1	J	198	LYS	Mainchain
1	J	200	GLY	Mainchain
1	J	201	ALA	Peptide,Mainchain
1	J	203	ILE	Mainchain
1	J	204	ASP	Mainchain
1	J	205	ASP	Mainchain
1	J	207	GLU	Mainchain
1	J	209	ILE	Mainchain
1	J	210	LYS	Mainchain
1	J	217	GLU	Mainchain
1	J	219	VAL	Mainchain
1	J	225	LYS	Mainchain
1	J	227	VAL	Mainchain
1	J	228	THR	Mainchain
1	J	23	MET	Mainchain
1	J	234	LEU	Mainchain
1	J	235	LEU	Mainchain
1	J	236	ASN	Mainchain
1	J	237	CYS	Peptide,Mainchain
1	J	238	ALA	Peptide
1	J	24	ASN	Mainchain
1	J	240	GLU	Mainchain
1	J	244	SER	Mainchain
1	J	246	MET	Mainchain
1	J	250	MET	Mainchain
1	J	253	GLU	Mainchain
1	J	255	LYS	Mainchain
1	J	256	ALA	Mainchain
1	J	258	GLY	Mainchain
1	J	259	ALA	Peptide,Mainchain
1	J	26	LEU	Mainchain
1	J	261	VAL	Mainchain
1	J	265	GLN	Mainchain

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Mol	Chain	Res	Type	Group
1	J	266	LYS	Mainchain
1	J	268	ILE	Mainchain
1	J	269	ASP	Mainchain
1	J	27	ALA	Mainchain
1	J	270	ASP	Mainchain
1	J	272	ALA	Mainchain
1	J	274	HIS	Mainchain
1	J	278	LYS	Mainchain
1	J	28	GLY	Mainchain
1	J	280	GLY	Mainchain
1	J	283	ALA	Mainchain
1	J	285	ARG	Mainchain
1	J	287	VAL	Mainchain
1	J	288	LYS	Mainchain
1	J	290	SER	Mainchain
1	J	294	LYS	Mainchain
1	J	295	LEU	Mainchain
1	J	30	ILE	Mainchain
1	J	300	GLY	Mainchain
1	J	302	ASN	Mainchain
1	J	305	THR	Mainchain
1	J	306	ASN	Peptide,Mainchain
1	J	307	ILE	Peptide,Mainchain
1	J	308	LYS	Mainchain
1	J	309	ASP	Mainchain
1	J	31	ILE	Mainchain
1	J	311	SER	Mainchain
1	J	315	LEU	Peptide,Mainchain
1	J	318	ALA	Mainchain
1	J	319	GLY	Mainchain
1	J	32	ALA	Mainchain
1	J	324	ARG	Mainchain
1	J	326	ILE	Mainchain
1	J	327	SER	Mainchain
1	J	328	GLY	Mainchain
1	J	33	GLU	Peptide,Mainchain
1	J	335	GLU	Mainchain
1	J	336	GLU	Peptide,Mainchain
1	J	337	CYS	Mainchain
1	J	338	LYS	Mainchain
1	J	339	HIS	Mainchain
1	J	34	THR	Mainchain

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Mol	Chain	Res	Type	Group
1	J	340	PRO	Mainchain
1	J	341	LYS	Mainchain
1	J	342	ALA	Peptide,Mainchain
1	J	343	VAL	Peptide,Mainchain
1	J	349	GLY	Mainchain
1	J	35	VAL	Mainchain
1	J	351	THR	Peptide,Mainchain
1	J	352	GLU	Mainchain
1	J	353	HIS	Mainchain
1	J	355	ILE	Mainchain
1	J	36	ARG	Mainchain
1	J	360	ARG	Mainchain
1	J	366	VAL	Mainchain
1	J	367	GLY	Mainchain
1	J	370	GLY	Peptide,Mainchain
1	J	371	CYS	Mainchain
1	J	372	THR	Mainchain
1	J	374	GLU	Mainchain
1	J	375	ASP	Mainchain
1	J	376	GLY	Peptide,Mainchain
1	J	38	THR	Mainchain
1	J	380	SER	Mainchain
1	J	381	GLY	Peptide
1	J	382	GLY	Peptide,Mainchain
1	J	383	GLY	Peptide,Mainchain
1	J	384	SER	Mainchain
1	J	39	LEU	Mainchain
1	J	390	SER	Mainchain
1	J	393	LEU	Mainchain
1	J	395	GLU	Mainchain
1	J	396	TYR	Mainchain
1	J	397	ALA	Mainchain
1	J	40	GLY	Mainchain
1	J	401	SER	Mainchain
1	J	403	ARG	Mainchain
1	J	406	LEU	Mainchain
1	J	41	PRO	Mainchain
1	J	411	PHE	Mainchain
1	J	412	ALA	Mainchain
1	J	414	ALA	Mainchain
1	J	416	GLU	Mainchain
1	J	420	ARG	Mainchain

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Mol	Chain	Res	Type	Group
1	J	421	THR	Mainchain
1	J	423	ALA	Mainchain
1	J	425	ASN	Mainchain
1	J	429	ASP	Peptide,Mainchain
1	J	43	GLY	Mainchain
1	J	430	ALA	Mainchain
1	J	432	GLU	Mainchain
1	J	433	ILE	Mainchain
1	J	438	ARG	Mainchain
1	J	441	HIS	Mainchain
1	J	443	SER	Mainchain
1	J	445	GLY	Mainchain
1	J	447	LYS	Mainchain
1	J	449	ALA	Mainchain
1	J	452	ASN	Mainchain
1	J	455	THR	Mainchain
1	J	456	GLY	Mainchain
1	J	458	VAL	Peptide,Mainchain
1	J	46	LYS	Mainchain
1	J	461	MET	Mainchain
1	J	462	CYS	Mainchain
1	J	463	GLU	Mainchain
1	J	464	ASN	Mainchain
1	J	465	GLY	Mainchain
1	J	467	VAL	Mainchain
1	J	469	PRO	Mainchain
1	J	470	LEU	Mainchain
1	J	473	LYS	Mainchain
1	J	48	LEU	Mainchain
1	J	480	ALA	Mainchain
1	J	484	THR	Mainchain
1	J	486	MET	Mainchain
1	J	488	LEU	Peptide,Mainchain
1	J	49	VAL	Mainchain
1	J	490	ILE	Mainchain
1	J	491	ASP	Mainchain
1	J	493	VAL	Mainchain
1	J	495	ALA	Peptide,Mainchain
1	J	496	ALA	Peptide
1	J	50	ASP	Mainchain
1	J	51	ASP	Mainchain
1	J	55	VAL	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	J	56	VAL	Mainchain
1	J	57	VAL	Mainchain
1	J	59	ASN	Mainchain
1	J	61	GLY	Mainchain
1	J	63	THR	Mainchain
1	J	65	LEU	Mainchain
1	J	67	GLU	Mainchain
1	J	68	MET	Peptide
1	J	69	SER	Mainchain
1	J	7	VAL	Mainchain
1	J	72	HIS	Mainchain
1	J	73	PRO	Mainchain
1	J	74	ALA	Mainchain
1	J	75	ALA	Mainchain
1	J	76	LYS	Mainchain
1	J	78	LEU	Mainchain
1	J	79	ILE	Mainchain
1	J	8	LEU	Mainchain
1	J	81	VAL	Mainchain
1	J	82	ALA	Mainchain
1	J	86	GLU	Peptide,Mainchain
1	J	87	LYS	Mainchain
1	J	88	GLU	Mainchain
1	J	89	VAL	Mainchain
1	J	90	GLY	Mainchain
1	J	93	THR	Mainchain
1	J	94	THR	Mainchain
1	J	95	THR	Mainchain
1	J	96	ALA	Mainchain
1	J	97	VAL	Mainchain
1	J	99	VAL	Mainchain
1	K	100	ALA	Mainchain
1	K	101	GLY	Mainchain
1	K	102	GLU	Mainchain
1	K	104	LEU	Mainchain
1	K	105	ARG	Mainchain
1	K	106	LYS	Mainchain
1	K	109	GLU	Mainchain
1	K	11	ASN	Peptide,Mainchain
1	K	110	LEU	Mainchain
1	K	111	LEU	Mainchain
1	K	112	ASP	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	K	113	GLN	Peptide
1	K	115	VAL	Peptide
1	K	116	HIS	Mainchain
1	K	117	PRO	Mainchain
1	K	119	ILE	Mainchain
1	K	12	MET	Mainchain
1	K	121	VAL	Mainchain
1	K	124	TYR	Mainchain
1	K	128	ALA	Mainchain
1	K	130	LYS	Mainchain
1	K	131	ALA	Mainchain
1	K	133	GLU	Mainchain
1	K	135	LEU	Peptide
1	K	136	LYS	Mainchain
1	K	138	ILE	Peptide
1	K	139	ALA	Mainchain
1	K	141	GLU	Mainchain
1	K	142	VAL	Peptide,Mainchain
1	K	143	GLY	Peptide,Mainchain
1	K	145	GLN	Peptide,Mainchain
1	K	146	ASP	Mainchain
1	K	154	ALA	Mainchain
1	K	155	MET	Mainchain
1	K	158	ILE	Mainchain
1	K	160	GLY	Mainchain
1	K	161	LYS	Mainchain
1	K	162	GLY	Peptide,Mainchain
1	K	163	ALA	Peptide
1	K	165	LYS	Mainchain
1	K	167	LYS	Mainchain
1	K	17	GLY	Mainchain
1	K	170	LEU	Mainchain
1	K	172	GLU	Mainchain
1	K	175	VAL	Mainchain
1	K	176	GLU	Mainchain
1	K	178	VAL	Mainchain
1	K	181	VAL	Mainchain
1	K	182	VAL	Mainchain
1	K	184	ASP	Mainchain
1	K	187	LYS	Mainchain
1	K	188	VAL	Peptide,Mainchain
1	K	190	LYS	Mainchain

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Mol	Chain	Res	Type	Group
1	K	191	ASP	Mainchain
1	K	192	LEU	Peptide,Mainchain
1	K	193	ILE	Mainchain
1	K	194	LYS	Mainchain
1	K	197	LYS	Mainchain
1	K	198	LYS	Mainchain
1	K	200	GLY	Mainchain
1	K	202	SER	Mainchain
1	K	204	ASP	Mainchain
1	K	206	THR	Mainchain
1	K	209	ILE	Mainchain
1	K	212	VAL	Mainchain
1	K	213	LEU	Mainchain
1	K	214	VAL	Mainchain
1	K	216	LYS	Peptide,Mainchain
1	K	22	ARG	Mainchain
1	K	224	PRO	Mainchain
1	K	225	LYS	Mainchain
1	K	227	VAL	Mainchain
1	K	228	THR	Mainchain
1	K	229	ASP	Mainchain
1	K	234	LEU	Mainchain
1	K	236	ASN	Mainchain
1	K	237	CYS	Mainchain
1	K	238	ALA	Mainchain
1	K	243	ALA	Mainchain
1	K	247	LEU	Mainchain
1	K	248	LYS	Mainchain
1	K	25	ILE	Mainchain
1	K	250	MET	Mainchain
1	K	257	SER	Peptide
1	K	259	ALA	Mainchain
1	K	26	LEU	Mainchain
1	K	263	PHE	Mainchain
1	K	266	LYS	Peptide
1	K	267	GLY	Mainchain
1	K	268	ILE	Mainchain
1	K	269	ASP	Mainchain
1	K	27	ALA	Mainchain
1	K	273	GLN	Mainchain
1	K	276	LEU	Mainchain
1	K	278	LYS	Mainchain

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Mol	Chain	Res	Type	Group
1	K	28	GLY	Mainchain
1	K	283	ALA	Mainchain
1	K	286	ARG	Mainchain
1	K	287	VAL	Mainchain
1	K	29	ARG	Mainchain
1	K	291	ASP	Mainchain
1	K	297	LYS	Mainchain
1	K	298	ALA	Mainchain
1	K	30	ILE	Mainchain
1	K	300	GLY	Peptide,Mainchain
1	K	301	ALA	Mainchain
1	K	302	ASN	Mainchain
1	K	305	THR	Mainchain
1	K	306	ASN	Mainchain
1	K	307	ILE	Peptide,Mainchain
1	K	309	ASP	Mainchain
1	K	311	SER	Mainchain
1	K	312	ALA	Peptide,Mainchain
1	K	313	GLN	Peptide
1	K	314	ASP	Mainchain
1	K	315	LEU	Peptide
1	K	316	GLY	Mainchain
1	K	317	ASP	Mainchain
1	K	318	ALA	Mainchain
1	K	319	GLY	Mainchain
1	K	324	ARG	Mainchain
1	K	327	SER	Peptide,Mainchain
1	K	328	GLY	Peptide
1	K	33	GLU	Mainchain
1	K	335	GLU	Mainchain
1	K	336	GLU	Peptide,Mainchain
1	K	339	HIS	Mainchain
1	K	34	THR	Mainchain
1	K	340	PRO	Mainchain
1	K	341	LYS	Peptide
1	K	342	ALA	Mainchain
1	K	343	VAL	Mainchain
1	K	344	THR	Mainchain
1	K	348	ARG	Peptide
1	K	349	GLY	Mainchain
1	K	350	THR	Peptide
1	K	351	THR	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	K	354	VAL	Mainchain
1	K	355	ILE	Peptide,Mainchain
1	K	358	VAL	Peptide
1	K	360	ARG	Mainchain
1	K	362	VAL	Mainchain
1	K	364	ASP	Mainchain
1	K	367	GLY	Mainchain
1	K	368	VAL	Peptide
1	K	370	GLY	Peptide,Mainchain
1	K	372	THR	Mainchain
1	K	373	ILE	Mainchain
1	K	375	ASP	Mainchain
1	K	376	GLY	Peptide,Mainchain
1	K	378	ILE	Mainchain
1	K	379	VAL	Peptide,Mainchain
1	K	380	SER	Peptide
1	K	381	GLY	Peptide,Mainchain
1	K	382	GLY	Mainchain
1	K	383	GLY	Peptide,Mainchain
1	K	384	SER	Mainchain
1	K	385	THR	Mainchain
1	K	388	GLU	Mainchain
1	K	39	LEU	Mainchain
1	K	390	SER	Mainchain
1	K	393	LEU	Mainchain
1	K	394	ARG	Mainchain
1	K	395	GLU	Mainchain
1	K	399	GLY	Mainchain
1	K	401	SER	Mainchain
1	K	402	GLY	Mainchain
1	K	406	LEU	Mainchain
1	K	407	ALA	Mainchain
1	K	408	VAL	Mainchain
1	K	409	ARG	Mainchain
1	K	410	ALA	Mainchain
1	K	412	ALA	Mainchain
1	K	413	ASP	Mainchain
1	K	415	LEU	Mainchain
1	K	417	VAL	Mainchain
1	K	418	ILE	Mainchain
1	K	42	LYS	Mainchain
1	K	422	LEU	Mainchain

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Mol	Chain	Res	Type	Group
1	K	424	GLU	Mainchain
1	K	426	ALA	Peptide,Mainchain
1	K	427	GLY	Mainchain
1	K	428	LEU	Mainchain
1	K	429	ASP	Peptide,Mainchain
1	K	43	GLY	Mainchain
1	K	434	LEU	Mainchain
1	K	435	VAL	Mainchain
1	K	442	ALA	Mainchain
1	K	443	SER	Mainchain
1	K	444	ASN	Mainchain
1	K	449	ALA	Mainchain
1	K	450	GLY	Mainchain
1	K	452	ASN	Mainchain
1	K	455	THR	Mainchain
1	K	457	ALA	Mainchain
1	K	459	GLU	Mainchain
1	K	460	ASP	Mainchain
1	K	461	MET	Mainchain
1	K	462	CYS	Mainchain
1	K	463	GLU	Mainchain
1	K	464	ASN	Mainchain
1	K	467	VAL	Mainchain
1	K	469	PRO	Mainchain
1	K	470	LEU	Mainchain
1	K	471	ARG	Peptide,Mainchain
1	K	472	VAL	Mainchain
1	K	474	THR	Mainchain
1	K	487	LEU	Mainchain
1	K	488	LEU	Mainchain
1	K	489	ARG	Mainchain
1	K	49	VAL	Mainchain
1	K	491	ASP	Mainchain
1	K	494	ILE	Mainchain
1	K	495	ALA	Peptide,Mainchain
1	K	496	ALA	Peptide,Mainchain
1	K	51	ASP	Mainchain
1	K	52	LEU	Mainchain
1	K	56	VAL	Mainchain
1	K	62	VAL	Mainchain
1	K	64	ILE	Mainchain
1	K	68	MET	Peptide

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Mol	Chain	Res	Type	Group
1	K	69	SER	Mainchain
1	K	7	VAL	Mainchain
1	K	72	HIS	Mainchain
1	K	73	PRO	Mainchain
1	K	74	ALA	Mainchain
1	K	78	LEU	Mainchain
1	K	82	ALA	Peptide
1	K	86	GLU	Mainchain
1	K	87	LYS	Mainchain
1	K	88	GLU	Mainchain
1	K	89	VAL	Mainchain
1	K	9	PRO	Peptide,Mainchain
1	K	90	GLY	Peptide,Mainchain
1	K	92	GLY	Mainchain
1	K	93	THR	Peptide
1	K	96	ALA	Mainchain
1	K	97	VAL	Mainchain
1	K	99	VAL	Mainchain
1	L	102	GLU	Mainchain
1	L	103	LEU	Mainchain
1	L	104	LEU	Mainchain
1	L	11	ASN	Mainchain
1	L	111	LEU	Mainchain
1	L	112	ASP	Mainchain
1	L	113	GLN	Peptide
1	L	114	ASN	Peptide,Mainchain
1	L	115	VAL	Peptide,Mainchain
1	L	116	HIS	Mainchain
1	L	117	PRO	Mainchain
1	L	119	ILE	Mainchain
1	L	12	MET	Mainchain
1	L	128	ALA	Mainchain
1	L	129	GLN	Mainchain
1	L	13	LYS	Mainchain
1	L	135	LEU	Mainchain
1	L	137	THR	Mainchain
1	L	138	ILE	Peptide
1	L	140	CYS	Mainchain
1	L	141	GLU	Mainchain
1	L	142	VAL	Mainchain
1	L	145	GLN	Mainchain
1	L	146	ASP	Mainchain

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Mol	Chain	Res	Type	Group
1	L	147	LYS	Mainchain
1	L	148	GLU	Mainchain
1	L	149	ILE	Mainchain
1	L	153	ILE	Mainchain
1	L	156	THR	Mainchain
1	L	159	THR	Mainchain
1	L	16	MET	Mainchain
1	L	162	GLY	Peptide,Mainchain
1	L	163	ALA	Peptide,Mainchain
1	L	164	GLU	Mainchain
1	L	168	GLU	Mainchain
1	L	169	LYS	Mainchain
1	L	171	ALA	Mainchain
1	L	180	ALA	Mainchain
1	L	181	VAL	Mainchain
1	L	183	ASP	Mainchain
1	L	184	ASP	Peptide
1	L	185	GLU	Mainchain
1	L	186	GLY	Peptide,Mainchain
1	L	187	LYS	Mainchain
1	L	188	VAL	Mainchain
1	L	191	ASP	Mainchain
1	L	195	ILE	Mainchain
1	L	197	LYS	Mainchain
1	L	198	LYS	Mainchain
1	L	199	SER	Mainchain
1	L	20	ALA	Mainchain
1	L	200	GLY	Mainchain
1	L	203	ILE	Peptide,Mainchain
1	L	204	ASP	Mainchain
1	L	205	ASP	Mainchain
1	L	206	THR	Mainchain
1	L	209	ILE	Mainchain
1	L	21	GLN	Mainchain
1	L	210	LYS	Mainchain
1	L	211	GLY	Mainchain
1	L	212	VAL	Mainchain
1	L	213	LEU	Mainchain
1	L	214	VAL	Mainchain
1	L	216	LYS	Mainchain
1	L	218	ARG	Mainchain
1	L	221	ALA	Mainchain

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Mol	Chain	Res	Type	Group
1	L	222	GLN	Mainchain
1	L	223	MET	Mainchain
1	L	224	PRO	Mainchain
1	L	225	LYS	Mainchain
1	L	229	ASP	Mainchain
1	L	231	LYS	Mainchain
1	L	232	ILE	Mainchain
1	L	234	LEU	Mainchain
1	L	235	LEU	Mainchain
1	L	236	ASN	Mainchain
1	L	237	CYS	Peptide
1	L	238	ALA	Peptide
1	L	239	ILE	Mainchain
1	L	24	ASN	Mainchain
1	L	241	GLU	Mainchain
1	L	242	THR	Mainchain
1	L	244	SER	Mainchain
1	L	248	LYS	Mainchain
1	L	255	LYS	Mainchain
1	L	259	ALA	Peptide
1	L	26	LEU	Mainchain
1	L	260	ASN	Peptide,Mainchain
1	L	265	GLN	Mainchain
1	L	266	LYS	Peptide,Mainchain
1	L	267	GLY	Mainchain
1	L	268	ILE	Mainchain
1	L	269	ASP	Peptide,Mainchain
1	L	27	ALA	Mainchain
1	L	270	ASP	Peptide,Mainchain
1	L	274	HIS	Mainchain
1	L	277	ALA	Mainchain
1	L	279	GLU	Mainchain
1	L	28	GLY	Mainchain
1	L	281	ILE	Mainchain
1	L	283	ALA	Mainchain
1	L	284	ALA	Mainchain
1	L	286	ARG	Mainchain
1	L	287	VAL	Mainchain
1	L	291	ASP	Mainchain
1	L	292	MET	Mainchain
1	L	293	GLU	Mainchain
1	L	295	LEU	Mainchain

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Mol	Chain	Res	Type	Group
1	L	297	LYS	Peptide,Mainchain
1	L	30	ILE	Peptide,Mainchain
1	L	301	ALA	Mainchain
1	L	303	VAL	Mainchain
1	L	305	THR	Mainchain
1	L	306	ASN	Peptide
1	L	307	ILE	Mainchain
1	L	308	LYS	Mainchain
1	L	309	ASP	Mainchain
1	L	311	SER	Mainchain
1	L	313	GLN	Mainchain
1	L	317	ASP	Mainchain
1	L	318	ALA	Mainchain
1	L	32	ALA	Mainchain
1	L	326	ILE	Mainchain
1	L	327	SER	Mainchain
1	L	328	GLY	Mainchain
1	L	329	ASP	Mainchain
1	L	332	ILE	Mainchain
1	L	336	GLU	Peptide,Mainchain
1	L	338	LYS	Mainchain
1	L	339	HIS	Mainchain
1	L	341	LYS	Peptide,Mainchain
1	L	342	ALA	Mainchain
1	L	344	THR	Mainchain
1	L	345	MET	Mainchain
1	L	346	LEU	Mainchain
1	L	347	ILE	Mainchain
1	L	348	ARG	Mainchain
1	L	349	GLY	Peptide,Mainchain
1	L	350	THR	Peptide
1	L	352	GLU	Peptide,Mainchain
1	L	353	HIS	Mainchain
1	L	354	VAL	Mainchain
1	L	355	ILE	Mainchain
1	L	357	GLU	Mainchain
1	L	36	ARG	Mainchain
1	L	360	ARG	Mainchain
1	L	361	ALA	Mainchain
1	L	362	VAL	Mainchain
1	L	365	ALA	Mainchain
1	L	366	VAL	Mainchain

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Mol	Chain	Res	Type	Group
1	L	367	GLY	Mainchain
1	L	37	SER	Mainchain
1	L	371	CYS	Peptide,Mainchain
1	L	372	THR	Mainchain
1	L	373	ILE	Peptide
1	L	374	GLU	Mainchain
1	L	375	ASP	Peptide,Mainchain
1	L	376	GLY	Peptide,Mainchain
1	L	377	ARG	Mainchain
1	L	378	ILE	Mainchain
1	L	379	VAL	Mainchain
1	L	38	THR	Mainchain
1	L	380	SER	Mainchain
1	L	381	GLY	Peptide,Mainchain
1	L	382	GLY	Mainchain
1	L	383	GLY	Peptide
1	L	384	SER	Mainchain
1	L	386	GLU	Mainchain
1	L	39	LEU	Mainchain
1	L	395	GLU	Mainchain
1	L	396	TYR	Mainchain
1	L	397	ALA	Mainchain
1	L	398	GLU	Mainchain
1	L	399	GLY	Mainchain
1	L	404	GLU	Mainchain
1	L	405	GLN	Peptide,Mainchain
1	L	407	ALA	Mainchain
1	L	409	ARG	Mainchain
1	L	410	ALA	Mainchain
1	L	412	ALA	Mainchain
1	L	415	LEU	Mainchain
1	L	416	GLU	Peptide,Mainchain
1	L	418	ILE	Mainchain
1	L	419	PRO	Mainchain
1	L	42	LYS	Mainchain
1	L	422	LEU	Peptide
1	L	423	ALA	Mainchain
1	L	424	GLU	Mainchain
1	L	426	ALA	Mainchain
1	L	429	ASP	Mainchain
1	L	43	GLY	Mainchain
1	L	432	GLU	Mainchain

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Mol	Chain	Res	Type	Group
1	L	433	ILE	Mainchain
1	L	434	LEU	Mainchain
1	L	435	VAL	Mainchain
1	L	437	VAL	Mainchain
1	L	439	ALA	Mainchain
1	L	442	ALA	Mainchain
1	L	443	SER	Mainchain
1	L	445	GLY	Mainchain
1	L	446	ASN	Mainchain
1	L	449	ALA	Peptide
1	L	453	VAL	Mainchain
1	L	456	GLY	Mainchain
1	L	457	ALA	Mainchain
1	L	458	VAL	Peptide
1	L	459	GLU	Mainchain
1	L	461	MET	Peptide,Mainchain
1	L	462	CYS	Mainchain
1	L	463	GLU	Mainchain
1	L	464	ASN	Mainchain
1	L	465	GLY	Mainchain
1	L	466	VAL	Mainchain
1	L	467	VAL	Mainchain
1	L	469	PRO	Mainchain
1	L	471	ARG	Peptide,Mainchain
1	L	473	LYS	Mainchain
1	L	474	THR	Mainchain
1	L	476	ALA	Mainchain
1	L	480	ALA	Mainchain
1	L	483	SER	Mainchain
1	L	484	THR	Peptide,Mainchain
1	L	486	MET	Mainchain
1	L	488	LEU	Mainchain
1	L	489	ARG	Mainchain
1	L	490	ILE	Mainchain
1	L	491	ASP	Mainchain
1	L	494	ILE	Mainchain
1	L	50	ASP	Mainchain
1	L	51	ASP	Mainchain
1	L	52	LEU	Mainchain
1	L	53	GLY	Mainchain
1	L	54	ASP	Mainchain
1	L	55	VAL	Mainchain

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Mol	Chain	Res	Type	Group
1	L	56	VAL	Mainchain
1	L	57	VAL	Mainchain
1	L	60	ASP	Mainchain
1	L	61	GLY	Mainchain
1	L	62	VAL	Mainchain
1	L	63	THR	Mainchain
1	L	68	MET	Mainchain
1	L	69	SER	Peptide
1	L	7	VAL	Mainchain
1	L	71	GLU	Mainchain
1	L	72	HIS	Mainchain
1	L	73	PRO	Mainchain
1	L	75	ALA	Mainchain
1	L	78	LEU	Mainchain
1	L	81	VAL	Mainchain
1	L	85	GLN	Mainchain
1	L	89	VAL	Mainchain
1	L	9	PRO	Peptide,Mainchain
1	L	90	GLY	Peptide
1	L	91	ASP	Mainchain
1	L	92	GLY	Mainchain
1	L	94	THR	Mainchain
1	L	95	THR	Mainchain
1	L	97	VAL	Mainchain
1	M	10	GLU	Mainchain
1	M	100	ALA	Mainchain
1	M	102	GLU	Mainchain
1	M	103	LEU	Mainchain
1	M	104	LEU	Mainchain
1	M	105	ARG	Mainchain
1	M	11	ASN	Peptide,Mainchain
1	M	110	LEU	Mainchain
1	M	111	LEU	Mainchain
1	M	112	ASP	Mainchain
1	M	114	ASN	Peptide,Mainchain
1	M	115	VAL	Peptide,Mainchain
1	M	116	HIS	Mainchain
1	M	117	PRO	Peptide
1	M	12	MET	Peptide,Mainchain
1	M	120	VAL	Mainchain
1	M	124	TYR	Mainchain
1	M	126	ALA	Mainchain

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Mol	Chain	Res	Type	Group
1	M	128	ALA	Mainchain
1	M	13	LYS	Mainchain
1	M	130	LYS	Mainchain
1	M	137	THR	Mainchain
1	M	138	ILE	Peptide
1	M	139	ALA	Mainchain
1	M	14	ARG	Mainchain
1	M	140	CYS	Mainchain
1	M	141	GLU	Mainchain
1	M	142	VAL	Peptide,Mainchain
1	M	143	GLY	Peptide,Mainchain
1	M	144	ALA	Mainchain
1	M	145	GLN	Mainchain
1	M	147	LYS	Mainchain
1	M	148	GLU	Mainchain
1	M	152	LYS	Mainchain
1	M	153	ILE	Mainchain
1	M	154	ALA	Mainchain
1	M	155	MET	Mainchain
1	M	157	SER	Mainchain
1	M	16	MET	Mainchain
1	M	160	GLY	Peptide,Mainchain
1	M	161	LYS	Mainchain
1	M	162	GLY	Peptide
1	M	163	ALA	Peptide
1	M	166	ALA	Mainchain
1	M	169	LYS	Mainchain
1	M	172	GLU	Mainchain
1	M	174	ILE	Mainchain
1	M	18	ARG	Mainchain
1	M	181	VAL	Mainchain
1	M	182	VAL	Mainchain
1	M	186	GLY	Peptide
1	M	187	LYS	Peptide,Mainchain
1	M	188	VAL	Peptide
1	M	189	ASP	Mainchain
1	M	190	LYS	Mainchain
1	M	192	LEU	Mainchain
1	M	193	ILE	Mainchain
1	M	196	GLU	Mainchain
1	M	197	LYS	Mainchain
1	M	200	GLY	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	M	201	ALA	Peptide
1	M	203	ILE	Mainchain
1	M	205	ASP	Peptide
1	M	206	THR	Mainchain
1	M	210	LYS	Mainchain
1	M	211	GLY	Mainchain
1	M	214	VAL	Mainchain
1	M	215	ASP	Peptide
1	M	216	LYS	Mainchain
1	M	217	GLU	Mainchain
1	M	219	VAL	Mainchain
1	M	22	ARG	Mainchain
1	M	220	SER	Mainchain
1	M	221	ALA	Mainchain
1	M	222	GLN	Mainchain
1	M	224	PRO	Mainchain
1	M	225	LYS	Mainchain
1	M	229	ASP	Mainchain
1	M	235	LEU	Mainchain
1	M	237	CYS	Mainchain
1	M	238	ALA	Peptide
1	M	241	GLU	Mainchain
1	M	242	THR	Mainchain
1	M	244	SER	Mainchain
1	M	246	MET	Mainchain
1	M	25	ILE	Mainchain
1	M	251	VAL	Mainchain
1	M	254	ILE	Mainchain
1	M	255	LYS	Mainchain
1	M	256	ALA	Mainchain
1	M	257	SER	Mainchain
1	M	258	GLY	Mainchain
1	M	259	ALA	Peptide,Mainchain
1	M	265	GLN	Mainchain
1	M	266	LYS	Mainchain
1	M	267	GLY	Mainchain
1	M	27	ALA	Mainchain
1	M	270	ASP	Mainchain
1	M	272	ALA	Mainchain
1	M	275	TYR	Mainchain
1	M	279	GLU	Mainchain
1	M	280	GLY	Mainchain

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Mol	Chain	Res	Type	Group
1	M	285	ARG	Mainchain
1	M	286	ARG	Mainchain
1	M	287	VAL	Mainchain
1	M	288	LYS	Mainchain
1	M	289	LYS	Mainchain
1	M	293	GLU	Mainchain
1	M	295	LEU	Mainchain
1	M	299	THR	Mainchain
1	M	300	GLY	Mainchain
1	M	301	ALA	Peptide,Mainchain
1	M	302	ASN	Mainchain
1	M	305	THR	Mainchain
1	M	306	ASN	Mainchain
1	M	307	ILE	Mainchain
1	M	309	ASP	Mainchain
1	M	31	ILE	Mainchain
1	M	310	LEU	Peptide,Mainchain
1	M	311	SER	Mainchain
1	M	312	ALA	Mainchain
1	M	313	GLN	Peptide
1	M	315	LEU	Peptide
1	M	318	ALA	Mainchain
1	M	319	GLY	Mainchain
1	M	32	ALA	Mainchain
1	M	322	GLU	Mainchain
1	M	325	LYS	Mainchain
1	M	326	ILE	Mainchain
1	M	328	GLY	Mainchain
1	M	33	GLU	Mainchain
1	M	331	MET	Mainchain
1	M	335	GLU	Peptide,Mainchain
1	M	336	GLU	Mainchain
1	M	338	LYS	Mainchain
1	M	341	LYS	Peptide
1	M	342	ALA	Mainchain
1	M	345	MET	Mainchain
1	M	346	LEU	Mainchain
1	M	347	ILE	Mainchain
1	M	348	ARG	Peptide,Mainchain
1	M	349	GLY	Peptide,Mainchain
1	M	350	THR	Peptide
1	M	351	THR	Mainchain

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Mol	Chain	Res	Type	Group
1	M	353	HIS	Mainchain
1	M	356	GLU	Mainchain
1	M	36	ARG	Mainchain
1	M	360	ARG	Mainchain
1	M	361	ALA	Mainchain
1	M	364	ASP	Peptide,Mainchain
1	M	365	ALA	Mainchain
1	M	367	GLY	Peptide
1	M	369	VAL	Mainchain
1	M	37	SER	Mainchain
1	M	370	GLY	Mainchain
1	M	371	CYS	Mainchain
1	M	372	THR	Mainchain
1	M	374	GLU	Mainchain
1	M	377	ARG	Mainchain
1	M	378	ILE	Mainchain
1	M	379	VAL	Peptide,Mainchain
1	M	380	SER	Peptide,Mainchain
1	M	381	GLY	Peptide
1	M	382	GLY	Mainchain
1	M	383	GLY	Peptide
1	M	384	SER	Mainchain
1	M	385	THR	Mainchain
1	M	39	LEU	Mainchain
1	M	390	SER	Mainchain
1	M	391	MET	Mainchain
1	M	392	LYS	Mainchain
1	M	395	GLU	Mainchain
1	M	396	TYR	Mainchain
1	M	398	GLU	Mainchain
1	M	399	GLY	Mainchain
1	M	40	GLY	Mainchain
1	M	408	VAL	Mainchain
1	M	409	ARG	Mainchain
1	M	41	PRO	Mainchain
1	M	411	PHE	Mainchain
1	M	412	ALA	Mainchain
1	M	413	ASP	Mainchain
1	M	417	VAL	Mainchain
1	M	421	THR	Mainchain
1	M	422	LEU	Mainchain
1	M	423	ALA	Mainchain

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Mol	Chain	Res	Type	Group
1	M	426	ALA	Mainchain
1	M	43	GLY	Peptide
1	M	430	ALA	Mainchain
1	M	434	LEU	Mainchain
1	M	435	VAL	Mainchain
1	M	44	MET	Mainchain
1	M	443	SER	Mainchain
1	M	446	ASN	Peptide,Mainchain
1	M	448	CYS	Mainchain
1	M	449	ALA	Mainchain
1	M	45	ASP	Mainchain
1	M	453	VAL	Peptide
1	M	456	GLY	Mainchain
1	M	457	ALA	Mainchain
1	M	458	VAL	Mainchain
1	M	459	GLU	Mainchain
1	M	460	ASP	Mainchain
1	M	461	MET	Mainchain
1	M	463	GLU	Peptide
1	M	464	ASN	Peptide,Mainchain
1	M	465	GLY	Peptide,Mainchain
1	M	467	VAL	Mainchain
1	M	468	GLU	Mainchain
1	M	469	PRO	Mainchain
1	M	470	LEU	Mainchain
1	M	471	ARG	Peptide
1	M	476	ALA	Mainchain
1	M	48	LEU	Mainchain
1	M	485	GLU	Peptide
1	M	487	LEU	Mainchain
1	M	488	LEU	Mainchain
1	M	489	ARG	Mainchain
1	M	490	ILE	Mainchain
1	M	491	ASP	Mainchain
1	M	495	ALA	Peptide,Mainchain
1	M	496	ALA	Mainchain
1	M	50	ASP	Peptide
1	M	51	ASP	Mainchain
1	M	52	LEU	Mainchain
1	M	54	ASP	Mainchain
1	M	55	VAL	Peptide,Mainchain
1	M	57	VAL	Mainchain

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Mol	Chain	Res	Type	Group
1	M	58	THR	Mainchain
1	M	59	ASN	Mainchain
1	M	60	ASP	Mainchain
1	M	62	VAL	Mainchain
1	M	63	THR	Mainchain
1	M	66	ARG	Mainchain
1	M	68	MET	Mainchain
1	M	69	SER	Peptide
1	M	7	VAL	Mainchain
1	M	70	VAL	Mainchain
1	M	71	GLU	Mainchain
1	M	73	PRO	Mainchain
1	M	75	ALA	Mainchain
1	M	77	MET	Mainchain
1	M	78	LEU	Mainchain
1	M	79	ILE	Mainchain
1	M	8	LEU	Peptide,Mainchain
1	M	81	VAL	Mainchain
1	M	82	ALA	Mainchain
1	M	84	THR	Mainchain
1	M	85	GLN	Mainchain
1	M	88	GLU	Peptide
1	M	9	PRO	Peptide
1	M	90	GLY	Mainchain
1	M	93	THR	Peptide,Mainchain
1	M	94	THR	Mainchain
1	N	101	GLY	Mainchain
1	N	104	LEU	Mainchain
1	N	105	ARG	Mainchain
1	N	107	ALA	Mainchain
1	N	108	GLU	Peptide,Mainchain
1	N	11	ASN	Mainchain
1	N	112	ASP	Peptide,Mainchain
1	N	113	GLN	Peptide,Mainchain
1	N	114	ASN	Peptide
1	N	115	VAL	Mainchain
1	N	116	HIS	Mainchain
1	N	117	PRO	Peptide,Mainchain
1	N	12	MET	Mainchain
1	N	121	VAL	Mainchain
1	N	124	TYR	Mainchain
1	N	128	ALA	Mainchain

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Mol	Chain	Res	Type	Group
1	N	13	LYS	Mainchain
1	N	130	LYS	Mainchain
1	N	131	ALA	Mainchain
1	N	132	GLN	Peptide,Mainchain
1	N	134	LEU	Mainchain
1	N	135	LEU	Peptide
1	N	136	LYS	Mainchain
1	N	138	ILE	Mainchain
1	N	14	ARG	Mainchain
1	N	141	GLU	Peptide
1	N	143	GLY	Peptide,Mainchain
1	N	144	ALA	Mainchain
1	N	147	LYS	Mainchain
1	N	149	ILE	Mainchain
1	N	15	TYR	Mainchain
1	N	151	THR	Peptide
1	N	156	THR	Peptide
1	N	157	SER	Mainchain
1	N	16	MET	Peptide,Mainchain
1	N	160	GLY	Mainchain
1	N	162	GLY	Mainchain
1	N	166	ALA	Mainchain
1	N	169	LYS	Mainchain
1	N	17	GLY	Mainchain
1	N	174	ILE	Mainchain
1	N	178	VAL	Mainchain
1	N	180	ALA	Peptide
1	N	182	VAL	Mainchain
1	N	183	ASP	Mainchain
1	N	185	GLU	Mainchain
1	N	187	LYS	Peptide,Mainchain
1	N	188	VAL	Mainchain
1	N	189	ASP	Mainchain
1	N	19	ASP	Peptide,Mainchain
1	N	190	LYS	Mainchain
1	N	191	ASP	Mainchain
1	N	192	LEU	Peptide
1	N	193	ILE	Mainchain
1	N	196	GLU	Mainchain
1	N	197	LYS	Mainchain
1	N	198	LYS	Mainchain
1	N	199	SER	Mainchain

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Mol	Chain	Res	Type	Group
1	N	20	ALA	Peptide,Mainchain
1	N	200	GLY	Mainchain
1	N	203	ILE	Mainchain
1	N	205	ASP	Mainchain
1	N	206	THR	Mainchain
1	N	207	GLU	Mainchain
1	N	209	ILE	Mainchain
1	N	210	LYS	Peptide,Mainchain
1	N	211	GLY	Peptide,Mainchain
1	N	212	VAL	Mainchain
1	N	214	VAL	Mainchain
1	N	215	ASP	Mainchain
1	N	216	LYS	Mainchain
1	N	217	GLU	Peptide
1	N	219	VAL	Mainchain
1	N	22	ARG	Mainchain
1	N	222	GLN	Mainchain
1	N	223	MET	Mainchain
1	N	226	LYS	Mainchain
1	N	227	VAL	Mainchain
1	N	228	THR	Mainchain
1	N	229	ASP	Peptide,Mainchain
1	N	23	MET	Mainchain
1	N	233	ALA	Mainchain
1	N	235	LEU	Mainchain
1	N	236	ASN	Mainchain
1	N	237	CYS	Peptide,Mainchain
1	N	238	ALA	Peptide,Mainchain
1	N	240	GLU	Mainchain
1	N	241	GLU	Mainchain
1	N	242	THR	Mainchain
1	N	244	SER	Mainchain
1	N	25	ILE	Mainchain
1	N	250	MET	Mainchain
1	N	254	ILE	Mainchain
1	N	258	GLY	Mainchain
1	N	264	CYS	Mainchain
1	N	265	GLN	Mainchain
1	N	266	LYS	Mainchain
1	N	267	GLY	Mainchain
1	N	268	ILE	Mainchain
1	N	269	ASP	Mainchain

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Mol	Chain	Res	Type	Group
1	N	270	ASP	Mainchain
1	N	272	ALA	Mainchain
1	N	278	LYS	Mainchain
1	N	279	GLU	Mainchain
1	N	28	GLY	Mainchain
1	N	281	ILE	Mainchain
1	N	284	ALA	Mainchain
1	N	285	ARG	Mainchain
1	N	287	VAL	Mainchain
1	N	288	LYS	Mainchain
1	N	289	LYS	Mainchain
1	N	29	ARG	Mainchain
1	N	290	SER	Mainchain
1	N	291	ASP	Mainchain
1	N	292	MET	Mainchain
1	N	293	GLU	Mainchain
1	N	294	LYS	Mainchain
1	N	295	LEU	Mainchain
1	N	298	ALA	Mainchain
1	N	30	ILE	Peptide
1	N	300	GLY	Mainchain
1	N	301	ALA	Mainchain
1	N	303	VAL	Mainchain
1	N	305	THR	Mainchain
1	N	306	ASN	Peptide
1	N	307	ILE	Mainchain
1	N	309	ASP	Mainchain
1	N	31	ILE	Mainchain
1	N	310	LEU	Mainchain
1	N	311	SER	Peptide,Mainchain
1	N	312	ALA	Mainchain
1	N	313	GLN	Peptide
1	N	315	LEU	Mainchain
1	N	318	ALA	Mainchain
1	N	319	GLY	Mainchain
1	N	324	ARG	Mainchain
1	N	325	LYS	Mainchain
1	N	326	ILE	Mainchain
1	N	327	SER	Mainchain
1	N	329	ASP	Mainchain
1	N	33	GLU	Mainchain
1	N	330	SER	Mainchain

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Mol	Chain	Res	Type	Group
1	N	331	MET	Mainchain
1	N	335	GLU	Mainchain
1	N	338	LYS	Peptide,Mainchain
1	N	339	HIS	Mainchain
1	N	342	ALA	Mainchain
1	N	347	ILE	Mainchain
1	N	348	ARG	Mainchain
1	N	349	GLY	Peptide,Mainchain
1	N	351	THR	Peptide
1	N	352	GLU	Mainchain
1	N	353	HIS	Mainchain
1	N	356	GLU	Mainchain
1	N	359	ALA	Mainchain
1	N	362	VAL	Mainchain
1	N	364	ASP	Mainchain
1	N	372	THR	Mainchain
1	N	373	ILE	Mainchain
1	N	374	GLU	Mainchain
1	N	375	ASP	Mainchain
1	N	376	GLY	Mainchain
1	N	377	ARG	Mainchain
1	N	378	ILE	Mainchain
1	N	38	THR	Mainchain
1	N	380	SER	Mainchain
1	N	381	GLY	Peptide,Mainchain
1	N	382	GLY	Peptide
1	N	383	GLY	Peptide,Mainchain
1	N	384	SER	Mainchain
1	N	385	THR	Mainchain
1	N	386	GLU	Mainchain
1	N	390	SER	Mainchain
1	N	398	GLU	Mainchain
1	N	399	GLY	Mainchain
1	N	40	GLY	Mainchain
1	N	403	ARG	Mainchain
1	N	405	GLN	Mainchain
1	N	406	LEU	Mainchain
1	N	409	ARG	Mainchain
1	N	41	PRO	Mainchain
1	N	410	ALA	Mainchain
1	N	411	PHE	Mainchain
1	N	412	ALA	Mainchain

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Mol	Chain	Res	Type	Group
1	N	415	LEU	Mainchain
1	N	416	GLU	Mainchain
1	N	417	VAL	Mainchain
1	N	42	LYS	Mainchain
1	N	423	ALA	Mainchain
1	N	424	GLU	Mainchain
1	N	425	ASN	Peptide
1	N	427	GLY	Peptide
1	N	429	ASP	Peptide,Mainchain
1	N	432	GLU	Mainchain
1	N	433	ILE	Mainchain
1	N	438	ARG	Mainchain
1	N	439	ALA	Mainchain
1	N	44	MET	Mainchain
1	N	443	SER	Mainchain
1	N	444	ASN	Mainchain
1	N	445	GLY	Peptide
1	N	446	ASN	Peptide
1	N	447	LYS	Peptide,Mainchain
1	N	448	CYS	Peptide,Mainchain
1	N	450	GLY	Mainchain
1	N	452	ASN	Mainchain
1	N	455	THR	Mainchain
1	N	458	VAL	Mainchain
1	N	459	GLU	Mainchain
1	N	460	ASP	Mainchain
1	N	462	CYS	Mainchain
1	N	463	GLU	Mainchain
1	N	464	ASN	Mainchain
1	N	465	GLY	Mainchain
1	N	467	VAL	Mainchain
1	N	47	MET	Mainchain
1	N	470	LEU	Mainchain
1	N	471	ARG	Mainchain
1	N	474	THR	Mainchain
1	N	477	ILE	Mainchain
1	N	48	LEU	Mainchain
1	N	481	ALA	Mainchain
1	N	484	THR	Mainchain
1	N	485	GLU	Mainchain
1	N	486	MET	Mainchain
1	N	487	LEU	Mainchain

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Mol	Chain	Res	Type	Group
1	N	488	LEU	Peptide,Mainchain
1	N	49	VAL	Mainchain
1	N	491	ASP	Mainchain
1	N	492	ASP	Mainchain
1	N	493	VAL	Mainchain
1	N	495	ALA	Peptide,Mainchain
1	N	496	ALA	Mainchain
1	N	50	ASP	Mainchain
1	N	51	ASP	Mainchain
1	N	52	LEU	Mainchain
1	N	53	GLY	Mainchain
1	N	56	VAL	Mainchain
1	N	57	VAL	Mainchain
1	N	59	ASN	Mainchain
1	N	62	VAL	Mainchain
1	N	63	THR	Mainchain
1	N	65	LEU	Mainchain
1	N	66	ARG	Mainchain
1	N	67	GLU	Mainchain
1	N	68	MET	Peptide,Mainchain
1	N	69	SER	Mainchain
1	N	7	VAL	Mainchain
1	N	71	GLU	Mainchain
1	N	72	HIS	Mainchain
1	N	73	PRO	Mainchain
1	N	77	MET	Mainchain
1	N	78	LEU	Mainchain
1	N	83	LYS	Mainchain
1	N	84	THR	Peptide
1	N	86	GLU	Mainchain
1	N	87	LYS	Mainchain
1	N	88	GLU	Mainchain
1	N	89	VAL	Mainchain
1	N	9	PRO	Peptide
1	N	90	GLY	Mainchain
1	N	91	ASP	Mainchain
1	N	92	GLY	Mainchain
1	N	93	THR	Mainchain
1	N	94	THR	Mainchain
1	N	97	VAL	Mainchain
1	O	101	GLY	Mainchain
1	O	105	ARG	Mainchain

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Mol	Chain	Res	Type	Group
1	O	106	LYS	Mainchain
1	O	107	ALA	Mainchain
1	O	108	GLU	Mainchain
1	O	109	GLU	Mainchain
1	O	11	ASN	Mainchain
1	O	110	LEU	Mainchain
1	O	111	LEU	Mainchain
1	O	113	GLN	Peptide,Mainchain
1	O	115	VAL	Peptide,Mainchain
1	O	116	HIS	Mainchain
1	O	117	PRO	Mainchain
1	O	12	MET	Peptide
1	O	122	LYS	Mainchain
1	O	123	GLY	Mainchain
1	O	124	TYR	Mainchain
1	O	126	ALA	Mainchain
1	O	128	ALA	Mainchain
1	O	130	LYS	Mainchain
1	O	131	ALA	Mainchain
1	O	132	GLN	Mainchain
1	O	133	GLU	Mainchain
1	O	134	LEU	Mainchain
1	O	136	LYS	Mainchain
1	O	138	ILE	Mainchain
1	O	139	ALA	Mainchain
1	O	140	CYS	Peptide
1	O	141	GLU	Mainchain
1	O	142	VAL	Peptide
1	O	143	GLY	Mainchain
1	O	145	GLN	Peptide
1	O	148	GLU	Mainchain
1	O	15	TYR	Mainchain
1	O	150	LEU	Mainchain
1	O	151	THR	Mainchain
1	O	152	LYS	Mainchain
1	O	155	MET	Mainchain
1	O	159	THR	Mainchain
1	O	16	MET	Peptide,Mainchain
1	O	168	GLU	Mainchain
1	O	169	LYS	Mainchain
1	O	172	GLU	Mainchain
1	O	173	ILE	Mainchain

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Mol	Chain	Res	Type	Group
1	O	175	VAL	Mainchain
1	O	177	ALA	Mainchain
1	O	18	ARG	Mainchain
1	O	183	ASP	Mainchain
1	O	187	LYS	Mainchain
1	O	188	VAL	Peptide,Mainchain
1	O	191	ASP	Mainchain
1	O	193	ILE	Mainchain
1	O	197	LYS	Mainchain
1	O	198	LYS	Mainchain
1	O	20	ALA	Peptide
1	O	201	ALA	Mainchain
1	O	203	ILE	Peptide,Mainchain
1	O	208	LEU	Mainchain
1	O	209	ILE	Mainchain
1	O	21	GLN	Mainchain
1	O	210	LYS	Peptide
1	O	212	VAL	Mainchain
1	O	217	GLU	Mainchain
1	O	223	MET	Mainchain
1	O	224	PRO	Mainchain
1	O	226	LYS	Mainchain
1	O	228	THR	Mainchain
1	O	23	MET	Mainchain
1	O	230	ALA	Mainchain
1	O	233	ALA	Mainchain
1	O	236	ASN	Mainchain
1	O	237	CYS	Peptide,Mainchain
1	O	238	ALA	Peptide,Mainchain
1	O	24	ASN	Mainchain
1	O	240	GLU	Mainchain
1	O	242	THR	Mainchain
1	O	243	ALA	Mainchain
1	O	244	SER	Mainchain
1	O	246	MET	Mainchain
1	O	248	LYS	Mainchain
1	O	250	MET	Mainchain
1	O	252	ALA	Mainchain
1	O	254	ILE	Mainchain
1	O	255	LYS	Mainchain
1	O	258	GLY	Peptide
1	O	259	ALA	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	O	266	LYS	Peptide,Mainchain
1	O	267	GLY	Mainchain
1	O	268	ILE	Mainchain
1	O	269	ASP	Mainchain
1	O	27	ALA	Mainchain
1	O	270	ASP	Mainchain
1	O	272	ALA	Mainchain
1	O	275	TYR	Peptide,Mainchain
1	O	278	LYS	Mainchain
1	O	279	GLU	Mainchain
1	O	281	ILE	Mainchain
1	O	285	ARG	Peptide
1	O	287	VAL	Mainchain
1	O	289	LYS	Mainchain
1	O	292	MET	Mainchain
1	O	295	LEU	Mainchain
1	O	298	ALA	Peptide
1	O	299	THR	Mainchain
1	O	30	ILE	Peptide,Mainchain
1	O	304	ILE	Mainchain
1	O	305	THR	Mainchain
1	O	306	ASN	Peptide,Mainchain
1	O	307	ILE	Mainchain
1	O	308	LYS	Mainchain
1	O	310	LEU	Mainchain
1	O	311	SER	Mainchain
1	O	313	GLN	Mainchain
1	O	314	ASP	Peptide,Mainchain
1	O	315	LEU	Peptide
1	O	318	ALA	Mainchain
1	O	319	GLY	Mainchain
1	O	32	ALA	Mainchain
1	O	324	ARG	Mainchain
1	O	325	LYS	Mainchain
1	O	328	GLY	Mainchain
1	O	33	GLU	Mainchain
1	O	330	SER	Mainchain
1	O	336	GLU	Mainchain
1	O	338	LYS	Mainchain
1	O	340	PRO	Mainchain
1	O	341	LYS	Mainchain
1	O	342	ALA	Mainchain

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Mol	Chain	Res	Type	Group
1	O	344	THR	Mainchain
1	O	345	MET	Mainchain
1	O	346	LEU	Mainchain
1	O	348	ARG	Mainchain
1	O	349	GLY	Peptide
1	O	35	VAL	Mainchain
1	O	350	THR	Peptide
1	O	351	THR	Peptide,Mainchain
1	O	352	GLU	Mainchain
1	O	353	HIS	Mainchain
1	O	355	ILE	Mainchain
1	O	356	GLU	Peptide
1	O	358	VAL	Mainchain
1	O	359	ALA	Mainchain
1	O	361	ALA	Mainchain
1	O	363	ASP	Mainchain
1	O	364	ASP	Peptide
1	O	366	VAL	Mainchain
1	O	368	VAL	Mainchain
1	O	369	VAL	Peptide,Mainchain
1	O	37	SER	Mainchain
1	O	372	THR	Mainchain
1	O	375	ASP	Peptide,Mainchain
1	O	376	GLY	Peptide,Mainchain
1	O	377	ARG	Mainchain
1	O	378	ILE	Mainchain
1	O	38	THR	Mainchain
1	O	380	SER	Peptide,Mainchain
1	O	381	GLY	Mainchain
1	O	382	GLY	Mainchain
1	O	383	GLY	Mainchain
1	O	387	VAL	Mainchain
1	O	389	LEU	Mainchain
1	O	393	LEU	Mainchain
1	O	396	TYR	Mainchain
1	O	40	GLY	Mainchain
1	O	400	ILE	Mainchain
1	O	401	SER	Mainchain
1	O	402	GLY	Mainchain
1	O	403	ARG	Peptide,Mainchain
1	O	406	LEU	Mainchain
1	O	407	ALA	Mainchain

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Mol	Chain	Res	Type	Group
1	O	409	ARG	Mainchain
1	O	41	PRO	Mainchain
1	O	416	GLU	Mainchain
1	O	417	VAL	Mainchain
1	O	421	THR	Mainchain
1	O	422	LEU	Mainchain
1	O	423	ALA	Mainchain
1	O	424	GLU	Mainchain
1	O	425	ASN	Peptide
1	O	427	GLY	Mainchain
1	O	428	LEU	Peptide
1	O	433	ILE	Mainchain
1	O	434	LEU	Mainchain
1	O	436	LYS	Mainchain
1	O	437	VAL	Mainchain
1	O	439	ALA	Mainchain
1	O	44	MET	Mainchain
1	O	441	HIS	Mainchain
1	O	442	ALA	Mainchain
1	O	444	ASN	Mainchain
1	O	447	LYS	Mainchain
1	O	448	CYS	Mainchain
1	O	451	LEU	Mainchain
1	O	453	VAL	Mainchain
1	O	457	ALA	Mainchain
1	O	458	VAL	Mainchain
1	O	459	GLU	Mainchain
1	O	46	LYS	Mainchain
1	O	464	ASN	Peptide
1	O	465	GLY	Peptide,Mainchain
1	O	466	VAL	Mainchain
1	O	467	VAL	Mainchain
1	O	469	PRO	Mainchain
1	O	470	LEU	Mainchain
1	O	471	ARG	Mainchain
1	O	472	VAL	Mainchain
1	O	473	LYS	Mainchain
1	O	474	THR	Mainchain
1	O	475	GLN	Mainchain
1	O	477	ILE	Peptide,Mainchain
1	O	478	GLN	Mainchain
1	O	479	SER	Mainchain

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Mol	Chain	Res	Type	Group
1	O	481	ALA	Mainchain
1	O	483	SER	Mainchain
1	O	484	THR	Mainchain
1	O	486	MET	Mainchain
1	O	488	LEU	Mainchain
1	O	49	VAL	Mainchain
1	O	490	ILE	Mainchain
1	O	491	ASP	Mainchain
1	O	493	VAL	Mainchain
1	O	495	ALA	Peptide,Mainchain
1	O	496	ALA	Peptide
1	O	50	ASP	Mainchain
1	O	51	ASP	Mainchain
1	O	52	LEU	Mainchain
1	O	53	GLY	Mainchain
1	O	54	ASP	Mainchain
1	O	55	VAL	Mainchain
1	O	56	VAL	Mainchain
1	O	57	VAL	Mainchain
1	O	58	THR	Mainchain
1	O	60	ASP	Mainchain
1	O	62	VAL	Mainchain
1	O	63	THR	Mainchain
1	O	66	ARG	Mainchain
1	O	67	GLU	Mainchain
1	O	68	MET	Mainchain
1	O	69	SER	Mainchain
1	O	7	VAL	Mainchain
1	O	70	VAL	Mainchain
1	O	71	GLU	Mainchain
1	O	72	HIS	Mainchain
1	O	82	ALA	Mainchain
1	O	83	LYS	Mainchain
1	O	85	GLN	Mainchain
1	O	89	VAL	Mainchain
1	O	9	PRO	Mainchain
1	O	91	ASP	Mainchain
1	O	93	THR	Mainchain
1	O	95	THR	Mainchain
1	O	97	VAL	Mainchain
1	O	99	VAL	Mainchain
1	P	10	GLU	Mainchain

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Mol	Chain	Res	Type	Group
1	P	102	GLU	Mainchain
1	P	105	ARG	Mainchain
1	P	106	LYS	Mainchain
1	P	11	ASN	Mainchain
1	P	110	LEU	Peptide
1	P	111	LEU	Mainchain
1	P	112	ASP	Mainchain
1	P	113	GLN	Mainchain
1	P	114	ASN	Mainchain
1	P	115	VAL	Peptide,Mainchain
1	P	116	HIS	Mainchain
1	P	118	THR	Mainchain
1	P	12	MET	Peptide
1	P	121	VAL	Mainchain
1	P	122	LYS	Peptide
1	P	123	GLY	Mainchain
1	P	124	TYR	Mainchain
1	P	125	GLN	Mainchain
1	P	126	ALA	Mainchain
1	P	128	ALA	Peptide,Mainchain
1	P	129	GLN	Mainchain
1	P	132	GLN	Mainchain
1	P	133	GLU	Mainchain
1	P	135	LEU	Mainchain
1	P	138	ILE	Peptide,Mainchain
1	P	14	ARG	Mainchain
1	P	140	CYS	Mainchain
1	P	141	GLU	Mainchain
1	P	142	VAL	Mainchain
1	P	143	GLY	Mainchain
1	P	144	ALA	Mainchain
1	P	145	GLN	Peptide,Mainchain
1	P	147	LYS	Mainchain
1	P	148	GLU	Mainchain
1	P	150	LEU	Mainchain
1	P	152	LYS	Mainchain
1	P	156	THR	Mainchain
1	P	157	SER	Mainchain
1	P	16	MET	Mainchain
1	P	160	GLY	Mainchain
1	P	161	LYS	Mainchain
1	P	162	GLY	Mainchain

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Mol	Chain	Res	Type	Group
1	P	166	ALA	Mainchain
1	P	169	LYS	Mainchain
1	P	170	LEU	Mainchain
1	P	171	ALA	Mainchain
1	P	174	ILE	Mainchain
1	P	175	VAL	Mainchain
1	P	177	ALA	Mainchain
1	P	179	SER	Mainchain
1	P	180	ALA	Mainchain
1	P	186	GLY	Peptide
1	P	187	LYS	Mainchain
1	P	188	VAL	Mainchain
1	P	189	ASP	Peptide
1	P	190	LYS	Mainchain
1	P	191	ASP	Mainchain
1	P	197	LYS	Mainchain
1	P	198	LYS	Peptide
1	P	199	SER	Mainchain
1	P	200	GLY	Peptide,Mainchain
1	P	201	ALA	Peptide,Mainchain
1	P	202	SER	Peptide,Mainchain
1	P	203	ILE	Peptide,Mainchain
1	P	206	THR	Mainchain
1	P	209	ILE	Mainchain
1	P	210	LYS	Peptide,Mainchain
1	P	215	ASP	Mainchain
1	P	216	LYS	Mainchain
1	P	217	GLU	Mainchain
1	P	220	SER	Peptide,Mainchain
1	P	222	GLN	Mainchain
1	P	225	LYS	Mainchain
1	P	228	THR	Mainchain
1	P	229	ASP	Peptide,Mainchain
1	P	23	MET	Mainchain
1	P	230	ALA	Mainchain
1	P	231	LYS	Mainchain
1	P	234	LEU	Mainchain
1	P	237	CYS	Peptide,Mainchain
1	P	244	SER	Mainchain
1	P	248	LYS	Mainchain
1	P	250	MET	Mainchain
1	P	256	ALA	Mainchain

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Mol	Chain	Res	Type	Group
1	P	257	SER	Mainchain
1	P	26	LEU	Mainchain
1	P	262	LEU	Mainchain
1	P	264	CYS	Mainchain
1	P	265	GLN	Mainchain
1	P	266	LYS	Mainchain
1	P	267	GLY	Mainchain
1	P	269	ASP	Mainchain
1	P	27	ALA	Mainchain
1	P	270	ASP	Mainchain
1	P	272	ALA	Mainchain
1	P	276	LEU	Mainchain
1	P	279	GLU	Mainchain
1	P	28	GLY	Mainchain
1	P	284	ALA	Mainchain
1	P	285	ARG	Peptide,Mainchain
1	P	286	ARG	Mainchain
1	P	287	VAL	Mainchain
1	P	289	LYS	Peptide,Mainchain
1	P	29	ARG	Mainchain
1	P	292	MET	Mainchain
1	P	294	LYS	Mainchain
1	P	295	LEU	Mainchain
1	P	298	ALA	Peptide,Mainchain
1	P	30	ILE	Mainchain
1	P	301	ALA	Mainchain
1	P	306	ASN	Mainchain
1	P	307	ILE	Peptide,Mainchain
1	P	308	LYS	Peptide,Mainchain
1	P	309	ASP	Peptide,Mainchain
1	P	31	ILE	Mainchain
1	P	310	LEU	Mainchain
1	P	311	SER	Peptide,Mainchain
1	P	312	ALA	Peptide
1	P	313	GLN	Peptide,Mainchain
1	P	314	ASP	Mainchain
1	P	317	ASP	Mainchain
1	P	318	ALA	Mainchain
1	P	32	ALA	Mainchain
1	P	326	ILE	Mainchain
1	P	327	SER	Peptide
1	P	328	GLY	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	P	330	SER	Mainchain
1	P	333	PHE	Mainchain
1	P	335	GLU	Mainchain
1	P	336	GLU	Mainchain
1	P	338	LYS	Mainchain
1	P	339	HIS	Mainchain
1	P	34	THR	Mainchain
1	P	340	PRO	Peptide
1	P	342	ALA	Mainchain
1	P	345	MET	Mainchain
1	P	347	ILE	Mainchain
1	P	348	ARG	Peptide
1	P	349	GLY	Peptide,Mainchain
1	P	35	VAL	Mainchain
1	P	350	THR	Peptide
1	P	352	GLU	Mainchain
1	P	354	VAL	Mainchain
1	P	355	ILE	Mainchain
1	P	356	GLU	Mainchain
1	P	357	GLU	Mainchain
1	P	36	ARG	Mainchain
1	P	361	ALA	Mainchain
1	P	365	ALA	Mainchain
1	P	368	VAL	Mainchain
1	P	369	VAL	Mainchain
1	P	371	CYS	Mainchain
1	P	373	ILE	Mainchain
1	P	374	GLU	Mainchain
1	P	375	ASP	Mainchain
1	P	376	GLY	Mainchain
1	P	377	ARG	Mainchain
1	P	378	ILE	Peptide,Mainchain
1	P	379	VAL	Mainchain
1	P	38	THR	Mainchain
1	P	380	SER	Mainchain
1	P	381	GLY	Mainchain
1	P	382	GLY	Mainchain
1	P	383	GLY	Peptide
1	P	386	GLU	Mainchain
1	P	39	LEU	Mainchain
1	P	391	MET	Mainchain
1	P	392	LYS	Mainchain

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Mol	Chain	Res	Type	Group
1	P	393	LEU	Mainchain
1	P	396	TYR	Mainchain
1	P	397	ALA	Mainchain
1	P	398	GLU	Mainchain
1	P	40	GLY	Peptide,Mainchain
1	P	400	ILE	Mainchain
1	P	402	GLY	Mainchain
1	P	403	ARG	Mainchain
1	P	405	GLN	Peptide
1	P	408	VAL	Mainchain
1	P	410	ALA	Mainchain
1	P	411	PHE	Mainchain
1	P	412	ALA	Mainchain
1	P	415	LEU	Mainchain
1	P	416	GLU	Mainchain
1	P	417	VAL	Mainchain
1	P	42	LYS	Mainchain
1	P	423	ALA	Mainchain
1	P	424	GLU	Mainchain
1	P	425	ASN	Mainchain
1	P	426	ALA	Mainchain
1	P	427	GLY	Mainchain
1	P	430	ALA	Mainchain
1	P	432	GLU	Mainchain
1	P	438	ARG	Mainchain
1	P	439	ALA	Mainchain
1	P	44	MET	Mainchain
1	P	442	ALA	Mainchain
1	P	443	SER	Mainchain
1	P	446	ASN	Mainchain
1	P	449	ALA	Mainchain
1	P	45	ASP	Mainchain
1	P	455	THR	Mainchain
1	P	456	GLY	Mainchain
1	P	457	ALA	Mainchain
1	P	458	VAL	Mainchain
1	P	459	GLU	Mainchain
1	P	46	LYS	Mainchain
1	P	461	MET	Mainchain
1	P	463	GLU	Mainchain
1	P	464	ASN	Peptide,Mainchain
1	P	467	VAL	Mainchain

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Mol	Chain	Res	Type	Group
1	P	469	PRO	Mainchain
1	P	47	MET	Mainchain
1	P	470	LEU	Mainchain
1	P	471	ARG	Peptide
1	P	472	VAL	Mainchain
1	P	474	THR	Mainchain
1	P	477	ILE	Mainchain
1	P	48	LEU	Mainchain
1	P	480	ALA	Mainchain
1	P	482	GLU	Mainchain
1	P	483	SER	Mainchain
1	P	484	THR	Mainchain
1	P	486	MET	Mainchain
1	P	487	LEU	Mainchain
1	P	489	ARG	Mainchain
1	P	49	VAL	Mainchain
1	P	492	ASP	Mainchain
1	P	495	ALA	Mainchain
1	P	496	ALA	Mainchain
1	P	50	ASP	Peptide,Mainchain
1	P	56	VAL	Mainchain
1	P	57	VAL	Mainchain
1	P	58	THR	Mainchain
1	P	62	VAL	Mainchain
1	P	63	THR	Mainchain
1	P	66	ARG	Mainchain
1	P	68	MET	Mainchain
1	P	69	SER	Peptide
1	P	7	VAL	Mainchain
1	P	70	VAL	Mainchain
1	P	72	HIS	Mainchain
1	P	74	ALA	Peptide,Mainchain
1	P	75	ALA	Mainchain
1	P	77	MET	Mainchain
1	P	78	LEU	Mainchain
1	P	79	ILE	Mainchain
1	P	8	LEU	Mainchain
1	P	81	VAL	Mainchain
1	P	82	ALA	Mainchain
1	P	83	LYS	Mainchain
1	P	84	THR	Mainchain
1	P	87	LYS	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
1	P	9	PRO	Peptide
1	P	91	ASP	Mainchain
1	P	92	GLY	Mainchain
1	P	94	THR	Mainchain
1	P	95	THR	Mainchain
1	P	96	ALA	Peptide
1	P	97	VAL	Mainchain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3664	0	3799	725	0
1	B	3664	0	3800	632	0
1	C	3664	0	3798	623	0
1	D	3664	0	3801	634	0
1	E	3664	0	3801	694	0
1	F	3664	0	3800	533	0
1	G	3664	0	3800	579	0
1	H	3664	0	3801	578	0
1	I	3664	0	3799	614	0
1	J	3664	0	3801	651	0
1	K	3664	0	3798	619	0
1	L	3664	0	3801	621	0
1	M	3664	0	3799	631	0
1	N	3664	0	3799	661	0
1	O	3664	0	3800	583	0
1	P	3664	0	3800	642	0
All	All	58624	0	60797	9630	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 82.

All (9630) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:403:ARG:HH11	1:N:403:ARG:CG	1.06	1.44
1:M:420:ARG:HH11	1:M:420:ARG:CB	1.31	1.41
1:B:488:LEU:CD2	1:B:488:LEU:O	1.68	1.40
1:E:488:LEU:HD12	1:E:488:LEU:O	1.11	1.29
1:E:391:MET:CE	1:E:438:ARG:HB3	1.65	1.26
1:J:488:LEU:O	1:J:488:LEU:HD22	1.11	1.26
1:K:403:ARG:HH11	1:K:403:ARG:CG	1.47	1.25
1:M:42:LYS:HE2	1:M:426:ALA:CB	1.67	1.25
1:O:114:ASN:O	1:O:114:ASN:OD1	1.52	1.24
1:M:488:LEU:HD12	1:M:488:LEU:O	1.10	1.23
1:N:100:ALA:CB	1:N:484:THR:HG21	1.69	1.22
1:J:276:LEU:CD1	1:J:281:ILE:HD12	1.69	1.22
1:L:166:ALA:HB2	1:L:203:ILE:CG2	1.70	1.21
1:P:174:ILE:HG22	1:P:362:VAL:CG2	1.70	1.21
1:O:174:ILE:HG22	1:O:362:VAL:CG2	1.68	1.21
1:O:174:ILE:CG2	1:O:362:VAL:HG23	1.70	1.20
1:M:100:ALA:HB1	1:M:484:THR:CG2	1.71	1.20
1:O:116:HIS:CG	1:O:117:PRO:HD2	1.76	1.20
1:M:206:THR:CG2	1:M:347:ILE:HG23	1.71	1.20
1:I:48:LEU:HB2	1:I:56:VAL:CG2	1.72	1.19
1:P:154:ALA:HB1	1:P:174:ILE:HD11	1.21	1.19
1:E:130:LYS:HD2	1:E:393:LEU:CD2	1.70	1.19
1:K:233:ALA:HA	1:K:315:LEU:CD1	1.71	1.19
1:M:420:ARG:HH11	1:M:420:ARG:CG	1.49	1.19
1:A:174:ILE:HG22	1:A:362:VAL:HG23	1.23	1.19
1:I:124:TYR:CE1	1:I:407:ALA:HA	1.77	1.18
1:N:100:ALA:HB1	1:N:484:THR:CG2	1.71	1.18
1:F:177:ALA:HB2	1:F:208:LEU:HD11	1.19	1.18
1:C:118:THR:O	1:C:118:THR:HG22	1.41	1.18
1:D:170:LEU:HD22	1:D:358:VAL:HG13	1.25	1.18
1:E:150:LEU:HD23	1:E:175:VAL:HG13	1.22	1.18
1:F:178:VAL:HG11	1:F:366:VAL:HG13	1.24	1.18
1:M:119:ILE:HG13	1:M:403:ARG:HD3	1.20	1.18
1:F:206:THR:HG22	1:F:348:ARG:H	1.03	1.18
1:H:42:LYS:HE2	1:H:426:ALA:HA	1.24	1.18
1:K:78:LEU:HD12	1:K:487:LEU:HD22	1.20	1.18
1:K:192:LEU:HB2	1:K:342:ALA:HB2	1.23	1.18
1:L:138:ILE:CD1	1:L:385:THR:HG23	1.72	1.18
1:D:174:ILE:HG22	1:D:362:VAL:HG23	1.26	1.17
1:F:235:LEU:HD11	1:F:310:LEU:HB2	1.26	1.17
1:M:197:LYS:CA	1:M:355:ILE:HG21	1.74	1.17
1:J:347:ILE:CG2	1:J:355:ILE:HG23	1.73	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:84:THR:O	1:P:84:THR:CG2	1.86	1.17
1:P:233:ALA:HB1	1:P:310:LEU:HD11	1.26	1.17
1:I:42:LYS:HE2	1:I:426:ALA:HB2	1.26	1.17
1:P:166:ALA:HB2	1:P:203:ILE:HG12	1.21	1.17
1:J:116:HIS:CG	1:J:117:PRO:HD2	1.78	1.17
1:J:276:LEU:HD12	1:J:281:ILE:CG2	1.74	1.17
1:N:154:ALA:HB1	1:N:174:ILE:HD11	1.27	1.17
1:A:34:THR:CG2	1:A:35:VAL:HG13	1.74	1.17
1:F:233:ALA:HA	1:F:315:LEU:HD13	1.26	1.17
1:G:103:LEU:HD21	1:G:411:PHE:CD2	1.80	1.17
1:H:77:MET:HE3	1:H:487:LEU:HD21	1.20	1.17
1:D:62:VAL:HG13	1:D:63:THR:H	1.07	1.16
1:H:233:ALA:HA	1:H:315:LEU:HG	1.17	1.16
1:J:276:LEU:CD1	1:J:281:ILE:HG21	1.75	1.16
1:L:166:ALA:CB	1:L:203:ILE:HG22	1.75	1.16
1:A:42:LYS:HB3	1:A:425:ASN:HB2	1.24	1.16
1:A:30:ILE:HG22	1:A:31:ILE:HG12	1.25	1.16
1:D:235:LEU:CD2	1:D:310:LEU:HG	1.76	1.16
1:F:119:ILE:HG13	1:F:403:ARG:CD	1.76	1.16
1:P:174:ILE:CG2	1:P:362:VAL:HG23	1.74	1.16
1:A:158:ILE:HG12	1:A:361:ALA:HB1	1.25	1.16
1:B:134:LEU:HB3	1:B:392:LYS:HZ1	1.00	1.16
1:C:192:LEU:HB3	1:C:342:ALA:HB2	1.23	1.16
1:E:195:ILE:HD12	1:E:195:ILE:O	1.46	1.16
1:A:154:ALA:CB	1:A:174:ILE:HD11	1.76	1.16
1:E:345:MET:HE1	1:E:362:VAL:HG11	1.29	1.15
1:F:345:MET:HE1	1:F:362:VAL:HG11	1.16	1.15
1:G:376:GLY:HA3	1:G:377:ARG:HB2	1.15	1.15
1:L:174:ILE:HG22	1:L:362:VAL:HG23	1.22	1.15
1:D:154:ALA:HB1	1:D:174:ILE:HD11	1.28	1.15
1:G:42:LYS:HG3	1:G:425:ASN:C	1.69	1.15
1:M:420:ARG:HG2	1:M:420:ARG:NH1	1.58	1.15
1:A:88:GLU:HG3	1:A:475:GLN:HG2	1.22	1.15
1:D:192:LEU:HG	1:D:342:ALA:HB2	1.29	1.15
1:C:391:MET:HE3	1:C:438:ARG:HG2	1.29	1.14
1:F:251:VAL:CG1	1:F:276:LEU:HD22	1.75	1.14
1:L:276:LEU:HD12	1:L:281:ILE:CG2	1.76	1.14
1:P:276:LEU:HD23	1:P:281:ILE:HD12	1.22	1.14
1:A:239:ILE:CG2	1:A:268:ILE:HG23	1.78	1.14
1:D:158:ILE:HD13	1:D:170:LEU:CG	1.76	1.14
1:E:42:LYS:HE3	1:E:426:ALA:CB	1.76	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:420:ARG:HH11	1:H:420:ARG:HG2	1.08	1.14
1:J:82:ALA:HB1	1:J:93:THR:HG22	1.24	1.14
1:K:391:MET:HE1	1:K:438:ARG:HB3	1.26	1.14
1:B:488:LEU:C	1:B:488:LEU:HD22	1.73	1.14
1:C:178:VAL:HG22	1:C:193:ILE:CD1	1.78	1.14
1:M:420:ARG:CG	1:M:420:ARG:NH1	2.06	1.14
1:M:488:LEU:O	1:M:488:LEU:CD1	1.96	1.14
1:C:276:LEU:CD1	1:C:281:ILE:HD12	1.77	1.14
1:M:150:LEU:HD23	1:M:175:VAL:HG13	1.15	1.14
1:A:152:LYS:HE2	1:A:462:CYS:HA	1.14	1.13
1:E:403:ARG:HH11	1:E:403:ARG:HG3	1.10	1.13
1:H:42:LYS:HE2	1:H:426:ALA:CA	1.78	1.13
1:D:100:ALA:HB1	1:D:484:THR:HG21	1.17	1.13
1:L:100:ALA:CB	1:L:484:THR:HG21	1.78	1.13
1:M:192:LEU:CD2	1:M:342:ALA:HB2	1.76	1.13
1:O:96:ALA:HA	1:O:480:ALA:HB2	1.19	1.13
1:B:262:LEU:HD11	1:B:310:LEU:CD1	1.77	1.13
1:C:39:LEU:HG	1:C:40:GLY:H	1.08	1.13
1:D:158:ILE:CD1	1:D:170:LEU:HG	1.78	1.13
1:H:119:ILE:CG2	1:H:403:ARG:HB2	1.77	1.13
1:J:403:ARG:HG3	1:J:403:ARG:HH11	1.03	1.13
1:K:134:LEU:HD22	1:K:392:LYS:HD2	1.23	1.13
1:A:276:LEU:HD12	1:A:281:ILE:HG21	1.30	1.13
1:C:431:ILE:O	1:C:431:ILE:HG12	1.46	1.13
1:P:100:ALA:HB1	1:P:484:THR:CG2	1.78	1.13
1:P:276:LEU:HD22	1:P:281:ILE:HG21	1.15	1.13
1:A:100:ALA:HB1	1:A:484:THR:HG21	1.28	1.12
1:B:119:ILE:HG13	1:B:403:ARG:HD2	1.21	1.12
1:L:377:ARG:CB	1:L:470:LEU:HD23	1.79	1.13
1:O:154:ALA:HB1	1:O:174:ILE:CD1	1.78	1.12
1:A:345:MET:CE	1:A:362:VAL:HG11	1.79	1.12
1:C:130:LYS:HE2	1:C:134:LEU:HD11	1.26	1.12
1:C:233:ALA:HA	1:C:315:LEU:HD22	1.20	1.12
1:E:135:LEU:HD21	1:E:385:THR:HG21	1.26	1.12
1:F:459:GLU:CD	1:F:461:MET:HE1	1.74	1.12
1:I:100:ALA:HB1	1:I:484:THR:CG2	1.78	1.12
1:C:116:HIS:CG	1:C:117:PRO:HD2	1.83	1.12
1:C:197:LYS:CA	1:C:355:ILE:HG21	1.78	1.12
1:E:488:LEU:O	1:E:488:LEU:CD1	1.95	1.12
1:F:233:ALA:HB1	1:F:310:LEU:HD11	1.14	1.12
1:G:14:ARG:HH12	1:H:34:THR:HG23	1.08	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:130:LYS:HZ3	1:J:393:LEU:HD23	0.95	1.12
1:J:153:ILE:HD11	1:J:378:ILE:HG22	1.23	1.12
1:M:42:LYS:HE2	1:M:426:ALA:HB2	1.28	1.12
1:E:100:ALA:HB1	1:E:484:THR:HG21	1.25	1.12
1:I:48:LEU:HB2	1:I:56:VAL:HG21	1.22	1.12
1:K:42:LYS:HE2	1:K:426:ALA:CA	1.79	1.12
1:B:420:ARG:HG2	1:B:420:ARG:HH11	1.15	1.11
1:C:138:ILE:HD13	1:C:379:VAL:HG21	1.15	1.11
1:F:420:ARG:HH21	1:F:430:ALA:HB3	1.04	1.11
1:G:100:ALA:HB1	1:G:484:THR:HG21	1.22	1.11
1:H:114:ASN:O	1:H:114:ASN:ND2	1.81	1.11
1:J:488:LEU:O	1:J:488:LEU:CD2	1.96	1.11
1:M:192:LEU:HB2	1:M:342:ALA:HB1	1.25	1.11
1:N:233:ALA:HA	1:N:315:LEU:HD22	1.17	1.11
1:O:379:VAL:HG11	1:O:473:LYS:HG3	1.31	1.11
1:B:380:SER:HB3	1:B:384:SER:HB2	1.31	1.11
1:C:42:LYS:HB2	1:C:425:ASN:CB	1.80	1.11
1:G:153:ILE:HD11	1:G:378:ILE:HG22	1.21	1.11
1:H:174:ILE:HG22	1:H:362:VAL:CG2	1.78	1.11
1:L:105:ARG:CD	1:L:106:LYS:HG2	1.81	1.11
1:L:130:LYS:HZ2	1:L:134:LEU:HD11	0.97	1.11
1:L:251:VAL:HG13	1:L:276:LEU:HD22	1.24	1.11
1:M:223:MET:HE1	1:M:283:ALA:HB3	1.31	1.11
1:N:138:ILE:O	1:N:138:ILE:HG22	1.35	1.11
1:B:38:THR:HG23	1:B:46:LYS:HE2	1.29	1.11
1:B:276:LEU:HD23	1:B:281:ILE:HD12	1.28	1.11
1:C:233:ALA:HB1	1:C:310:LEU:HD11	1.19	1.11
1:G:152:LYS:HG2	1:G:465:GLY:HA3	1.21	1.11
1:H:154:ALA:HB1	1:H:174:ILE:CD1	1.79	1.11
1:H:192:LEU:CD1	1:H:342:ALA:HB2	1.80	1.11
1:L:38:THR:HG21	1:L:46:LYS:HE2	1.29	1.11
1:A:403:ARG:HH11	1:A:403:ARG:CG	1.51	1.11
1:H:174:ILE:HG22	1:H:362:VAL:HG23	1.25	1.11
1:H:255:LYS:HG3	1:H:255:LYS:O	1.32	1.11
1:A:14:ARG:HH22	1:B:34:THR:HA	0.96	1.11
1:G:379:VAL:HB	1:G:470:LEU:CD2	1.81	1.11
1:G:391:MET:HE1	1:G:438:ARG:CA	1.79	1.11
1:K:233:ALA:HA	1:K:315:LEU:HG	1.27	1.11
1:K:276:LEU:HD12	1:K:281:ILE:CG2	1.79	1.11
1:L:25:ILE:HD13	1:L:108:GLU:HG3	1.23	1.11
1:L:158:ILE:HG12	1:L:361:ALA:HB1	1.18	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:405:GLN:HB3	1:M:406:LEU:HD22	1.16	1.11
1:A:100:ALA:HB1	1:A:484:THR:CG2	1.79	1.10
1:D:14:ARG:HH22	1:E:34:THR:HA	1.15	1.10
1:E:154:ALA:HB1	1:E:174:ILE:HD11	1.15	1.10
1:F:251:VAL:HG11	1:F:276:LEU:HD22	1.24	1.10
1:H:219:VAL:HG21	1:H:268:ILE:HD12	1.16	1.10
1:K:14:ARG:HD2	1:K:494:ILE:HG12	1.30	1.10
1:P:234:LEU:HB3	1:P:292:MET:HE1	1.13	1.10
1:I:368:VAL:HB	1:I:469:PRO:HB3	1.11	1.10
1:M:235:LEU:HD21	1:M:310:LEU:HB2	1.22	1.10
1:A:195:ILE:HB	1:A:359:ALA:HB1	1.22	1.10
1:F:154:ALA:HB1	1:F:174:ILE:HD11	1.24	1.10
1:H:27:ALA:HB2	1:H:72:HIS:HD2	1.17	1.10
1:I:170:LEU:HD21	1:I:358:VAL:HG22	1.22	1.10
1:I:384:SER:HB3	1:I:441:HIS:HE1	0.98	1.10
1:I:469:PRO:HG2	1:I:472:VAL:HG11	1.32	1.10
1:K:42:LYS:HE2	1:K:426:ALA:HA	1.11	1.10
1:N:235:LEU:HG	1:N:310:LEU:HD22	1.15	1.10
1:P:84:THR:O	1:P:84:THR:HG22	1.32	1.10
1:A:42:LYS:CE	1:A:426:ALA:HA	1.80	1.10
1:C:119:ILE:HG23	1:C:403:ARG:HB3	1.30	1.10
1:C:403:ARG:HH11	1:C:403:ARG:HG3	1.15	1.10
1:D:154:ALA:CB	1:D:174:ILE:HD11	1.81	1.10
1:F:232:ILE:HG12	1:F:299:THR:HG21	1.31	1.10
1:I:234:LEU:HB3	1:I:292:MET:HE1	1.13	1.10
1:J:119:ILE:HG21	1:J:403:ARG:HB2	1.32	1.10
1:J:391:MET:CE	1:J:438:ARG:HB3	1.80	1.10
1:N:119:ILE:HD12	1:N:403:ARG:HB2	1.10	1.10
1:N:251:VAL:CG1	1:N:276:LEU:HG	1.79	1.10
1:P:420:ARG:HH11	1:P:420:ARG:CG	1.64	1.10
1:C:276:LEU:HD12	1:C:281:ILE:HG21	1.16	1.10
1:H:276:LEU:HD23	1:H:281:ILE:HD12	1.17	1.10
1:I:235:LEU:CD2	1:I:310:LEU:HD13	1.81	1.10
1:J:116:HIS:ND1	1:J:117:PRO:HD2	1.66	1.10
1:L:134:LEU:HD13	1:L:392:LYS:HD2	1.16	1.10
1:B:166:ALA:HB2	1:B:203:ILE:HG22	1.14	1.09
1:F:368:VAL:HB	1:F:469:PRO:HG2	1.21	1.09
1:H:42:LYS:HB3	1:H:425:ASN:HB2	1.18	1.09
1:A:405:GLN:HB3	1:A:406:LEU:HD12	1.12	1.09
1:B:488:LEU:O	1:B:488:LEU:HD23	1.43	1.09
1:D:89:VAL:O	1:D:89:VAL:HG22	1.50	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:251:VAL:CG1	1:L:276:LEU:HD22	1.83	1.09
1:M:276:LEU:CD1	1:M:281:ILE:HG21	1.83	1.09
1:N:150:LEU:HD23	1:N:175:VAL:HG13	1.32	1.09
1:C:34:THR:HG22	1:C:35:VAL:HG13	1.27	1.09
1:E:391:MET:HE3	1:E:438:ARG:CB	1.83	1.09
1:G:150:LEU:HD23	1:G:175:VAL:HG13	1.11	1.09
1:H:152:LYS:HG2	1:H:465:GLY:HA2	1.10	1.09
1:J:100:ALA:HB1	1:J:484:THR:HG21	1.30	1.09
1:J:134:LEU:HD22	1:J:392:LYS:CD	1.81	1.09
1:M:130:LYS:CE	1:M:134:LEU:HD11	1.82	1.09
1:P:368:VAL:HB	1:P:469:PRO:HG2	1.26	1.09
1:A:493:VAL:HG13	1:B:47:MET:HE2	1.35	1.09
1:C:42:LYS:HB2	1:C:425:ASN:HB3	1.10	1.09
1:E:130:LYS:HD2	1:E:393:LEU:HD21	1.27	1.09
1:E:156:THR:HG21	1:E:468:GLU:HB3	1.33	1.09
1:G:166:ALA:HB2	1:G:203:ILE:CG2	1.83	1.09
1:J:420:ARG:HG2	1:J:420:ARG:HH11	1.08	1.09
1:K:469:PRO:HD2	1:K:472:VAL:HG21	1.34	1.09
1:N:345:MET:CE	1:N:362:VAL:HG21	1.83	1.09
1:F:100:ALA:HB1	1:F:484:THR:HG21	1.14	1.08
1:F:119:ILE:CG1	1:F:403:ARG:HD3	1.82	1.08
1:I:42:LYS:HB3	1:I:425:ASN:HB3	1.11	1.08
1:J:154:ALA:HB1	1:J:174:ILE:HD11	1.32	1.08
1:J:235:LEU:HD11	1:J:310:LEU:HD22	1.29	1.08
1:K:174:ILE:HG22	1:K:362:VAL:CG2	1.83	1.08
1:K:384:SER:HB2	1:K:441:HIS:CE1	1.88	1.08
1:B:14:ARG:HH12	1:C:34:THR:HA	1.16	1.08
1:F:130:LYS:HE3	1:F:134:LEU:HD11	1.17	1.08
1:F:381:GLY:HA3	1:F:461:MET:HG2	1.12	1.08
1:G:232:ILE:HG12	1:G:299:THR:HG21	1.19	1.08
1:H:119:ILE:HG21	1:H:403:ARG:CB	1.83	1.08
1:H:134:LEU:HD22	1:H:392:LYS:HD2	1.19	1.08
1:I:139:ALA:HB2	1:I:377:ARG:HD3	1.34	1.08
1:I:158:ILE:HD13	1:I:170:LEU:HB3	1.34	1.08
1:J:158:ILE:HG12	1:J:361:ALA:HB1	1.26	1.08
1:J:197:LYS:HB3	1:J:355:ILE:HG21	1.31	1.08
1:K:134:LEU:HB3	1:K:392:LYS:HZ2	0.95	1.08
1:M:368:VAL:HB	1:M:469:PRO:CG	1.82	1.08
1:N:135:LEU:HD23	1:N:138:ILE:CD1	1.82	1.08
1:B:78:LEU:HD12	1:B:487:LEU:HD21	1.28	1.08
1:G:39:LEU:HD22	1:G:40:GLY:H	1.09	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:347:ILE:HG23	1:J:355:ILE:HG23	1.26	1.08
1:L:38:THR:CG2	1:L:46:LYS:HE2	1.83	1.08
1:M:34:THR:HG22	1:M:35:VAL:HG22	1.16	1.08
1:N:174:ILE:CG2	1:N:362:VAL:HG23	1.81	1.08
1:A:14:ARG:NH2	1:B:34:THR:HA	1.66	1.08
1:B:119:ILE:HG13	1:B:403:ARG:CD	1.84	1.08
1:H:469:PRO:HG2	1:H:472:VAL:CG2	1.82	1.08
1:I:14:ARG:HD2	1:I:494:ILE:HG12	1.09	1.08
1:I:276:LEU:HD12	1:I:281:ILE:HG21	1.17	1.08
1:J:34:THR:HG22	1:J:35:VAL:HG12	1.10	1.08
1:J:276:LEU:HD12	1:J:281:ILE:HD12	1.29	1.08
1:K:119:ILE:HG21	1:K:403:ARG:HB2	1.15	1.08
1:L:406:LEU:H	1:L:406:LEU:HD12	1.14	1.08
1:P:134:LEU:HD22	1:P:392:LYS:HE3	1.34	1.08
1:A:345:MET:HE1	1:A:362:VAL:CG1	1.84	1.08
1:G:193:ILE:HG23	1:G:343:VAL:CG1	1.81	1.08
1:G:235:LEU:HD23	1:G:310:LEU:HB2	1.30	1.08
1:I:150:LEU:HD23	1:I:175:VAL:HG13	1.35	1.08
1:I:235:LEU:HD21	1:I:310:LEU:CB	1.84	1.08
1:K:130:LYS:HZ3	1:K:134:LEU:HD11	0.96	1.08
1:K:132:GLN:HE21	1:K:132:GLN:HA	1.12	1.08
1:C:233:ALA:HB1	1:C:310:LEU:CD1	1.82	1.07
1:D:99:VAL:CG1	1:D:418:ILE:HD11	1.83	1.07
1:D:276:LEU:HD12	1:D:281:ILE:HG21	1.30	1.07
1:G:153:ILE:HD11	1:G:378:ILE:CG2	1.83	1.07
1:J:134:LEU:HD22	1:J:392:LYS:HD2	1.16	1.07
1:K:100:ALA:CB	1:K:484:THR:HG21	1.83	1.07
1:K:233:ALA:HB1	1:K:310:LEU:HD21	1.19	1.07
1:L:233:ALA:HB1	1:L:310:LEU:HD11	1.14	1.07
1:M:173:ILE:HD13	1:M:206:THR:HG22	1.29	1.07
1:M:195:ILE:HD13	1:M:195:ILE:H	1.14	1.07
1:N:174:ILE:HG22	1:N:362:VAL:CG2	1.82	1.07
1:O:34:THR:HG22	1:O:35:VAL:HG13	1.34	1.07
1:O:135:LEU:HD23	1:O:138:ILE:HD11	1.30	1.07
1:A:195:ILE:HB	1:A:359:ALA:CB	1.84	1.07
1:B:100:ALA:HB1	1:B:484:THR:HG21	1.28	1.07
1:E:380:SER:HB2	1:E:384:SER:HB2	1.22	1.07
1:I:234:LEU:HB3	1:I:292:MET:CE	1.83	1.07
1:M:130:LYS:HE2	1:M:134:LEU:CD1	1.84	1.07
1:O:39:LEU:HG	1:O:40:GLY:H	1.10	1.07
1:O:42:LYS:HB3	1:O:425:ASN:HB2	1.14	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:96:ALA:HA	1:A:480:ALA:CB	1.83	1.07
1:I:34:THR:HG22	1:I:35:VAL:HG12	1.10	1.07
1:I:235:LEU:CD2	1:I:310:LEU:HB2	1.82	1.07
1:M:368:VAL:HB	1:M:469:PRO:HG3	1.33	1.07
1:O:219:VAL:CG2	1:O:268:ILE:HD12	1.82	1.07
1:O:276:LEU:HD12	1:O:281:ILE:HD12	1.34	1.07
1:A:77:MET:HE2	1:A:486:MET:HE2	1.13	1.07
1:A:89:VAL:HG21	1:A:368:VAL:CG1	1.85	1.07
1:B:38:THR:CG2	1:B:46:LYS:HE2	1.84	1.07
1:D:77:MET:HB2	1:D:487:LEU:HD21	1.34	1.07
1:D:235:LEU:HD21	1:D:310:LEU:CG	1.83	1.07
1:D:254:ILE:HG12	1:D:310:LEU:HD12	1.36	1.07
1:E:473:LYS:HZ2	1:E:473:LYS:HB2	1.19	1.07
1:F:345:MET:CE	1:F:362:VAL:HG11	1.83	1.07
1:O:77:MET:HE1	1:O:486:MET:CE	1.84	1.07
1:A:239:ILE:HG21	1:A:268:ILE:HG23	1.35	1.07
1:A:420:ARG:HG2	1:A:420:ARG:HH11	1.08	1.07
1:C:154:ALA:HB1	1:C:174:ILE:HD11	1.18	1.07
1:G:174:ILE:HG22	1:G:362:VAL:HB	1.37	1.07
1:I:123:GLY:HA3	1:I:407:ALA:CB	1.84	1.07
1:I:379:VAL:HG22	1:I:380:SER:HA	1.37	1.07
1:I:384:SER:HB3	1:I:441:HIS:CE1	1.89	1.07
1:J:178:VAL:CG2	1:J:366:VAL:HG13	1.82	1.07
1:M:197:LYS:HA	1:M:355:ILE:HG21	1.29	1.07
1:A:88:GLU:CG	1:A:475:GLN:HG2	1.85	1.06
1:B:174:ILE:HG22	1:B:362:VAL:CG1	1.85	1.06
1:C:377:ARG:HD3	1:C:377:ARG:H	1.16	1.06
1:E:403:ARG:HB3	1:E:406:LEU:CD1	1.85	1.06
1:G:158:ILE:HG12	1:G:361:ALA:HB1	1.33	1.06
1:H:368:VAL:HB	1:H:469:PRO:HG3	1.33	1.06
1:I:34:THR:CG2	1:I:35:VAL:HG12	1.84	1.06
1:I:235:LEU:HD23	1:I:310:LEU:HD13	1.11	1.06
1:P:420:ARG:HH11	1:P:420:ARG:HG2	0.92	1.06
1:C:276:LEU:HD12	1:C:281:ILE:HD12	1.24	1.06
1:E:42:LYS:HG3	1:E:425:ASN:HB2	1.31	1.06
1:G:150:LEU:HD23	1:G:175:VAL:CG1	1.86	1.06
1:K:232:ILE:HD13	1:K:299:THR:HG21	1.32	1.06
1:L:103:LEU:HD21	1:L:411:PHE:CE2	1.88	1.06
1:M:123:GLY:HA3	1:M:407:ALA:CB	1.85	1.06
1:P:121:VAL:HG11	1:P:489:ARG:HD2	1.32	1.06
1:B:488:LEU:O	1:B:488:LEU:HD22	1.32	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:124:TYR:HE1	1:I:407:ALA:HA	0.99	1.06
1:I:195:ILE:HB	1:I:359:ALA:CB	1.85	1.06
1:I:368:VAL:HB	1:I:469:PRO:CB	1.85	1.06
1:K:42:LYS:HB3	1:K:425:ASN:HB3	1.35	1.06
1:K:174:ILE:HG22	1:K:362:VAL:HG23	1.07	1.06
1:N:276:LEU:HD23	1:N:281:ILE:HD12	1.15	1.06
1:C:134:LEU:HB3	1:C:392:LYS:HZ2	1.19	1.06
1:D:235:LEU:HD21	1:D:310:LEU:HG	1.10	1.06
1:A:150:LEU:HD23	1:A:175:VAL:CG1	1.83	1.06
1:A:197:LYS:H	1:A:197:LYS:HD2	0.91	1.06
1:B:493:VAL:HG13	1:C:47:MET:HE2	1.34	1.06
1:F:345:MET:HE1	1:F:362:VAL:HG21	1.36	1.06
1:F:391:MET:HE3	1:F:438:ARG:HG2	1.35	1.06
1:I:232:ILE:HG13	1:I:261:VAL:HG11	1.38	1.06
1:M:377:ARG:HH11	1:M:470:LEU:HD12	1.19	1.06
1:O:469:PRO:HD2	1:O:472:VAL:HG11	1.08	1.06
1:C:77:MET:HE2	1:C:486:MET:HE2	1.07	1.05
1:H:119:ILE:HG13	1:H:403:ARG:HD3	1.29	1.05
1:J:345:MET:HE1	1:J:362:VAL:HG11	1.38	1.05
1:C:219:VAL:HG23	1:C:285:ARG:CB	1.86	1.05
1:C:233:ALA:HA	1:C:315:LEU:CD2	1.86	1.05
1:E:234:LEU:H	1:E:315:LEU:HD22	1.19	1.05
1:F:459:GLU:CG	1:F:461:MET:HE1	1.87	1.05
1:H:233:ALA:HA	1:H:315:LEU:CG	1.87	1.05
1:H:469:PRO:HG2	1:H:472:VAL:HG21	1.37	1.05
1:L:486:MET:HE2	1:L:487:LEU:HD23	1.09	1.05
1:N:138:ILE:O	1:N:138:ILE:CG2	2.04	1.05
1:D:403:ARG:HD2	1:M:431:ILE:HD13	1.08	1.05
1:E:403:ARG:HH11	1:E:403:ARG:CG	1.64	1.05
1:G:391:MET:HE1	1:G:438:ARG:HA	1.37	1.05
1:H:368:VAL:CB	1:H:469:PRO:HG3	1.87	1.05
1:J:39:LEU:HG	1:J:40:GLY:H	1.14	1.05
1:M:173:ILE:CD1	1:M:206:THR:HG22	1.84	1.05
1:M:276:LEU:HD12	1:M:281:ILE:CG2	1.86	1.05
1:N:469:PRO:HG2	1:N:472:VAL:HG11	1.06	1.05
1:B:89:VAL:O	1:B:89:VAL:CG2	2.03	1.05
1:D:77:MET:HE1	1:D:486:MET:HE1	1.29	1.05
1:E:268:ILE:HG21	1:E:273:GLN:HG3	1.34	1.05
1:G:72:HIS:HA	1:G:75:ALA:HB3	1.37	1.05
1:G:233:ALA:HA	1:G:315:LEU:CD1	1.85	1.05
1:G:368:VAL:HB	1:G:469:PRO:HG2	1.35	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:377:ARG:HG2	1:H:470:LEU:HD23	1.36	1.05
1:K:166:ALA:HB2	1:K:203:ILE:HG22	1.37	1.05
1:N:469:PRO:CG	1:N:472:VAL:HG11	1.87	1.05
1:O:219:VAL:HG21	1:O:268:ILE:CD1	1.87	1.05
1:P:268:ILE:HB	1:P:273:GLN:HE21	1.08	1.05
1:C:206:THR:HG21	1:C:347:ILE:HG22	1.39	1.05
1:F:34:THR:HG22	1:F:35:VAL:HG13	1.34	1.05
1:J:234:LEU:H	1:J:315:LEU:HD21	1.16	1.05
1:M:420:ARG:CB	1:M:420:ARG:NH1	2.17	1.05
1:N:276:LEU:CD2	1:N:281:ILE:HG21	1.85	1.05
1:D:78:LEU:HD12	1:D:487:LEU:CD1	1.88	1.04
1:H:154:ALA:CB	1:H:174:ILE:HD11	1.87	1.04
1:H:178:VAL:HG11	1:H:366:VAL:HG13	1.37	1.04
1:K:459:GLU:HG2	1:K:461:MET:HE1	1.38	1.04
1:M:150:LEU:HD23	1:M:175:VAL:CG1	1.86	1.04
1:B:197:LYS:HA	1:B:355:ILE:HG21	1.36	1.04
1:F:142:VAL:HG11	1:F:378:ILE:HD13	1.39	1.04
1:H:134:LEU:HD22	1:H:392:LYS:CD	1.87	1.04
1:K:391:MET:HE1	1:K:438:ARG:CB	1.88	1.04
1:L:276:LEU:HD12	1:L:281:ILE:HG21	1.06	1.04
1:A:34:THR:HA	1:H:14:ARG:HH12	1.18	1.04
1:C:235:LEU:HG	1:C:310:LEU:HD22	1.08	1.04
1:D:400:ILE:HD11	1:D:408:VAL:HG21	1.31	1.04
1:E:174:ILE:HG22	1:E:362:VAL:CG2	1.87	1.04
1:I:42:LYS:HE2	1:I:426:ALA:CB	1.87	1.04
1:I:100:ALA:CB	1:I:484:THR:HG21	1.86	1.04
1:J:42:LYS:HD2	1:J:425:ASN:C	1.80	1.04
1:J:391:MET:HE1	1:J:438:ARG:HB3	1.36	1.04
1:M:192:LEU:HD23	1:M:342:ALA:HB2	1.05	1.04
1:M:235:LEU:HD21	1:M:310:LEU:CB	1.87	1.04
1:N:345:MET:HE1	1:N:362:VAL:HG21	1.07	1.04
1:B:276:LEU:HB3	1:B:281:ILE:CG2	1.88	1.04
1:H:192:LEU:HD13	1:H:342:ALA:CB	1.85	1.04
1:H:206:THR:HG22	1:H:348:ARG:H	0.91	1.04
1:M:235:LEU:HD12	1:M:262:LEU:HD11	1.38	1.04
1:P:234:LEU:HB3	1:P:292:MET:CE	1.87	1.04
1:A:62:VAL:HG13	1:A:63:THR:H	1.19	1.04
1:D:197:LYS:HA	1:D:355:ILE:CG2	1.87	1.04
1:E:223:MET:HE1	1:E:283:ALA:HB3	1.39	1.04
1:G:48:LEU:HB2	1:G:56:VAL:HG22	1.32	1.04
1:J:235:LEU:HD21	1:J:310:LEU:CB	1.86	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:100:ALA:HB1	1:K:484:THR:CG2	1.88	1.04
1:O:42:LYS:HE3	1:P:118:THR:HG21	1.39	1.04
1:P:192:LEU:HG	1:P:342:ALA:HB2	1.37	1.04
1:C:34:THR:CG2	1:C:35:VAL:HG13	1.86	1.03
1:C:123:GLY:HA3	1:C:407:ALA:CB	1.88	1.03
1:C:130:LYS:HD2	1:C:396:TYR:CD1	1.93	1.03
1:C:192:LEU:HB3	1:C:342:ALA:CB	1.88	1.03
1:H:206:THR:HG22	1:H:348:ARG:N	1.71	1.03
1:J:34:THR:CG2	1:J:35:VAL:HG12	1.88	1.03
1:J:197:LYS:HB3	1:J:355:ILE:CG2	1.87	1.03
1:L:197:LYS:HA	1:L:355:ILE:HG21	1.38	1.03
1:N:153:ILE:HD11	1:N:378:ILE:HG22	1.07	1.03
1:N:403:ARG:HG3	1:N:403:ARG:NH1	1.01	1.03
1:O:100:ALA:CB	1:O:484:THR:HG21	1.89	1.03
1:P:77:MET:HE2	1:P:487:LEU:HD11	1.39	1.03
1:P:85:GLN:HE22	1:P:475:GLN:HB3	1.17	1.03
1:C:262:LEU:HD11	1:C:310:LEU:HD21	1.04	1.03
1:D:469:PRO:HD2	1:D:472:VAL:HG21	1.39	1.03
1:I:119:ILE:CG2	1:I:403:ARG:HB3	1.87	1.03
1:J:193:ILE:HD12	1:J:366:VAL:HG11	1.39	1.03
1:N:178:VAL:CG2	1:N:366:VAL:HG22	1.89	1.03
1:N:276:LEU:HD23	1:N:281:ILE:CD1	1.88	1.03
1:A:197:LYS:H	1:A:197:LYS:CD	1.66	1.03
1:B:119:ILE:HG21	1:B:403:ARG:HB2	1.38	1.03
1:L:48:LEU:HB2	1:L:56:VAL:HG21	1.38	1.03
1:L:105:ARG:HD3	1:L:106:LYS:HG2	1.03	1.03
1:L:115:VAL:HG21	1:L:403:ARG:HD3	1.34	1.03
1:N:30:ILE:HG22	1:N:31:ILE:H	1.21	1.03
1:D:368:VAL:HB	1:D:469:PRO:CG	1.89	1.03
1:F:233:ALA:CA	1:F:315:LEU:HD13	1.87	1.03
1:H:345:MET:HE1	1:H:362:VAL:HG11	1.39	1.03
1:I:166:ALA:HB2	1:I:203:ILE:HB	1.08	1.03
1:I:345:MET:HE1	1:I:362:VAL:HG11	1.06	1.03
1:J:177:ALA:HB1	1:J:343:VAL:HG21	1.39	1.03
1:N:276:LEU:HD22	1:N:281:ILE:HG21	1.39	1.03
1:N:345:MET:HE1	1:N:362:VAL:CG2	1.88	1.03
1:P:368:VAL:CB	1:P:469:PRO:HG2	1.88	1.03
1:C:262:LEU:CD1	1:C:310:LEU:HD21	1.88	1.03
1:E:469:PRO:CG	1:E:472:VAL:HG11	1.88	1.03
1:J:106:LYS:HA	1:J:106:LYS:CE	1.89	1.03
1:J:235:LEU:HG	1:J:310:LEU:HD13	1.36	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:100:ALA:HB1	1:L:484:THR:HG21	1.07	1.03
1:L:119:ILE:HG21	1:L:403:ARG:HB2	1.41	1.03
1:O:150:LEU:HD23	1:O:175:VAL:CG1	1.88	1.03
1:P:276:LEU:CD2	1:P:281:ILE:HG21	1.89	1.03
1:C:197:LYS:HB3	1:C:355:ILE:CG2	1.88	1.02
1:E:42:LYS:CE	1:E:426:ALA:HB2	1.89	1.02
1:F:42:LYS:HB3	1:F:425:ASN:HB3	1.39	1.02
1:G:192:LEU:HG	1:G:342:ALA:HB2	1.36	1.02
1:G:234:LEU:CD1	1:G:296:ALA:HB2	1.89	1.02
1:G:406:LEU:HD11	1:P:431:ILE:HD11	1.39	1.02
1:J:119:ILE:CG2	1:J:403:ARG:HB2	1.87	1.02
1:J:197:LYS:HA	1:J:347:ILE:HG22	1.38	1.02
1:L:235:LEU:HB2	1:L:310:LEU:HD22	1.42	1.02
1:L:486:MET:CE	1:L:487:LEU:HD23	1.89	1.02
1:O:469:PRO:HD2	1:O:472:VAL:CG1	1.88	1.02
1:P:100:ALA:CB	1:P:484:THR:HG21	1.89	1.02
1:F:299:THR:HG23	1:F:334:VAL:CG1	1.88	1.02
1:F:405:GLN:HB3	1:F:406:LEU:HD12	1.40	1.02
1:G:42:LYS:CG	1:G:425:ASN:HB2	1.88	1.02
1:G:158:ILE:CG1	1:G:361:ALA:HB1	1.89	1.02
1:H:35:VAL:HA	1:H:46:LYS:NZ	1.75	1.02
1:A:30:ILE:CG2	1:A:31:ILE:HG12	1.88	1.02
1:A:42:LYS:HE2	1:A:426:ALA:HA	1.04	1.02
1:B:100:ALA:HB1	1:B:484:THR:CG2	1.89	1.02
1:I:119:ILE:HG21	1:I:403:ARG:HB3	1.40	1.02
1:I:377:ARG:HD2	1:I:470:LEU:HD11	1.38	1.02
1:N:42:LYS:HE3	1:N:426:ALA:HA	1.40	1.02
1:E:469:PRO:HG2	1:E:472:VAL:CG1	1.88	1.02
1:J:82:ALA:HB1	1:J:93:THR:CG2	1.90	1.02
1:L:391:MET:HE1	1:L:438:ARG:CA	1.89	1.02
1:O:42:LYS:HB3	1:O:425:ASN:CB	1.89	1.02
1:A:77:MET:CE	1:A:486:MET:HE2	1.89	1.02
1:A:197:LYS:HD2	1:A:197:LYS:N	1.63	1.02
1:L:42:LYS:HE3	1:L:426:ALA:HB2	1.40	1.02
1:O:31:ILE:HD13	1:O:31:ILE:H	1.20	1.02
1:B:122:LYS:HG2	1:B:125:GLN:HE22	1.22	1.01
1:B:262:LEU:HD11	1:B:310:LEU:HD13	1.42	1.01
1:C:130:LYS:CE	1:C:134:LEU:HD11	1.88	1.01
1:D:223:MET:HE1	1:D:283:ALA:HB3	1.42	1.01
1:E:233:ALA:HA	1:E:315:LEU:CG	1.89	1.01
1:K:130:LYS:HZ2	1:K:393:LEU:HD23	1.23	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:103:LEU:HD21	1:D:411:PHE:CD2	1.96	1.01
1:F:152:LYS:HD3	1:F:465:GLY:HA2	1.42	1.01
1:H:130:LYS:HG2	1:H:393:LEU:HD11	1.39	1.01
1:I:197:LYS:CA	1:I:355:ILE:HG21	1.90	1.01
1:K:42:LYS:HB3	1:K:425:ASN:CB	1.89	1.01
1:K:431:ILE:O	1:K:431:ILE:HD12	1.59	1.01
1:A:34:THR:HG22	1:A:35:VAL:CG1	1.90	1.01
1:C:96:ALA:CB	1:C:480:ALA:HB2	1.90	1.01
1:C:431:ILE:HD12	1:L:406:LEU:CD2	1.91	1.01
1:G:48:LEU:HB2	1:G:56:VAL:CG2	1.90	1.01
1:G:89:VAL:O	1:G:89:VAL:HG22	1.57	1.01
1:J:235:LEU:HD21	1:J:310:LEU:HB2	1.40	1.01
1:J:255:LYS:O	1:J:255:LYS:HG3	1.59	1.01
1:L:206:THR:HG22	1:L:348:ARG:H	1.19	1.01
1:M:178:VAL:CG1	1:M:366:VAL:HG22	1.88	1.01
1:M:420:ARG:HH11	1:M:420:ARG:HB3	1.25	1.01
1:A:42:LYS:HE2	1:A:426:ALA:CA	1.90	1.01
1:A:89:VAL:HG22	1:A:89:VAL:O	1.58	1.01
1:E:235:LEU:CG	1:E:310:LEU:HD13	1.91	1.01
1:F:233:ALA:HB1	1:F:310:LEU:CD1	1.90	1.01
1:G:42:LYS:CB	1:G:425:ASN:HB2	1.90	1.01
1:H:233:ALA:HB1	1:H:310:LEU:CD2	1.89	1.01
1:I:14:ARG:HH22	1:P:34:THR:HA	1.22	1.01
1:M:42:LYS:HB3	1:M:425:ASN:CB	1.89	1.01
1:M:268:ILE:HB	1:M:273:GLN:HE21	1.21	1.01
1:O:77:MET:HE1	1:O:486:MET:HE1	1.41	1.01
1:O:299:THR:HG23	1:O:334:VAL:CG1	1.91	1.01
1:A:154:ALA:HB1	1:A:174:ILE:CD1	1.90	1.01
1:C:152:LYS:CD	1:C:465:GLY:HA2	1.91	1.01
1:D:103:LEU:HD21	1:D:411:PHE:CE2	1.95	1.01
1:H:233:ALA:HB1	1:H:310:LEU:HD21	1.42	1.01
1:K:42:LYS:CE	1:K:426:ALA:HA	1.90	1.01
1:P:296:ALA:HA	1:P:301:ALA:HB3	1.41	1.01
1:B:206:THR:HB	1:B:347:ILE:HG23	1.41	1.00
1:F:192:LEU:HG	1:F:342:ALA:HB2	1.42	1.00
1:F:420:ARG:NH2	1:F:430:ALA:HB3	1.74	1.00
1:K:276:LEU:CD1	1:K:281:ILE:HG21	1.90	1.00
1:N:206:THR:HG22	1:N:348:ARG:H	1.25	1.00
1:O:235:LEU:CD1	1:O:262:LEU:HD21	1.91	1.00
1:P:134:LEU:HD12	1:P:393:LEU:HD11	1.39	1.00
1:C:219:VAL:CG2	1:C:285:ARG:HB2	1.91	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:403:ARG:H	1:L:431:ILE:HD11	1.26	1.00
1:H:42:LYS:HE2	1:H:426:ALA:CB	1.91	1.00
1:L:100:ALA:HB1	1:L:484:THR:CG2	1.91	1.00
1:N:14:ARG:HD2	1:N:494:ILE:HD13	1.41	1.00
1:P:193:ILE:HD12	1:P:366:VAL:HG11	1.43	1.00
1:B:39:LEU:HD13	1:B:40:GLY:H	1.22	1.00
1:C:96:ALA:HB1	1:C:480:ALA:HB2	1.40	1.00
1:D:233:ALA:CB	1:D:315:LEU:HD11	1.91	1.00
1:E:123:GLY:HA3	1:E:407:ALA:CB	1.91	1.00
1:F:377:ARG:HH21	1:F:377:ARG:HG3	1.25	1.00
1:G:299:THR:HG23	1:G:334:VAL:HG11	1.40	1.00
1:L:119:ILE:HG13	1:L:403:ARG:HD2	1.39	1.00
1:O:130:LYS:HZ2	1:O:393:LEU:HD23	1.26	1.00
1:O:254:ILE:HD12	1:O:276:LEU:HD11	1.42	1.00
1:C:77:MET:CE	1:C:486:MET:HE2	1.91	1.00
1:E:206:THR:HG22	1:E:348:ARG:H	1.24	1.00
1:G:235:LEU:CD2	1:G:310:LEU:HB2	1.91	1.00
1:H:219:VAL:HG21	1:H:268:ILE:CD1	1.92	1.00
1:I:154:ALA:CB	1:I:174:ILE:HD11	1.91	1.00
1:M:234:LEU:HB3	1:M:292:MET:CE	1.91	1.00
1:O:235:LEU:HD11	1:O:262:LEU:HD21	1.41	1.00
1:B:96:ALA:HB3	1:B:97:VAL:HG23	1.39	1.00
1:B:174:ILE:HG22	1:B:362:VAL:HG13	1.02	1.00
1:K:403:ARG:HH11	1:K:403:ARG:HG3	0.86	1.00
1:C:150:LEU:HB3	1:C:175:VAL:HG11	1.44	1.00
1:D:384:SER:CB	1:D:441:HIS:HE1	1.75	1.00
1:O:124:TYR:CD1	1:O:407:ALA:HB1	1.97	1.00
1:P:391:MET:HE3	1:P:438:ARG:CD	1.92	1.00
1:D:422:LEU:HD13	1:D:422:LEU:H	1.26	1.00
1:F:233:ALA:HA	1:F:315:LEU:CD1	1.92	1.00
1:G:42:LYS:HB2	1:G:425:ASN:HB2	1.44	1.00
1:J:178:VAL:HG22	1:J:366:VAL:HG13	1.44	1.00
1:J:234:LEU:HB3	1:J:292:MET:HE1	1.44	1.00
1:J:420:ARG:HG2	1:J:420:ARG:NH1	1.73	1.00
1:K:178:VAL:HG11	1:K:366:VAL:HG13	1.43	1.00
1:K:233:ALA:HA	1:K:315:LEU:HD11	1.37	1.00
1:L:154:ALA:HB1	1:L:174:ILE:HD11	1.43	1.00
1:M:34:THR:CG2	1:M:35:VAL:HG22	1.90	1.00
1:M:38:THR:HG23	1:M:46:LYS:HE2	1.44	1.00
1:M:100:ALA:CB	1:M:484:THR:HG21	1.91	1.00
1:G:193:ILE:HD12	1:G:366:VAL:HG21	1.42	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:233:ALA:HA	1:I:315:LEU:CD2	1.91	0.99
1:A:233:ALA:HA	1:A:315:LEU:HG	1.43	0.99
1:C:197:LYS:HA	1:C:355:ILE:HG21	1.38	0.99
1:D:403:ARG:HH11	1:D:403:ARG:HG2	1.24	0.99
1:E:469:PRO:HG2	1:E:472:VAL:HG11	1.00	0.99
1:C:77:MET:HE2	1:C:486:MET:CE	1.92	0.99
1:C:174:ILE:HG22	1:C:362:VAL:HG23	1.44	0.99
1:E:420:ARG:HG2	1:E:420:ARG:HH11	1.24	0.99
1:I:154:ALA:HB1	1:I:174:ILE:CD1	1.92	0.99
1:I:178:VAL:CG2	1:I:366:VAL:HG22	1.93	0.99
1:I:234:LEU:CB	1:I:292:MET:HE1	1.91	0.99
1:K:14:ARG:HD2	1:K:494:ILE:CG1	1.93	0.99
1:M:276:LEU:CD1	1:M:281:ILE:HD12	1.90	0.99
1:F:170:LEU:HD21	1:F:358:VAL:HG22	1.43	0.99
1:H:130:LYS:HG2	1:H:393:LEU:CD1	1.91	0.99
1:K:192:LEU:CB	1:K:342:ALA:HB2	1.92	0.99
1:N:139:ALA:HB2	1:N:377:ARG:HD3	1.41	0.99
1:O:100:ALA:HB1	1:O:484:THR:CG2	1.92	0.99
1:E:34:THR:HG22	1:E:35:VAL:HG12	1.44	0.99
1:L:89:VAL:CG2	1:L:89:VAL:O	2.10	0.99
1:M:192:LEU:HD23	1:M:342:ALA:CB	1.90	0.99
1:O:251:VAL:HG13	1:O:276:LEU:HD13	1.40	0.99
1:B:195:ILE:HB	1:B:359:ALA:HB1	1.41	0.99
1:B:435:VAL:HG11	1:K:401:SER:CB	1.92	0.99
1:E:174:ILE:HG22	1:E:362:VAL:HG23	1.00	0.99
1:E:235:LEU:HD13	1:E:310:LEU:HD13	1.42	0.99
1:L:197:LYS:CA	1:L:355:ILE:HG21	1.91	0.99
1:N:138:ILE:HD12	1:N:385:THR:HB	1.44	0.99
1:D:78:LEU:HD12	1:D:487:LEU:HD11	1.38	0.99
1:E:177:ALA:HB1	1:E:193:ILE:CD1	1.92	0.99
1:G:379:VAL:HB	1:G:470:LEU:HD21	1.41	0.99
1:J:42:LYS:CG	1:J:425:ASN:HB3	1.93	0.99
1:N:85:GLN:HE22	1:N:475:GLN:HG3	1.27	0.99
1:P:197:LYS:CA	1:P:355:ILE:HG21	1.93	0.99
1:B:89:VAL:O	1:B:89:VAL:HG22	1.62	0.99
1:G:276:LEU:HD12	1:G:281:ILE:HG21	1.02	0.99
1:H:39:LEU:HG	1:H:40:GLY:H	1.27	0.99
1:F:136:LYS:HA	1:F:377:ARG:NH1	1.78	0.99
1:G:30:ILE:HG23	1:G:31:ILE:HD13	1.44	0.99
1:I:494:ILE:HD12	1:P:48:LEU:HD12	1.40	0.99
1:O:119:ILE:HG13	1:O:403:ARG:HD2	1.45	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:34:THR:HG22	1:G:35:VAL:HG13	1.45	0.98
1:G:281:ILE:O	1:G:281:ILE:HG22	1.57	0.98
1:I:56:VAL:HG23	1:I:56:VAL:O	1.62	0.98
1:J:106:LYS:HA	1:J:106:LYS:HE3	1.43	0.98
1:P:347:ILE:HG21	1:P:358:VAL:HG12	1.45	0.98
1:B:62:VAL:HG13	1:B:63:THR:H	1.24	0.98
1:E:235:LEU:CD1	1:E:310:LEU:HD13	1.93	0.98
1:F:381:GLY:CA	1:F:461:MET:HG2	1.93	0.98
1:G:459:GLU:HB2	1:G:461:MET:CE	1.92	0.98
1:J:368:VAL:HG11	1:J:469:PRO:HG2	1.44	0.98
1:K:403:ARG:HG3	1:K:403:ARG:NH1	1.46	0.98
1:O:154:ALA:HB1	1:O:174:ILE:HD11	0.99	0.98
1:C:118:THR:O	1:C:118:THR:CG2	2.10	0.98
1:C:406:LEU:HD21	1:L:431:ILE:CD1	1.93	0.98
1:E:35:VAL:CG2	1:E:94:THR:HG23	1.94	0.98
1:L:34:THR:HA	1:M:14:ARG:HH22	1.23	0.98
1:L:276:LEU:CD1	1:L:281:ILE:HG21	1.94	0.98
1:M:178:VAL:HG12	1:M:366:VAL:HG22	1.42	0.98
1:N:166:ALA:HB2	1:N:203:ILE:HG12	1.41	0.98
1:O:377:ARG:HB3	1:O:470:LEU:HD12	1.41	0.98
1:K:122:LYS:HA	1:K:125:GLN:CD	1.88	0.98
1:M:233:ALA:HA	1:M:315:LEU:HD22	1.44	0.98
1:N:233:ALA:HA	1:N:315:LEU:CD2	1.92	0.98
1:N:384:SER:CB	1:N:441:HIS:HE1	1.76	0.98
1:F:368:VAL:CB	1:F:469:PRO:HG2	1.93	0.98
1:K:473:LYS:HB2	1:K:473:LYS:NZ	1.77	0.98
1:N:81:VAL:HG11	1:N:483:SER:CB	1.92	0.98
1:D:120:VAL:HG21	1:D:488:LEU:HD11	1.46	0.98
1:D:403:ARG:HD2	1:M:431:ILE:CD1	1.93	0.98
1:E:96:ALA:HB1	1:E:480:ALA:HB2	1.40	0.98
1:F:42:LYS:HB3	1:F:425:ASN:CB	1.94	0.98
1:G:197:LYS:HA	1:G:355:ILE:HG21	1.45	0.98
1:L:77:MET:HE2	1:L:486:MET:HE1	1.45	0.98
1:N:130:LYS:HG3	1:N:130:LYS:O	1.63	0.98
1:O:100:ALA:HB1	1:O:484:THR:HG21	0.98	0.98
1:O:170:LEU:HD22	1:O:358:VAL:CG1	1.92	0.98
1:P:77:MET:HE2	1:P:487:LEU:CD1	1.94	0.98
1:P:134:LEU:HD22	1:P:392:LYS:CE	1.94	0.98
1:B:174:ILE:CG2	1:B:362:VAL:HG13	1.93	0.98
1:J:130:LYS:HZ3	1:J:393:LEU:CD2	1.76	0.98
1:P:100:ALA:HB1	1:P:484:THR:HG21	0.98	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:459:GLU:HG2	1:F:461:MET:HE1	1.44	0.97
1:G:276:LEU:HD12	1:G:281:ILE:CG2	1.94	0.97
1:H:233:ALA:CA	1:H:315:LEU:HG	1.94	0.97
1:E:106:LYS:HE2	1:E:106:LYS:HA	1.46	0.97
1:E:124:TYR:CE1	1:E:407:ALA:HB1	1.99	0.97
1:G:197:LYS:CA	1:G:355:ILE:HG21	1.92	0.97
1:O:130:LYS:NZ	1:O:393:LEU:HD23	1.79	0.97
1:O:219:VAL:HG21	1:O:268:ILE:HD12	0.98	0.97
1:D:119:ILE:HD12	1:D:403:ARG:HG2	1.43	0.97
1:D:418:ILE:HB	1:D:419:PRO:HD3	1.46	0.97
1:F:469:PRO:HD2	1:F:472:VAL:HG21	1.44	0.97
1:G:154:ALA:HB1	1:G:174:ILE:HD11	1.44	0.97
1:L:233:ALA:HA	1:L:315:LEU:CD2	1.94	0.97
1:M:208:LEU:HD11	1:M:343:VAL:HG21	1.45	0.97
1:N:135:LEU:HD23	1:N:138:ILE:HD11	1.45	0.97
1:P:103:LEU:HD21	1:P:411:PHE:CE2	1.99	0.97
1:A:34:THR:HG22	1:A:35:VAL:HG13	0.98	0.97
1:G:170:LEU:CD2	1:G:358:VAL:HG13	1.94	0.97
1:N:174:ILE:HD12	1:N:365:ALA:HB1	1.46	0.97
1:A:233:ALA:HB1	1:A:310:LEU:HD11	1.43	0.97
1:D:166:ALA:HB2	1:D:203:ILE:CG2	1.95	0.97
1:E:42:LYS:CG	1:E:425:ASN:HB2	1.92	0.97
1:K:276:LEU:HD12	1:K:281:ILE:HG21	0.99	0.97
1:L:25:ILE:CD1	1:L:108:GLU:HG3	1.95	0.97
1:M:192:LEU:HB2	1:M:342:ALA:CB	1.94	0.97
1:N:34:THR:HG23	1:O:14:ARG:NH2	1.78	0.97
1:P:197:LYS:HA	1:P:355:ILE:HG21	1.45	0.97
1:P:403:ARG:HH11	1:P:403:ARG:HG3	1.26	0.97
1:B:235:LEU:HG	1:B:310:LEU:CD1	1.94	0.97
1:I:477:ILE:HG22	1:I:477:ILE:O	1.64	0.97
1:K:119:ILE:CG2	1:K:403:ARG:HB2	1.93	0.97
1:B:233:ALA:HB1	1:B:310:LEU:HD22	1.46	0.97
1:L:377:ARG:HB3	1:L:470:LEU:HD23	1.00	0.97
1:M:276:LEU:HD12	1:M:281:ILE:HD12	1.47	0.97
1:A:170:LEU:HD11	1:A:358:VAL:CG2	1.95	0.97
1:B:251:VAL:CG1	1:B:276:LEU:HG	1.95	0.97
1:D:14:ARG:HH22	1:E:34:THR:CA	1.76	0.97
1:J:420:ARG:HH11	1:J:420:ARG:CG	1.70	0.97
1:K:420:ARG:HG2	1:K:420:ARG:HH11	1.29	0.97
1:C:380:SER:HB3	1:C:384:SER:HB2	1.45	0.97
1:F:136:LYS:HA	1:F:377:ARG:HH11	1.24	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:345:MET:CE	1:J:362:VAL:HG11	1.95	0.97
1:J:420:ARG:NH1	1:J:420:ARG:CG	2.20	0.97
1:L:486:MET:HE2	1:L:487:LEU:CD2	1.95	0.97
1:A:88:GLU:CD	1:A:475:GLN:HG2	1.89	0.97
1:A:178:VAL:CG2	1:A:366:VAL:HG22	1.95	0.97
1:A:233:ALA:HA	1:A:315:LEU:CG	1.94	0.97
1:B:105:ARG:HH11	1:B:105:ARG:CG	1.78	0.97
1:B:235:LEU:HG	1:B:310:LEU:HD11	1.45	0.97
1:E:431:ILE:HD12	1:N:406:LEU:CD1	1.94	0.97
1:F:30:ILE:HG22	1:F:31:ILE:HD13	1.46	0.97
1:G:232:ILE:CG1	1:G:299:THR:HG21	1.95	0.97
1:N:158:ILE:HG12	1:N:361:ALA:HB1	1.43	0.97
1:D:384:SER:HB3	1:D:441:HIS:CE1	2.00	0.96
1:O:291:ASP:O	1:O:295:LEU:HD12	1.65	0.96
1:O:299:THR:HG22	1:O:318:ALA:HB2	1.47	0.96
1:B:488:LEU:CD2	1:B:488:LEU:C	2.21	0.96
1:F:347:ILE:HG21	1:F:358:VAL:HG12	1.43	0.96
1:I:206:THR:HG22	1:I:348:ARG:H	1.27	0.96
1:L:130:LYS:NZ	1:L:134:LEU:HD11	1.79	0.96
1:A:233:ALA:HB1	1:A:310:LEU:CD1	1.94	0.96
1:E:223:MET:CE	1:E:283:ALA:HB3	1.94	0.96
1:F:103:LEU:HD21	1:F:411:PHE:CE2	2.00	0.96
1:L:89:VAL:O	1:L:89:VAL:HG22	1.63	0.96
1:P:276:LEU:HD23	1:P:281:ILE:CD1	1.94	0.96
1:A:89:VAL:HG21	1:A:368:VAL:HG13	1.46	0.96
1:F:158:ILE:HG13	1:F:361:ALA:HB1	1.45	0.96
1:I:14:ARG:HD2	1:I:494:ILE:CG1	1.94	0.96
1:I:152:LYS:HE3	1:I:462:CYS:HA	1.48	0.96
1:M:473:LYS:HZ1	1:M:473:LYS:HB2	1.23	0.96
1:N:218:ARG:HG2	1:N:218:ARG:HH11	1.23	0.96
1:G:14:ARG:NH1	1:H:34:THR:HG23	1.79	0.96
1:I:154:ALA:HB1	1:I:174:ILE:HD11	0.99	0.96
1:I:235:LEU:HD21	1:I:310:LEU:HB2	0.97	0.96
1:J:254:ILE:HD13	1:J:262:LEU:HD13	1.47	0.96
1:M:223:MET:HE1	1:M:283:ALA:CB	1.95	0.96
1:P:233:ALA:HB1	1:P:310:LEU:CD1	1.95	0.96
1:A:428:LEU:N	1:A:428:LEU:CD1	2.28	0.96
1:D:254:ILE:HG12	1:D:310:LEU:CD1	1.96	0.96
1:H:276:LEU:HD22	1:H:281:ILE:HG21	1.46	0.96
1:K:130:LYS:NZ	1:K:134:LEU:HD11	1.80	0.96
1:K:134:LEU:HB3	1:K:392:LYS:NZ	1.80	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:391:MET:HE1	1:M:438:ARG:CA	1.95	0.96
1:H:45:ASP:OD2	1:H:45:ASP:N	1.97	0.96
1:I:368:VAL:HG21	1:I:469:PRO:HG3	1.46	0.96
1:J:48:LEU:HB2	1:J:56:VAL:CG1	1.93	0.96
1:J:130:LYS:HG3	1:J:393:LEU:HD21	1.47	0.96
1:N:124:TYR:HE1	1:N:407:ALA:CA	1.79	0.96
1:C:174:ILE:HG22	1:C:362:VAL:CG2	1.96	0.96
1:E:101:GLY:HA2	1:E:104:LEU:HD12	1.48	0.96
1:E:473:LYS:HB2	1:E:473:LYS:NZ	1.80	0.96
1:K:78:LEU:HD12	1:K:487:LEU:CD2	1.95	0.96
1:K:384:SER:HB2	1:K:441:HIS:HE1	1.21	0.96
1:O:124:TYR:HE1	1:O:407:ALA:HA	1.30	0.96
1:P:119:ILE:CG2	1:P:403:ARG:HB2	1.96	0.96
1:B:262:LEU:HD11	1:B:310:LEU:HD11	1.47	0.96
1:C:403:ARG:C	1:C:406:LEU:HD22	1.91	0.96
1:E:150:LEU:HD23	1:E:175:VAL:CG1	1.96	0.96
1:H:255:LYS:O	1:H:255:LYS:CG	2.10	0.96
1:I:197:LYS:HA	1:I:355:ILE:HG21	1.48	0.96
1:M:391:MET:HE1	1:M:438:ARG:CB	1.94	0.96
1:N:192:LEU:HB3	1:N:342:ALA:HA	1.48	0.96
1:A:233:ALA:HA	1:A:315:LEU:CD1	1.95	0.96
1:C:35:VAL:HG11	1:C:64:ILE:HG21	1.46	0.96
1:G:376:GLY:HA3	1:G:377:ARG:CB	1.91	0.96
1:H:235:LEU:HB2	1:H:310:LEU:HG	1.45	0.96
1:J:233:ALA:HA	1:J:315:LEU:HD22	1.48	0.96
1:J:262:LEU:HD12	1:J:310:LEU:HD21	1.44	0.96
1:N:218:ARG:NH2	1:N:282:VAL:HG21	1.81	0.96
1:L:119:ILE:HG21	1:L:403:ARG:CD	1.96	0.95
1:D:119:ILE:HG21	1:D:403:ARG:HB2	1.47	0.95
1:D:262:LEU:CD1	1:D:310:LEU:HD11	1.94	0.95
1:E:379:VAL:HG12	1:E:470:LEU:HD23	1.48	0.95
1:L:218:ARG:HG3	1:L:323:GLU:HG3	1.48	0.95
1:M:17:GLY:O	1:M:21:GLN:HG3	1.66	0.95
1:P:105:ARG:NH1	1:P:106:LYS:HD2	1.81	0.95
1:B:116:HIS:ND1	1:B:117:PRO:HD2	1.81	0.95
1:B:178:VAL:CG2	1:B:366:VAL:HG22	1.96	0.95
1:J:135:LEU:HD22	1:J:389:LEU:HD21	1.46	0.95
1:L:31:ILE:HG21	1:L:65:LEU:HD11	1.47	0.95
1:N:212:VAL:HG21	1:N:294:LYS:C	1.91	0.95
1:B:153:ILE:HD11	1:B:378:ILE:HG22	1.46	0.95
1:E:174:ILE:CG2	1:E:362:VAL:HG23	1.95	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:406:LEU:HD11	1:N:431:ILE:HD11	1.48	0.95
1:I:276:LEU:HB3	1:I:281:ILE:HB	1.48	0.95
1:K:233:ALA:HA	1:K:315:LEU:CG	1.96	0.95
1:A:155:MET:HB2	1:A:167:LYS:HG3	1.46	0.95
1:D:383:GLY:HA2	1:D:386:GLU:HG2	1.46	0.95
1:M:130:LYS:HE2	1:M:393:LEU:HD21	1.48	0.95
1:O:119:ILE:CG1	1:O:403:ARG:HD2	1.96	0.95
1:O:166:ALA:HB2	1:O:203:ILE:HB	1.46	0.95
1:P:233:ALA:HA	1:P:315:LEU:CD2	1.95	0.95
1:D:150:LEU:HD23	1:D:175:VAL:HG13	1.48	0.95
1:G:234:LEU:H	1:G:315:LEU:HD11	1.29	0.95
1:J:34:THR:HG22	1:J:35:VAL:CG1	1.96	0.95
1:L:383:GLY:HA2	1:L:386:GLU:CG	1.96	0.95
1:G:170:LEU:HD21	1:G:358:VAL:HG13	1.46	0.95
1:G:389:LEU:HD23	1:G:415:LEU:HD13	1.45	0.95
1:I:223:MET:HE1	1:I:283:ALA:HB3	1.44	0.95
1:P:420:ARG:HG2	1:P:420:ARG:NH1	1.71	0.95
1:D:89:VAL:O	1:D:89:VAL:CG2	2.09	0.95
1:F:223:MET:HE1	1:F:283:ALA:HB3	1.49	0.95
1:F:381:GLY:HA3	1:F:461:MET:CG	1.96	0.95
1:G:103:LEU:HD21	1:G:411:PHE:CE2	2.01	0.95
1:G:106:LYS:CA	1:G:106:LYS:HE3	1.94	0.95
1:G:233:ALA:HA	1:G:315:LEU:HG	1.48	0.95
1:I:30:ILE:HG22	1:I:31:ILE:HD13	1.45	0.95
1:J:106:LYS:CE	1:J:106:LYS:CA	2.44	0.95
1:J:130:LYS:NZ	1:J:393:LEU:HD23	1.80	0.95
1:J:154:ALA:HB1	1:J:174:ILE:CD1	1.97	0.95
1:M:123:GLY:HA3	1:M:407:ALA:HB3	1.44	0.95
1:N:34:THR:HA	1:O:14:ARG:HH22	1.28	0.95
1:I:345:MET:CE	1:I:362:VAL:HG11	1.97	0.95
1:L:119:ILE:CG2	1:L:403:ARG:HB2	1.97	0.95
1:M:130:LYS:HE2	1:M:134:LEU:HD11	0.95	0.95
1:O:42:LYS:CB	1:O:425:ASN:HB2	1.97	0.95
1:P:195:ILE:HB	1:P:359:ALA:HB1	1.48	0.95
1:D:130:LYS:HD3	1:D:393:LEU:HD22	1.48	0.95
1:E:431:ILE:HD11	1:N:403:ARG:HG2	1.49	0.95
1:H:134:LEU:CD2	1:H:392:LYS:HD2	1.96	0.95
1:I:34:THR:HG22	1:I:35:VAL:CG1	1.97	0.95
1:J:403:ARG:HH11	1:J:403:ARG:CG	1.73	0.95
1:P:154:ALA:CB	1:P:174:ILE:HD11	1.97	0.95
1:P:345:MET:HE1	1:P:362:VAL:HG11	1.49	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:378:ILE:HG13	1:P:378:ILE:O	1.65	0.95
1:C:235:LEU:HG	1:C:310:LEU:CD2	1.94	0.94
1:G:178:VAL:CG2	1:G:366:VAL:HG22	1.97	0.94
1:J:42:LYS:HG3	1:J:425:ASN:HB3	1.45	0.94
1:K:96:ALA:HB1	1:K:480:ALA:HB2	1.49	0.94
1:B:235:LEU:HB2	1:B:310:LEU:HD21	1.49	0.94
1:D:174:ILE:HG22	1:D:362:VAL:CG2	1.97	0.94
1:I:42:LYS:HB3	1:I:425:ASN:CB	1.97	0.94
1:I:208:LEU:HD22	1:I:343:VAL:HG21	1.48	0.94
1:J:233:ALA:HB1	1:J:310:LEU:CD1	1.97	0.94
1:L:310:LEU:HD12	1:L:315:LEU:HD11	1.49	0.94
1:E:197:LYS:HB2	1:E:355:ILE:CG2	1.96	0.94
1:G:368:VAL:CG2	1:G:469:PRO:HG2	1.97	0.94
1:I:391:MET:HE3	1:I:438:ARG:HG2	1.48	0.94
1:M:158:ILE:HG21	1:M:170:LEU:HD12	1.44	0.94
1:K:134:LEU:HD22	1:K:392:LYS:CD	1.96	0.94
1:M:154:ALA:HB1	1:M:174:ILE:HD11	1.46	0.94
1:P:124:TYR:HE1	1:P:407:ALA:CA	1.81	0.94
1:P:391:MET:CE	1:P:438:ARG:HB3	1.96	0.94
1:C:403:ARG:CA	1:C:406:LEU:HD22	1.98	0.94
1:C:441:HIS:ND1	1:C:449:ALA:HB3	1.81	0.94
1:E:377:ARG:HB3	1:E:470:LEU:HG	1.49	0.94
1:G:368:VAL:HB	1:G:469:PRO:CG	1.97	0.94
1:L:486:MET:HG2	1:L:487:LEU:N	1.80	0.94
1:O:39:LEU:HG	1:O:40:GLY:N	1.79	0.94
1:C:218:ARG:HG2	1:C:218:ARG:HH11	1.31	0.94
1:F:100:ALA:HB1	1:F:484:THR:CG2	1.98	0.94
1:J:166:ALA:HB2	1:J:203:ILE:CG2	1.96	0.94
1:M:42:LYS:HB3	1:M:425:ASN:HB2	1.48	0.94
1:N:30:ILE:HG22	1:N:31:ILE:HD13	1.46	0.94
1:E:42:LYS:HE3	1:E:426:ALA:HB2	0.95	0.94
1:F:262:LEU:HD11	1:F:310:LEU:CD2	1.96	0.94
1:H:403:ARG:HA	1:H:406:LEU:CD1	1.97	0.94
1:P:119:ILE:HG13	1:P:403:ARG:HG3	1.47	0.94
1:B:153:ILE:HD11	1:B:378:ILE:CG2	1.97	0.94
1:B:311:SER:O	1:B:315:LEU:HD22	1.67	0.94
1:C:197:LYS:CB	1:C:355:ILE:HG21	1.95	0.94
1:D:268:ILE:HB	1:D:273:GLN:HE21	1.31	0.94
1:E:254:ILE:HG22	1:E:281:ILE:CD1	1.97	0.94
1:G:77:MET:HE2	1:G:487:LEU:HD21	1.47	0.94
1:G:174:ILE:CG2	1:G:362:VAL:HB	1.98	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:119:ILE:HD12	1:J:403:ARG:HB2	1.48	0.94
1:L:150:LEU:HD23	1:L:175:VAL:HG13	1.49	0.94
1:L:233:ALA:HB1	1:L:310:LEU:CD1	1.97	0.94
1:L:377:ARG:HB3	1:L:470:LEU:CD2	1.95	0.94
1:M:100:ALA:HB1	1:M:484:THR:HG21	0.96	0.94
1:M:473:LYS:HB2	1:M:473:LYS:NZ	1.75	0.94
1:C:368:VAL:HG11	1:C:472:VAL:HG11	1.48	0.94
1:D:192:LEU:CG	1:D:342:ALA:HB2	1.97	0.94
1:F:119:ILE:HG21	1:F:403:ARG:HB2	1.49	0.94
1:J:42:LYS:HE2	1:J:426:ALA:HA	1.49	0.94
1:B:174:ILE:CG2	1:B:362:VAL:HG22	1.98	0.94
1:E:39:LEU:HG	1:E:40:GLY:N	1.83	0.94
1:I:155:MET:SD	1:I:167:LYS:HD2	2.08	0.94
1:J:153:ILE:CD1	1:J:378:ILE:HG22	1.97	0.94
1:M:177:ALA:HB2	1:M:208:LEU:CD1	1.98	0.94
1:C:383:GLY:HA2	1:C:386:GLU:CG	1.97	0.93
1:H:22:ARG:HA	1:H:25:ILE:HD12	1.49	0.93
1:A:174:ILE:HD12	1:A:365:ALA:HB1	1.48	0.93
1:D:99:VAL:HG11	1:D:418:ILE:HD11	1.50	0.93
1:D:364:ASP:O	1:D:368:VAL:HG22	1.67	0.93
1:F:14:ARG:HH12	1:G:34:THR:HA	1.33	0.93
1:F:387:VAL:HG21	1:F:437:VAL:HG12	1.51	0.93
1:G:34:THR:CG2	1:G:35:VAL:HG13	1.97	0.93
1:J:42:LYS:CB	1:J:425:ASN:HB3	1.97	0.93
1:J:233:ALA:CB	1:J:310:LEU:HD11	1.99	0.93
1:A:14:ARG:HG3	1:A:494:ILE:HG12	1.50	0.93
1:D:197:LYS:HA	1:D:355:ILE:HG22	1.48	0.93
1:E:234:LEU:N	1:E:315:LEU:HD22	1.83	0.93
1:J:48:LEU:HB2	1:J:56:VAL:HG12	1.49	0.93
1:K:170:LEU:HD22	1:K:358:VAL:CG1	1.97	0.93
1:A:135:LEU:HD11	1:A:385:THR:CG2	1.98	0.93
1:C:158:ILE:HD13	1:C:170:LEU:HB2	1.49	0.93
1:C:391:MET:CE	1:C:438:ARG:HG2	1.98	0.93
1:E:276:LEU:HD12	1:E:281:ILE:HD12	1.50	0.93
1:N:235:LEU:HG	1:N:310:LEU:CD2	1.98	0.93
1:O:235:LEU:HB3	1:O:310:LEU:HD21	1.50	0.93
1:P:42:LYS:HD3	1:P:426:ALA:HB2	1.49	0.93
1:E:195:ILE:O	1:E:195:ILE:CD1	2.16	0.93
1:E:368:VAL:HB	1:E:469:PRO:CB	1.99	0.93
1:F:235:LEU:CD1	1:F:310:LEU:HB2	1.99	0.93
1:G:158:ILE:HD13	1:G:170:LEU:HB3	1.49	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:262:LEU:HD11	1:G:310:LEU:CD2	1.97	0.93
1:J:234:LEU:HG	1:J:315:LEU:HD21	1.51	0.93
1:M:134:LEU:CD1	1:M:393:LEU:HD21	1.98	0.93
1:M:206:THR:HG23	1:M:347:ILE:HG23	1.49	0.93
1:M:384:SER:HB2	1:M:441:HIS:CE1	2.02	0.93
1:L:36:ARG:HG3	1:L:37:SER:H	1.33	0.93
1:M:119:ILE:HG13	1:M:403:ARG:CD	1.98	0.93
1:P:234:LEU:CB	1:P:292:MET:HE1	1.99	0.93
1:H:177:ALA:HB2	1:H:208:LEU:CD1	1.99	0.93
1:I:103:LEU:HD21	1:I:411:PHE:CE2	2.04	0.93
1:J:174:ILE:HG22	1:J:362:VAL:HG23	1.50	0.93
1:J:276:LEU:HD12	1:J:281:ILE:CD1	1.97	0.93
1:L:192:LEU:CG	1:L:342:ALA:HB2	1.99	0.93
1:A:77:MET:HE2	1:A:486:MET:CE	1.97	0.93
1:A:150:LEU:HD23	1:A:175:VAL:HG13	1.49	0.93
1:F:233:ALA:HA	1:F:315:LEU:HD22	1.48	0.93
1:A:158:ILE:CD1	1:A:170:LEU:HB3	1.98	0.93
1:B:166:ALA:HB2	1:B:203:ILE:CG2	1.98	0.93
1:C:158:ILE:HD13	1:C:170:LEU:CB	1.98	0.93
1:C:406:LEU:HD21	1:L:431:ILE:HD12	1.50	0.93
1:C:431:ILE:HD12	1:L:406:LEU:HD22	1.49	0.93
1:G:368:VAL:CB	1:G:469:PRO:HG2	1.99	0.93
1:I:156:THR:HG21	1:I:468:GLU:HB3	1.48	0.93
1:I:170:LEU:HD21	1:I:358:VAL:CG2	1.98	0.93
1:K:100:ALA:HB1	1:K:484:THR:HG21	0.95	0.93
1:N:192:LEU:HB3	1:N:342:ALA:CA	1.99	0.93
1:E:35:VAL:HG23	1:E:94:THR:HG23	1.51	0.93
1:E:42:LYS:HG3	1:E:425:ASN:CB	1.99	0.93
1:H:154:ALA:HB1	1:H:174:ILE:HD11	0.95	0.93
1:I:345:MET:HE1	1:I:362:VAL:CG1	1.98	0.93
1:L:158:ILE:CD1	1:L:170:LEU:HB3	1.99	0.93
1:A:206:THR:HG22	1:A:348:ARG:H	1.33	0.92
1:C:130:LYS:HE2	1:C:134:LEU:CD1	1.98	0.92
1:K:132:GLN:HA	1:K:132:GLN:NE2	1.79	0.92
1:M:197:LYS:HA	1:M:355:ILE:CG2	1.98	0.92
1:A:403:ARG:HH11	1:A:403:ARG:HG3	1.34	0.92
1:F:206:THR:HG22	1:F:348:ARG:N	1.83	0.92
1:F:233:ALA:CB	1:F:310:LEU:HD11	1.99	0.92
1:H:77:MET:CE	1:H:487:LEU:HD21	2.00	0.92
1:J:25:ILE:HD13	1:J:108:GLU:OE2	1.69	0.92
1:J:234:LEU:HD11	1:J:301:ALA:HB3	1.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:116:HIS:CG	1:K:117:PRO:HD2	2.05	0.92
1:K:156:THR:HG21	1:K:468:GLU:HB3	1.51	0.92
1:L:174:ILE:HD12	1:L:365:ALA:HB1	1.50	0.92
1:A:30:ILE:HG22	1:A:31:ILE:CG1	2.00	0.92
1:E:234:LEU:HD11	1:E:301:ALA:CB	2.00	0.92
1:I:235:LEU:HD23	1:I:310:LEU:CD1	1.97	0.92
1:L:174:ILE:HG22	1:L:362:VAL:CG2	1.98	0.92
1:F:154:ALA:CB	1:F:174:ILE:HD11	1.99	0.92
1:L:96:ALA:HA	1:L:480:ALA:CB	1.98	0.92
1:N:103:LEU:HD21	1:N:411:PHE:CE2	2.05	0.92
1:E:116:HIS:CG	1:E:117:PRO:HD2	2.05	0.92
1:E:268:ILE:CG2	1:E:273:GLN:HG3	1.98	0.92
1:L:154:ALA:CB	1:L:174:ILE:HD11	1.99	0.92
1:L:391:MET:HE1	1:L:438:ARG:HA	1.51	0.92
1:L:405:GLN:HG2	1:L:406:LEU:H	1.34	0.92
1:N:379:VAL:HG11	1:N:473:LYS:HG3	1.51	0.92
1:O:42:LYS:HE2	1:O:426:ALA:HA	1.51	0.92
1:C:383:GLY:HA2	1:C:386:GLU:HG2	1.51	0.92
1:D:431:ILE:HD11	1:M:403:ARG:N	1.84	0.92
1:H:379:VAL:O	1:H:467:VAL:HG12	1.69	0.92
1:M:232:ILE:HD13	1:M:261:VAL:HG11	1.49	0.92
1:C:219:VAL:HG23	1:C:285:ARG:HB2	1.46	0.92
1:C:233:ALA:CA	1:C:315:LEU:HD22	1.98	0.92
1:D:77:MET:CE	1:D:486:MET:HE1	1.98	0.92
1:H:345:MET:CE	1:H:362:VAL:HG11	1.99	0.92
1:K:116:HIS:CD2	1:K:117:PRO:HD2	2.03	0.92
1:P:138:ILE:HD13	1:P:385:THR:HB	1.49	0.92
1:D:81:VAL:HG11	1:D:483:SER:CB	1.99	0.92
1:E:397:ALA:HB2	1:E:408:VAL:HG23	1.48	0.92
1:I:48:LEU:O	1:I:56:VAL:HG22	1.68	0.92
1:J:34:THR:HA	1:K:14:ARG:HH22	1.31	0.92
1:J:233:ALA:CA	1:J:315:LEU:HD22	2.00	0.92
1:L:77:MET:HE2	1:L:486:MET:CE	1.99	0.92
1:A:218:ARG:CZ	1:A:282:VAL:HG21	1.99	0.92
1:D:42:LYS:HG3	1:D:425:ASN:HB2	1.51	0.92
1:H:420:ARG:HG2	1:H:420:ARG:NH1	1.71	0.92
1:J:197:LYS:CB	1:J:355:ILE:HG21	1.99	0.92
1:J:233:ALA:HB1	1:J:310:LEU:HD11	1.51	0.92
1:L:206:THR:HG22	1:L:347:ILE:HA	1.51	0.92
1:O:193:ILE:HD12	1:O:366:VAL:HG21	1.52	0.92
1:C:89:VAL:O	1:C:89:VAL:CG2	2.18	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:106:LYS:HE3	1:E:109:GLU:OE2	1.70	0.92
1:F:345:MET:HE1	1:F:362:VAL:CG1	1.99	0.92
1:G:276:LEU:CD1	1:G:281:ILE:HG21	1.97	0.92
1:L:156:THR:CG2	1:L:468:GLU:HA	2.00	0.92
1:C:218:ARG:HH11	1:C:218:ARG:CG	1.82	0.91
1:D:119:ILE:CG2	1:D:403:ARG:HB2	1.99	0.91
1:G:85:GLN:HE22	1:G:476:ALA:HA	1.34	0.91
1:H:17:GLY:O	1:H:21:GLN:HB2	1.69	0.91
1:J:135:LEU:CD2	1:J:389:LEU:HD21	1.99	0.91
1:F:100:ALA:CB	1:F:484:THR:HG21	2.00	0.91
1:I:124:TYR:HE1	1:I:407:ALA:CA	1.82	0.91
1:J:403:ARG:HG3	1:J:403:ARG:NH1	1.78	0.91
1:C:100:ALA:HB1	1:C:484:THR:HG21	1.52	0.91
1:C:124:TYR:N	1:C:124:TYR:HD1	1.64	0.91
1:F:212:VAL:HG23	1:F:298:ALA:HB2	1.50	0.91
1:F:254:ILE:HD13	1:F:262:LEU:CD1	2.00	0.91
1:G:89:VAL:O	1:G:89:VAL:CG2	2.18	0.91
1:J:235:LEU:O	1:J:264:CYS:HA	1.71	0.91
1:O:27:ALA:HA	1:O:30:ILE:CD1	2.00	0.91
1:A:391:MET:HE3	1:A:438:ARG:HG2	1.52	0.91
1:B:127:ALA:HB2	1:B:408:VAL:HG12	1.52	0.91
1:B:134:LEU:HB3	1:B:392:LYS:NZ	1.85	0.91
1:I:406:LEU:HD23	1:I:406:LEU:H	1.33	0.91
1:N:77:MET:HA	1:N:80:GLU:OE1	1.70	0.91
1:A:358:VAL:O	1:A:362:VAL:HG12	1.69	0.91
1:G:397:ALA:HB2	1:G:408:VAL:HG23	1.52	0.91
1:I:153:ILE:HD11	1:I:378:ILE:CG2	2.00	0.91
1:L:105:ARG:HD3	1:L:106:LYS:CG	1.97	0.91
1:L:211:GLY:HA2	1:L:298:ALA:HB2	1.52	0.91
1:M:38:THR:CG2	1:M:46:LYS:HE2	2.00	0.91
1:O:192:LEU:HB2	1:O:342:ALA:HB2	1.52	0.91
1:A:174:ILE:HG22	1:A:362:VAL:CG2	2.00	0.91
1:B:14:ARG:NH1	1:C:34:THR:HA	1.84	0.91
1:C:64:ILE:HG23	1:C:65:LEU:HD22	1.53	0.91
1:C:170:LEU:HD22	1:C:358:VAL:HG13	1.51	0.91
1:C:435:VAL:HG11	1:L:401:SER:CB	2.00	0.91
1:E:389:LEU:HD13	1:E:415:LEU:HD13	1.51	0.91
1:A:379:VAL:HG11	1:A:473:LYS:HG3	1.51	0.91
1:E:154:ALA:CB	1:E:174:ILE:HD11	2.01	0.91
1:E:380:SER:HB2	1:E:384:SER:CB	2.00	0.91
1:L:174:ILE:CG2	1:L:362:VAL:HG23	2.00	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:152:LYS:HG2	1:B:465:GLY:C	1.96	0.91
1:G:121:VAL:O	1:G:125:GLN:HG2	1.69	0.91
1:H:177:ALA:HB2	1:H:208:LEU:HD11	1.52	0.91
1:H:368:VAL:CG2	1:H:469:PRO:HG3	2.01	0.91
1:K:403:ARG:CG	1:K:403:ARG:NH1	2.12	0.91
1:L:34:THR:HA	1:M:14:ARG:NH2	1.85	0.91
1:L:127:ALA:HB2	1:L:408:VAL:HG12	1.51	0.91
1:N:119:ILE:HD12	1:N:403:ARG:CB	1.98	0.91
1:O:254:ILE:HG21	1:O:262:LEU:HD13	1.53	0.91
1:D:391:MET:HE1	1:D:438:ARG:HB3	1.52	0.91
1:E:89:VAL:O	1:E:89:VAL:HG22	1.69	0.91
1:E:177:ALA:HB1	1:E:193:ILE:HD13	1.50	0.91
1:F:124:TYR:CE1	1:F:407:ALA:HB1	2.05	0.91
1:A:72:HIS:HD2	1:A:73:PRO:CD	1.84	0.91
1:G:391:MET:HE1	1:G:438:ARG:CB	2.00	0.91
1:H:234:LEU:H	1:H:315:LEU:HD11	1.34	0.91
1:L:178:VAL:HG22	1:L:366:VAL:HG13	1.53	0.91
1:L:235:LEU:CB	1:L:310:LEU:HD22	2.01	0.91
1:A:195:ILE:CB	1:A:359:ALA:HB1	2.01	0.90
1:G:158:ILE:CD1	1:G:170:LEU:HB3	2.01	0.90
1:I:195:ILE:HB	1:I:359:ALA:HB2	1.51	0.90
1:K:233:ALA:CA	1:K:315:LEU:HG	2.01	0.90
1:L:166:ALA:HB2	1:L:203:ILE:HG22	0.92	0.90
1:L:420:ARG:HG2	1:L:420:ARG:HH11	1.36	0.90
1:M:120:VAL:O	1:M:120:VAL:HG22	1.71	0.90
1:M:233:ALA:HB1	1:M:310:LEU:HD21	1.52	0.90
1:N:78:LEU:HD12	1:N:487:LEU:HD11	1.53	0.90
1:N:233:ALA:CA	1:N:315:LEU:HD22	2.01	0.90
1:O:96:ALA:CA	1:O:480:ALA:HB2	2.01	0.90
1:C:140:CYS:SG	1:C:447:LYS:HB3	2.11	0.90
1:H:459:GLU:HB3	1:H:461:MET:HE3	1.52	0.90
1:N:123:GLY:HA3	1:N:407:ALA:CB	2.00	0.90
1:P:347:ILE:HG21	1:P:358:VAL:CG1	2.01	0.90
1:A:135:LEU:HD11	1:A:385:THR:HG23	1.53	0.90
1:A:405:GLN:HB3	1:A:406:LEU:CD1	2.00	0.90
1:H:130:LYS:HE3	1:H:393:LEU:HD13	1.53	0.90
1:I:223:MET:HB3	1:I:282:VAL:HA	1.50	0.90
1:L:206:THR:HG21	1:L:347:ILE:HG23	1.52	0.90
1:B:124:TYR:HE1	1:B:407:ALA:CA	1.83	0.90
1:B:152:LYS:HG2	1:B:465:GLY:O	1.70	0.90
1:C:150:LEU:HD23	1:C:175:VAL:CG1	2.00	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:368:VAL:CB	1:E:469:PRO:HG3	2.01	0.90
1:E:431:ILE:HD12	1:N:406:LEU:HD11	1.50	0.90
1:F:234:LEU:HG	1:F:315:LEU:HD21	1.52	0.90
1:G:166:ALA:HB2	1:G:203:ILE:CB	2.00	0.90
1:G:431:ILE:HG13	1:P:406:LEU:HD11	1.51	0.90
1:N:254:ILE:HG12	1:N:310:LEU:HD23	1.53	0.90
1:P:251:VAL:CG1	1:P:276:LEU:HG	2.01	0.90
1:D:299:THR:HG22	1:D:318:ALA:HB2	1.52	0.90
1:F:233:ALA:CA	1:F:315:LEU:HD22	2.01	0.90
1:H:116:HIS:CG	1:H:117:PRO:HD2	2.06	0.90
1:K:214:VAL:HG11	1:K:295:LEU:HD11	1.53	0.90
1:N:233:ALA:HB1	1:N:310:LEU:HD11	1.51	0.90
1:N:234:LEU:CB	1:N:292:MET:HE1	2.02	0.90
1:C:158:ILE:HG21	1:C:170:LEU:HD12	1.52	0.90
1:G:233:ALA:HA	1:G:315:LEU:CG	2.01	0.90
1:H:27:ALA:HB1	1:H:75:ALA:HB2	1.54	0.90
1:H:152:LYS:HG2	1:H:465:GLY:CA	2.00	0.90
1:M:105:ARG:NE	1:M:106:LYS:HG2	1.87	0.90
1:O:469:PRO:CD	1:O:472:VAL:HG11	2.00	0.90
1:P:124:TYR:CE1	1:P:407:ALA:HB1	2.07	0.90
1:A:105:ARG:HD3	1:A:106:LYS:HG2	1.52	0.90
1:B:105:ARG:HH11	1:B:105:ARG:HG2	1.35	0.90
1:B:233:ALA:CB	1:B:315:LEU:HD21	2.02	0.90
1:E:391:MET:HE3	1:E:438:ARG:HB3	0.90	0.90
1:I:77:MET:HB3	1:I:487:LEU:HD21	1.52	0.90
1:K:154:ALA:HB1	1:K:174:ILE:HD11	1.54	0.90
1:F:257:SER:OG	1:F:311:SER:HA	1.71	0.90
1:G:233:ALA:HB1	1:G:310:LEU:HD11	1.54	0.90
1:H:124:TYR:HD1	1:H:124:TYR:N	1.70	0.90
1:J:178:VAL:HG21	1:J:366:VAL:HG13	1.54	0.90
1:J:299:THR:HG22	1:J:318:ALA:HB2	1.53	0.90
1:N:268:ILE:CG2	1:N:273:GLN:HG3	2.02	0.90
1:P:276:LEU:HB3	1:P:281:ILE:HB	1.53	0.90
1:F:122:LYS:HA	1:F:125:GLN:CD	1.97	0.90
1:M:296:ALA:HA	1:M:301:ALA:HB3	1.54	0.90
1:C:89:VAL:O	1:C:89:VAL:HG22	1.72	0.90
1:C:403:ARG:HH11	1:C:403:ARG:CG	1.67	0.90
1:D:14:ARG:NH2	1:E:34:THR:HA	1.86	0.90
1:H:119:ILE:CG1	1:H:403:ARG:HD3	2.01	0.90
1:J:170:LEU:HD22	1:J:358:VAL:HG13	1.52	0.90
1:L:193:ILE:HD12	1:L:366:VAL:HG11	1.50	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:134:LEU:HD11	1:M:393:LEU:HD21	1.52	0.90
1:A:134:LEU:HB3	1:A:392:LYS:NZ	1.86	0.89
1:A:154:ALA:HB1	1:A:174:ILE:HD11	0.94	0.89
1:D:62:VAL:HG13	1:D:63:THR:N	1.84	0.89
1:P:254:ILE:HD13	1:P:262:LEU:HD13	1.52	0.89
1:P:345:MET:CE	1:P:362:VAL:HG11	2.02	0.89
1:B:254:ILE:HD13	1:B:262:LEU:HD13	1.54	0.89
1:D:42:LYS:HD2	1:D:425:ASN:O	1.72	0.89
1:E:124:TYR:HE1	1:E:407:ALA:C	1.79	0.89
1:F:130:LYS:HE3	1:F:134:LEU:CD1	2.02	0.89
1:L:405:GLN:HG2	1:L:406:LEU:N	1.86	0.89
1:N:119:ILE:HG21	1:N:403:ARG:HB2	1.54	0.89
1:E:166:ALA:HB2	1:E:203:ILE:HB	1.54	0.89
1:E:178:VAL:HG21	1:E:366:VAL:CB	2.02	0.89
1:G:262:LEU:CD1	1:G:310:LEU:HD21	2.00	0.89
1:K:119:ILE:HD12	1:K:403:ARG:CB	2.02	0.89
1:N:156:THR:HG21	1:N:468:GLU:CA	2.02	0.89
1:B:233:ALA:HB2	1:B:315:LEU:HD21	1.52	0.89
1:C:100:ALA:HB1	1:C:484:THR:CG2	2.01	0.89
1:I:100:ALA:HB1	1:I:484:THR:HG21	0.94	0.89
1:K:14:ARG:HD2	1:K:494:ILE:CD1	2.01	0.89
1:L:96:ALA:HA	1:L:480:ALA:HB2	1.54	0.89
1:G:152:LYS:CG	1:G:465:GLY:HA3	2.02	0.89
1:I:152:LYS:HD2	1:I:465:GLY:HA2	1.54	0.89
1:K:129:GLN:O	1:K:132:GLN:HB2	1.73	0.89
1:L:267:GLY:C	1:L:268:ILE:HG12	1.96	0.89
1:B:420:ARG:HG2	1:B:420:ARG:NH1	1.73	0.89
1:G:134:LEU:HD11	1:G:393:LEU:HD21	1.55	0.89
1:O:124:TYR:HE1	1:O:407:ALA:CA	1.85	0.89
1:O:197:LYS:HB3	1:O:355:ILE:CG2	2.03	0.89
1:B:431:ILE:HD12	1:K:406:LEU:CD1	2.03	0.89
1:C:166:ALA:HB2	1:C:203:ILE:HB	1.54	0.89
1:D:166:ALA:HB2	1:D:203:ILE:HG22	1.50	0.89
1:F:62:VAL:HG13	1:F:63:THR:H	1.34	0.89
1:G:152:LYS:HE3	1:G:462:CYS:HA	1.55	0.89
1:G:193:ILE:HG23	1:G:343:VAL:HG13	1.55	0.89
1:G:473:LYS:NZ	1:G:473:LYS:HB2	1.87	0.89
1:K:156:THR:HG21	1:K:468:GLU:CB	2.03	0.89
1:L:235:LEU:HD11	1:L:239:ILE:CG2	2.02	0.89
1:M:387:VAL:HG21	1:M:437:VAL:HG12	1.55	0.89
1:H:42:LYS:HD2	1:H:425:ASN:C	1.98	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:138:ILE:HD13	1:L:385:THR:HG23	1.54	0.89
1:A:115:VAL:HG11	1:A:119:ILE:HG21	1.54	0.89
1:D:156:THR:HG21	1:D:468:GLU:CA	2.03	0.89
1:H:77:MET:HG3	1:H:487:LEU:HD22	1.55	0.89
1:L:233:ALA:CB	1:L:310:LEU:HD11	2.03	0.89
1:O:154:ALA:CB	1:O:174:ILE:HD11	1.96	0.89
1:O:233:ALA:HB1	1:O:310:LEU:HD13	1.54	0.89
1:P:490:ILE:HD12	1:P:490:ILE:H	1.34	0.89
1:K:152:LYS:HZ3	1:K:462:CYS:C	1.81	0.89
1:M:34:THR:HG22	1:M:35:VAL:CG2	1.99	0.89
1:O:96:ALA:HA	1:O:480:ALA:CB	2.03	0.89
1:O:389:LEU:HD13	1:O:415:LEU:HD13	1.53	0.89
1:B:153:ILE:CD1	1:B:378:ILE:HG22	2.03	0.88
1:C:42:LYS:HD2	1:C:426:ALA:HB2	1.52	0.88
1:D:42:LYS:NZ	1:D:426:ALA:HA	1.87	0.88
1:D:380:SER:HB2	1:D:384:SER:HB2	1.55	0.88
1:G:235:LEU:HD23	1:G:310:LEU:CB	2.04	0.88
1:K:234:LEU:HB3	1:K:292:MET:CE	2.03	0.88
1:L:403:ARG:HH11	1:L:403:ARG:CG	1.85	0.88
1:M:195:ILE:HD13	1:M:195:ILE:N	1.87	0.88
1:M:235:LEU:CD1	1:M:262:LEU:HD11	2.03	0.88
1:P:477:ILE:O	1:P:477:ILE:HG22	1.72	0.88
1:A:420:ARG:HH11	1:A:420:ARG:CG	1.86	0.88
1:D:130:LYS:HD3	1:D:393:LEU:CD2	2.03	0.88
1:E:106:LYS:HE2	1:E:106:LYS:CA	1.99	0.88
1:F:130:LYS:CE	1:F:134:LEU:HD11	2.03	0.88
1:G:119:ILE:HG13	1:G:403:ARG:HD2	1.54	0.88
1:K:379:VAL:HB	1:K:380:SER:CA	2.03	0.88
1:O:391:MET:HE2	1:O:438:ARG:HA	1.54	0.88
1:A:403:ARG:HH11	1:A:403:ARG:HG2	1.36	0.88
1:E:192:LEU:HG	1:E:342:ALA:HB2	1.53	0.88
1:A:158:ILE:HD13	1:A:170:LEU:HB3	1.53	0.88
1:A:197:LYS:HB3	1:A:355:ILE:HB	1.56	0.88
1:B:122:LYS:HG2	1:B:125:GLN:NE2	1.87	0.88
1:B:195:ILE:HB	1:B:359:ALA:CB	2.03	0.88
1:E:379:VAL:HG12	1:E:470:LEU:CD2	2.03	0.88
1:F:314:ASP:O	1:F:315:LEU:HG	1.73	0.88
1:G:152:LYS:HG2	1:G:465:GLY:CA	2.02	0.88
1:G:192:LEU:CG	1:G:342:ALA:HB2	2.02	0.88
1:H:152:LYS:CG	1:H:465:GLY:HA2	2.01	0.88
1:I:105:ARG:HH11	1:I:106:LYS:HG2	1.39	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:391:MET:HE3	1:K:438:ARG:HG2	1.55	0.88
1:P:235:LEU:O	1:P:264:CYS:HA	1.73	0.88
1:A:152:LYS:HE2	1:A:462:CYS:CA	2.00	0.88
1:E:156:THR:CG2	1:E:468:GLU:HB3	2.04	0.88
1:G:431:ILE:HD11	1:P:402:GLY:O	1.73	0.88
1:N:218:ARG:CZ	1:N:282:VAL:HG21	2.02	0.88
1:O:34:THR:CB	1:P:14:ARG:HH22	1.85	0.88
1:O:276:LEU:CD1	1:O:281:ILE:HD12	2.03	0.88
1:E:197:LYS:HB2	1:E:355:ILE:HG21	1.55	0.88
1:E:276:LEU:HB3	1:E:281:ILE:HB	1.56	0.88
1:H:27:ALA:HB2	1:H:72:HIS:CD2	2.08	0.88
1:A:96:ALA:HA	1:A:480:ALA:HB2	1.51	0.88
1:A:276:LEU:HD12	1:A:281:ILE:CG2	2.04	0.88
1:B:391:MET:HE3	1:B:438:ARG:CB	2.03	0.88
1:C:103:LEU:HD21	1:C:411:PHE:CD2	2.08	0.88
1:C:134:LEU:HD12	1:C:393:LEU:HD21	1.55	0.88
1:G:124:TYR:HE1	1:G:407:ALA:HA	1.39	0.88
1:H:254:ILE:HD13	1:H:262:LEU:CD1	2.03	0.88
1:J:14:ARG:HG3	1:J:494:ILE:HG12	1.55	0.88
1:J:134:LEU:CD2	1:J:392:LYS:HD2	2.03	0.88
1:M:119:ILE:CG2	1:M:403:ARG:HB2	2.03	0.88
1:P:276:LEU:HD22	1:P:281:ILE:CG2	2.01	0.88
1:D:406:LEU:HD23	1:D:406:LEU:H	1.38	0.88
1:I:77:MET:HE3	1:I:487:LEU:CD2	2.03	0.88
1:I:158:ILE:CG1	1:I:361:ALA:HB1	2.04	0.88
1:K:469:PRO:HB2	1:K:472:VAL:HG23	1.54	0.88
1:C:115:VAL:HG11	1:C:403:ARG:HE	1.39	0.88
1:G:124:TYR:HE1	1:G:407:ALA:CA	1.85	0.88
1:H:174:ILE:CG2	1:H:362:VAL:HG23	2.04	0.88
1:J:120:VAL:HG22	1:J:124:TYR:CE2	2.09	0.88
1:N:418:ILE:HG22	1:N:419:PRO:N	1.89	0.88
1:C:124:TYR:HE1	1:C:407:ALA:CA	1.86	0.88
1:D:420:ARG:HG2	1:D:420:ARG:NH1	1.88	0.88
1:E:135:LEU:CD2	1:E:385:THR:HG21	2.02	0.88
1:F:77:MET:HA	1:F:80:GLU:OE1	1.74	0.88
1:F:178:VAL:CG1	1:F:366:VAL:HG13	2.04	0.88
1:I:36:ARG:HG3	1:I:37:SER:H	1.39	0.88
1:I:115:VAL:HG22	1:I:403:ARG:NE	1.88	0.88
1:K:197:LYS:C	1:K:355:ILE:HD12	1.99	0.88
1:L:42:LYS:HG3	1:L:425:ASN:HB2	1.55	0.88
1:N:178:VAL:HG22	1:N:193:ILE:CD1	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:42:LYS:HD2	1:D:425:ASN:C	1.98	0.87
1:F:391:MET:HE3	1:F:438:ARG:CG	2.04	0.87
1:H:117:PRO:O	1:H:120:VAL:HG12	1.74	0.87
1:C:377:ARG:H	1:C:377:ARG:CD	1.88	0.87
1:D:100:ALA:HB1	1:D:484:THR:CG2	2.02	0.87
1:H:42:LYS:CB	1:H:425:ASN:HB2	2.04	0.87
1:J:26:LEU:O	1:J:30:ILE:HD12	1.72	0.87
1:J:153:ILE:HD11	1:J:378:ILE:CG2	2.02	0.87
1:J:171:ALA:HA	1:J:174:ILE:HD11	1.54	0.87
1:K:124:TYR:HE1	1:K:407:ALA:CA	1.86	0.87
1:M:234:LEU:HB3	1:M:292:MET:HE3	1.55	0.87
1:M:377:ARG:HH11	1:M:470:LEU:CD1	1.85	0.87
1:O:156:THR:HG21	1:O:468:GLU:HB3	1.56	0.87
1:A:81:VAL:HG11	1:A:483:SER:CB	2.05	0.87
1:C:39:LEU:HG	1:C:40:GLY:N	1.78	0.87
1:F:178:VAL:CG1	1:F:366:VAL:HG22	2.04	0.87
1:I:276:LEU:HD12	1:I:281:ILE:CG2	2.03	0.87
1:J:34:THR:CA	1:K:14:ARG:HH22	1.87	0.87
1:M:38:THR:HG23	1:M:46:LYS:CE	2.04	0.87
1:M:251:VAL:HG11	1:M:276:LEU:HD22	1.56	0.87
1:O:377:ARG:CB	1:O:470:LEU:HD12	2.04	0.87
1:A:368:VAL:HA	1:A:371:CYS:SG	2.15	0.87
1:C:154:ALA:CB	1:C:174:ILE:HD11	2.03	0.87
1:D:219:VAL:CG2	1:D:285:ARG:HB2	2.03	0.87
1:J:174:ILE:CG2	1:J:362:VAL:HG23	2.05	0.87
1:J:233:ALA:HA	1:J:315:LEU:HD13	1.56	0.87
1:K:124:TYR:HE1	1:K:407:ALA:HA	1.38	0.87
1:M:197:LYS:CB	1:M:355:ILE:HG21	2.04	0.87
1:O:34:THR:HB	1:P:14:ARG:HH22	1.38	0.87
1:F:158:ILE:CD1	1:F:170:LEU:HB3	2.04	0.87
1:G:473:LYS:HB2	1:G:473:LYS:HZ1	1.39	0.87
1:H:134:LEU:HD12	1:H:393:LEU:HD11	1.55	0.87
1:H:233:ALA:HB1	1:H:315:LEU:HD23	1.54	0.87
1:I:166:ALA:CB	1:I:203:ILE:HB	2.00	0.87
1:L:234:LEU:HD22	1:L:301:ALA:CB	2.04	0.87
1:O:418:ILE:HG22	1:O:419:PRO:HD3	1.56	0.87
1:A:397:ALA:HB2	1:A:408:VAL:HG23	1.54	0.87
1:G:39:LEU:CD2	1:G:40:GLY:H	1.88	0.87
1:I:30:ILE:CG2	1:I:31:ILE:HD13	2.04	0.87
1:K:14:ARG:CD	1:K:494:ILE:HG12	2.05	0.87
1:K:158:ILE:HD13	1:K:170:LEU:HB2	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:383:GLY:HA2	1:A:386:GLU:HG3	1.56	0.87
1:B:42:LYS:HB3	1:B:425:ASN:CB	2.05	0.87
1:B:391:MET:HE3	1:B:438:ARG:CG	2.05	0.87
1:H:494:ILE:CG2	1:H:494:ILE:O	2.20	0.87
1:K:232:ILE:HD13	1:K:299:THR:CG2	2.04	0.87
1:N:34:THR:HG23	1:O:14:ARG:HH22	1.37	0.87
1:N:139:ALA:CB	1:N:377:ARG:HD3	2.03	0.87
1:P:85:GLN:NE2	1:P:475:GLN:HB3	1.89	0.87
1:C:134:LEU:HB3	1:C:392:LYS:NZ	1.90	0.87
1:C:152:LYS:HG2	1:C:465:GLY:HA2	1.56	0.87
1:J:174:ILE:HG22	1:J:362:VAL:CG2	2.05	0.87
1:M:42:LYS:CE	1:M:426:ALA:HB2	2.04	0.87
1:M:65:LEU:HB2	1:M:79:ILE:HD13	1.56	0.87
1:A:377:ARG:O	1:A:470:LEU:HB2	1.74	0.87
1:A:423:ALA:O	1:A:428:LEU:HA	1.74	0.87
1:E:35:VAL:HG23	1:E:94:THR:CG2	2.03	0.87
1:E:152:LYS:HZ3	1:E:462:CYS:HB3	1.39	0.87
1:G:254:ILE:HD13	1:G:262:LEU:HD13	1.54	0.87
1:H:77:MET:HG3	1:H:487:LEU:CD2	2.05	0.87
1:H:115:VAL:HB	1:H:403:ARG:HE	1.40	0.87
1:I:233:ALA:HA	1:I:315:LEU:CG	2.04	0.87
1:L:234:LEU:HB3	1:L:292:MET:HE3	1.54	0.87
1:L:299:THR:HG22	1:L:318:ALA:HB2	1.54	0.87
1:M:34:THR:HA	1:N:14:ARG:NH2	1.89	0.87
1:M:138:ILE:HG21	1:M:388:GLU:HG2	1.57	0.87
1:N:232:ILE:O	1:N:315:LEU:HB3	1.75	0.87
1:P:235:LEU:HG	1:P:310:LEU:HD22	1.55	0.87
1:A:139:ALA:CB	1:A:377:ARG:HG3	2.05	0.86
1:C:61:GLY:O	1:C:64:ILE:HG22	1.73	0.86
1:C:299:THR:HG22	1:C:318:ALA:HB2	1.55	0.86
1:H:192:LEU:HD13	1:H:342:ALA:HB2	0.91	0.86
1:L:42:LYS:HE3	1:L:426:ALA:CB	2.04	0.86
1:M:153:ILE:HD13	1:M:372:THR:HG21	1.57	0.86
1:O:235:LEU:HB3	1:O:310:LEU:CD2	2.05	0.86
1:D:234:LEU:HD11	1:D:296:ALA:HB2	1.56	0.86
1:H:276:LEU:CD2	1:H:281:ILE:HD12	2.04	0.86
1:I:233:ALA:HA	1:I:315:LEU:HD22	1.56	0.86
1:M:233:ALA:CB	1:M:310:LEU:HD11	2.05	0.86
1:B:130:LYS:HD3	1:B:393:LEU:CD2	2.05	0.86
1:C:119:ILE:HG21	1:C:403:ARG:HD3	1.55	0.86
1:C:138:ILE:CD1	1:C:379:VAL:HG21	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:192:LEU:CB	1:C:342:ALA:HB2	2.05	0.86
1:E:39:LEU:HG	1:E:40:GLY:H	1.40	0.86
1:F:197:LYS:HA	1:F:355:ILE:HG21	1.56	0.86
1:F:232:ILE:O	1:F:315:LEU:HB3	1.74	0.86
1:I:178:VAL:CG2	1:I:366:VAL:HG13	2.05	0.86
1:J:192:LEU:HD13	1:J:192:LEU:H	1.40	0.86
1:O:155:MET:HB2	1:O:167:LYS:HD2	1.57	0.86
1:P:268:ILE:HG21	1:P:273:GLN:HG3	1.56	0.86
1:A:103:LEU:HD21	1:A:411:PHE:CE2	2.09	0.86
1:B:281:ILE:HG22	1:B:281:ILE:O	1.72	0.86
1:C:89:VAL:HG21	1:C:472:VAL:HG12	1.55	0.86
1:D:82:ALA:HB1	1:D:93:THR:HG22	1.56	0.86
1:D:218:ARG:HG2	1:D:218:ARG:HH11	1.38	0.86
1:I:93:THR:O	1:I:97:VAL:HG23	1.73	0.86
1:L:105:ARG:NH1	1:L:106:LYS:HD2	1.90	0.86
1:N:47:MET:HE2	1:O:493:VAL:CG1	2.04	0.86
1:N:377:ARG:HD2	1:N:470:LEU:HD11	1.58	0.86
1:O:299:THR:HG23	1:O:334:VAL:HG11	1.55	0.86
1:O:459:GLU:HB3	1:O:461:MET:CE	2.05	0.86
1:A:89:VAL:HG11	1:A:472:VAL:HG22	1.57	0.86
1:E:134:LEU:HD12	1:E:393:LEU:HD21	1.57	0.86
1:G:379:VAL:HB	1:G:470:LEU:HD23	1.55	0.86
1:I:123:GLY:HA3	1:I:407:ALA:HB1	1.55	0.86
1:K:119:ILE:HD12	1:K:403:ARG:HA	1.57	0.86
1:K:156:THR:HG21	1:K:468:GLU:CA	2.05	0.86
1:M:233:ALA:HA	1:M:315:LEU:CD2	2.06	0.86
1:N:124:TYR:CD1	1:N:407:ALA:HB1	2.09	0.86
1:B:96:ALA:HB1	1:B:480:ALA:HB2	1.56	0.86
1:B:377:ARG:CD	1:B:470:LEU:HD12	2.05	0.86
1:C:233:ALA:CB	1:C:310:LEU:HD11	2.04	0.86
1:D:233:ALA:HA	1:D:315:LEU:CD1	2.06	0.86
1:I:235:LEU:HD11	1:I:310:LEU:HD22	1.56	0.86
1:I:420:ARG:CG	1:I:420:ARG:HH11	1.89	0.86
1:J:254:ILE:HG12	1:J:310:LEU:HD23	1.58	0.86
1:K:219:VAL:HG23	1:K:285:ARG:HB3	1.57	0.86
1:L:158:ILE:HD13	1:L:170:LEU:HB3	1.56	0.86
1:N:124:TYR:HE1	1:N:407:ALA:HA	1.39	0.86
1:N:233:ALA:HB1	1:N:310:LEU:CD1	2.05	0.86
1:O:119:ILE:HG21	1:O:403:ARG:CD	2.06	0.86
1:O:155:MET:HB2	1:O:167:LYS:CD	2.06	0.86
1:P:262:LEU:HD11	1:P:310:LEU:HD23	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:268:ILE:HB	1:I:273:GLN:HE21	1.37	0.86
1:I:469:PRO:HG2	1:I:472:VAL:CG1	2.05	0.86
1:L:103:LEU:HD21	1:L:411:PHE:CD2	2.10	0.86
1:C:130:LYS:HD3	1:C:393:LEU:CD2	2.04	0.86
1:F:130:LYS:HD2	1:F:396:TYR:CD1	2.10	0.86
1:H:124:TYR:N	1:H:124:TYR:CD1	2.39	0.86
1:I:158:ILE:CD1	1:I:170:LEU:HB3	2.05	0.86
1:N:298:ALA:O	1:N:337:CYS:HB3	1.76	0.86
1:A:30:ILE:HG22	1:A:31:ILE:N	1.90	0.86
1:A:134:LEU:CD1	1:A:393:LEU:HD21	2.06	0.86
1:A:178:VAL:HG21	1:A:366:VAL:HG22	1.56	0.86
1:A:276:LEU:CD1	1:A:281:ILE:HD12	2.06	0.86
1:B:380:SER:CB	1:B:384:SER:HB2	2.06	0.86
1:E:153:ILE:CG2	1:E:469:PRO:HD3	2.06	0.86
1:F:34:THR:CG2	1:F:35:VAL:HG22	2.06	0.86
1:J:119:ILE:HG21	1:J:403:ARG:CB	2.06	0.86
1:M:24:ASN:HD22	1:M:24:ASN:N	1.74	0.86
1:M:82:ALA:HB1	1:M:93:THR:HG22	1.58	0.86
1:M:377:ARG:NH1	1:M:470:LEU:HD12	1.89	0.86
1:N:31:ILE:HG21	1:N:65:LEU:CD2	2.05	0.86
1:O:381:GLY:CA	1:O:461:MET:HG3	2.06	0.86
1:B:42:LYS:HB3	1:B:425:ASN:HB3	1.58	0.86
1:B:192:LEU:HB2	1:B:342:ALA:CB	2.06	0.86
1:D:223:MET:CE	1:D:283:ALA:HB3	2.06	0.86
1:F:96:ALA:HB1	1:F:480:ALA:HB2	1.58	0.86
1:I:494:ILE:HD12	1:P:48:LEU:CD1	2.05	0.86
1:C:116:HIS:ND1	1:C:117:PRO:HD2	1.91	0.85
1:D:123:GLY:HA3	1:D:407:ALA:CB	2.06	0.85
1:E:178:VAL:HG21	1:E:366:VAL:CG2	2.05	0.85
1:G:48:LEU:CB	1:G:56:VAL:HG22	2.06	0.85
1:G:379:VAL:HG13	1:G:380:SER:O	1.76	0.85
1:H:85:GLN:NE2	1:H:475:GLN:HG3	1.90	0.85
1:L:227:VAL:HG11	1:L:260:ASN:CG	2.01	0.85
1:A:124:TYR:HE1	1:A:407:ALA:CA	1.90	0.85
1:A:405:GLN:CB	1:A:406:LEU:HD12	2.04	0.85
1:B:72:HIS:O	1:B:75:ALA:HB3	1.75	0.85
1:C:124:TYR:N	1:C:124:TYR:CD1	2.43	0.85
1:C:124:TYR:CE1	1:C:407:ALA:HB1	2.10	0.85
1:C:138:ILE:HD13	1:C:379:VAL:CG2	2.03	0.85
1:D:73:PRO:HB2	1:E:47:MET:HE1	1.58	0.85
1:D:77:MET:CB	1:D:487:LEU:HD21	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:368:VAL:HB	1:D:469:PRO:HG2	1.56	0.85
1:E:81:VAL:HG11	1:E:483:SER:HB3	1.56	0.85
1:E:134:LEU:HD13	1:E:392:LYS:HE3	1.57	0.85
1:F:239:ILE:HD11	1:F:254:ILE:HD11	1.57	0.85
1:G:235:LEU:HG	1:G:310:LEU:HD22	1.58	0.85
1:F:233:ALA:HA	1:F:315:LEU:CD2	2.07	0.85
1:F:377:ARG:NH2	1:F:470:LEU:HD12	1.91	0.85
1:L:206:THR:HG22	1:L:348:ARG:N	1.91	0.85
1:M:383:GLY:HA2	1:M:386:GLU:HG2	1.57	0.85
1:N:311:SER:C	1:N:315:LEU:HD12	2.01	0.85
1:A:235:LEU:HG	1:A:310:LEU:HD22	1.58	0.85
1:D:174:ILE:CG2	1:D:362:VAL:HG23	2.05	0.85
1:I:380:SER:CB	1:I:384:SER:HB2	2.06	0.85
1:L:115:VAL:HB	1:L:403:ARG:HE	1.42	0.85
1:B:380:SER:HB3	1:B:384:SER:CB	2.06	0.85
1:B:387:VAL:HG21	1:B:437:VAL:HG12	1.58	0.85
1:D:119:ILE:HD12	1:D:403:ARG:CG	2.05	0.85
1:D:178:VAL:HG22	1:D:193:ILE:HD12	1.58	0.85
1:F:34:THR:HG22	1:F:35:VAL:HG22	1.58	0.85
1:L:235:LEU:O	1:L:264:CYS:HA	1.77	0.85
1:O:195:ILE:HB	1:O:359:ALA:HB1	1.56	0.85
1:B:435:VAL:HG11	1:K:401:SER:HB2	1.57	0.85
1:D:459:GLU:CG	1:D:461:MET:HE2	2.07	0.85
1:E:134:LEU:HD12	1:E:393:LEU:CG	2.07	0.85
1:G:14:ARG:HH12	1:H:34:THR:CG2	1.90	0.85
1:I:227:VAL:HG11	1:I:260:ASN:OD1	1.76	0.85
1:J:119:ILE:HD12	1:J:403:ARG:HG3	1.58	0.85
1:K:174:ILE:CG2	1:K:362:VAL:HG23	2.02	0.85
1:L:403:ARG:HH11	1:L:403:ARG:HG3	1.38	0.85
1:M:152:LYS:HD2	1:M:465:GLY:HA3	1.56	0.85
1:N:101:GLY:O	1:N:104:LEU:HB2	1.74	0.85
1:P:368:VAL:HB	1:P:469:PRO:CG	2.04	0.85
1:A:123:GLY:HA3	1:A:407:ALA:CB	2.07	0.85
1:B:122:LYS:HA	1:B:125:GLN:CD	2.02	0.85
1:B:158:ILE:HD12	1:B:170:LEU:HB2	1.57	0.85
1:C:155:MET:HE2	1:C:465:GLY:HA3	1.59	0.85
1:D:391:MET:HE1	1:D:438:ARG:CB	2.05	0.85
1:G:130:LYS:HG2	1:G:393:LEU:CD2	2.07	0.85
1:H:119:ILE:HG21	1:H:403:ARG:HB2	0.92	0.85
1:K:235:LEU:HD21	1:K:310:LEU:HB2	1.58	0.85
1:N:135:LEU:HD23	1:N:138:ILE:HD13	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:158:ILE:HD12	1:B:170:LEU:CB	2.07	0.85
1:I:89:VAL:HG11	1:I:472:VAL:HA	1.57	0.85
1:J:100:ALA:HB1	1:J:484:THR:CG2	2.06	0.85
1:L:105:ARG:CZ	1:L:106:LYS:HD2	2.07	0.85
1:O:31:ILE:HD13	1:O:31:ILE:N	1.91	0.85
1:O:35:VAL:HG12	1:O:46:LYS:HE3	1.57	0.85
1:E:82:ALA:HB2	1:E:97:VAL:HG21	1.55	0.85
1:F:235:LEU:HD13	1:F:310:LEU:CG	2.07	0.85
1:H:102:GLU:HG2	1:H:417:VAL:HG21	1.59	0.85
1:N:170:LEU:HD22	1:N:358:VAL:HG13	1.56	0.85
1:O:170:LEU:HD22	1:O:358:VAL:HG13	1.58	0.85
1:A:34:THR:HA	1:H:14:ARG:NH1	1.92	0.85
1:D:233:ALA:HB1	1:D:310:LEU:HD21	1.56	0.85
1:H:233:ALA:CB	1:H:315:LEU:HD23	2.06	0.85
1:M:25:ILE:HD13	1:M:108:GLU:OE2	1.75	0.85
1:O:178:VAL:CG2	1:O:366:VAL:HG22	2.07	0.85
1:C:178:VAL:HG21	1:C:366:VAL:HG22	1.59	0.84
1:D:31:ILE:HG23	1:D:65:LEU:HD21	1.57	0.84
1:D:195:ILE:HD13	1:D:195:ILE:H	1.41	0.84
1:M:235:LEU:CD1	1:M:310:LEU:HG	2.07	0.84
1:O:124:TYR:HD1	1:O:407:ALA:HB1	1.41	0.84
1:C:130:LYS:HD3	1:C:393:LEU:HD23	1.56	0.84
1:D:405:GLN:HB3	1:D:406:LEU:HD23	1.59	0.84
1:D:406:LEU:H	1:D:406:LEU:CD2	1.90	0.84
1:F:296:ALA:HB1	1:F:301:ALA:O	1.77	0.84
1:F:441:HIS:ND1	1:F:449:ALA:HB3	1.91	0.84
1:F:459:GLU:HG2	1:F:461:MET:CE	2.06	0.84
1:K:156:THR:CG2	1:K:468:GLU:HB3	2.07	0.84
1:K:368:VAL:HB	1:K:469:PRO:HG2	1.59	0.84
1:M:34:THR:HG23	1:M:35:VAL:HG13	1.58	0.84
1:O:296:ALA:HA	1:O:301:ALA:HB3	1.59	0.84
1:B:391:MET:HE3	1:B:438:ARG:HG2	1.57	0.84
1:B:391:MET:HE1	1:B:438:ARG:C	2.01	0.84
1:C:174:ILE:CG2	1:C:362:VAL:HG23	2.07	0.84
1:D:192:LEU:HG	1:D:342:ALA:CB	2.06	0.84
1:E:227:VAL:HG11	1:E:260:ASN:ND2	1.92	0.84
1:F:234:LEU:H	1:F:315:LEU:HD21	1.43	0.84
1:N:174:ILE:HG22	1:N:362:VAL:HG23	0.90	0.84
1:O:368:VAL:HB	1:O:469:PRO:HG2	1.56	0.84
1:P:192:LEU:HG	1:P:342:ALA:CB	2.06	0.84
1:A:130:LYS:HD3	1:A:393:LEU:HD23	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:193:ILE:HD12	1:A:366:VAL:HG11	1.58	0.84
1:B:276:LEU:CD2	1:B:281:ILE:HG21	2.06	0.84
1:I:100:ALA:O	1:I:104:LEU:HG	1.75	0.84
1:O:251:VAL:HG11	1:O:276:LEU:HD22	1.56	0.84
1:A:178:VAL:HG22	1:A:193:ILE:CD1	2.06	0.84
1:A:345:MET:HE1	1:A:362:VAL:HG11	0.92	0.84
1:A:420:ARG:HG2	1:A:420:ARG:NH1	1.88	0.84
1:B:122:LYS:HA	1:B:125:GLN:NE2	1.93	0.84
1:B:192:LEU:HB2	1:B:342:ALA:HB2	1.59	0.84
1:B:197:LYS:CA	1:B:355:ILE:HG21	2.08	0.84
1:B:494:ILE:O	1:B:494:ILE:HG23	1.77	0.84
1:C:119:ILE:HD12	1:C:403:ARG:CB	2.08	0.84
1:D:400:ILE:HD11	1:D:408:VAL:CG2	2.07	0.84
1:F:177:ALA:HB2	1:F:208:LEU:CD1	2.05	0.84
1:F:235:LEU:CD2	1:F:310:LEU:HD22	2.07	0.84
1:H:276:LEU:CD2	1:H:281:ILE:HG21	2.06	0.84
1:I:89:VAL:HG21	1:I:472:VAL:HG12	1.58	0.84
1:I:315:LEU:N	1:I:315:LEU:HD23	1.93	0.84
1:L:115:VAL:HG21	1:L:403:ARG:CD	2.07	0.84
1:M:206:THR:CB	1:M:347:ILE:HG23	2.07	0.84
1:P:124:TYR:CD1	1:P:407:ALA:HB1	2.13	0.84
1:P:469:PRO:HD2	1:P:472:VAL:HG21	1.59	0.84
1:E:420:ARG:HG2	1:E:420:ARG:NH1	1.84	0.84
1:F:57:VAL:HG23	1:F:57:VAL:O	1.76	0.84
1:K:170:LEU:HD22	1:K:358:VAL:HG11	1.57	0.84
1:M:384:SER:HB2	1:M:441:HIS:HE1	1.43	0.84
1:B:78:LEU:HD12	1:B:487:LEU:CD2	2.06	0.84
1:C:276:LEU:HD12	1:C:281:ILE:CD1	2.08	0.84
1:E:25:ILE:CD1	1:E:108:GLU:HG3	2.06	0.84
1:F:178:VAL:HG11	1:F:366:VAL:CG1	2.07	0.84
1:G:134:LEU:HB3	1:G:392:LYS:HE3	1.59	0.84
1:H:156:THR:HG21	1:H:468:GLU:HG2	1.59	0.84
1:J:138:ILE:C	1:J:138:ILE:HD12	2.01	0.84
1:J:235:LEU:CD2	1:J:310:LEU:HB2	2.07	0.84
1:M:488:LEU:HD12	1:M:488:LEU:C	2.02	0.84
1:A:130:LYS:HD3	1:A:393:LEU:CD2	2.07	0.84
1:B:36:ARG:HG3	1:B:37:SER:H	1.42	0.84
1:C:156:THR:HG22	1:C:468:GLU:HA	1.59	0.84
1:G:39:LEU:HD22	1:G:40:GLY:N	1.92	0.84
1:H:368:VAL:HB	1:H:469:PRO:CG	2.08	0.84
1:K:235:LEU:O	1:K:264:CYS:HA	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:105:ARG:HD3	1:L:106:LYS:H	1.42	0.84
1:O:193:ILE:HD12	1:O:366:VAL:HG11	1.59	0.84
1:O:254:ILE:HG23	1:O:259:ALA:HB3	1.60	0.84
1:B:276:LEU:HB3	1:B:281:ILE:HG21	1.57	0.84
1:C:81:VAL:HG21	1:C:483:SER:CB	2.08	0.84
1:F:124:TYR:HE1	1:F:407:ALA:CA	1.90	0.84
1:H:232:ILE:HG13	1:H:261:VAL:HG11	1.59	0.84
1:I:14:ARG:CD	1:I:494:ILE:HG12	2.03	0.84
1:L:156:THR:HG22	1:L:468:GLU:HA	1.58	0.84
1:M:156:THR:HG21	1:M:468:GLU:HB3	1.58	0.84
1:N:156:THR:HG21	1:N:468:GLU:HB3	1.60	0.84
1:A:170:LEU:HD11	1:A:358:VAL:HG21	1.58	0.84
1:A:428:LEU:N	1:A:428:LEU:HD12	1.93	0.84
1:C:130:LYS:HE2	1:C:393:LEU:HD21	1.59	0.84
1:D:138:ILE:CD1	1:D:385:THR:HG23	2.08	0.84
1:H:33:GLU:HA	1:H:36:ARG:HE	1.43	0.84
1:H:96:ALA:HB1	1:H:480:ALA:HB2	1.58	0.84
1:H:276:LEU:HD23	1:H:281:ILE:CD1	2.05	0.84
1:M:156:THR:CG2	1:M:468:GLU:HB3	2.08	0.84
1:P:139:ALA:HB1	1:P:377:ARG:CG	2.07	0.84
1:D:134:LEU:HB3	1:D:392:LYS:HE3	1.59	0.83
1:G:219:VAL:CG1	1:G:283:ALA:HB3	2.09	0.83
1:H:85:GLN:HE22	1:H:475:GLN:HG3	1.43	0.83
1:H:130:LYS:NZ	1:H:134:LEU:HD11	1.93	0.83
1:J:89:VAL:O	1:J:89:VAL:CG2	2.21	0.83
1:J:262:LEU:CD1	1:J:310:LEU:HD21	2.08	0.83
1:L:134:LEU:CD1	1:L:392:LYS:HD2	2.06	0.83
1:N:391:MET:HE1	1:N:438:ARG:C	2.03	0.83
1:O:106:LYS:HA	1:O:106:LYS:HE3	1.58	0.83
1:P:42:LYS:HG3	1:P:425:ASN:HB2	1.60	0.83
1:P:140:CYS:SG	1:P:447:LYS:HB3	2.17	0.83
1:G:106:LYS:HE3	1:G:106:LYS:HA	1.58	0.83
1:H:77:MET:HA	1:H:80:GLU:OE1	1.77	0.83
1:L:174:ILE:CD1	1:L:365:ALA:HB1	2.07	0.83
1:L:197:LYS:CB	1:L:355:ILE:HG21	2.08	0.83
1:L:227:VAL:HG11	1:L:260:ASN:OD1	1.77	0.83
1:O:170:LEU:HD22	1:O:358:VAL:HG11	1.59	0.83
1:D:138:ILE:HD11	1:D:385:THR:HG23	1.60	0.83
1:E:152:LYS:HG2	1:E:465:GLY:HA2	1.61	0.83
1:E:268:ILE:HB	1:E:273:GLN:HE21	1.43	0.83
1:H:469:PRO:CG	1:H:472:VAL:HG21	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:232:ILE:HG13	1:J:261:VAL:CG1	2.07	0.83
1:K:233:ALA:HB1	1:K:310:LEU:CD2	2.03	0.83
1:L:233:ALA:HA	1:L:315:LEU:HD22	1.58	0.83
1:N:30:ILE:HG22	1:N:31:ILE:CD1	2.08	0.83
1:O:122:LYS:HA	1:O:125:GLN:CD	2.03	0.83
1:P:420:ARG:CG	1:P:420:ARG:NH1	2.30	0.83
1:C:153:ILE:HD11	1:C:378:ILE:CG2	2.08	0.83
1:D:122:LYS:HA	1:D:125:GLN:NE2	1.92	0.83
1:D:469:PRO:CD	1:D:472:VAL:HG21	2.09	0.83
1:J:39:LEU:HG	1:J:40:GLY:N	1.74	0.83
1:L:155:MET:HE1	1:L:465:GLY:HA3	1.60	0.83
1:N:134:LEU:HB3	1:N:392:LYS:NZ	1.91	0.83
1:N:177:ALA:HB2	1:N:208:LEU:HD13	1.61	0.83
1:P:138:ILE:CD1	1:P:385:THR:HB	2.07	0.83
1:C:34:THR:HG22	1:C:35:VAL:CG1	2.08	0.83
1:G:219:VAL:HG12	1:G:283:ALA:HB3	1.61	0.83
1:J:130:LYS:HG3	1:J:393:LEU:CD2	2.07	0.83
1:P:251:VAL:HG11	1:P:276:LEU:HG	1.61	0.83
1:B:387:VAL:HG21	1:B:437:VAL:CG1	2.09	0.83
1:D:384:SER:CB	1:D:441:HIS:CE1	2.61	0.83
1:H:174:ILE:HD12	1:H:365:ALA:HB1	1.59	0.83
1:K:96:ALA:CB	1:K:480:ALA:HB2	2.08	0.83
1:P:134:LEU:CD2	1:P:392:LYS:HE3	2.07	0.83
1:A:263:PHE:CG	1:A:295:LEU:HD13	2.14	0.83
1:C:219:VAL:HG23	1:C:285:ARG:HB3	1.58	0.83
1:I:115:VAL:HG22	1:I:403:ARG:HE	1.44	0.83
1:I:403:ARG:HA	1:I:406:LEU:HD11	1.60	0.83
1:K:123:GLY:HA3	1:K:407:ALA:CB	2.09	0.83
1:K:389:LEU:HD12	1:K:415:LEU:HD13	1.59	0.83
1:N:371:CYS:CB	1:N:471:ARG:HD2	2.09	0.83
1:P:368:VAL:CG2	1:P:469:PRO:HG2	2.09	0.83
1:A:192:LEU:HG	1:A:342:ALA:HB2	1.61	0.83
1:C:223:MET:HG2	1:C:281:ILE:O	1.78	0.83
1:D:387:VAL:HG21	1:D:437:VAL:HG12	1.61	0.83
1:K:178:VAL:CG1	1:K:366:VAL:HG22	2.09	0.83
1:K:469:PRO:CD	1:K:472:VAL:HG21	2.09	0.83
1:N:82:ALA:HB2	1:N:97:VAL:HG21	1.57	0.83
1:B:311:SER:C	1:B:315:LEU:HD22	2.04	0.83
1:D:156:THR:HB	1:D:467:VAL:O	1.78	0.83
1:D:262:LEU:HD11	1:D:310:LEU:HD11	1.58	0.83
1:D:431:ILE:HD13	1:M:403:ARG:HG2	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:469:PRO:HB2	1:F:472:VAL:CG2	2.09	0.83
1:I:239:ILE:HD11	1:I:254:ILE:HD11	1.59	0.83
1:J:62:VAL:HG13	1:J:63:THR:H	1.43	0.83
1:K:368:VAL:CB	1:K:469:PRO:HG2	2.09	0.83
1:L:384:SER:CB	1:L:441:HIS:HE1	1.92	0.83
1:N:178:VAL:HG21	1:N:366:VAL:HG22	1.61	0.83
1:N:233:ALA:HB2	1:N:315:LEU:HD13	1.61	0.83
1:D:368:VAL:HB	1:D:469:PRO:HG3	1.61	0.83
1:H:391:MET:HE1	1:H:438:ARG:HA	1.60	0.83
1:J:177:ALA:CB	1:J:343:VAL:HG21	2.08	0.83
1:J:473:LYS:HA	1:J:473:LYS:HE3	1.59	0.83
1:K:115:VAL:HG23	1:K:119:ILE:HB	1.61	0.83
1:K:192:LEU:HB2	1:K:342:ALA:CB	2.07	0.83
1:L:25:ILE:HD13	1:L:108:GLU:CG	2.08	0.83
1:L:44:MET:HB3	1:M:491:ASP:OD1	1.78	0.83
1:M:227:VAL:HG11	1:M:260:ASN:ND2	1.94	0.83
1:O:42:LYS:HE2	1:O:426:ALA:CA	2.09	0.83
1:P:105:ARG:HD3	1:P:106:LYS:HG2	1.61	0.83
1:P:115:VAL:HG11	1:P:403:ARG:NE	1.94	0.83
1:P:233:ALA:HA	1:P:315:LEU:HD21	1.58	0.83
1:P:345:MET:SD	1:P:362:VAL:HG21	2.19	0.83
1:B:31:ILE:HG21	1:B:65:LEU:HD22	1.61	0.82
1:D:34:THR:HG22	1:D:35:VAL:HG22	1.61	0.82
1:J:95:THR:O	1:J:99:VAL:HG22	1.79	0.82
1:N:192:LEU:HB3	1:N:342:ALA:CB	2.08	0.82
1:O:377:ARG:CZ	1:O:470:LEU:HD13	2.08	0.82
1:P:130:LYS:HE2	1:P:393:LEU:HD23	1.58	0.82
1:A:100:ALA:CB	1:A:484:THR:HG21	2.07	0.82
1:D:233:ALA:HB2	1:D:315:LEU:HD11	1.59	0.82
1:D:379:VAL:O	1:D:467:VAL:HG12	1.78	0.82
1:J:379:VAL:HG22	1:J:380:SER:H	1.43	0.82
1:K:25:ILE:HG22	1:K:26:LEU:N	1.93	0.82
1:N:47:MET:HE2	1:O:493:VAL:HG13	1.61	0.82
1:E:197:LYS:C	1:E:355:ILE:HD13	2.04	0.82
1:H:379:VAL:HG13	1:H:380:SER:O	1.79	0.82
1:I:42:LYS:CB	1:I:425:ASN:HB3	2.04	0.82
1:M:27:ALA:HB1	1:M:75:ALA:HB2	1.61	0.82
1:M:39:LEU:HG	1:M:40:GLY:N	1.92	0.82
1:O:97:VAL:O	1:O:100:ALA:HB3	1.77	0.82
1:P:268:ILE:HB	1:P:273:GLN:NE2	1.94	0.82
1:A:459:GLU:HB3	1:A:461:MET:HE2	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:119:ILE:HD12	1:C:403:ARG:CG	2.10	0.82
1:E:227:VAL:HG11	1:E:260:ASN:CG	2.03	0.82
1:G:212:VAL:HG21	1:G:294:LYS:C	2.04	0.82
1:G:232:ILE:HG13	1:G:261:VAL:HG11	1.61	0.82
1:G:403:ARG:HG3	1:G:403:ARG:HH11	1.41	0.82
1:J:134:LEU:HD12	1:J:393:LEU:HD21	1.61	0.82
1:K:234:LEU:CD1	1:K:296:ALA:HB2	2.09	0.82
1:N:150:LEU:HD23	1:N:175:VAL:CG1	2.08	0.82
1:N:178:VAL:HG22	1:N:193:ILE:HD12	1.61	0.82
1:N:469:PRO:HG2	1:N:472:VAL:CG1	2.02	0.82
1:O:251:VAL:CG1	1:O:276:LEU:HD22	2.09	0.82
1:P:134:LEU:HD22	1:P:392:LYS:CD	2.09	0.82
1:A:387:VAL:HG21	1:A:437:VAL:HG12	1.61	0.82
1:A:435:VAL:HG11	1:J:401:SER:CB	2.08	0.82
1:C:122:LYS:HA	1:C:125:GLN:NE2	1.95	0.82
1:C:493:VAL:HG13	1:D:47:MET:HE2	1.61	0.82
1:D:418:ILE:HB	1:D:419:PRO:CD	2.09	0.82
1:E:42:LYS:HB3	1:E:425:ASN:CB	2.09	0.82
1:F:223:MET:HG2	1:F:281:ILE:O	1.79	0.82
1:G:100:ALA:HB1	1:G:484:THR:CG2	2.07	0.82
1:H:345:MET:HE1	1:H:362:VAL:CG1	2.09	0.82
1:J:314:ASP:C	1:J:315:LEU:HG	2.04	0.82
1:L:262:LEU:HD11	1:L:310:LEU:HD23	1.61	0.82
1:O:371:CYS:HA	1:O:471:ARG:HH21	1.43	0.82
1:H:103:LEU:HD21	1:H:411:PHE:CE2	2.14	0.82
1:J:116:HIS:CG	1:J:117:PRO:CD	2.61	0.82
1:L:383:GLY:HA2	1:L:386:GLU:HG2	1.59	0.82
1:D:233:ALA:HB1	1:D:310:LEU:CD2	2.09	0.82
1:D:234:LEU:HB3	1:D:292:MET:CE	2.09	0.82
1:D:235:LEU:O	1:D:264:CYS:HA	1.79	0.82
1:G:251:VAL:CG1	1:G:276:LEU:HD22	2.10	0.82
1:K:193:ILE:HD12	1:K:366:VAL:HG11	1.62	0.82
1:N:276:LEU:HD22	1:N:281:ILE:CG2	2.09	0.82
1:O:98:VAL:HG12	1:O:99:VAL:N	1.94	0.82
1:P:387:VAL:O	1:P:390:SER:HB3	1.78	0.82
1:A:166:ALA:O	1:A:170:LEU:HD22	1.80	0.82
1:D:130:LYS:HE3	1:D:134:LEU:HD11	1.60	0.82
1:D:130:LYS:HE2	1:D:396:TYR:HB2	1.62	0.82
1:F:347:ILE:HG21	1:F:358:VAL:CG1	2.09	0.82
1:G:401:SER:CB	1:P:435:VAL:HG11	2.09	0.82
1:P:116:HIS:CE1	1:P:117:PRO:HG2	2.15	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:449:ALA:HB2	1:P:458:VAL:CG2	2.08	0.82
1:C:96:ALA:HA	1:C:480:ALA:CB	2.10	0.82
1:D:197:LYS:HA	1:D:355:ILE:HG21	1.59	0.82
1:D:403:ARG:CD	1:M:431:ILE:HD13	2.03	0.82
1:E:152:LYS:NZ	1:E:462:CYS:HB3	1.94	0.82
1:I:124:TYR:CE1	1:I:407:ALA:CA	2.58	0.82
1:I:166:ALA:HB2	1:I:203:ILE:CB	2.04	0.82
1:J:158:ILE:HD13	1:J:170:LEU:CB	2.09	0.82
1:M:459:GLU:HB3	1:M:461:MET:CE	2.10	0.82
1:P:206:THR:HB	1:P:347:ILE:HG23	1.60	0.82
1:A:30:ILE:HD12	1:A:31:ILE:HG12	1.62	0.82
1:B:377:ARG:HD2	1:B:470:LEU:CD1	2.10	0.82
1:G:233:ALA:HA	1:G:315:LEU:HD11	1.62	0.82
1:H:42:LYS:HB3	1:H:425:ASN:CB	2.08	0.82
1:M:130:LYS:NZ	1:M:396:TYR:HB2	1.94	0.82
1:N:170:LEU:HD21	1:N:358:VAL:CG2	2.09	0.82
1:P:170:LEU:HD11	1:P:358:VAL:CG1	2.10	0.82
1:B:233:ALA:HA	1:B:315:LEU:HD11	1.60	0.81
1:D:150:LEU:HD23	1:D:175:VAL:CG1	2.10	0.81
1:E:124:TYR:CE1	1:E:407:ALA:CA	2.63	0.81
1:E:235:LEU:HD13	1:E:310:LEU:CD1	2.09	0.81
1:G:435:VAL:HG11	1:P:401:SER:HB2	1.62	0.81
1:J:233:ALA:HA	1:J:315:LEU:CD2	2.09	0.81
1:N:139:ALA:HB2	1:N:377:ARG:CD	2.09	0.81
1:P:197:LYS:CB	1:P:355:ILE:HG21	2.10	0.81
1:A:130:LYS:HG2	1:A:393:LEU:HD21	1.59	0.81
1:B:103:LEU:HD21	1:B:411:PHE:CE2	2.16	0.81
1:G:105:ARG:HH11	1:G:106:LYS:HG2	1.45	0.81
1:H:35:VAL:HA	1:H:46:LYS:HZ1	1.45	0.81
1:H:39:LEU:HG	1:H:40:GLY:N	1.92	0.81
1:I:223:MET:HE1	1:I:283:ALA:CB	2.11	0.81
1:J:197:LYS:HA	1:J:347:ILE:CG2	2.10	0.81
1:J:459:GLU:HG3	1:J:459:GLU:O	1.77	0.81
1:K:368:VAL:HB	1:K:469:PRO:CG	2.10	0.81
1:N:197:LYS:HB3	1:N:355:ILE:HB	1.62	0.81
1:N:387:VAL:O	1:N:390:SER:HB3	1.80	0.81
1:O:116:HIS:CG	1:O:117:PRO:CD	2.62	0.81
1:O:173:ILE:HG13	1:O:345:MET:SD	2.20	0.81
1:P:296:ALA:HB1	1:P:301:ALA:O	1.80	0.81
1:A:391:MET:HE3	1:A:438:ARG:CG	2.11	0.81
1:B:81:VAL:HG11	1:B:483:SER:HB3	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:178:VAL:HG22	1:C:193:ILE:HD11	1.59	0.81
1:C:254:ILE:HG12	1:C:310:LEU:HD23	1.61	0.81
1:D:254:ILE:HD13	1:D:262:LEU:CD1	2.11	0.81
1:E:124:TYR:HE1	1:E:407:ALA:CA	1.92	0.81
1:G:72:HIS:CA	1:G:75:ALA:HB3	2.10	0.81
1:G:118:THR:HG21	1:H:42:LYS:HE3	1.60	0.81
1:G:123:GLY:HA3	1:G:407:ALA:HB1	1.62	0.81
1:G:130:LYS:NZ	1:G:134:LEU:HD21	1.95	0.81
1:H:42:LYS:CE	1:H:426:ALA:HA	2.08	0.81
1:I:103:LEU:HD21	1:I:411:PHE:CD2	2.15	0.81
1:I:174:ILE:HG22	1:I:362:VAL:CG2	2.10	0.81
1:I:368:VAL:CB	1:I:469:PRO:HB3	2.03	0.81
1:K:197:LYS:HA	1:K:355:ILE:HG21	1.60	0.81
1:L:441:HIS:ND1	1:L:449:ALA:HB3	1.94	0.81
1:N:153:ILE:HD11	1:N:378:ILE:CG2	2.01	0.81
1:N:154:ALA:CB	1:N:174:ILE:HD11	2.08	0.81
1:O:156:THR:HG21	1:O:468:GLU:CB	2.09	0.81
1:O:347:ILE:HG21	1:O:358:VAL:HB	1.62	0.81
1:P:62:VAL:HG13	1:P:63:THR:H	1.45	0.81
1:D:130:LYS:HE3	1:D:393:LEU:HD23	1.60	0.81
1:D:403:ARG:HG2	1:D:403:ARG:NH1	1.95	0.81
1:D:420:ARG:HG2	1:D:420:ARG:HH11	1.43	0.81
1:J:255:LYS:O	1:J:255:LYS:CG	2.27	0.81
1:L:158:ILE:HD13	1:L:170:LEU:CB	2.10	0.81
1:M:233:ALA:HA	1:M:315:LEU:HD13	1.61	0.81
1:O:178:VAL:HG22	1:O:366:VAL:HG13	1.60	0.81
1:O:254:ILE:HD12	1:O:276:LEU:CD1	2.11	0.81
1:P:29:ARG:O	1:P:33:GLU:HG3	1.79	0.81
1:P:391:MET:HE3	1:P:438:ARG:HD2	1.60	0.81
1:C:377:ARG:HB2	1:C:470:LEU:CD1	2.10	0.81
1:E:134:LEU:CD1	1:E:393:LEU:HD21	2.09	0.81
1:E:152:LYS:HD3	1:E:465:GLY:HA2	1.62	0.81
1:F:158:ILE:HD13	1:F:170:LEU:HB3	1.62	0.81
1:G:276:LEU:HB2	1:G:281:ILE:HB	1.63	0.81
1:I:235:LEU:CD1	1:I:310:LEU:HD22	2.10	0.81
1:J:223:MET:HE1	1:J:283:ALA:HB3	1.62	0.81
1:O:368:VAL:CB	1:O:469:PRO:HG2	2.09	0.81
1:A:174:ILE:HD12	1:A:365:ALA:CB	2.10	0.81
1:D:89:VAL:HG21	1:D:368:VAL:CG1	2.11	0.81
1:K:299:THR:HG23	1:K:334:VAL:HG11	1.62	0.81
1:L:134:LEU:HD13	1:L:392:LYS:CD	2.07	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:140:CYS:SG	1:L:447:LYS:HB3	2.21	0.81
1:M:39:LEU:HG	1:M:40:GLY:H	1.45	0.81
1:A:29:ARG:O	1:A:33:GLU:HG3	1.80	0.81
1:A:34:THR:HA	1:H:14:ARG:HH22	1.43	0.81
1:B:422:LEU:HA	1:B:425:ASN:HD22	1.44	0.81
1:E:38:THR:HG21	1:E:46:LYS:HE2	1.61	0.81
1:E:233:ALA:HA	1:E:315:LEU:CD1	2.10	0.81
1:H:234:LEU:HB3	1:H:292:MET:HE1	1.63	0.81
1:K:134:LEU:CD2	1:K:392:LYS:HD2	2.08	0.81
1:L:119:ILE:HG21	1:L:403:ARG:HD3	1.61	0.81
1:L:123:GLY:HA3	1:L:407:ALA:HB3	1.61	0.81
1:L:469:PRO:CG	1:L:472:VAL:HG21	2.10	0.81
1:P:227:VAL:HG11	1:P:260:ASN:ND2	1.96	0.81
1:A:88:GLU:HG3	1:A:475:GLN:CG	2.08	0.81
1:A:89:VAL:O	1:A:89:VAL:CG2	2.29	0.81
1:A:93:THR:O	1:A:97:VAL:HG13	1.80	0.81
1:B:130:LYS:HD3	1:B:393:LEU:HD23	1.63	0.81
1:F:232:ILE:CG1	1:F:299:THR:HG21	2.10	0.81
1:I:195:ILE:HB	1:I:359:ALA:HB1	1.60	0.81
1:J:34:THR:HG22	1:J:35:VAL:N	1.93	0.81
1:J:232:ILE:HG13	1:J:261:VAL:HG11	1.63	0.81
1:M:235:LEU:HD11	1:M:310:LEU:HG	1.62	0.81
1:P:193:ILE:HD12	1:P:366:VAL:CG1	2.09	0.81
1:D:110:LEU:O	1:D:113:GLN:HA	1.80	0.81
1:D:178:VAL:HG22	1:D:193:ILE:CD1	2.11	0.81
1:E:268:ILE:HG21	1:E:273:GLN:CG	2.11	0.81
1:F:57:VAL:O	1:F:57:VAL:CG2	2.29	0.81
1:I:197:LYS:CB	1:I:355:ILE:HG21	2.10	0.81
1:J:391:MET:HE3	1:J:438:ARG:CD	2.11	0.81
1:K:106:LYS:HA	1:K:106:LYS:HE3	1.61	0.81
1:L:116:HIS:HD2	1:L:118:THR:HG23	1.46	0.81
1:L:156:THR:HG21	1:L:468:GLU:CA	2.10	0.81
1:L:391:MET:HE1	1:L:438:ARG:C	2.05	0.81
1:C:78:LEU:HD12	1:C:487:LEU:CD1	2.10	0.81
1:D:72:HIS:O	1:D:75:ALA:HB3	1.79	0.81
1:L:218:ARG:HD3	1:L:282:VAL:HG12	1.63	0.81
1:M:119:ILE:HG21	1:M:403:ARG:HB2	1.61	0.81
1:C:64:ILE:CG2	1:C:65:LEU:HD22	2.11	0.80
1:N:156:THR:CG2	1:N:468:GLU:HB3	2.10	0.80
1:P:123:GLY:N	1:P:404:GLU:HG3	1.94	0.80
1:A:130:LYS:HG2	1:A:393:LEU:CD2	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:140:CYS:HB3	1:A:446:ASN:HB2	1.63	0.80
1:B:39:LEU:HD13	1:B:40:GLY:N	1.95	0.80
1:J:103:LEU:HD21	1:J:411:PHE:CE2	2.16	0.80
1:N:42:LYS:HB3	1:N:425:ASN:CB	2.11	0.80
1:C:152:LYS:HG2	1:C:465:GLY:CA	2.10	0.80
1:D:170:LEU:HD13	1:D:358:VAL:HG13	1.62	0.80
1:H:403:ARG:HA	1:H:406:LEU:HD13	1.61	0.80
1:L:78:LEU:CD1	1:L:487:LEU:HD11	2.11	0.80
1:M:103:LEU:HD21	1:M:411:PHE:CE2	2.15	0.80
1:N:119:ILE:CG2	1:N:403:ARG:HB2	2.11	0.80
1:A:95:THR:O	1:A:99:VAL:HG22	1.82	0.80
1:A:135:LEU:HG	1:A:138:ILE:CD1	2.12	0.80
1:C:431:ILE:HD12	1:L:406:LEU:HD21	1.64	0.80
1:G:100:ALA:O	1:G:104:LEU:HG	1.80	0.80
1:I:347:ILE:HG21	1:I:358:VAL:CG1	2.10	0.80
1:I:380:SER:HB3	1:I:384:SER:HB2	1.64	0.80
1:J:119:ILE:HD12	1:J:403:ARG:CB	2.11	0.80
1:J:130:LYS:HE2	1:J:134:LEU:HD11	1.61	0.80
1:J:158:ILE:CG1	1:J:361:ALA:HB1	2.09	0.80
1:L:47:MET:HE2	1:M:493:VAL:HG13	1.64	0.80
1:L:130:LYS:HG3	1:L:393:LEU:CD2	2.09	0.80
1:L:197:LYS:HB3	1:L:355:ILE:CG2	2.11	0.80
1:M:36:ARG:HG2	1:M:37:SER:OG	1.80	0.80
1:M:106:LYS:HE3	1:M:109:GLU:CD	2.06	0.80
1:P:153:ILE:CG2	1:P:469:PRO:HG3	2.10	0.80
1:E:406:LEU:HD11	1:N:431:ILE:CD1	2.12	0.80
1:E:406:LEU:HD21	1:N:431:ILE:HG13	1.62	0.80
1:J:368:VAL:CB	1:J:469:PRO:CG	2.59	0.80
1:A:134:LEU:HD12	1:A:393:LEU:HD21	1.64	0.80
1:C:31:ILE:CG2	1:C:65:LEU:HD11	2.12	0.80
1:C:197:LYS:HB3	1:C:355:ILE:HG21	1.51	0.80
1:H:347:ILE:HG21	1:H:358:VAL:HB	1.63	0.80
1:I:56:VAL:CG2	1:I:56:VAL:O	2.30	0.80
1:J:30:ILE:C	1:J:32:ALA:H	1.90	0.80
1:M:177:ALA:HB1	1:M:343:VAL:HG11	1.64	0.80
1:N:34:THR:HG23	1:O:14:ARG:CZ	2.12	0.80
1:A:158:ILE:HD13	1:A:170:LEU:CB	2.11	0.80
1:C:418:ILE:O	1:C:422:LEU:HG	1.82	0.80
1:D:219:VAL:HG23	1:D:285:ARG:HB2	1.64	0.80
1:D:234:LEU:CD1	1:D:296:ALA:HB2	2.11	0.80
1:D:403:ARG:CG	1:D:403:ARG:NH1	2.40	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:154:ALA:CB	1:K:174:ILE:HD11	2.12	0.80
1:K:371:CYS:SG	1:K:471:ARG:HB3	2.21	0.80
1:L:30:ILE:HG22	1:L:31:ILE:H	1.47	0.80
1:M:82:ALA:HB2	1:M:97:VAL:HG21	1.64	0.80
1:N:158:ILE:HD13	1:N:170:LEU:HB2	1.63	0.80
1:A:431:ILE:CD1	1:J:403:ARG:HD3	2.12	0.80
1:B:206:THR:CB	1:B:347:ILE:HG23	2.12	0.80
1:E:134:LEU:HD12	1:E:393:LEU:CD2	2.10	0.80
1:L:158:ILE:CG1	1:L:361:ALA:HB1	2.06	0.80
1:L:232:ILE:O	1:L:315:LEU:HD22	1.81	0.80
1:M:124:TYR:CE1	1:M:407:ALA:HA	2.16	0.80
1:N:234:LEU:HB2	1:N:292:MET:HE1	1.62	0.80
1:O:34:THR:HA	1:P:14:ARG:HH12	1.47	0.80
1:P:490:ILE:H	1:P:490:ILE:CD1	1.94	0.80
1:B:156:THR:HG22	1:B:156:THR:O	1.80	0.80
1:D:296:ALA:HB1	1:D:301:ALA:O	1.80	0.80
1:G:234:LEU:HD12	1:G:296:ALA:HB2	1.63	0.80
1:H:153:ILE:HD11	1:H:378:ILE:HB	1.63	0.80
1:K:78:LEU:CD1	1:K:487:LEU:HD22	2.07	0.80
1:K:469:PRO:O	1:K:472:VAL:HB	1.82	0.80
1:P:134:LEU:HD22	1:P:392:LYS:HD2	1.64	0.80
1:P:377:ARG:HD2	1:P:470:LEU:CD1	2.12	0.80
1:E:387:VAL:O	1:E:390:SER:HB3	1.81	0.80
1:H:178:VAL:HG23	1:H:178:VAL:O	1.79	0.80
1:I:152:LYS:CG	1:I:465:GLY:HA2	2.12	0.80
1:J:134:LEU:HB3	1:J:392:LYS:HE3	1.64	0.80
1:M:177:ALA:HB2	1:M:208:LEU:HD11	1.65	0.80
1:M:227:VAL:HG11	1:M:260:ASN:HD21	1.47	0.80
1:N:368:VAL:HB	1:N:469:PRO:HB3	1.63	0.80
1:P:130:LYS:HD2	1:P:130:LYS:O	1.81	0.80
1:A:206:THR:HG21	1:A:347:ILE:CG2	2.12	0.79
1:C:420:ARG:O	1:C:423:ALA:HB3	1.82	0.79
1:E:403:ARG:CG	1:E:403:ARG:NH1	2.33	0.79
1:G:85:GLN:NE2	1:G:476:ALA:HA	1.96	0.79
1:G:119:ILE:HG21	1:G:403:ARG:HB2	1.64	0.79
1:H:132:GLN:HE21	1:H:132:GLN:HA	1.47	0.79
1:J:234:LEU:H	1:J:315:LEU:CD2	1.94	0.79
1:J:345:MET:HE1	1:J:362:VAL:HG21	1.62	0.79
1:L:254:ILE:HD13	1:L:262:LEU:HD13	1.62	0.79
1:M:276:LEU:HD12	1:M:281:ILE:HG21	0.89	0.79
1:N:85:GLN:NE2	1:N:475:GLN:HG3	1.96	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:251:VAL:HG13	1:N:276:LEU:HG	1.64	0.79
1:N:383:GLY:HA3	1:N:386:GLU:CG	2.12	0.79
1:O:233:ALA:HB1	1:O:310:LEU:CD1	2.11	0.79
1:P:42:LYS:CD	1:P:426:ALA:HB2	2.11	0.79
1:P:134:LEU:HD11	1:P:393:LEU:CD2	2.13	0.79
1:A:431:ILE:HD13	1:J:403:ARG:HD3	1.64	0.79
1:E:233:ALA:HA	1:E:315:LEU:CD2	2.11	0.79
1:G:166:ALA:HB2	1:G:203:ILE:HB	1.62	0.79
1:G:431:ILE:HG13	1:P:406:LEU:CD1	2.12	0.79
1:I:170:LEU:CD2	1:I:358:VAL:HG22	2.10	0.79
1:J:345:MET:HE1	1:J:362:VAL:CG1	2.11	0.79
1:L:379:VAL:HG22	1:L:380:SER:H	1.46	0.79
1:C:78:LEU:HD12	1:C:487:LEU:CD2	2.12	0.79
1:C:123:GLY:HA3	1:C:407:ALA:HB3	1.64	0.79
1:C:166:ALA:HB2	1:C:203:ILE:CG2	2.13	0.79
1:D:431:ILE:HD12	1:M:406:LEU:HD23	1.64	0.79
1:E:124:TYR:CE1	1:E:407:ALA:CB	2.64	0.79
1:F:235:LEU:HD13	1:F:310:LEU:HD13	1.63	0.79
1:K:235:LEU:HD21	1:K:310:LEU:CB	2.13	0.79
1:M:42:LYS:HB3	1:M:425:ASN:HB3	1.62	0.79
1:N:223:MET:HB3	1:N:282:VAL:HA	1.62	0.79
1:O:212:VAL:HG21	1:O:294:LYS:C	2.08	0.79
1:A:130:LYS:HG3	1:A:130:LYS:O	1.79	0.79
1:A:403:ARG:CG	1:A:403:ARG:NH1	2.30	0.79
1:C:152:LYS:CG	1:C:465:GLY:HA2	2.11	0.79
1:D:380:SER:HA	1:D:467:VAL:HG13	1.64	0.79
1:F:34:THR:CG2	1:F:35:VAL:HG13	2.12	0.79
1:F:192:LEU:CG	1:F:342:ALA:HB2	2.11	0.79
1:G:158:ILE:HG12	1:G:361:ALA:CB	2.11	0.79
1:H:42:LYS:HE2	1:H:426:ALA:HB2	1.65	0.79
1:H:138:ILE:HD12	1:H:379:VAL:HG21	1.63	0.79
1:H:158:ILE:HG12	1:H:361:ALA:HB1	1.64	0.79
1:L:30:ILE:HG22	1:L:31:ILE:N	1.97	0.79
1:N:117:PRO:O	1:N:120:VAL:HG12	1.83	0.79
1:P:119:ILE:HD12	1:P:403:ARG:HB2	1.64	0.79
1:P:134:LEU:HD13	1:P:392:LYS:HE3	1.64	0.79
1:D:459:GLU:HG2	1:D:461:MET:CE	2.11	0.79
1:F:235:LEU:HD22	1:F:262:LEU:HD21	1.65	0.79
1:H:130:LYS:CE	1:H:134:LEU:HD11	2.13	0.79
1:H:178:VAL:CG1	1:H:366:VAL:HG13	2.12	0.79
1:H:431:ILE:CD1	1:I:403:ARG:HG2	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:212:VAL:HG23	1:K:298:ALA:HB2	1.63	0.79
1:L:406:LEU:H	1:L:406:LEU:CD1	1.92	0.79
1:M:391:MET:HE1	1:M:438:ARG:HB3	1.64	0.79
1:O:387:VAL:O	1:O:390:SER:HB3	1.82	0.79
1:C:130:LYS:HE2	1:C:393:LEU:CD2	2.11	0.79
1:F:251:VAL:HG13	1:F:276:LEU:HD22	1.64	0.79
1:F:358:VAL:O	1:F:362:VAL:HG12	1.82	0.79
1:I:377:ARG:HD2	1:I:470:LEU:CD1	2.11	0.79
1:K:130:LYS:HG2	1:K:393:LEU:HD21	1.64	0.79
1:L:351:THR:O	1:L:355:ILE:HG13	1.82	0.79
1:N:153:ILE:CD1	1:N:378:ILE:HG22	2.03	0.79
1:N:263:PHE:CD2	1:N:295:LEU:HD13	2.18	0.79
1:O:95:THR:O	1:O:99:VAL:HG22	1.83	0.79
1:O:377:ARG:CG	1:O:470:LEU:HD12	2.13	0.79
1:P:119:ILE:HG21	1:P:403:ARG:HB2	1.63	0.79
1:A:42:LYS:HG3	1:A:426:ALA:HB2	1.65	0.79
1:C:377:ARG:HB2	1:C:470:LEU:HD12	1.64	0.79
1:F:276:LEU:CD1	1:F:281:ILE:HD12	2.13	0.79
1:G:368:VAL:HA	1:G:371:CYS:SG	2.22	0.79
1:I:124:TYR:N	1:I:124:TYR:HD1	1.79	0.79
1:J:106:LYS:CA	1:J:106:LYS:HE2	1.96	0.79
1:J:138:ILE:CD1	1:J:379:VAL:HG21	2.13	0.79
1:K:115:VAL:CG2	1:K:119:ILE:HB	2.13	0.79
1:K:177:ALA:HB2	1:K:208:LEU:HD11	1.65	0.79
1:K:400:ILE:HD11	1:K:408:VAL:HG21	1.65	0.79
1:M:156:THR:HG21	1:M:468:GLU:CB	2.13	0.79
1:M:177:ALA:HB2	1:M:208:LEU:HD13	1.63	0.79
1:B:170:LEU:HD22	1:B:358:VAL:HG13	1.65	0.79
1:C:178:VAL:HG22	1:C:193:ILE:HD12	1.62	0.79
1:C:362:VAL:O	1:C:366:VAL:HG23	1.81	0.79
1:J:127:ALA:HB2	1:J:408:VAL:HG12	1.62	0.79
1:K:214:VAL:HG11	1:K:295:LEU:CD1	2.13	0.79
1:K:387:VAL:O	1:K:390:SER:HB3	1.82	0.79
1:L:310:LEU:CD1	1:L:315:LEU:HD11	2.12	0.79
1:N:134:LEU:HB3	1:N:392:LYS:HZ1	1.46	0.79
1:O:281:ILE:O	1:O:281:ILE:HG22	1.80	0.79
1:A:400:ILE:HD11	1:A:408:VAL:HG21	1.65	0.79
1:B:345:MET:HE3	1:B:347:ILE:HD11	1.64	0.79
1:C:345:MET:SD	1:C:362:VAL:HG21	2.23	0.79
1:C:396:TYR:CG	1:C:396:TYR:O	2.33	0.79
1:D:105:ARG:NH1	1:D:106:LYS:HD2	1.97	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:368:VAL:CG2	1:E:469:PRO:HG3	2.12	0.79
1:F:371:CYS:CB	1:F:471:ARG:HE	1.96	0.79
1:N:115:VAL:HG22	1:N:119:ILE:HG13	1.63	0.79
1:N:119:ILE:HG21	1:N:403:ARG:CB	2.13	0.79
1:N:380:SER:CB	1:N:384:SER:HB2	2.13	0.79
1:O:27:ALA:HA	1:O:30:ILE:HD11	1.63	0.79
1:P:119:ILE:HG23	1:P:403:ARG:HB2	1.65	0.79
1:A:104:LEU:HD23	1:A:488:LEU:CD1	2.11	0.79
1:D:276:LEU:HD12	1:D:281:ILE:CG2	2.10	0.79
1:E:119:ILE:HG13	1:E:403:ARG:HD2	1.64	0.79
1:E:152:LYS:CG	1:E:465:GLY:HA2	2.13	0.79
1:E:420:ARG:HH11	1:E:420:ARG:CG	1.95	0.79
1:F:469:PRO:HB2	1:F:472:VAL:HG23	1.63	0.79
1:G:21:GLN:C	1:G:25:ILE:HG12	2.08	0.79
1:G:401:SER:HB2	1:P:435:VAL:HG11	1.62	0.79
1:H:21:GLN:O	1:H:25:ILE:HG13	1.82	0.79
1:H:138:ILE:HA	1:H:446:ASN:HB3	1.63	0.79
1:J:178:VAL:HG22	1:J:193:ILE:CD1	2.13	0.79
1:K:130:LYS:HG3	1:K:130:LYS:O	1.81	0.79
1:L:233:ALA:HA	1:L:315:LEU:CD1	2.12	0.79
1:B:130:LYS:HE2	1:B:134:LEU:HD11	1.64	0.78
1:B:170:LEU:HD11	1:B:358:VAL:HG22	1.64	0.78
1:C:31:ILE:HG21	1:C:65:LEU:HD11	1.65	0.78
1:C:150:LEU:HB3	1:C:175:VAL:CG1	2.13	0.78
1:D:262:LEU:HD11	1:D:310:LEU:CD1	2.12	0.78
1:D:403:ARG:HH11	1:D:403:ARG:CG	1.86	0.78
1:E:120:VAL:HG23	1:E:124:TYR:CE2	2.18	0.78
1:F:368:VAL:HB	1:F:469:PRO:CG	2.10	0.78
1:G:31:ILE:HG21	1:G:65:LEU:HG	1.64	0.78
1:H:299:THR:HG23	1:H:334:VAL:HG11	1.65	0.78
1:I:358:VAL:O	1:I:362:VAL:HG12	1.83	0.78
1:L:387:VAL:HG21	1:L:437:VAL:HG12	1.63	0.78
1:N:81:VAL:HG11	1:N:483:SER:HB2	1.65	0.78
1:A:193:ILE:HD13	1:A:366:VAL:HG21	1.65	0.78
1:D:494:ILE:HG13	1:E:48:LEU:HD23	1.65	0.78
1:E:234:LEU:CD1	1:E:301:ALA:CB	2.61	0.78
1:G:130:LYS:HZ3	1:G:134:LEU:HD21	1.47	0.78
1:G:235:LEU:CG	1:G:310:LEU:HD22	2.13	0.78
1:H:234:LEU:HB3	1:H:292:MET:CE	2.13	0.78
1:J:34:THR:HB	1:K:14:ARG:HH22	1.48	0.78
1:J:219:VAL:HG21	1:J:268:ILE:HD12	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:234:LEU:HD22	1:L:301:ALA:HB3	1.64	0.78
1:M:262:LEU:HD12	1:M:310:LEU:HD11	1.64	0.78
1:M:296:ALA:CB	1:M:301:ALA:HB3	2.13	0.78
1:P:42:LYS:HD3	1:P:426:ALA:CB	2.12	0.78
1:P:268:ILE:CG2	1:P:273:GLN:HG3	2.13	0.78
1:A:428:LEU:H	1:A:428:LEU:HD13	1.48	0.78
1:B:197:LYS:HB3	1:B:355:ILE:HD12	1.63	0.78
1:C:134:LEU:HD22	1:C:392:LYS:HD2	1.66	0.78
1:C:170:LEU:HD22	1:C:358:VAL:CG1	2.12	0.78
1:C:377:ARG:HD3	1:C:377:ARG:N	1.93	0.78
1:E:35:VAL:HG23	1:E:35:VAL:O	1.80	0.78
1:F:377:ARG:HH21	1:F:377:ARG:CG	1.96	0.78
1:G:227:VAL:HG11	1:G:260:ASN:ND2	1.99	0.78
1:I:197:LYS:CB	1:I:355:ILE:CG2	2.61	0.78
1:K:469:PRO:HB2	1:K:472:VAL:CG2	2.13	0.78
1:L:105:ARG:HD3	1:L:106:LYS:N	1.97	0.78
1:L:192:LEU:HG	1:L:342:ALA:HB2	1.64	0.78
1:L:211:GLY:HA2	1:L:298:ALA:CB	2.13	0.78
1:N:130:LYS:NZ	1:N:134:LEU:HD11	1.98	0.78
1:O:254:ILE:CD1	1:O:276:LEU:HD11	2.13	0.78
1:A:96:ALA:CA	1:A:480:ALA:HB2	2.14	0.78
1:C:17:GLY:HA2	1:C:21:GLN:NE2	1.98	0.78
1:C:218:ARG:HG2	1:C:218:ARG:NH1	1.97	0.78
1:G:138:ILE:HD12	1:G:385:THR:CB	2.13	0.78
1:I:197:LYS:HA	1:I:355:ILE:CG2	2.13	0.78
1:J:234:LEU:HB3	1:J:292:MET:CE	2.13	0.78
1:J:368:VAL:CG1	1:J:469:PRO:HG2	2.14	0.78
1:K:233:ALA:CB	1:K:315:LEU:HD21	2.13	0.78
1:L:82:ALA:HB2	1:L:97:VAL:HG21	1.66	0.78
1:M:124:TYR:CD1	1:M:407:ALA:HB1	2.17	0.78
1:N:233:ALA:HB2	1:N:315:LEU:CD1	2.13	0.78
1:N:391:MET:HE1	1:N:438:ARG:CA	2.12	0.78
1:B:114:ASN:ND2	1:B:114:ASN:O	2.16	0.78
1:B:156:THR:O	1:B:156:THR:CG2	2.31	0.78
1:B:262:LEU:CD1	1:B:310:LEU:HD13	2.13	0.78
1:E:368:VAL:O	1:E:371:CYS:HB2	1.82	0.78
1:F:153:ILE:HG21	1:F:469:PRO:HG3	1.65	0.78
1:F:263:PHE:CD2	1:F:295:LEU:HD22	2.18	0.78
1:I:403:ARG:HH11	1:I:403:ARG:HG3	1.49	0.78
1:J:152:LYS:HG2	1:J:465:GLY:HA2	1.66	0.78
1:L:130:LYS:HE3	1:L:396:TYR:CD1	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:384:SER:CB	1:M:441:HIS:CE1	2.67	0.78
1:P:115:VAL:HG11	1:P:403:ARG:HD2	1.65	0.78
1:P:174:ILE:HD12	1:P:365:ALA:HB1	1.65	0.78
1:D:130:LYS:CE	1:D:393:LEU:HD23	2.13	0.78
1:D:158:ILE:HD13	1:D:170:LEU:HG	0.86	0.78
1:J:234:LEU:N	1:J:315:LEU:HD21	1.98	0.78
1:L:418:ILE:HB	1:L:419:PRO:HD3	1.64	0.78
1:N:254:ILE:HD13	1:N:262:LEU:HD11	1.64	0.78
1:B:233:ALA:HA	1:B:315:LEU:CD1	2.14	0.78
1:C:152:LYS:HD3	1:C:465:GLY:HA2	1.66	0.78
1:E:206:THR:HB	1:E:347:ILE:HG23	1.65	0.78
1:F:130:LYS:HD3	1:F:393:LEU:HD23	1.66	0.78
1:G:234:LEU:HD11	1:G:296:ALA:HB2	1.66	0.78
1:I:212:VAL:HG21	1:I:294:LYS:O	1.82	0.78
1:I:391:MET:HE3	1:I:438:ARG:CG	2.13	0.78
1:K:30:ILE:HG22	1:K:31:ILE:HD13	1.63	0.78
1:K:391:MET:CE	1:K:438:ARG:CB	2.61	0.78
1:M:223:MET:HG2	1:M:281:ILE:O	1.83	0.78
1:N:234:LEU:HB3	1:N:292:MET:HE1	1.66	0.78
1:N:384:SER:HB3	1:N:441:HIS:HE1	1.49	0.78
1:O:116:HIS:CB	1:O:117:PRO:HD2	2.12	0.78
1:O:124:TYR:CE1	1:O:407:ALA:HB1	2.19	0.78
1:P:150:LEU:HB3	1:P:175:VAL:HG21	1.65	0.78
1:A:166:ALA:C	1:A:170:LEU:HD22	2.08	0.78
1:C:206:THR:CG2	1:C:347:ILE:HG22	2.14	0.78
1:D:14:ARG:NH2	1:E:34:THR:HG23	1.98	0.78
1:D:25:ILE:HG22	1:D:26:LEU:N	1.99	0.78
1:F:345:MET:HE1	1:F:362:VAL:CG2	2.13	0.78
1:H:420:ARG:HH11	1:H:420:ARG:CG	1.90	0.78
1:J:391:MET:HE3	1:J:438:ARG:CG	2.14	0.78
1:K:124:TYR:CE1	1:K:407:ALA:HB1	2.19	0.78
1:M:39:LEU:CG	1:M:40:GLY:H	1.97	0.78
1:M:197:LYS:HB3	1:M:355:ILE:HG21	1.66	0.78
1:D:396:TYR:CG	1:D:396:TYR:O	2.36	0.78
1:E:89:VAL:O	1:E:89:VAL:CG2	2.32	0.78
1:F:82:ALA:HB2	1:F:97:VAL:HG21	1.64	0.78
1:H:351:THR:HG23	1:H:352:GLU:H	1.48	0.78
1:J:232:ILE:O	1:J:315:LEU:HB3	1.84	0.78
1:K:130:LYS:NZ	1:K:393:LEU:HD23	1.99	0.78
1:L:192:LEU:CB	1:L:342:ALA:HB2	2.14	0.78
1:L:209:ILE:HD11	1:L:213:LEU:HB2	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:119:ILE:CG1	1:M:403:ARG:HD3	2.09	0.78
1:M:420:ARG:HH11	1:M:420:ARG:CA	1.97	0.78
1:N:351:THR:O	1:N:355:ILE:HG13	1.84	0.78
1:N:380:SER:HB2	1:N:384:SER:HB2	1.66	0.78
1:A:124:TYR:CD1	1:A:407:ALA:HB1	2.19	0.78
1:C:119:ILE:HG13	1:C:403:ARG:HD2	1.66	0.78
1:C:459:GLU:OE1	1:C:461:MET:HE1	1.84	0.78
1:D:233:ALA:CA	1:D:315:LEU:CD1	2.61	0.78
1:E:368:VAL:HB	1:E:469:PRO:HB3	1.65	0.78
1:F:103:LEU:HD21	1:F:411:PHE:CD2	2.18	0.78
1:F:130:LYS:HD3	1:F:393:LEU:CD2	2.14	0.78
1:F:299:THR:HG23	1:F:334:VAL:HG11	1.63	0.78
1:H:42:LYS:CE	1:H:426:ALA:HB2	2.12	0.78
1:L:124:TYR:CD1	1:L:407:ALA:HB1	2.19	0.78
1:M:178:VAL:HG11	1:M:366:VAL:HG22	1.66	0.78
1:M:368:VAL:HB	1:M:469:PRO:HG2	1.65	0.78
1:N:138:ILE:CD1	1:N:385:THR:HB	2.12	0.78
1:O:418:ILE:HG22	1:O:419:PRO:CD	2.14	0.78
1:P:64:ILE:HG23	1:P:65:LEU:HD13	1.65	0.78
1:D:73:PRO:HB2	1:E:47:MET:CE	2.15	0.77
1:D:170:LEU:HD11	1:D:361:ALA:CB	2.14	0.77
1:D:383:GLY:HA2	1:D:386:GLU:CG	2.14	0.77
1:F:345:MET:CE	1:F:362:VAL:HG21	2.14	0.77
1:H:351:THR:HG23	1:H:352:GLU:N	1.98	0.77
1:J:368:VAL:HB	1:J:469:PRO:CG	2.14	0.77
1:J:391:MET:CE	1:J:438:ARG:CB	2.60	0.77
1:N:115:VAL:HG23	1:N:403:ARG:NE	1.99	0.77
1:P:14:ARG:HD2	1:P:494:ILE:HD13	1.63	0.77
1:A:115:VAL:HG21	1:A:403:ARG:NE	1.99	0.77
1:A:134:LEU:HB3	1:A:392:LYS:HZ1	1.46	0.77
1:B:158:ILE:CD1	1:B:170:LEU:HB3	2.14	0.77
1:C:119:ILE:CG1	1:C:403:ARG:HD2	2.14	0.77
1:D:42:LYS:CG	1:D:425:ASN:HB2	2.13	0.77
1:G:291:ASP:O	1:G:295:LEU:HD12	1.84	0.77
1:K:227:VAL:HG11	1:K:260:ASN:OD1	1.83	0.77
1:L:48:LEU:HD23	1:M:494:ILE:HD12	1.65	0.77
1:M:42:LYS:CB	1:M:425:ASN:HB2	2.15	0.77
1:N:14:ARG:HD2	1:N:494:ILE:CD1	2.12	0.77
1:N:62:VAL:HG13	1:N:63:THR:H	1.48	0.77
1:A:118:THR:HG21	1:B:425:ASN:O	1.84	0.77
1:D:31:ILE:CG2	1:D:65:LEU:HD21	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:174:ILE:HD12	1:D:365:ALA:HB1	1.67	0.77
1:D:233:ALA:HA	1:D:315:LEU:CG	2.14	0.77
1:E:234:LEU:HB3	1:E:292:MET:HE3	1.65	0.77
1:F:14:ARG:NH1	1:G:34:THR:HA	1.98	0.77
1:G:234:LEU:N	1:G:315:LEU:HD11	1.99	0.77
1:G:449:ALA:HB2	1:G:458:VAL:CG2	2.15	0.77
1:I:77:MET:HE3	1:I:487:LEU:HD21	1.63	0.77
1:I:477:ILE:O	1:I:477:ILE:CG2	2.33	0.77
1:L:235:LEU:HD13	1:L:264:CYS:HB3	1.64	0.77
1:N:31:ILE:HG21	1:N:65:LEU:HD21	1.65	0.77
1:O:166:ALA:HB2	1:O:203:ILE:CB	2.14	0.77
1:P:25:ILE:HG22	1:P:26:LEU:N	2.00	0.77
1:P:153:ILE:HG21	1:P:469:PRO:HG3	1.66	0.77
1:A:26:LEU:O	1:A:30:ILE:HG13	1.84	0.77
1:C:380:SER:HB3	1:C:384:SER:CB	2.14	0.77
1:C:401:SER:OG	1:L:435:VAL:HG11	1.85	0.77
1:C:403:ARG:CG	1:C:403:ARG:NH1	2.42	0.77
1:E:122:LYS:HA	1:E:125:GLN:CD	2.09	0.77
1:J:150:LEU:HD23	1:J:175:VAL:HG13	1.64	0.77
1:K:391:MET:CE	1:K:438:ARG:HB3	2.12	0.77
1:M:130:LYS:HE2	1:M:393:LEU:CD2	2.15	0.77
1:M:377:ARG:CZ	1:M:377:ARG:HB2	2.10	0.77
1:N:276:LEU:HD23	1:N:281:ILE:HG21	1.64	0.77
1:A:62:VAL:HG13	1:A:63:THR:N	1.94	0.77
1:A:431:ILE:HD13	1:J:403:ARG:HG2	1.64	0.77
1:C:494:ILE:HD12	1:D:48:LEU:HD11	1.65	0.77
1:D:379:VAL:HG11	1:D:473:LYS:HG3	1.65	0.77
1:E:262:LEU:CD1	1:E:310:LEU:HD21	2.13	0.77
1:F:254:ILE:HD13	1:F:262:LEU:HD11	1.66	0.77
1:G:401:SER:OG	1:P:435:VAL:HG11	1.84	0.77
1:H:138:ILE:HD13	1:H:385:THR:CG2	2.14	0.77
1:J:174:ILE:HD12	1:J:365:ALA:HB1	1.66	0.77
1:M:195:ILE:HB	1:M:359:ALA:CB	2.14	0.77
1:N:232:ILE:HG13	1:N:261:VAL:HG11	1.65	0.77
1:O:26:LEU:O	1:O:30:ILE:HG13	1.84	0.77
1:B:403:ARG:CG	1:B:403:ARG:HH11	1.94	0.77
1:G:85:GLN:OE1	1:G:476:ALA:HB2	1.85	0.77
1:L:362:VAL:O	1:L:366:VAL:HG23	1.84	0.77
1:M:135:LEU:HD11	1:M:389:LEU:HD11	1.66	0.77
1:N:469:PRO:HB2	1:N:472:VAL:CG1	2.14	0.77
1:O:276:LEU:HD12	1:O:281:ILE:CD1	2.12	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:400:ILE:HD11	1:E:408:VAL:HG11	1.67	0.77
1:G:368:VAL:HB	1:G:469:PRO:CB	2.14	0.77
1:J:134:LEU:CD1	1:J:393:LEU:HD21	2.13	0.77
1:J:368:VAL:HB	1:J:469:PRO:HG3	1.65	0.77
1:L:130:LYS:HZ2	1:L:134:LEU:CD1	1.89	0.77
1:B:115:VAL:CG1	1:B:403:ARG:HE	1.97	0.77
1:B:431:ILE:CD1	1:K:406:LEU:HD11	2.15	0.77
1:C:72:HIS:O	1:C:75:ALA:HB3	1.84	0.77
1:D:170:LEU:HD22	1:D:358:VAL:CG1	2.11	0.77
1:E:368:VAL:HG21	1:E:469:PRO:HG3	1.65	0.77
1:F:235:LEU:CD2	1:F:262:LEU:HD21	2.15	0.77
1:G:174:ILE:HD12	1:G:365:ALA:HB1	1.66	0.77
1:G:194:LYS:HG2	1:G:195:ILE:H	1.50	0.77
1:H:35:VAL:HG12	1:H:38:THR:OG1	1.84	0.77
1:H:103:LEU:HD21	1:H:411:PHE:CD2	2.20	0.77
1:K:473:LYS:HB2	1:K:473:LYS:HZ2	1.48	0.77
1:M:299:THR:CG2	1:M:334:VAL:HG11	2.13	0.77
1:N:254:ILE:HD13	1:N:262:LEU:CD1	2.15	0.77
1:A:251:VAL:HG11	1:A:276:LEU:HD22	1.66	0.77
1:B:135:LEU:HA	1:B:138:ILE:HD13	1.67	0.77
1:C:119:ILE:CD1	1:C:403:ARG:HD2	2.14	0.77
1:D:227:VAL:HG11	1:D:260:ASN:CG	2.10	0.77
1:E:403:ARG:HB3	1:E:406:LEU:HD12	1.64	0.77
1:K:234:LEU:H	1:K:315:LEU:HD11	1.48	0.77
1:K:311:SER:O	1:K:315:LEU:HD22	1.85	0.77
1:L:48:LEU:CB	1:L:56:VAL:HG21	2.12	0.77
1:M:166:ALA:HB3	1:M:203:ILE:HB	1.67	0.77
1:M:170:LEU:HD22	1:M:358:VAL:CG1	2.15	0.77
1:N:39:LEU:HG	1:N:40:GLY:H	1.50	0.77
1:B:14:ARG:HH12	1:C:34:THR:CA	1.98	0.77
1:C:124:TYR:HE1	1:C:407:ALA:CB	1.97	0.77
1:E:431:ILE:HD13	1:N:403:ARG:HD3	1.66	0.77
1:F:114:ASN:O	1:F:114:ASN:ND2	2.17	0.77
1:F:234:LEU:CD1	1:F:296:ALA:HB2	2.14	0.77
1:G:177:ALA:HB2	1:G:208:LEU:HD11	1.67	0.77
1:N:124:TYR:HD1	1:N:407:ALA:HB1	1.50	0.77
1:O:234:LEU:H	1:O:315:LEU:HD21	1.50	0.77
1:E:42:LYS:CB	1:E:425:ASN:HB2	2.15	0.76
1:E:368:VAL:HB	1:E:469:PRO:CG	2.14	0.76
1:E:396:TYR:CD2	1:E:396:TYR:O	2.39	0.76
1:F:150:LEU:HD23	1:F:175:VAL:HG13	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:116:HIS:ND1	1:G:117:PRO:HD2	1.99	0.76
1:I:102:GLU:OE2	1:I:417:VAL:HG11	1.85	0.76
1:M:368:VAL:CB	1:M:469:PRO:HG3	2.14	0.76
1:N:170:LEU:HD11	1:N:358:VAL:HG22	1.65	0.76
1:O:27:ALA:HA	1:O:30:ILE:HD12	1.65	0.76
1:O:30:ILE:HG22	1:O:31:ILE:HD13	1.67	0.76
1:O:81:VAL:HG11	1:O:483:SER:HB3	1.66	0.76
1:O:129:GLN:O	1:O:132:GLN:HB2	1.84	0.76
1:O:150:LEU:HD23	1:O:175:VAL:HG13	1.67	0.76
1:O:156:THR:O	1:O:156:THR:CG2	2.33	0.76
1:A:369:VAL:O	1:A:369:VAL:HG12	1.85	0.76
1:C:119:ILE:CG2	1:C:403:ARG:HB3	2.11	0.76
1:D:262:LEU:CD1	1:D:310:LEU:CD1	2.63	0.76
1:E:206:THR:HG22	1:E:348:ARG:N	1.97	0.76
1:G:123:GLY:HA3	1:G:407:ALA:CB	2.15	0.76
1:I:33:GLU:O	1:I:36:ARG:HG2	1.84	0.76
1:I:123:GLY:HA3	1:I:407:ALA:HB2	1.66	0.76
1:J:89:VAL:O	1:J:89:VAL:HG23	1.85	0.76
1:K:81:VAL:HG11	1:K:483:SER:HB3	1.66	0.76
1:A:38:THR:HG23	1:A:46:LYS:NZ	2.01	0.76
1:A:206:THR:HG22	1:A:348:ARG:N	2.00	0.76
1:B:391:MET:CE	1:B:438:ARG:HB3	2.16	0.76
1:G:406:LEU:HD11	1:P:431:ILE:CD1	2.16	0.76
1:H:138:ILE:HD13	1:H:385:THR:HG23	1.65	0.76
1:H:233:ALA:HA	1:H:315:LEU:CD2	2.14	0.76
1:I:82:ALA:HB2	1:I:97:VAL:HG21	1.67	0.76
1:I:178:VAL:HG22	1:I:366:VAL:HG13	1.67	0.76
1:J:193:ILE:HD12	1:J:366:VAL:CG1	2.15	0.76
1:L:124:TYR:HE1	1:L:407:ALA:CA	1.98	0.76
1:N:206:THR:HG22	1:N:348:ARG:N	2.00	0.76
1:O:377:ARG:HG2	1:O:470:LEU:HD12	1.66	0.76
1:A:166:ALA:HB3	1:A:170:LEU:CD2	2.16	0.76
1:B:124:TYR:CD1	1:B:407:ALA:HB1	2.21	0.76
1:C:96:ALA:CA	1:C:480:ALA:HB2	2.15	0.76
1:G:402:GLY:O	1:P:431:ILE:HD11	1.85	0.76
1:K:400:ILE:HD11	1:K:408:VAL:CG2	2.15	0.76
1:L:134:LEU:HB3	1:L:392:LYS:HE3	1.68	0.76
1:N:100:ALA:HB1	1:N:484:THR:HG21	0.82	0.76
1:N:156:THR:HG21	1:N:468:GLU:CB	2.15	0.76
1:N:268:ILE:HG21	1:N:273:GLN:HG3	1.68	0.76
1:O:132:GLN:HE22	1:O:478:GLN:NE2	1.83	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:170:LEU:HD11	1:P:358:VAL:HG11	1.65	0.76
1:P:391:MET:HE3	1:P:438:ARG:HB3	1.66	0.76
1:A:197:LYS:HA	1:A:355:ILE:HG21	1.66	0.76
1:D:42:LYS:HB3	1:D:425:ASN:CB	2.15	0.76
1:D:127:ALA:HB2	1:D:408:VAL:HG12	1.66	0.76
1:E:33:GLU:HA	1:E:36:ARG:HE	1.50	0.76
1:G:62:VAL:HG13	1:G:63:THR:H	1.50	0.76
1:G:234:LEU:H	1:G:315:LEU:CD1	1.99	0.76
1:I:368:VAL:CG2	1:I:469:PRO:HG3	2.15	0.76
1:M:36:ARG:HG2	1:M:37:SER:N	1.99	0.76
1:O:192:LEU:HB2	1:O:342:ALA:CB	2.14	0.76
1:O:379:VAL:CG1	1:O:473:LYS:HG3	2.14	0.76
1:B:34:THR:HB	1:B:35:VAL:HG22	1.67	0.76
1:B:351:THR:HG23	1:B:352:GLU:N	2.01	0.76
1:C:158:ILE:CD1	1:C:170:LEU:HB2	2.16	0.76
1:D:431:ILE:HD12	1:M:406:LEU:CD2	2.15	0.76
1:F:235:LEU:HD13	1:F:310:LEU:CD1	2.16	0.76
1:G:17:GLY:O	1:G:21:GLN:HG3	1.85	0.76
1:K:158:ILE:HG13	1:K:361:ALA:HB1	1.65	0.76
1:K:276:LEU:HD13	1:K:281:ILE:HD12	1.68	0.76
1:K:384:SER:CB	1:K:441:HIS:HE1	1.99	0.76
1:N:193:ILE:HD12	1:N:366:VAL:HG21	1.67	0.76
1:O:35:VAL:CG1	1:O:46:LYS:HE3	2.15	0.76
1:P:115:VAL:HG11	1:P:403:ARG:CD	2.16	0.76
1:P:276:LEU:CD2	1:P:281:ILE:HD12	2.10	0.76
1:A:127:ALA:HB2	1:A:408:VAL:HG12	1.67	0.76
1:B:233:ALA:HB2	1:B:315:LEU:CD2	2.16	0.76
1:G:435:VAL:HG11	1:P:401:SER:CB	2.15	0.76
1:I:130:LYS:HD3	1:I:396:TYR:CD1	2.20	0.76
1:I:158:ILE:HG12	1:I:361:ALA:HB1	1.65	0.76
1:M:405:GLN:O	1:M:409:ARG:HG3	1.85	0.76
1:N:368:VAL:HA	1:N:371:CYS:SG	2.26	0.76
1:A:233:ALA:CA	1:A:315:LEU:HG	2.15	0.76
1:A:251:VAL:CG1	1:A:276:LEU:HD22	2.16	0.76
1:A:267:GLY:O	1:A:268:ILE:HG12	1.85	0.76
1:B:124:TYR:HE1	1:B:407:ALA:HA	1.50	0.76
1:B:212:VAL:HG21	1:B:294:LYS:HB3	1.68	0.76
1:E:42:LYS:HG3	1:E:425:ASN:C	2.10	0.76
1:E:473:LYS:NZ	1:E:473:LYS:CB	2.44	0.76
1:F:34:THR:HG22	1:F:35:VAL:CG1	2.14	0.76
1:G:138:ILE:HD12	1:G:385:THR:HB	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:299:THR:HG23	1:G:334:VAL:CG1	2.14	0.76
1:I:235:LEU:O	1:I:264:CYS:HA	1.85	0.76
1:J:276:LEU:HD12	1:J:281:ILE:HG21	0.85	0.76
1:O:31:ILE:H	1:O:31:ILE:CD1	1.99	0.76
1:D:100:ALA:CB	1:D:484:THR:HG21	2.08	0.76
1:E:397:ALA:HB2	1:E:408:VAL:CG2	2.15	0.76
1:F:155:MET:HE1	1:F:465:GLY:HA3	1.68	0.76
1:F:227:VAL:HG11	1:F:260:ASN:OD1	1.86	0.76
1:H:77:MET:HB3	1:H:487:LEU:HD13	1.68	0.76
1:I:232:ILE:HG13	1:I:261:VAL:CG1	2.16	0.76
1:L:206:THR:CG2	1:L:347:ILE:HA	2.16	0.76
1:L:394:ARG:HH22	1:L:413:ASP:CG	1.93	0.76
1:L:469:PRO:HB2	1:L:472:VAL:CG2	2.16	0.76
1:P:345:MET:HE1	1:P:362:VAL:CG1	2.16	0.76
1:A:14:ARG:HH22	1:B:34:THR:CA	1.88	0.76
1:A:235:LEU:O	1:A:264:CYS:HA	1.86	0.76
1:B:234:LEU:HD11	1:B:301:ALA:HB3	1.68	0.76
1:B:377:ARG:NE	1:B:470:LEU:HD12	2.01	0.76
1:C:178:VAL:CG2	1:C:366:VAL:HG22	2.15	0.76
1:C:197:LYS:CB	1:C:355:ILE:CG2	2.61	0.76
1:E:347:ILE:HG21	1:E:358:VAL:CG1	2.16	0.76
1:G:30:ILE:CG2	1:G:31:ILE:HD13	2.16	0.76
1:H:64:ILE:HG22	1:H:65:LEU:HG	1.68	0.76
1:J:135:LEU:CD2	1:J:389:LEU:HD11	2.15	0.76
1:J:235:LEU:HB2	1:J:264:CYS:HB3	1.66	0.76
1:J:368:VAL:HG11	1:J:469:PRO:CG	2.15	0.76
1:O:29:ARG:O	1:O:33:GLU:HG3	1.85	0.76
1:O:171:ALA:HA	1:O:174:ILE:CD1	2.15	0.76
1:A:431:ILE:CD1	1:J:403:ARG:CG	2.63	0.75
1:B:368:VAL:HB	1:B:469:PRO:HG2	1.68	0.75
1:D:257:SER:OG	1:D:311:SER:HA	1.85	0.75
1:E:232:ILE:HG13	1:E:261:VAL:HG11	1.68	0.75
1:F:115:VAL:HG11	1:F:403:ARG:HE	1.51	0.75
1:K:130:LYS:HZ3	1:K:134:LEU:CD1	1.90	0.75
1:L:234:LEU:H	1:L:315:LEU:HD21	1.50	0.75
1:L:254:ILE:HG21	1:L:262:LEU:CD1	2.16	0.75
1:M:48:LEU:N	1:M:48:LEU:HD23	2.00	0.75
1:M:208:LEU:CD1	1:M:343:VAL:HG21	2.15	0.75
1:M:219:VAL:HG11	1:M:268:ILE:HD12	1.68	0.75
1:C:115:VAL:HG21	1:C:403:ARG:CD	2.16	0.75
1:C:431:ILE:O	1:C:431:ILE:CG1	2.32	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:85:GLN:CD	1:G:476:ALA:HB2	2.11	0.75
1:G:134:LEU:HD22	1:G:392:LYS:HE3	1.66	0.75
1:H:276:LEU:HD22	1:H:281:ILE:CG2	2.15	0.75
1:I:129:GLN:O	1:I:132:GLN:HB2	1.86	0.75
1:K:263:PHE:CD2	1:K:295:LEU:HD22	2.21	0.75
1:L:234:LEU:HB3	1:L:292:MET:CE	2.16	0.75
1:N:299:THR:CG2	1:N:334:VAL:HG11	2.16	0.75
1:O:369:VAL:O	1:O:373:ILE:HG12	1.86	0.75
1:A:234:LEU:HD22	1:A:301:ALA:CB	2.16	0.75
1:B:124:TYR:CE1	1:B:407:ALA:HB1	2.21	0.75
1:C:14:ARG:NH2	1:D:34:THR:HB	2.01	0.75
1:C:21:GLN:O	1:C:25:ILE:HG13	1.85	0.75
1:D:38:THR:HG22	1:D:59:ASN:HD22	1.51	0.75
1:F:254:ILE:HG21	1:F:262:LEU:HD12	1.69	0.75
1:H:263:PHE:CE1	1:H:332:ILE:HG21	2.21	0.75
1:J:42:LYS:HD2	1:J:426:ALA:N	2.01	0.75
1:J:368:VAL:HG21	1:J:469:PRO:HG2	1.66	0.75
1:L:119:ILE:CG1	1:L:403:ARG:HD2	2.16	0.75
1:L:206:THR:CG2	1:L:348:ARG:H	1.96	0.75
1:M:233:ALA:HB1	1:M:310:LEU:CD2	2.15	0.75
1:O:140:CYS:HB3	1:O:446:ASN:HB2	1.68	0.75
1:D:170:LEU:HD11	1:D:361:ALA:HB3	1.69	0.75
1:E:124:TYR:CD1	1:E:407:ALA:HB1	2.20	0.75
1:E:459:GLU:CG	1:E:461:MET:HE2	2.15	0.75
1:F:119:ILE:HG13	1:F:403:ARG:HD3	0.86	0.75
1:F:276:LEU:HD13	1:F:281:ILE:HD12	1.69	0.75
1:J:235:LEU:HD21	1:J:310:LEU:HB3	1.68	0.75
1:K:134:LEU:HD12	1:K:393:LEU:HD11	1.68	0.75
1:K:368:VAL:CG2	1:K:469:PRO:HG2	2.17	0.75
1:L:77:MET:CE	1:L:486:MET:CE	2.65	0.75
1:L:115:VAL:CB	1:L:403:ARG:HE	1.99	0.75
1:M:206:THR:HG21	1:M:347:ILE:HG23	1.69	0.75
1:N:130:LYS:HD3	1:N:396:TYR:CD1	2.21	0.75
1:N:197:LYS:HA	1:N:355:ILE:HG21	1.67	0.75
1:P:42:LYS:HE2	1:P:426:ALA:HA	1.66	0.75
1:P:117:PRO:O	1:P:120:VAL:HG12	1.85	0.75
1:B:138:ILE:CD1	1:B:385:THR:HG23	2.16	0.75
1:D:130:LYS:HD2	1:D:396:TYR:CG	2.22	0.75
1:D:152:LYS:NZ	1:D:462:CYS:HB3	2.01	0.75
1:E:122:LYS:HG3	1:E:125:GLN:HE22	1.50	0.75
1:E:218:ARG:NE	1:E:282:VAL:HG21	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:129:GLN:O	1:F:132:GLN:HB2	1.87	0.75
1:I:124:TYR:N	1:I:124:TYR:CD1	2.50	0.75
1:K:276:LEU:CD1	1:K:281:ILE:HD12	2.17	0.75
1:M:105:ARG:HD2	1:M:106:LYS:N	2.02	0.75
1:M:387:VAL:HG21	1:M:437:VAL:CG1	2.17	0.75
1:N:371:CYS:HB2	1:N:471:ARG:HD2	1.67	0.75
1:N:437:VAL:HG13	1:N:449:ALA:O	1.87	0.75
1:O:152:LYS:HG2	1:O:467:VAL:HG23	1.66	0.75
1:P:197:LYS:HA	1:P:355:ILE:CG2	2.16	0.75
1:P:218:ARG:HG3	1:P:323:GLU:HB2	1.68	0.75
1:P:377:ARG:HD2	1:P:470:LEU:HD11	1.68	0.75
1:A:438:ARG:HH22	1:J:405:GLN:HE22	1.33	0.75
1:B:86:GLU:O	1:B:86:GLU:CD	2.30	0.75
1:B:134:LEU:CB	1:B:392:LYS:HZ1	1.91	0.75
1:B:235:LEU:O	1:B:264:CYS:HA	1.86	0.75
1:C:223:MET:HE1	1:C:283:ALA:HB3	1.69	0.75
1:E:100:ALA:HB1	1:E:484:THR:CG2	2.11	0.75
1:E:234:LEU:HD11	1:E:301:ALA:HB3	1.68	0.75
1:E:431:ILE:HD11	1:N:403:ARG:CG	2.15	0.75
1:F:38:THR:HG22	1:F:59:ASN:HB2	1.69	0.75
1:H:42:LYS:HZ3	1:H:426:ALA:HB2	1.52	0.75
1:L:197:LYS:HA	1:L:355:ILE:CG2	2.15	0.75
1:M:81:VAL:HG11	1:M:483:SER:HB3	1.68	0.75
1:M:197:LYS:HB3	1:M:355:ILE:CG2	2.17	0.75
1:O:195:ILE:HB	1:O:359:ALA:CB	2.17	0.75
1:O:254:ILE:HG23	1:O:259:ALA:CB	2.16	0.75
1:P:42:LYS:HG3	1:P:426:ALA:N	2.02	0.75
1:A:178:VAL:HG22	1:A:193:ILE:HD11	1.67	0.75
1:A:276:LEU:HD12	1:A:281:ILE:CD1	2.16	0.75
1:F:223:MET:CE	1:F:283:ALA:HB3	2.17	0.75
1:G:262:LEU:CD1	1:G:310:LEU:CD2	2.61	0.75
1:I:119:ILE:HG13	1:I:403:ARG:HD2	1.69	0.75
1:I:130:LYS:HZ3	1:I:393:LEU:HD23	1.52	0.75
1:K:124:TYR:CE1	1:K:407:ALA:HA	2.21	0.75
1:L:72:HIS:O	1:L:75:ALA:HB3	1.86	0.75
1:L:383:GLY:HA2	1:L:386:GLU:HG3	1.67	0.75
1:M:156:THR:HG21	1:M:468:GLU:CA	2.16	0.75
1:C:368:VAL:HB	1:C:469:PRO:HB3	1.68	0.75
1:D:120:VAL:HG21	1:D:488:LEU:CD1	2.17	0.75
1:D:152:LYS:HZ3	1:D:462:CYS:HB3	1.50	0.75
1:D:473:LYS:HA	1:D:473:LYS:HE3	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:117:PRO:O	1:E:120:VAL:HG13	1.87	0.75
1:G:134:LEU:CD2	1:G:392:LYS:HE3	2.17	0.75
1:H:156:THR:HB	1:H:467:VAL:O	1.86	0.75
1:K:81:VAL:HG11	1:K:483:SER:CB	2.16	0.75
1:K:170:LEU:CD2	1:K:358:VAL:HG11	2.16	0.75
1:L:197:LYS:HB3	1:L:355:ILE:HG21	1.66	0.75
1:N:391:MET:CE	1:N:438:ARG:HB2	2.17	0.75
1:O:78:LEU:HD12	1:O:487:LEU:HD11	1.69	0.75
1:P:104:LEU:HD23	1:P:488:LEU:HD12	1.68	0.75
1:A:25:ILE:HD13	1:A:108:GLU:HG3	1.67	0.75
1:B:130:LYS:HZ3	1:B:393:LEU:HD23	1.51	0.75
1:C:403:ARG:N	1:L:431:ILE:HD11	2.01	0.75
1:E:119:ILE:HG21	1:E:403:ARG:HB2	1.68	0.75
1:I:158:ILE:HG13	1:I:361:ALA:HB1	1.69	0.75
1:J:125:GLN:O	1:J:129:GLN:HG3	1.86	0.75
1:J:233:ALA:CA	1:J:315:LEU:HD13	2.16	0.75
1:J:368:VAL:HA	1:J:371:CYS:SG	2.27	0.75
1:M:130:LYS:HZ3	1:M:396:TYR:HB2	1.50	0.75
1:M:212:VAL:HG23	1:M:298:ALA:HB2	1.69	0.75
1:M:369:VAL:O	1:M:369:VAL:HG12	1.85	0.75
1:N:391:MET:HE1	1:N:438:ARG:CB	2.17	0.75
1:O:387:VAL:HG21	1:O:437:VAL:HG12	1.68	0.75
1:A:400:ILE:HD11	1:A:408:VAL:CG2	2.17	0.74
1:C:197:LYS:HA	1:C:355:ILE:CG2	2.17	0.74
1:E:389:LEU:HD13	1:E:415:LEU:CD1	2.16	0.74
1:E:396:TYR:O	1:E:396:TYR:CG	2.39	0.74
1:F:72:HIS:O	1:F:75:ALA:HB3	1.87	0.74
1:G:347:ILE:HG21	1:G:358:VAL:HB	1.67	0.74
1:H:35:VAL:HA	1:H:46:LYS:HZ3	1.49	0.74
1:I:152:LYS:CD	1:I:465:GLY:HA2	2.16	0.74
1:J:34:THR:HB	1:K:14:ARG:NH2	2.01	0.74
1:J:138:ILE:HD13	1:J:385:THR:OG1	1.86	0.74
1:J:218:ARG:CZ	1:J:282:VAL:HG21	2.17	0.74
1:K:206:THR:HG22	1:K:348:ARG:H	1.50	0.74
1:K:234:LEU:HB3	1:K:292:MET:HE1	1.67	0.74
1:K:262:LEU:HD12	1:K:310:LEU:CD1	2.17	0.74
1:L:63:THR:HA	1:L:66:ARG:HB2	1.69	0.74
1:N:129:GLN:O	1:N:132:GLN:HB2	1.87	0.74
1:O:124:TYR:CE1	1:O:407:ALA:CA	2.70	0.74
1:P:119:ILE:HG13	1:P:403:ARG:HH11	1.51	0.74
1:P:124:TYR:CD1	1:P:124:TYR:N	2.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:276:LEU:HD12	1:C:281:ILE:CG2	2.07	0.74
1:I:431:ILE:O	1:I:431:ILE:HG12	1.84	0.74
1:J:156:THR:HG22	1:J:467:VAL:C	2.12	0.74
1:O:251:VAL:CG1	1:O:276:LEU:HD13	2.18	0.74
1:P:102:GLU:HG2	1:P:417:VAL:HG11	1.68	0.74
1:A:34:THR:CA	1:H:14:ARG:HH22	2.00	0.74
1:E:197:LYS:CB	1:E:355:ILE:CG2	2.65	0.74
1:G:42:LYS:HG3	1:G:425:ASN:HB2	1.67	0.74
1:G:89:VAL:HG11	1:G:472:VAL:HG12	1.69	0.74
1:H:254:ILE:HD13	1:H:262:LEU:HD13	1.69	0.74
1:I:116:HIS:CE1	1:I:117:PRO:HG2	2.23	0.74
1:K:420:ARG:CD	1:K:430:ALA:HB3	2.17	0.74
1:L:96:ALA:CA	1:L:480:ALA:HB2	2.17	0.74
1:M:134:LEU:HD11	1:M:393:LEU:CD2	2.17	0.74
1:P:150:LEU:HD23	1:P:175:VAL:HG13	1.68	0.74
1:A:42:LYS:HB2	1:A:425:ASN:HD22	1.53	0.74
1:A:111:LEU:CD2	1:A:117:PRO:HB3	2.18	0.74
1:C:384:SER:CB	1:C:441:HIS:HE1	1.99	0.74
1:D:31:ILE:HG21	1:D:65:LEU:HD11	1.67	0.74
1:H:152:LYS:HB3	1:H:467:VAL:HG23	1.69	0.74
1:H:299:THR:HG22	1:H:318:ALA:HB2	1.70	0.74
1:I:223:MET:CE	1:I:283:ALA:HB3	2.17	0.74
1:J:119:ILE:HD12	1:J:403:ARG:CG	2.16	0.74
1:J:391:MET:HE1	1:J:438:ARG:CB	2.14	0.74
1:M:195:ILE:H	1:M:195:ILE:CD1	1.92	0.74
1:N:134:LEU:HD12	1:N:393:LEU:CD2	2.17	0.74
1:O:77:MET:CE	1:O:486:MET:HE1	2.18	0.74
1:P:134:LEU:HD11	1:P:393:LEU:HD21	1.67	0.74
1:A:124:TYR:HE1	1:A:407:ALA:HA	1.51	0.74
1:A:276:LEU:HD12	1:A:281:ILE:HD12	1.69	0.74
1:A:431:ILE:CD1	1:J:403:ARG:HG2	2.18	0.74
1:C:34:THR:HG22	1:C:35:VAL:N	2.01	0.74
1:F:299:THR:HG23	1:F:334:VAL:HG13	1.67	0.74
1:I:232:ILE:O	1:I:315:LEU:HB3	1.88	0.74
1:L:262:LEU:HG	1:L:310:LEU:HD21	1.70	0.74
1:L:469:PRO:HB2	1:L:472:VAL:HG23	1.69	0.74
1:M:170:LEU:HD22	1:M:358:VAL:HG13	1.67	0.74
1:N:34:THR:HA	1:O:14:ARG:NH2	2.00	0.74
1:O:34:THR:CG2	1:P:14:ARG:HH22	1.99	0.74
1:P:38:THR:HB	1:P:59:ASN:HD22	1.52	0.74
1:A:48:LEU:CD2	1:H:494:ILE:HD12	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:435:VAL:HG11	1:J:401:SER:OG	1.88	0.74
1:D:45:ASP:C	1:D:46:LYS:HG3	2.11	0.74
1:D:387:VAL:O	1:D:390:SER:HB3	1.87	0.74
1:J:166:ALA:HB2	1:J:203:ILE:HG21	1.68	0.74
1:J:441:HIS:ND1	1:J:449:ALA:HB3	2.03	0.74
1:N:208:LEU:HD11	1:N:343:VAL:HG21	1.69	0.74
1:O:77:MET:HA	1:O:80:GLU:OE1	1.87	0.74
1:O:158:ILE:HG12	1:O:361:ALA:HB1	1.68	0.74
1:A:234:LEU:HD22	1:A:301:ALA:HB3	1.69	0.74
1:E:46:LYS:HB2	1:E:58:THR:O	1.88	0.74
1:F:212:VAL:HB	1:F:298:ALA:HB3	1.70	0.74
1:G:130:LYS:HG2	1:G:393:LEU:HD21	1.68	0.74
1:I:85:GLN:NE2	1:I:476:ALA:HA	2.02	0.74
1:I:218:ARG:NH1	1:I:282:VAL:HG21	2.03	0.74
1:M:234:LEU:HB3	1:M:292:MET:HE2	1.70	0.74
1:N:420:ARG:HG2	1:N:420:ARG:HH11	1.51	0.74
1:O:34:THR:HB	1:P:14:ARG:NH2	2.02	0.74
1:O:42:LYS:HG3	1:O:426:ALA:H	1.52	0.74
1:P:158:ILE:HB	1:P:361:ALA:HB1	1.70	0.74
1:A:153:ILE:HD11	1:A:372:THR:OG1	1.87	0.74
1:B:39:LEU:CD1	1:B:40:GLY:H	1.98	0.74
1:D:38:THR:HG21	1:D:46:LYS:HD2	1.70	0.74
1:D:60:ASP:O	1:D:64:ILE:HG13	1.88	0.74
1:E:234:LEU:CD1	1:E:301:ALA:HB1	2.18	0.74
1:F:262:LEU:CD1	1:F:310:LEU:HD21	2.18	0.74
1:H:130:LYS:CG	1:H:393:LEU:CD1	2.64	0.74
1:H:139:ALA:HB2	1:H:470:LEU:HD21	1.68	0.74
1:I:156:THR:CG2	1:I:468:GLU:HB3	2.16	0.74
1:I:391:MET:HE1	1:I:438:ARG:HB3	1.68	0.74
1:J:233:ALA:HA	1:J:315:LEU:CD1	2.16	0.74
1:L:62:VAL:HG13	1:L:63:THR:H	1.53	0.74
1:M:233:ALA:HB1	1:M:310:LEU:HD11	1.70	0.74
1:A:232:ILE:HG13	1:A:261:VAL:HG11	1.70	0.74
1:D:227:VAL:HG11	1:D:260:ASN:OD1	1.88	0.74
1:D:276:LEU:HD12	1:D:281:ILE:HD12	1.70	0.74
1:E:122:LYS:HG3	1:E:125:GLN:NE2	2.02	0.74
1:E:405:GLN:HE22	1:N:438:ARG:HH22	1.33	0.74
1:I:174:ILE:HD12	1:I:365:ALA:HB1	1.69	0.74
1:J:138:ILE:HD13	1:J:379:VAL:HG21	1.69	0.74
1:J:171:ALA:HA	1:J:174:ILE:CD1	2.16	0.74
1:K:387:VAL:HG21	1:K:437:VAL:HG12	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:82:ALA:HB1	1:L:93:THR:HG22	1.68	0.74
1:L:233:ALA:CA	1:L:315:LEU:HD22	2.18	0.74
1:L:380:SER:HB2	1:L:384:SER:HB2	1.70	0.74
1:M:134:LEU:CD1	1:M:393:LEU:CD2	2.66	0.74
1:O:156:THR:O	1:O:156:THR:HG23	1.88	0.74
1:D:120:VAL:CG2	1:D:488:LEU:HD11	2.18	0.74
1:D:170:LEU:CD2	1:D:358:VAL:HG13	2.14	0.74
1:D:418:ILE:N	1:D:418:ILE:CD1	2.51	0.74
1:F:152:LYS:CD	1:F:465:GLY:HA2	2.18	0.74
1:H:134:LEU:CD1	1:H:393:LEU:CD1	2.65	0.74
1:I:130:LYS:NZ	1:I:134:LEU:HD11	2.03	0.74
1:J:142:VAL:HG21	1:J:378:ILE:HD13	1.70	0.74
1:N:42:LYS:HB3	1:N:425:ASN:HB3	1.70	0.74
1:O:389:LEU:HD13	1:O:415:LEU:CD1	2.18	0.74
1:P:178:VAL:CG2	1:P:366:VAL:HG22	2.17	0.74
1:B:89:VAL:O	1:B:89:VAL:HG23	1.88	0.73
1:B:174:ILE:HD12	1:B:365:ALA:HB1	1.68	0.73
1:B:262:LEU:CD1	1:B:310:LEU:CD1	2.64	0.73
1:G:42:LYS:HZ2	1:G:426:ALA:CA	2.01	0.73
1:H:403:ARG:N	1:I:431:ILE:HD11	2.03	0.73
1:N:38:THR:HG22	1:N:59:ASN:HB2	1.70	0.73
1:N:42:LYS:HD2	1:N:426:ALA:N	2.03	0.73
1:O:190:LYS:NZ	1:O:367:GLY:HA2	2.02	0.73
1:A:239:ILE:CD1	1:A:251:VAL:HG22	2.17	0.73
1:C:119:ILE:HG21	1:C:403:ARG:CD	2.17	0.73
1:D:486:MET:HG2	1:D:487:LEU:N	2.01	0.73
1:F:431:ILE:HD13	1:O:406:LEU:HD11	1.69	0.73
1:H:129:GLN:O	1:H:132:GLN:HB2	1.87	0.73
1:I:178:VAL:O	1:I:178:VAL:HG12	1.88	0.73
1:K:97:VAL:O	1:K:100:ALA:HB3	1.87	0.73
1:L:212:VAL:HG21	1:L:294:LYS:C	2.14	0.73
1:N:135:LEU:HD21	1:N:385:THR:CG2	2.18	0.73
1:P:124:TYR:CE1	1:P:407:ALA:CA	2.69	0.73
1:B:227:VAL:HG11	1:B:260:ASN:OD1	1.87	0.73
1:C:30:ILE:HG22	1:C:31:ILE:HD13	1.69	0.73
1:D:77:MET:CE	1:D:486:MET:CE	2.66	0.73
1:D:82:ALA:HB2	1:D:97:VAL:HG21	1.69	0.73
1:D:403:ARG:HB3	1:M:431:ILE:CD1	2.17	0.73
1:F:170:LEU:HD21	1:F:358:VAL:CG2	2.16	0.73
1:F:233:ALA:CB	1:F:315:LEU:HD13	2.19	0.73
1:G:134:LEU:HD11	1:G:393:LEU:CD2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:195:ILE:HB	1:G:359:ALA:CB	2.17	0.73
1:H:304:ILE:HD13	1:H:310:LEU:HA	1.70	0.73
1:I:192:LEU:HG	1:I:342:ALA:HB2	1.71	0.73
1:I:208:LEU:HD22	1:I:343:VAL:CG2	2.18	0.73
1:J:391:MET:HE3	1:J:438:ARG:HD2	1.70	0.73
1:K:124:TYR:HE1	1:K:407:ALA:CB	2.00	0.73
1:K:391:MET:CE	1:K:438:ARG:CG	2.66	0.73
1:L:138:ILE:HD11	1:L:385:THR:HG23	1.69	0.73
1:M:158:ILE:HG12	1:M:361:ALA:HB1	1.70	0.73
1:M:233:ALA:CA	1:M:315:LEU:HD22	2.18	0.73
1:P:26:LEU:O	1:P:30:ILE:HG12	1.88	0.73
1:P:197:LYS:HB3	1:P:355:ILE:CG2	2.19	0.73
1:D:195:ILE:HB	1:D:359:ALA:CB	2.19	0.73
1:E:152:LYS:HG2	1:E:465:GLY:CA	2.18	0.73
1:E:156:THR:HG21	1:E:468:GLU:CB	2.15	0.73
1:F:371:CYS:HB2	1:F:471:ARG:HE	1.54	0.73
1:G:251:VAL:HG13	1:G:276:LEU:HD13	1.70	0.73
1:J:35:VAL:HG23	1:J:35:VAL:O	1.87	0.73
1:K:223:MET:HG2	1:K:281:ILE:O	1.88	0.73
1:K:377:ARG:HB3	1:K:470:LEU:HG	1.70	0.73
1:L:31:ILE:HG21	1:L:65:LEU:CD1	2.17	0.73
1:L:178:VAL:CG2	1:L:366:VAL:HG13	2.18	0.73
1:N:82:ALA:HB2	1:N:97:VAL:CG2	2.18	0.73
1:N:124:TYR:CE1	1:N:407:ALA:CA	2.69	0.73
1:P:178:VAL:CG2	1:P:366:VAL:HG13	2.17	0.73
1:P:414:ALA:O	1:P:417:VAL:HG12	1.89	0.73
1:A:251:VAL:HG13	1:A:276:LEU:CD1	2.19	0.73
1:A:369:VAL:O	1:A:373:ILE:HG12	1.88	0.73
1:B:254:ILE:HG22	1:B:259:ALA:HB3	1.70	0.73
1:C:262:LEU:HD11	1:C:310:LEU:CD2	2.01	0.73
1:D:321:VAL:HG22	1:D:334:VAL:HG13	1.70	0.73
1:M:195:ILE:N	1:M:195:ILE:CD1	2.50	0.73
1:N:384:SER:CB	1:N:441:HIS:CE1	2.67	0.73
1:O:391:MET:HE2	1:O:438:ARG:CA	2.19	0.73
1:P:84:THR:O	1:P:84:THR:HG23	1.87	0.73
1:A:34:THR:HB	1:A:35:VAL:HG22	1.71	0.73
1:B:119:ILE:CG1	1:B:403:ARG:HD2	2.11	0.73
1:B:123:GLY:HA3	1:B:407:ALA:CB	2.19	0.73
1:B:170:LEU:HD22	1:B:358:VAL:CG1	2.19	0.73
1:B:218:ARG:HG3	1:B:323:GLU:OE1	1.88	0.73
1:C:387:VAL:HG21	1:C:437:VAL:HG12	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:25:ILE:HD11	1:E:108:GLU:HG3	1.69	0.73
1:F:251:VAL:HG11	1:F:276:LEU:CD2	2.11	0.73
1:G:156:THR:CG2	1:G:467:VAL:C	2.61	0.73
1:G:251:VAL:HG11	1:G:276:LEU:HD22	1.68	0.73
1:H:105:ARG:HD3	1:H:106:LYS:HG2	1.70	0.73
1:K:77:MET:HB3	1:K:80:GLU:OE1	1.89	0.73
1:K:219:VAL:CG2	1:K:285:ARG:HB3	2.18	0.73
1:L:396:TYR:CG	1:L:396:TYR:O	2.40	0.73
1:N:31:ILE:CG2	1:N:65:LEU:HD21	2.19	0.73
1:N:420:ARG:HG2	1:N:420:ARG:NH1	2.04	0.73
1:P:124:TYR:HE1	1:P:407:ALA:C	1.95	0.73
1:A:30:ILE:HD12	1:A:31:ILE:CG1	2.19	0.73
1:A:152:LYS:HG2	1:A:465:GLY:HA2	1.68	0.73
1:D:34:THR:CG2	1:D:35:VAL:HG13	2.18	0.73
1:D:81:VAL:HG11	1:D:483:SER:HB2	1.70	0.73
1:H:459:GLU:HG2	1:H:461:MET:CE	2.18	0.73
1:I:38:THR:HG21	1:I:46:LYS:HE2	1.70	0.73
1:I:254:ILE:HG22	1:I:281:ILE:CD1	2.18	0.73
1:J:122:LYS:HA	1:J:125:GLN:CD	2.14	0.73
1:M:321:VAL:HG22	1:M:334:VAL:HG13	1.70	0.73
1:N:106:LYS:HA	1:N:106:LYS:CE	2.18	0.73
1:O:103:LEU:HD21	1:O:411:PHE:CE2	2.24	0.73
1:P:119:ILE:HG13	1:P:403:ARG:CG	2.19	0.73
1:B:391:MET:CE	1:B:438:ARG:CB	2.66	0.73
1:C:435:VAL:HG11	1:L:401:SER:HB3	1.70	0.73
1:D:389:LEU:HD13	1:D:415:LEU:HD21	1.69	0.73
1:E:153:ILE:CD1	1:E:372:THR:HG21	2.19	0.73
1:E:197:LYS:CB	1:E:355:ILE:HG21	2.19	0.73
1:E:403:ARG:O	1:E:406:LEU:HD12	1.89	0.73
1:G:21:GLN:O	1:G:25:ILE:HG12	1.88	0.73
1:J:170:LEU:HD22	1:J:358:VAL:CG1	2.19	0.73
1:K:119:ILE:HD12	1:K:403:ARG:CG	2.19	0.73
1:L:82:ALA:HB2	1:L:97:VAL:CG2	2.18	0.73
1:L:218:ARG:CG	1:L:323:GLU:HG3	2.19	0.73
1:L:254:ILE:HG22	1:L:259:ALA:HB3	1.70	0.73
1:L:374:GLU:HB2	1:L:471:ARG:NH2	2.04	0.73
1:M:383:GLY:HA2	1:M:386:GLU:CG	2.19	0.73
1:N:34:THR:CG2	1:O:14:ARG:HH22	2.01	0.73
1:N:197:LYS:HB3	1:N:355:ILE:CB	2.19	0.73
1:P:62:VAL:O	1:P:66:ARG:HG3	1.89	0.73
1:P:124:TYR:CE1	1:P:407:ALA:CB	2.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:218:ARG:HG3	1:P:323:GLU:CB	2.19	0.73
1:B:30:ILE:HG22	1:B:31:ILE:HG12	1.70	0.73
1:E:206:THR:CB	1:E:347:ILE:HG23	2.17	0.73
1:G:193:ILE:HG23	1:G:343:VAL:HG12	1.67	0.73
1:I:89:VAL:HG22	1:I:89:VAL:O	1.89	0.73
1:I:152:LYS:HE3	1:I:462:CYS:CA	2.19	0.73
1:K:403:ARG:HH11	1:K:403:ARG:HG2	1.52	0.73
1:L:16:MET:HG3	1:L:16:MET:O	1.88	0.73
1:M:262:LEU:HD12	1:M:310:LEU:CD1	2.19	0.73
1:N:34:THR:CA	1:O:14:ARG:HH22	1.99	0.73
1:N:251:VAL:HG11	1:N:276:LEU:HG	1.68	0.73
1:P:251:VAL:HG21	1:P:272:ALA:HB1	1.68	0.73
1:P:299:THR:HG22	1:P:318:ALA:HB2	1.71	0.73
1:C:368:VAL:HB	1:C:469:PRO:CB	2.19	0.73
1:D:156:THR:CG2	1:D:468:GLU:HB3	2.19	0.73
1:E:178:VAL:HG21	1:E:366:VAL:HB	1.70	0.73
1:E:389:LEU:CD1	1:E:415:LEU:HD13	2.18	0.73
1:H:135:LEU:HD21	1:H:385:THR:CG2	2.19	0.73
1:H:158:ILE:HD13	1:H:170:LEU:HB2	1.71	0.73
1:J:192:LEU:HD13	1:J:192:LEU:N	2.04	0.73
1:J:469:PRO:HB2	1:J:472:VAL:HG23	1.69	0.73
1:L:82:ALA:HB1	1:L:93:THR:CG2	2.19	0.73
1:L:469:PRO:HG2	1:L:472:VAL:HG21	1.70	0.73
1:M:296:ALA:HB1	1:M:301:ALA:O	1.88	0.73
1:O:152:LYS:HG3	1:O:465:GLY:HA3	1.70	0.73
1:P:77:MET:HE2	1:P:487:LEU:CG	2.17	0.73
1:P:139:ALA:HB1	1:P:377:ARG:HG2	1.71	0.73
1:P:371:CYS:SG	1:P:471:ARG:HD2	2.29	0.73
1:C:103:LEU:HD21	1:C:411:PHE:CE2	2.24	0.72
1:D:119:ILE:CD1	1:D:403:ARG:HG2	2.19	0.72
1:D:173:ILE:HD11	1:D:206:THR:OG1	1.87	0.72
1:H:130:LYS:HZ2	1:H:134:LEU:HD11	1.51	0.72
1:I:62:VAL:O	1:I:66:ARG:HB2	1.89	0.72
1:K:195:ILE:HB	1:K:359:ALA:HB2	1.71	0.72
1:L:138:ILE:CD1	1:L:385:THR:CG2	2.62	0.72
1:M:129:GLN:O	1:M:132:GLN:HB2	1.89	0.72
1:P:212:VAL:HG21	1:P:294:LYS:HB3	1.71	0.72
1:P:233:ALA:CB	1:P:310:LEU:HD11	2.12	0.72
1:B:134:LEU:HD12	1:B:393:LEU:HD11	1.71	0.72
1:C:119:ILE:HD12	1:C:403:ARG:HD2	1.69	0.72
1:C:396:TYR:O	1:C:396:TYR:CD2	2.42	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:441:HIS:ND1	1:D:449:ALA:HB3	2.04	0.72
1:E:152:LYS:CD	1:E:465:GLY:HA2	2.18	0.72
1:E:276:LEU:CD1	1:E:281:ILE:HD12	2.18	0.72
1:G:494:ILE:HG13	1:H:48:LEU:HD22	1.69	0.72
1:I:36:ARG:HG3	1:I:37:SER:N	1.99	0.72
1:I:119:ILE:CG2	1:I:403:ARG:CB	2.65	0.72
1:K:124:TYR:N	1:K:124:TYR:HD1	1.86	0.72
1:L:48:LEU:CD2	1:M:494:ILE:HD12	2.19	0.72
1:L:380:SER:HB2	1:L:384:SER:CB	2.19	0.72
1:A:403:ARG:HB3	1:J:431:ILE:CD1	2.19	0.72
1:D:156:THR:HG21	1:D:468:GLU:CB	2.18	0.72
1:D:233:ALA:CA	1:D:315:LEU:HD11	2.19	0.72
1:G:197:LYS:CB	1:G:355:ILE:HG21	2.19	0.72
1:I:77:MET:CB	1:I:487:LEU:HD21	2.19	0.72
1:K:125:GLN:O	1:K:129:GLN:HG3	1.89	0.72
1:K:235:LEU:HD11	1:K:310:LEU:HB2	1.69	0.72
1:L:102:GLU:HA	1:L:102:GLU:OE1	1.89	0.72
1:M:31:ILE:O	1:M:34:THR:HB	1.88	0.72
1:M:124:TYR:HE1	1:M:407:ALA:HA	1.54	0.72
1:P:235:LEU:CG	1:P:310:LEU:HD22	2.19	0.72
1:A:42:LYS:HB3	1:A:425:ASN:CB	2.12	0.72
1:A:276:LEU:CD1	1:A:281:ILE:HG21	2.15	0.72
1:B:401:SER:OG	1:K:435:VAL:HG11	1.87	0.72
1:C:42:LYS:HD2	1:C:426:ALA:CB	2.19	0.72
1:E:96:ALA:CB	1:E:480:ALA:HB2	2.18	0.72
1:F:66:ARG:HB3	1:F:79:ILE:HD11	1.71	0.72
1:F:123:GLY:HA3	1:F:407:ALA:CB	2.20	0.72
1:F:192:LEU:HG	1:F:342:ALA:CB	2.17	0.72
1:H:89:VAL:HG22	1:H:91:ASP:HB2	1.72	0.72
1:L:38:THR:HG21	1:L:46:LYS:CE	2.15	0.72
1:L:218:ARG:CZ	1:L:282:VAL:HG11	2.19	0.72
1:N:170:LEU:HD21	1:N:358:VAL:HG21	1.70	0.72
1:P:103:LEU:HD21	1:P:411:PHE:CD2	2.23	0.72
1:B:403:ARG:HH11	1:B:403:ARG:HG3	1.54	0.72
1:D:42:LYS:HZ1	1:D:426:ALA:HA	1.54	0.72
1:E:486:MET:HG3	1:E:487:LEU:N	2.04	0.72
1:F:158:ILE:HG12	1:F:170:LEU:HD23	1.71	0.72
1:H:124:TYR:HE1	1:H:407:ALA:CA	2.02	0.72
1:H:130:LYS:CD	1:H:393:LEU:CD1	2.68	0.72
1:H:158:ILE:CD1	1:H:170:LEU:HB2	2.19	0.72
1:H:211:GLY:O	1:H:298:ALA:HB2	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:95:THR:O	1:M:99:VAL:HG22	1.88	0.72
1:M:384:SER:HB3	1:M:449:ALA:O	1.88	0.72
1:N:124:TYR:CE1	1:N:407:ALA:HB1	2.25	0.72
1:P:213:LEU:CD1	1:P:346:LEU:HD12	2.20	0.72
1:C:166:ALA:HB1	1:C:203:ILE:O	1.89	0.72
1:C:234:LEU:HD11	1:C:301:ALA:HB3	1.70	0.72
1:D:129:GLN:O	1:D:132:GLN:HB2	1.89	0.72
1:D:418:ILE:N	1:D:418:ILE:HD13	2.04	0.72
1:F:152:LYS:HE2	1:F:462:CYS:O	1.88	0.72
1:K:42:LYS:O	1:K:425:ASN:HB3	1.89	0.72
1:L:232:ILE:HG13	1:L:261:VAL:HG11	1.70	0.72
1:P:234:LEU:CD1	1:P:296:ALA:HB2	2.19	0.72
1:A:193:ILE:CD1	1:A:366:VAL:HG21	2.20	0.72
1:B:158:ILE:CD1	1:B:170:LEU:CB	2.67	0.72
1:C:234:LEU:HB3	1:C:292:MET:HE3	1.72	0.72
1:E:384:SER:CB	1:E:441:HIS:HE1	2.02	0.72
1:F:124:TYR:CE1	1:F:407:ALA:CB	2.73	0.72
1:F:136:LYS:HG2	1:F:377:ARG:HH12	1.55	0.72
1:F:142:VAL:HG11	1:F:378:ILE:CD1	2.19	0.72
1:G:102:GLU:OE2	1:G:417:VAL:HG21	1.89	0.72
1:K:377:ARG:HE	1:K:470:LEU:HD12	1.55	0.72
1:M:195:ILE:HB	1:M:359:ALA:HB1	1.70	0.72
1:O:345:MET:HE1	1:O:362:VAL:HG11	1.72	0.72
1:P:254:ILE:HD13	1:P:262:LEU:CD1	2.19	0.72
1:C:42:LYS:CB	1:C:425:ASN:CB	2.65	0.72
1:C:82:ALA:HB2	1:C:97:VAL:HG21	1.70	0.72
1:D:405:GLN:HE22	1:M:438:ARG:HH12	1.37	0.72
1:G:197:LYS:HD2	1:G:356:GLU:HG2	1.72	0.72
1:I:152:LYS:HD2	1:I:465:GLY:CA	2.20	0.72
1:I:153:ILE:HD11	1:I:378:ILE:CB	2.20	0.72
1:I:387:VAL:O	1:I:390:SER:HB3	1.90	0.72
1:J:158:ILE:HD13	1:J:170:LEU:HB2	1.70	0.72
1:K:178:VAL:CG1	1:K:366:VAL:HG13	2.19	0.72
1:K:233:ALA:CB	1:K:315:LEU:CD2	2.67	0.72
1:L:192:LEU:HB3	1:L:342:ALA:HB2	1.70	0.72
1:O:102:GLU:OE2	1:O:417:VAL:HG21	1.90	0.72
1:P:166:ALA:HB2	1:P:203:ILE:CG1	2.12	0.72
1:A:65:LEU:C	1:A:79:ILE:HD13	2.15	0.72
1:C:96:ALA:O	1:C:480:ALA:HB1	1.88	0.72
1:C:166:ALA:HB2	1:C:203:ILE:CB	2.20	0.72
1:D:156:THR:HG21	1:D:468:GLU:N	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:156:THR:CG2	1:D:468:GLU:HA	2.20	0.72
1:E:380:SER:CB	1:E:384:SER:HB2	2.10	0.72
1:E:400:ILE:HD11	1:E:408:VAL:CG1	2.19	0.72
1:G:177:ALA:HB2	1:G:208:LEU:CD1	2.19	0.72
1:K:233:ALA:HB1	1:K:315:LEU:HD21	1.70	0.72
1:K:299:THR:CG2	1:K:334:VAL:HG11	2.19	0.72
1:L:42:LYS:CG	1:L:425:ASN:HB2	2.19	0.72
1:L:129:GLN:O	1:L:132:GLN:HB2	1.89	0.72
1:M:58:THR:O	1:M:64:ILE:HD11	1.90	0.72
1:M:119:ILE:HG21	1:M:403:ARG:CB	2.18	0.72
1:O:377:ARG:HG2	1:O:470:LEU:CD1	2.19	0.72
1:P:119:ILE:HG21	1:P:403:ARG:CB	2.19	0.72
1:P:170:LEU:CD1	1:P:358:VAL:CG1	2.67	0.72
1:P:195:ILE:HB	1:P:359:ALA:CB	2.19	0.72
1:E:254:ILE:HG21	1:E:262:LEU:HD13	1.72	0.72
1:G:36:ARG:HG3	1:G:37:SER:N	2.03	0.72
1:H:22:ARG:O	1:H:26:LEU:HB2	1.90	0.72
1:H:89:VAL:O	1:H:89:VAL:CG2	2.37	0.72
1:H:193:ILE:HD12	1:H:366:VAL:HG21	1.71	0.72
1:I:379:VAL:HG22	1:I:380:SER:CA	2.17	0.72
1:J:42:LYS:CE	1:J:426:ALA:HA	2.19	0.72
1:M:14:ARG:HD2	1:M:494:ILE:HD13	1.71	0.72
1:M:130:LYS:NZ	1:M:393:LEU:HD23	2.05	0.72
1:O:232:ILE:HD13	1:O:299:THR:CG2	2.19	0.72
1:P:121:VAL:CG1	1:P:489:ARG:HD2	2.16	0.72
1:P:174:ILE:HG22	1:P:362:VAL:HG23	0.82	0.72
1:B:377:ARG:CB	1:B:470:LEU:HD12	2.20	0.71
1:C:134:LEU:HD12	1:C:393:LEU:CD2	2.19	0.71
1:C:150:LEU:CB	1:C:175:VAL:HG11	2.18	0.71
1:D:423:ALA:O	1:D:426:ALA:HB3	1.90	0.71
1:E:304:ILE:CD1	1:E:310:LEU:HB2	2.20	0.71
1:J:124:TYR:HE1	1:J:407:ALA:O	1.72	0.71
1:J:158:ILE:CD1	1:J:170:LEU:HB3	2.19	0.71
1:K:130:LYS:HG2	1:K:393:LEU:CD2	2.20	0.71
1:L:227:VAL:HG11	1:L:260:ASN:ND2	2.05	0.71
1:D:166:ALA:HB2	1:D:203:ILE:CB	2.20	0.71
1:E:14:ARG:NH2	1:F:34:THR:HG23	2.05	0.71
1:F:235:LEU:HD22	1:F:310:LEU:HD22	1.72	0.71
1:G:391:MET:CE	1:G:438:ARG:HA	2.18	0.71
1:H:95:THR:O	1:H:99:VAL:HG22	1.89	0.71
1:I:343:VAL:O	1:I:343:VAL:HG13	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:223:MET:CE	1:M:283:ALA:HB3	2.15	0.71
1:N:254:ILE:HG22	1:N:281:ILE:HD13	1.72	0.71
1:O:414:ALA:O	1:O:417:VAL:HG12	1.90	0.71
1:A:21:GLN:O	1:A:25:ILE:HG13	1.89	0.71
1:A:173:ILE:HG13	1:A:345:MET:SD	2.30	0.71
1:B:134:LEU:CD1	1:B:393:LEU:HD21	2.19	0.71
1:C:81:VAL:HG21	1:C:483:SER:HB3	1.72	0.71
1:C:197:LYS:HB3	1:C:355:ILE:CB	2.20	0.71
1:D:96:ALA:HA	1:D:480:ALA:CB	2.20	0.71
1:H:38:THR:HG22	1:H:59:ASN:OD1	1.90	0.71
1:H:389:LEU:HD12	1:H:415:LEU:HD13	1.72	0.71
1:I:48:LEU:CB	1:I:56:VAL:CG2	2.61	0.71
1:I:150:LEU:HD23	1:I:175:VAL:CG1	2.18	0.71
1:J:130:LYS:CG	1:J:393:LEU:CD2	2.68	0.71
1:K:254:ILE:HD13	1:K:262:LEU:HD13	1.69	0.71
1:L:116:HIS:CD2	1:L:118:THR:HG23	2.25	0.71
1:L:130:LYS:HG3	1:L:393:LEU:HD22	1.70	0.71
1:M:213:LEU:HD11	1:M:333:PHE:CE2	2.25	0.71
1:N:158:ILE:HD13	1:N:170:LEU:CB	2.20	0.71
1:P:77:MET:CE	1:P:487:LEU:HG	2.20	0.71
1:P:124:TYR:HE1	1:P:407:ALA:HA	1.55	0.71
1:P:391:MET:HE1	1:P:438:ARG:HB3	1.72	0.71
1:P:490:ILE:HD12	1:P:490:ILE:N	2.01	0.71
1:H:14:ARG:HD3	1:H:494:ILE:HG12	1.71	0.71
1:J:135:LEU:HD21	1:J:389:LEU:HD11	1.72	0.71
1:M:124:TYR:CD1	1:M:124:TYR:N	2.58	0.71
1:N:459:GLU:OE1	1:N:461:MET:HE1	1.90	0.71
1:O:155:MET:CB	1:O:167:LYS:HD2	2.21	0.71
1:O:195:ILE:CD1	1:O:359:ALA:HB1	2.21	0.71
1:P:119:ILE:CG1	1:P:403:ARG:HG3	2.20	0.71
1:P:153:ILE:CD1	1:P:378:ILE:HG22	2.20	0.71
1:P:206:THR:HG21	1:P:347:ILE:HG22	1.72	0.71
1:A:103:LEU:HD21	1:A:411:PHE:CD2	2.26	0.71
1:B:124:TYR:HE1	1:B:407:ALA:CB	2.03	0.71
1:B:403:ARG:CG	1:B:403:ARG:NH1	2.51	0.71
1:E:232:ILE:O	1:E:315:LEU:HD13	1.89	0.71
1:H:62:VAL:HG13	1:H:63:THR:N	2.04	0.71
1:H:158:ILE:HD13	1:H:170:LEU:CB	2.20	0.71
1:H:471:ARG:O	1:H:475:GLN:HB2	1.91	0.71
1:J:34:THR:HB	1:K:14:ARG:NH1	2.06	0.71
1:M:124:TYR:CE1	1:M:407:ALA:HB1	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:130:LYS:CE	1:N:134:LEU:HD11	2.19	0.71
1:O:25:ILE:HG22	1:O:26:LEU:N	2.05	0.71
1:P:218:ARG:H	1:P:323:GLU:CD	1.97	0.71
1:A:34:THR:O	1:A:46:LYS:HE3	1.89	0.71
1:A:130:LYS:O	1:A:130:LYS:CG	2.39	0.71
1:B:178:VAL:HA	1:B:181:VAL:HG22	1.71	0.71
1:B:206:THR:HG22	1:B:348:ARG:HA	1.71	0.71
1:D:469:PRO:HD2	1:D:472:VAL:CG2	2.20	0.71
1:E:130:LYS:CD	1:E:393:LEU:HD21	2.14	0.71
1:F:193:ILE:HG23	1:F:343:VAL:HG13	1.73	0.71
1:G:42:LYS:HG3	1:G:426:ALA:N	2.05	0.71
1:G:134:LEU:CD1	1:G:393:LEU:HD11	2.19	0.71
1:I:72:HIS:O	1:I:75:ALA:HB3	1.91	0.71
1:I:254:ILE:HD13	1:I:276:LEU:HD11	1.73	0.71
1:K:135:LEU:HD23	1:K:385:THR:HG21	1.71	0.71
1:K:195:ILE:HB	1:K:359:ALA:CB	2.21	0.71
1:K:197:LYS:HA	1:K:355:ILE:CG2	2.21	0.71
1:L:124:TYR:CE1	1:L:407:ALA:HB1	2.25	0.71
1:L:153:ILE:CD1	1:L:372:THR:HG21	2.21	0.71
1:M:42:LYS:HE2	1:M:426:ALA:HB1	1.69	0.71
1:N:254:ILE:HG21	1:N:262:LEU:CD1	2.19	0.71
1:O:119:ILE:HG21	1:O:403:ARG:HD3	1.71	0.71
1:O:235:LEU:CD1	1:O:262:LEU:CD2	2.66	0.71
1:B:124:TYR:CD1	1:B:124:TYR:N	2.58	0.71
1:B:345:MET:HE3	1:B:347:ILE:CD1	2.20	0.71
1:E:177:ALA:HB2	1:E:208:LEU:HD21	1.71	0.71
1:F:153:ILE:CG2	1:F:469:PRO:HG3	2.21	0.71
1:F:262:LEU:CD1	1:F:310:LEU:CD2	2.68	0.71
1:F:405:GLN:HB3	1:F:406:LEU:CD1	2.19	0.71
1:G:377:ARG:HD2	1:G:470:LEU:HD12	1.73	0.71
1:H:377:ARG:CG	1:H:470:LEU:HD23	2.17	0.71
1:I:403:ARG:HA	1:I:406:LEU:CD1	2.19	0.71
1:J:31:ILE:HG21	1:J:65:LEU:HD22	1.72	0.71
1:K:232:ILE:O	1:K:315:LEU:HG	1.90	0.71
1:M:403:ARG:HG2	1:M:403:ARG:NH1	2.03	0.71
1:N:156:THR:HG21	1:N:468:GLU:HA	1.71	0.71
1:A:127:ALA:CB	1:A:408:VAL:HG12	2.21	0.71
1:A:431:ILE:HG13	1:J:406:LEU:HD11	1.72	0.71
1:B:494:ILE:O	1:B:494:ILE:CG2	2.39	0.71
1:D:119:ILE:HG21	1:D:403:ARG:CB	2.18	0.71
1:E:193:ILE:HD13	1:E:343:VAL:CG1	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:135:LEU:HD23	1:G:138:ILE:HD11	1.73	0.71
1:G:152:LYS:HE3	1:G:465:GLY:HA2	1.72	0.71
1:I:299:THR:CG2	1:I:334:VAL:HG11	2.20	0.71
1:J:178:VAL:HG22	1:J:366:VAL:CG1	2.20	0.71
1:K:197:LYS:CA	1:K:355:ILE:HG21	2.21	0.71
1:M:124:TYR:HD1	1:M:124:TYR:H	1.39	0.71
1:M:251:VAL:CG1	1:M:276:LEU:HD22	2.20	0.71
1:N:170:LEU:HD22	1:N:358:VAL:CG1	2.21	0.71
1:A:42:LYS:HE3	1:H:118:THR:HG21	1.72	0.71
1:A:81:VAL:HG21	1:A:483:SER:HB2	1.73	0.71
1:A:116:HIS:CB	1:A:117:PRO:HD2	2.20	0.71
1:D:219:VAL:HG21	1:D:285:ARG:HB2	1.71	0.71
1:E:150:LEU:CD2	1:E:175:VAL:HG13	2.13	0.71
1:E:177:ALA:HB1	1:E:193:ILE:HD12	1.71	0.71
1:F:123:GLY:HA3	1:F:407:ALA:HB3	1.72	0.71
1:F:140:CYS:SG	1:F:447:LYS:HB3	2.31	0.71
1:G:116:HIS:CG	1:G:117:PRO:HD2	2.26	0.71
1:G:449:ALA:HB2	1:G:458:VAL:HG23	1.72	0.71
1:G:459:GLU:HB2	1:G:461:MET:HE2	1.71	0.71
1:H:114:ASN:O	1:H:114:ASN:CG	2.33	0.71
1:K:158:ILE:HD13	1:K:170:LEU:CB	2.21	0.71
1:K:420:ARG:HD3	1:K:430:ALA:CB	2.20	0.71
1:L:156:THR:CG2	1:L:468:GLU:CA	2.69	0.71
1:M:123:GLY:HA3	1:M:407:ALA:HB1	1.67	0.71
1:N:122:LYS:HA	1:N:125:GLN:CD	2.16	0.71
1:F:178:VAL:HG12	1:F:366:VAL:HG22	1.73	0.71
1:G:124:TYR:CE1	1:G:407:ALA:HA	2.22	0.71
1:G:345:MET:HE1	1:G:362:VAL:HG21	1.72	0.71
1:H:166:ALA:C	1:H:170:LEU:HD22	2.16	0.71
1:I:173:ILE:HG13	1:I:345:MET:CG	2.20	0.71
1:B:136:LYS:HB3	1:B:377:ARG:NH1	2.06	0.70
1:G:156:THR:HG22	1:G:467:VAL:C	2.15	0.70
1:H:233:ALA:HB1	1:H:310:LEU:HD22	1.73	0.70
1:M:441:HIS:CD2	1:M:449:ALA:HA	2.26	0.70
1:N:268:ILE:HG22	1:N:273:GLN:HG3	1.71	0.70
1:P:227:VAL:HG11	1:P:260:ASN:HD21	1.56	0.70
1:A:153:ILE:HD13	1:A:372:THR:HG21	1.72	0.70
1:A:299:THR:HG22	1:A:318:ALA:HB2	1.73	0.70
1:A:431:ILE:CD1	1:J:403:ARG:CD	2.69	0.70
1:A:474:THR:O	1:A:478:GLN:HG2	1.91	0.70
1:B:138:ILE:HD12	1:B:385:THR:HG23	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:177:ALA:HB2	1:B:208:LEU:HD11	1.73	0.70
1:B:178:VAL:CG2	1:B:366:VAL:HG13	2.21	0.70
1:B:396:TYR:CE2	1:B:400:ILE:HD13	2.26	0.70
1:C:177:ALA:HB2	1:C:208:LEU:CD1	2.21	0.70
1:C:368:VAL:HG11	1:C:472:VAL:CG1	2.21	0.70
1:E:254:ILE:HD13	1:E:262:LEU:HD13	1.73	0.70
1:F:218:ARG:HG3	1:F:323:GLU:OE2	1.90	0.70
1:G:115:VAL:HG11	1:G:403:ARG:CD	2.20	0.70
1:G:262:LEU:HD12	1:G:310:LEU:HD21	1.72	0.70
1:H:42:LYS:NZ	1:H:426:ALA:HB2	2.07	0.70
1:H:232:ILE:HG13	1:H:261:VAL:CG1	2.20	0.70
1:I:420:ARG:HH11	1:I:420:ARG:HG2	1.56	0.70
1:J:368:VAL:CG1	1:J:469:PRO:CG	2.69	0.70
1:N:39:LEU:HG	1:N:40:GLY:N	2.06	0.70
1:N:158:ILE:CG1	1:N:361:ALA:HB1	2.20	0.70
1:P:103:LEU:HD11	1:P:411:PHE:CD2	2.27	0.70
1:A:72:HIS:HD2	1:A:73:PRO:HD3	1.56	0.70
1:A:428:LEU:N	1:A:428:LEU:HD13	2.01	0.70
1:B:62:VAL:HG22	1:B:62:VAL:O	1.87	0.70
1:C:130:LYS:CE	1:C:393:LEU:HD23	2.22	0.70
1:C:401:SER:CB	1:L:435:VAL:HG11	2.21	0.70
1:D:276:LEU:CD1	1:D:281:ILE:HG21	2.18	0.70
1:F:420:ARG:CZ	1:F:430:ALA:HB3	2.22	0.70
1:H:459:GLU:HB3	1:H:461:MET:CE	2.20	0.70
1:I:117:PRO:O	1:I:121:VAL:HG22	1.91	0.70
1:K:459:GLU:CG	1:K:461:MET:HE1	2.20	0.70
1:L:212:VAL:HG21	1:L:294:LYS:O	1.91	0.70
1:M:469:PRO:HG2	1:M:472:VAL:CG1	2.21	0.70
1:N:170:LEU:CD1	1:N:358:VAL:HG22	2.21	0.70
1:N:235:LEU:CG	1:N:310:LEU:HD22	2.07	0.70
1:P:178:VAL:HG22	1:P:366:VAL:HG22	1.73	0.70
1:A:197:LYS:CB	1:A:355:ILE:HB	2.22	0.70
1:B:63:THR:OG1	1:B:66:ARG:HD2	1.91	0.70
1:C:254:ILE:HG12	1:C:310:LEU:CD2	2.20	0.70
1:C:406:LEU:HD21	1:L:431:ILE:HD11	1.73	0.70
1:D:219:VAL:HG23	1:D:285:ARG:CB	2.22	0.70
1:D:234:LEU:HB3	1:D:292:MET:HE1	1.74	0.70
1:E:134:LEU:CD1	1:E:393:LEU:CD2	2.68	0.70
1:G:61:GLY:O	1:G:64:ILE:HG22	1.92	0.70
1:H:14:ARG:CD	1:H:494:ILE:HG12	2.21	0.70
1:H:105:ARG:HH11	1:H:106:LYS:HG2	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:174:ILE:HG22	1:I:362:VAL:HG23	1.74	0.70
1:M:57:VAL:C	1:M:58:THR:HG23	2.16	0.70
1:O:368:VAL:O	1:O:371:CYS:HB2	1.90	0.70
1:B:431:ILE:HD12	1:K:406:LEU:HD13	1.73	0.70
1:C:93:THR:O	1:C:97:VAL:HG23	1.91	0.70
1:C:166:ALA:CB	1:C:203:ILE:HB	2.21	0.70
1:D:29:ARG:O	1:D:32:ALA:HB3	1.90	0.70
1:D:42:LYS:CE	1:D:426:ALA:HA	2.22	0.70
1:E:31:ILE:O	1:E:34:THR:HB	1.90	0.70
1:F:72:HIS:HD2	1:F:73:PRO:HD2	1.57	0.70
1:F:190:LYS:HE2	1:F:367:GLY:HA2	1.73	0.70
1:F:233:ALA:HA	1:F:315:LEU:CG	2.20	0.70
1:G:406:LEU:CD1	1:P:431:ILE:HD11	2.19	0.70
1:K:86:GLU:HB2	1:K:90:GLY:HA2	1.73	0.70
1:K:212:VAL:HG21	1:K:294:LYS:O	1.92	0.70
1:A:117:PRO:O	1:A:121:VAL:HG22	1.91	0.70
1:A:197:LYS:CA	1:A:355:ILE:HG21	2.20	0.70
1:B:62:VAL:O	1:B:62:VAL:CG2	2.38	0.70
1:D:156:THR:CG2	1:D:468:GLU:CA	2.69	0.70
1:D:459:GLU:HG2	1:D:461:MET:HE2	1.73	0.70
1:F:347:ILE:CD1	1:F:359:ALA:HB2	2.21	0.70
1:G:134:LEU:CD1	1:G:393:LEU:HD21	2.21	0.70
1:H:435:VAL:HG11	1:I:401:SER:CB	2.21	0.70
1:H:494:ILE:O	1:H:494:ILE:HG22	1.91	0.70
1:K:34:THR:HA	1:L:14:ARG:NH2	2.07	0.70
1:K:34:THR:HA	1:L:14:ARG:HH22	1.55	0.70
1:L:206:THR:HG22	1:L:347:ILE:CA	2.21	0.70
1:P:206:THR:CG2	1:P:347:ILE:HG22	2.21	0.70
1:A:81:VAL:HG11	1:A:483:SER:HB3	1.72	0.70
1:A:124:TYR:CE1	1:A:407:ALA:HB1	2.26	0.70
1:A:170:LEU:HD11	1:A:358:VAL:HG22	1.73	0.70
1:B:103:LEU:HD21	1:B:411:PHE:CD2	2.27	0.70
1:B:174:ILE:HG21	1:B:362:VAL:HG22	1.73	0.70
1:C:130:LYS:CD	1:C:393:LEU:HD23	2.21	0.70
1:C:177:ALA:HB2	1:C:208:LEU:HD13	1.73	0.70
1:D:379:VAL:HG22	1:D:380:SER:H	1.56	0.70
1:E:491:ASP:OD1	1:F:44:MET:HB3	1.92	0.70
1:F:212:VAL:HG21	1:F:294:LYS:C	2.15	0.70
1:F:254:ILE:HD13	1:F:262:LEU:HD13	1.71	0.70
1:F:254:ILE:HG21	1:F:262:LEU:CD1	2.21	0.70
1:G:31:ILE:HG21	1:G:65:LEU:CD1	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:178:VAL:HG21	1:I:366:VAL:HG13	1.73	0.70
1:J:30:ILE:HG22	1:J:31:ILE:N	2.06	0.70
1:J:34:THR:HB	1:K:14:ARG:HH12	1.56	0.70
1:J:115:VAL:HG11	1:J:403:ARG:NE	2.06	0.70
1:J:192:LEU:HB2	1:J:342:ALA:CB	2.21	0.70
1:J:377:ARG:CD	1:J:470:LEU:HD12	2.22	0.70
1:K:29:ARG:O	1:K:32:ALA:HB3	1.92	0.70
1:K:170:LEU:CD2	1:K:358:VAL:CG1	2.70	0.70
1:K:232:ILE:HG13	1:K:261:VAL:CG1	2.21	0.70
1:L:77:MET:HB2	1:L:487:LEU:HD21	1.73	0.70
1:L:211:GLY:CA	1:L:298:ALA:HB2	2.21	0.70
1:L:218:ARG:HH22	1:L:321:VAL:HG12	1.55	0.70
1:M:35:VAL:HG12	1:M:46:LYS:HE3	1.74	0.70
1:N:233:ALA:CB	1:N:310:LEU:HD11	2.22	0.70
1:E:14:ARG:HH22	1:F:34:THR:HG23	1.56	0.70
1:E:211:GLY:O	1:E:212:VAL:HG23	1.92	0.70
1:J:377:ARG:O	1:J:470:LEU:HB2	1.92	0.70
1:K:420:ARG:HD3	1:K:430:ALA:HB3	1.72	0.70
1:M:34:THR:HA	1:N:14:ARG:HH22	1.56	0.70
1:M:62:VAL:HG13	1:M:63:THR:H	1.57	0.70
1:M:235:LEU:HD11	1:M:310:LEU:CG	2.21	0.70
1:M:358:VAL:O	1:M:362:VAL:HG12	1.92	0.70
1:P:123:GLY:H	1:P:404:GLU:HG3	1.56	0.70
1:P:150:LEU:HB3	1:P:175:VAL:CG2	2.22	0.70
1:P:383:GLY:HA2	1:P:386:GLU:OE2	1.92	0.70
1:C:125:GLN:O	1:C:129:GLN:HG3	1.91	0.70
1:F:21:GLN:O	1:F:25:ILE:HD12	1.92	0.70
1:H:124:TYR:HD1	1:H:124:TYR:H	1.37	0.70
1:I:27:ALA:HB2	1:I:72:HIS:CD2	2.27	0.70
1:I:119:ILE:HG21	1:I:403:ARG:HD2	1.73	0.70
1:M:391:MET:CE	1:M:438:ARG:HG2	2.21	0.70
1:N:57:VAL:O	1:N:57:VAL:HG12	1.91	0.70
1:N:106:LYS:HA	1:N:106:LYS:HE3	1.72	0.70
1:O:156:THR:HG21	1:O:468:GLU:CA	2.21	0.70
1:A:105:ARG:CD	1:A:106:LYS:HG2	2.22	0.70
1:B:115:VAL:HB	1:B:403:ARG:NE	2.06	0.70
1:C:263:PHE:CE1	1:C:332:ILE:HG21	2.26	0.70
1:E:234:LEU:HD12	1:E:301:ALA:HB1	1.74	0.70
1:E:287:VAL:HG13	1:E:291:ASP:OD2	1.90	0.70
1:F:235:LEU:HD11	1:F:310:LEU:CB	2.14	0.70
1:F:299:THR:HG22	1:F:318:ALA:HB2	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:223:MET:HG2	1:I:281:ILE:O	1.92	0.70
1:K:358:VAL:O	1:K:362:VAL:HG12	1.91	0.70
1:K:377:ARG:HB3	1:K:470:LEU:CG	2.21	0.70
1:M:208:LEU:CD1	1:M:343:VAL:CG2	2.69	0.70
1:N:42:LYS:CD	1:N:426:ALA:H	2.05	0.70
1:N:212:VAL:HG21	1:N:294:LYS:O	1.91	0.70
1:N:377:ARG:HD2	1:N:470:LEU:CD1	2.21	0.70
1:O:396:TYR:CG	1:O:396:TYR:O	2.45	0.70
1:P:38:THR:HB	1:P:59:ASN:ND2	2.06	0.70
1:A:494:ILE:HD12	1:B:48:LEU:CD2	2.22	0.69
1:B:25:ILE:HD13	1:B:108:GLU:OE2	1.91	0.69
1:B:119:ILE:CG2	1:B:403:ARG:HB2	2.18	0.69
1:C:29:ARG:O	1:C:32:ALA:HB3	1.92	0.69
1:C:124:TYR:CD1	1:C:407:ALA:HB1	2.27	0.69
1:C:391:MET:CE	1:C:438:ARG:CG	2.68	0.69
1:D:99:VAL:HG11	1:D:418:ILE:CD1	2.22	0.69
1:F:36:ARG:HG3	1:F:37:SER:H	1.56	0.69
1:F:96:ALA:HB3	1:F:97:VAL:HG23	1.74	0.69
1:G:105:ARG:NH1	1:G:106:LYS:HG2	2.07	0.69
1:G:153:ILE:CD1	1:G:378:ILE:HG22	2.12	0.69
1:G:235:LEU:O	1:G:264:CYS:HA	1.92	0.69
1:G:431:ILE:CG1	1:P:406:LEU:HD11	2.20	0.69
1:H:15:TYR:O	1:H:20:ALA:HB2	1.91	0.69
1:J:134:LEU:CD1	1:J:393:LEU:CD2	2.70	0.69
1:K:178:VAL:HG12	1:K:366:VAL:HG22	1.74	0.69
1:K:233:ALA:CA	1:K:315:LEU:HD11	2.20	0.69
1:K:234:LEU:N	1:K:315:LEU:HD11	2.05	0.69
1:L:38:THR:CG2	1:L:46:LYS:CE	2.68	0.69
1:L:234:LEU:N	1:L:315:LEU:HD21	2.06	0.69
1:M:124:TYR:CD2	1:M:411:PHE:HD2	2.10	0.69
1:N:152:LYS:HG2	1:N:465:GLY:O	1.92	0.69
1:O:134:LEU:CD1	1:O:393:LEU:HG	2.21	0.69
1:P:45:ASP:OD1	1:P:45:ASP:N	2.23	0.69
1:P:193:ILE:HD12	1:P:366:VAL:HG21	1.73	0.69
1:A:299:THR:CG2	1:A:334:VAL:CG1	2.69	0.69
1:A:383:GLY:CA	1:A:386:GLU:HG3	2.20	0.69
1:B:276:LEU:HD22	1:B:281:ILE:HG21	1.74	0.69
1:E:105:ARG:NH1	1:E:106:LYS:CG	2.55	0.69
1:I:130:LYS:HZ1	1:I:134:LEU:HD11	1.57	0.69
1:I:174:ILE:HG22	1:I:362:VAL:CB	2.22	0.69
1:I:178:VAL:HG23	1:I:366:VAL:HG22	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:211:GLY:C	1:L:298:ALA:CB	2.65	0.69
1:M:130:LYS:HE3	1:M:134:LEU:HD21	1.73	0.69
1:M:173:ILE:HD11	1:M:206:THR:HG22	1.74	0.69
1:M:234:LEU:H	1:M:315:LEU:HD21	1.56	0.69
1:N:130:LYS:HE3	1:N:134:LEU:HD11	1.73	0.69
1:N:134:LEU:HD12	1:N:393:LEU:HD21	1.74	0.69
1:N:384:SER:HB3	1:N:441:HIS:CE1	2.27	0.69
1:B:130:LYS:CE	1:B:134:LEU:HD11	2.21	0.69
1:D:405:GLN:HE22	1:M:438:ARG:NH1	1.90	0.69
1:D:490:ILE:CD1	1:D:490:ILE:H	2.04	0.69
1:E:123:GLY:HA3	1:E:407:ALA:HB1	1.74	0.69
1:H:130:LYS:HD3	1:H:393:LEU:HD12	1.74	0.69
1:K:299:THR:HG22	1:K:318:ALA:HB2	1.72	0.69
1:L:101:GLY:HA2	1:L:104:LEU:HD12	1.75	0.69
1:N:391:MET:CE	1:N:438:ARG:CB	2.70	0.69
1:P:39:LEU:HG	1:P:40:GLY:N	2.07	0.69
1:A:197:LYS:HB3	1:A:355:ILE:CB	2.22	0.69
1:C:405:GLN:HB3	1:C:406:LEU:HD13	1.73	0.69
1:G:166:ALA:HB2	1:G:203:ILE:HG22	1.71	0.69
1:H:469:PRO:HG2	1:H:472:VAL:HG23	1.71	0.69
1:L:29:ARG:O	1:L:33:GLU:HG3	1.91	0.69
1:L:391:MET:HE1	1:L:438:ARG:O	1.92	0.69
1:M:420:ARG:NH1	1:M:420:ARG:CA	2.55	0.69
1:N:192:LEU:HB3	1:N:342:ALA:HB2	1.74	0.69
1:N:268:ILE:HG21	1:N:273:GLN:CG	2.22	0.69
1:N:469:PRO:HB2	1:N:472:VAL:HG13	1.74	0.69
1:O:193:ILE:CD1	1:O:366:VAL:HG21	2.22	0.69
1:P:235:LEU:HG	1:P:310:LEU:CD2	2.22	0.69
1:A:30:ILE:CD1	1:A:31:ILE:HG12	2.22	0.69
1:A:42:LYS:CB	1:A:425:ASN:HB2	2.15	0.69
1:A:227:VAL:HG11	1:A:260:ASN:OD1	1.92	0.69
1:C:153:ILE:HD11	1:C:378:ILE:HG21	1.72	0.69
1:C:403:ARG:HG3	1:C:403:ARG:NH1	2.00	0.69
1:C:420:ARG:HH11	1:C:420:ARG:CG	2.04	0.69
1:F:234:LEU:HD11	1:F:301:ALA:HB3	1.75	0.69
1:F:397:ALA:HB2	1:F:408:VAL:HG23	1.74	0.69
1:G:103:LEU:CD2	1:G:411:PHE:CE2	2.75	0.69
1:G:389:LEU:HD23	1:G:415:LEU:CD1	2.21	0.69
1:G:431:ILE:HD11	1:P:403:ARG:HA	1.74	0.69
1:H:116:HIS:CB	1:H:117:PRO:HD2	2.19	0.69
1:H:134:LEU:CD1	1:H:393:LEU:HD11	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:42:LYS:HD2	1:I:426:ALA:HA	1.74	0.69
1:L:344:THR:HG22	1:L:345:MET:N	2.06	0.69
1:M:155:MET:SD	1:M:167:LYS:HD2	2.32	0.69
1:M:381:GLY:HA3	1:M:461:MET:HG3	1.74	0.69
1:O:34:THR:HA	1:P:14:ARG:NH1	2.06	0.69
1:P:178:VAL:HG22	1:P:366:VAL:HG13	1.74	0.69
1:D:268:ILE:HB	1:D:273:GLN:NE2	2.04	0.69
1:D:354:VAL:O	1:D:358:VAL:HG23	1.92	0.69
1:F:377:ARG:HG3	1:F:377:ARG:NH2	1.99	0.69
1:H:119:ILE:HG13	1:H:403:ARG:CD	2.16	0.69
1:I:138:ILE:CD1	1:I:385:THR:HG23	2.21	0.69
1:J:105:ARG:NH1	1:J:106:LYS:CD	2.56	0.69
1:J:314:ASP:O	1:J:315:LEU:HG	1.91	0.69
1:L:98:VAL:HG12	1:L:99:VAL:N	2.08	0.69
1:L:254:ILE:CG2	1:L:262:LEU:HD12	2.21	0.69
1:L:391:MET:CE	1:L:438:ARG:HA	2.23	0.69
1:M:173:ILE:CD1	1:M:206:THR:CG2	2.68	0.69
1:P:377:ARG:CD	1:P:470:LEU:HD12	2.23	0.69
1:A:389:LEU:CD1	1:A:415:LEU:HD21	2.23	0.69
1:B:105:ARG:HG2	1:B:106:LYS:N	2.08	0.69
1:B:431:ILE:O	1:B:431:ILE:HG12	1.92	0.69
1:C:78:LEU:HD12	1:C:487:LEU:HD13	1.73	0.69
1:D:379:VAL:HG22	1:D:380:SER:N	2.07	0.69
1:E:468:GLU:HB2	1:E:469:PRO:HD2	1.73	0.69
1:G:170:LEU:HD23	1:G:358:VAL:HG13	1.73	0.69
1:J:197:LYS:CA	1:J:347:ILE:HG22	2.21	0.69
1:J:208:LEU:HD11	1:J:343:VAL:HG11	1.73	0.69
1:J:486:MET:O	1:J:489:ARG:HA	1.92	0.69
1:P:122:LYS:HA	1:P:125:GLN:CD	2.17	0.69
1:A:34:THR:HA	1:H:14:ARG:NH2	2.07	0.69
1:A:62:VAL:CG1	1:A:63:THR:H	2.00	0.69
1:A:158:ILE:HD11	1:A:170:LEU:HB3	1.74	0.69
1:B:156:THR:CG2	1:B:468:GLU:HB3	2.22	0.69
1:B:212:VAL:HG21	1:B:294:LYS:CB	2.23	0.69
1:B:435:VAL:HG11	1:K:401:SER:OG	1.92	0.69
1:C:42:LYS:HG3	1:C:425:ASN:C	2.18	0.69
1:D:89:VAL:HG21	1:D:368:VAL:HG12	1.74	0.69
1:E:403:ARG:HB3	1:N:431:ILE:HD11	1.73	0.69
1:E:403:ARG:CB	1:E:406:LEU:HD12	2.22	0.69
1:F:130:LYS:HD2	1:F:396:TYR:CG	2.28	0.69
1:F:235:LEU:CD1	1:F:310:LEU:CB	2.71	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:368:VAL:HA	1:F:371:CYS:SG	2.32	0.69
1:F:403:ARG:HG2	1:O:431:ILE:HD11	1.75	0.69
1:G:31:ILE:CG2	1:G:65:LEU:HG	2.23	0.69
1:G:42:LYS:HB2	1:G:425:ASN:CB	2.21	0.69
1:H:120:VAL:O	1:H:120:VAL:HG22	1.93	0.69
1:H:234:LEU:H	1:H:315:LEU:CD1	2.05	0.69
1:H:416:GLU:O	1:H:420:ARG:HB2	1.92	0.69
1:L:420:ARG:HG2	1:L:420:ARG:NH1	2.06	0.69
1:M:206:THR:CG2	1:M:347:ILE:CG2	2.63	0.69
1:N:135:LEU:HD21	1:N:385:THR:HG23	1.74	0.69
1:O:34:THR:HG23	1:P:14:ARG:HH12	1.57	0.69
1:O:381:GLY:HA2	1:O:461:MET:HG3	1.74	0.69
1:P:138:ILE:CD1	1:P:385:THR:CB	2.71	0.69
1:P:276:LEU:HB3	1:P:281:ILE:CB	2.21	0.69
1:A:25:ILE:CD1	1:A:108:GLU:HG3	2.23	0.69
1:B:377:ARG:HD2	1:B:470:LEU:HD12	1.72	0.69
1:D:103:LEU:CD2	1:D:411:PHE:CE2	2.73	0.69
1:E:122:LYS:HA	1:E:125:GLN:NE2	2.07	0.69
1:E:218:ARG:CZ	1:E:282:VAL:HG21	2.23	0.69
1:F:194:LYS:C	1:F:195:ILE:HG23	2.17	0.69
1:G:14:ARG:HD2	1:G:494:ILE:HD13	1.74	0.69
1:G:89:VAL:HG11	1:G:472:VAL:CB	2.23	0.69
1:G:393:LEU:HA	1:G:396:TYR:HB3	1.74	0.69
1:I:178:VAL:HG21	1:I:366:VAL:HG22	1.73	0.69
1:I:384:SER:CB	1:I:441:HIS:HE1	1.91	0.69
1:I:404:GLU:O	1:I:408:VAL:HG13	1.93	0.69
1:J:234:LEU:CB	1:J:292:MET:HE1	2.21	0.69
1:K:42:LYS:HB3	1:K:425:ASN:HB2	1.73	0.69
1:L:95:THR:O	1:L:99:VAL:HG22	1.93	0.69
1:P:379:VAL:HG12	1:P:470:LEU:HD23	1.75	0.69
1:B:197:LYS:HB3	1:B:355:ILE:CD1	2.22	0.69
1:C:384:SER:HA	1:C:441:HIS:CE1	2.28	0.69
1:D:422:LEU:HD13	1:D:422:LEU:N	1.98	0.69
1:G:42:LYS:NZ	1:G:426:ALA:HB2	2.08	0.69
1:J:42:LYS:CD	1:J:425:ASN:C	2.64	0.69
1:J:155:MET:HE1	1:J:465:GLY:HA3	1.73	0.69
1:L:192:LEU:HB3	1:L:342:ALA:CB	2.23	0.69
1:M:115:VAL:CG1	1:M:403:ARG:CZ	2.71	0.69
1:M:255:LYS:HG3	1:M:255:LYS:O	1.93	0.69
1:O:116:HIS:ND1	1:O:117:PRO:HD2	2.07	0.69
1:O:134:LEU:HD11	1:O:393:LEU:CD2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:139:ALA:HB1	1:O:377:ARG:HG2	1.73	0.69
1:P:234:LEU:HD11	1:P:301:ALA:HB3	1.74	0.69
1:A:134:LEU:CD1	1:A:393:LEU:CD2	2.71	0.68
1:C:178:VAL:HG21	1:C:366:VAL:HG13	1.73	0.68
1:C:233:ALA:HA	1:C:315:LEU:CG	2.23	0.68
1:C:276:LEU:O	1:C:281:ILE:HB	1.93	0.68
1:E:380:SER:CB	1:E:384:SER:CB	2.71	0.68
1:F:166:ALA:HB2	1:F:203:ILE:HG13	1.73	0.68
1:F:173:ILE:HG13	1:F:345:MET:SD	2.33	0.68
1:G:391:MET:HE2	1:G:438:ARG:HG2	1.73	0.68
1:H:122:LYS:HG3	1:H:125:GLN:NE2	2.08	0.68
1:J:47:MET:HE1	1:K:73:PRO:HG2	1.74	0.68
1:L:206:THR:HG21	1:L:347:ILE:CG2	2.21	0.68
1:M:84:THR:O	1:M:84:THR:CG2	2.41	0.68
1:M:84:THR:O	1:M:84:THR:HG22	1.91	0.68
1:M:158:ILE:CD1	1:M:170:LEU:HB2	2.22	0.68
1:M:233:ALA:HA	1:M:315:LEU:CD1	2.22	0.68
1:M:296:ALA:CA	1:M:301:ALA:HB3	2.23	0.68
1:M:403:ARG:CG	1:M:403:ARG:HH11	2.06	0.68
1:N:296:ALA:HB1	1:N:301:ALA:O	1.92	0.68
1:O:402:GLY:O	1:O:405:GLN:HB3	1.93	0.68
1:A:362:VAL:O	1:A:366:VAL:HG23	1.93	0.68
1:C:134:LEU:CD1	1:C:393:LEU:HD21	2.22	0.68
1:C:494:ILE:HB	1:D:48:LEU:HD12	1.75	0.68
1:D:42:LYS:HB3	1:D:425:ASN:HB2	1.75	0.68
1:E:119:ILE:HD12	1:E:403:ARG:HG3	1.74	0.68
1:F:197:LYS:HA	1:F:355:ILE:CG2	2.22	0.68
1:G:158:ILE:HG13	1:G:361:ALA:HB1	1.73	0.68
1:I:139:ALA:CB	1:I:377:ARG:HD3	2.17	0.68
1:I:158:ILE:HD13	1:I:170:LEU:CB	2.19	0.68
1:J:31:ILE:HG22	1:J:65:LEU:HD21	1.75	0.68
1:J:234:LEU:HD11	1:J:301:ALA:CB	2.23	0.68
1:J:414:ALA:O	1:J:417:VAL:HG12	1.93	0.68
1:K:31:ILE:HG21	1:K:65:LEU:CD1	2.23	0.68
1:L:31:ILE:CG2	1:L:65:LEU:HD21	2.23	0.68
1:L:123:GLY:HA3	1:L:407:ALA:CB	2.23	0.68
1:L:406:LEU:HD12	1:L:406:LEU:N	1.96	0.68
1:M:96:ALA:HB1	1:M:480:ALA:HB3	1.75	0.68
1:N:368:VAL:HG21	1:N:469:PRO:HG3	1.75	0.68
1:P:34:THR:HG22	1:P:35:VAL:HG13	1.74	0.68
1:P:64:ILE:CG2	1:P:65:LEU:HD22	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:345:MET:CE	1:B:347:ILE:HD11	2.22	0.68
1:C:384:SER:CA	1:C:441:HIS:HE1	2.07	0.68
1:E:255:LYS:HG3	1:E:255:LYS:O	1.93	0.68
1:J:105:ARG:NH1	1:J:106:LYS:CG	2.56	0.68
1:J:192:LEU:HB2	1:J:342:ALA:HB2	1.75	0.68
1:J:227:VAL:HG11	1:J:260:ASN:ND2	2.08	0.68
1:J:276:LEU:HD13	1:J:281:ILE:HD12	1.74	0.68
1:P:130:LYS:CE	1:P:393:LEU:HD23	2.24	0.68
1:A:134:LEU:CD1	1:A:393:LEU:HG	2.24	0.68
1:A:223:MET:HG2	1:A:281:ILE:O	1.93	0.68
1:D:232:ILE:O	1:D:315:LEU:HD13	1.93	0.68
1:D:371:CYS:SG	1:D:471:ARG:HD2	2.34	0.68
1:E:304:ILE:HD11	1:E:310:LEU:HB2	1.74	0.68
1:G:34:THR:HG22	1:G:35:VAL:CG1	2.21	0.68
1:G:206:THR:HG22	1:G:348:ARG:H	1.56	0.68
1:I:123:GLY:CA	1:I:407:ALA:HB1	2.24	0.68
1:I:200:GLY:O	1:I:348:ARG:HB3	1.94	0.68
1:K:130:LYS:HZ2	1:K:393:LEU:CD2	2.04	0.68
1:K:459:GLU:O	1:K:461:MET:HE3	1.94	0.68
1:M:212:VAL:HG21	1:M:294:LYS:O	1.93	0.68
1:N:30:ILE:HG22	1:N:31:ILE:N	1.98	0.68
1:P:81:VAL:HG11	1:P:483:SER:HB3	1.75	0.68
1:B:41:PRO:HB2	1:B:42:LYS:HE2	1.76	0.68
1:G:29:ARG:O	1:G:33:GLU:HG3	1.93	0.68
1:G:98:VAL:HG12	1:G:99:VAL:HG12	1.73	0.68
1:J:119:ILE:HG23	1:J:403:ARG:HB2	1.75	0.68
1:J:254:ILE:HD13	1:J:262:LEU:CD1	2.20	0.68
1:K:115:VAL:HG11	1:K:403:ARG:HD2	1.75	0.68
1:L:211:GLY:CA	1:L:298:ALA:CB	2.71	0.68
1:M:418:ILE:O	1:M:422:LEU:HG	1.93	0.68
1:N:42:LYS:HZ3	1:O:118:THR:HG22	1.57	0.68
1:N:389:LEU:HD12	1:N:415:LEU:HD13	1.75	0.68
1:P:234:LEU:H	1:P:315:LEU:HD21	1.59	0.68
1:B:40:GLY:HA3	1:B:422:LEU:HD21	1.75	0.68
1:B:62:VAL:HG13	1:B:63:THR:N	1.98	0.68
1:B:263:PHE:CE1	1:B:332:ILE:HG21	2.28	0.68
1:D:130:LYS:HD2	1:D:396:TYR:CD1	2.28	0.68
1:E:129:GLN:O	1:E:132:GLN:HB2	1.94	0.68
1:E:262:LEU:HD11	1:E:310:LEU:HD21	1.74	0.68
1:I:64:ILE:CG2	1:I:65:LEU:HD22	2.24	0.68
1:I:197:LYS:CA	1:I:355:ILE:CG2	2.67	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:130:LYS:CG	1:K:393:LEU:HD21	2.24	0.68
1:L:233:ALA:CA	1:L:315:LEU:CD2	2.72	0.68
1:L:254:ILE:HG21	1:L:262:LEU:HD12	1.76	0.68
1:L:368:VAL:HA	1:L:371:CYS:SG	2.34	0.68
1:L:405:GLN:HG2	1:L:406:LEU:HD12	1.75	0.68
1:M:117:PRO:O	1:M:121:VAL:HG13	1.93	0.68
1:P:77:MET:HE2	1:P:487:LEU:HG	1.73	0.68
1:A:72:HIS:HD2	1:A:73:PRO:HD2	1.57	0.68
1:A:233:ALA:HA	1:A:315:LEU:HD11	1.75	0.68
1:C:391:MET:HE1	1:C:438:ARG:CB	2.24	0.68
1:E:153:ILE:HG22	1:E:469:PRO:HD3	1.75	0.68
1:F:96:ALA:HB1	1:F:480:ALA:CB	2.24	0.68
1:G:197:LYS:HA	1:G:355:ILE:CG2	2.22	0.68
1:H:134:LEU:HD12	1:H:393:LEU:CD1	2.23	0.68
1:J:62:VAL:HG13	1:J:63:THR:N	2.09	0.68
1:J:368:VAL:CG1	1:J:469:PRO:CB	2.71	0.68
1:K:174:ILE:CG2	1:K:362:VAL:CG2	2.69	0.68
1:L:36:ARG:CG	1:L:37:SER:H	2.07	0.68
1:O:254:ILE:HG21	1:O:262:LEU:CD1	2.23	0.68
1:P:42:LYS:CG	1:P:425:ASN:HB2	2.23	0.68
1:P:251:VAL:HG13	1:P:276:LEU:HG	1.74	0.68
1:B:38:THR:HG21	1:B:46:LYS:HE2	1.74	0.68
1:B:150:LEU:HD23	1:B:175:VAL:HG13	1.75	0.68
1:F:119:ILE:CG2	1:F:403:ARG:HB2	2.22	0.68
1:H:36:ARG:HG3	1:H:37:SER:N	2.09	0.68
1:H:132:GLN:HA	1:H:132:GLN:NE2	2.09	0.68
1:O:119:ILE:HD12	1:O:403:ARG:HG3	1.76	0.68
1:P:59:ASN:O	1:P:64:ILE:HD11	1.94	0.68
1:F:197:LYS:CA	1:F:355:ILE:HG21	2.23	0.68
1:G:96:ALA:O	1:G:480:ALA:HB1	1.93	0.68
1:H:93:THR:O	1:H:97:VAL:HG13	1.93	0.68
1:H:391:MET:HE1	1:H:438:ARG:CA	2.22	0.68
1:I:194:LYS:HG2	1:I:195:ILE:H	1.58	0.68
1:J:154:ALA:CB	1:J:174:ILE:HD11	2.17	0.68
1:J:391:MET:CE	1:J:438:ARG:CD	2.72	0.68
1:K:134:LEU:CD1	1:K:393:LEU:HG	2.23	0.68
1:K:152:LYS:HG2	1:K:465:GLY:HA2	1.75	0.68
1:L:403:ARG:HB3	1:L:406:LEU:HD22	1.74	0.68
1:M:124:TYR:CE1	1:M:407:ALA:CB	2.77	0.68
1:N:47:MET:HE2	1:O:493:VAL:HG11	1.76	0.68
1:O:27:ALA:HB1	1:O:75:ALA:HB2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:134:LEU:HD11	1:A:393:LEU:HD21	1.76	0.68
1:D:195:ILE:HD13	1:D:195:ILE:N	2.09	0.68
1:H:97:VAL:O	1:H:100:ALA:HB3	1.94	0.68
1:K:30:ILE:CG2	1:K:31:ILE:HD13	2.23	0.68
1:M:23:MET:C	1:M:24:ASN:HD22	2.01	0.68
1:P:139:ALA:CB	1:P:377:ARG:CD	2.72	0.68
1:A:31:ILE:CG2	1:A:65:LEU:HD21	2.23	0.67
1:C:130:LYS:NZ	1:C:134:LEU:HD11	2.08	0.67
1:D:38:THR:CG2	1:D:46:LYS:HD2	2.24	0.67
1:D:118:THR:HG22	1:D:118:THR:O	1.94	0.67
1:E:123:GLY:HA3	1:E:407:ALA:HB3	1.72	0.67
1:E:262:LEU:HD11	1:E:310:LEU:CD2	2.23	0.67
1:F:124:TYR:CE1	1:F:407:ALA:CA	2.75	0.67
1:F:276:LEU:HD12	1:F:281:ILE:HG22	1.76	0.67
1:F:384:SER:CB	1:F:441:HIS:HE1	2.07	0.67
1:G:115:VAL:HG11	1:G:403:ARG:NE	2.08	0.67
1:H:135:LEU:HD23	1:H:138:ILE:HD11	1.76	0.67
1:I:418:ILE:O	1:I:422:LEU:HG	1.94	0.67
1:J:44:MET:HB3	1:K:491:ASP:OD1	1.94	0.67
1:J:130:LYS:CE	1:J:134:LEU:HD11	2.23	0.67
1:K:119:ILE:HD12	1:K:403:ARG:HG3	1.75	0.67
1:K:130:LYS:HD3	1:K:393:LEU:HD23	1.75	0.67
1:K:298:ALA:O	1:K:337:CYS:HB3	1.94	0.67
1:L:119:ILE:HG21	1:L:403:ARG:CB	2.20	0.67
1:L:254:ILE:HD13	1:L:262:LEU:CD1	2.24	0.67
1:N:384:SER:HA	1:N:441:HIS:CE1	2.29	0.67
1:O:233:ALA:CB	1:O:310:LEU:CD1	2.72	0.67
1:P:262:LEU:CD1	1:P:310:LEU:HD23	2.23	0.67
1:A:44:MET:HG2	1:H:491:ASP:OD1	1.94	0.67
1:A:383:GLY:HA2	1:A:386:GLU:CG	2.22	0.67
1:B:42:LYS:HB3	1:B:425:ASN:HB2	1.76	0.67
1:C:276:LEU:HD13	1:C:281:ILE:HD12	1.74	0.67
1:D:123:GLY:HA3	1:D:407:ALA:HB3	1.75	0.67
1:D:178:VAL:HG21	1:D:366:VAL:HG13	1.74	0.67
1:D:239:ILE:CG2	1:D:268:ILE:HG23	2.23	0.67
1:E:431:ILE:CD1	1:N:403:ARG:HD3	2.24	0.67
1:F:42:LYS:HB3	1:F:425:ASN:HB2	1.75	0.67
1:F:134:LEU:HD22	1:F:392:LYS:CE	2.25	0.67
1:G:223:MET:CG	1:G:282:VAL:HA	2.24	0.67
1:G:351:THR:O	1:G:355:ILE:HG13	1.94	0.67
1:I:212:VAL:HG23	1:I:298:ALA:HB2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:34:THR:HB	1:K:35:VAL:HG22	1.77	0.67
1:L:39:LEU:HD13	1:L:40:GLY:N	2.08	0.67
1:M:31:ILE:CG2	1:M:65:LEU:HD22	2.24	0.67
1:M:193:ILE:HD12	1:M:366:VAL:HG11	1.75	0.67
1:N:130:LYS:NZ	1:N:134:LEU:HD21	2.08	0.67
1:N:138:ILE:HG13	1:N:139:ALA:N	2.09	0.67
1:N:233:ALA:CA	1:N:315:LEU:CD2	2.66	0.67
1:O:139:ALA:HB2	1:O:470:LEU:HD11	1.76	0.67
1:O:190:LYS:HZ1	1:O:367:GLY:HA2	1.58	0.67
1:A:448:CYS:O	1:A:449:ALA:HB2	1.94	0.67
1:D:154:ALA:HB2	1:D:174:ILE:HD11	1.74	0.67
1:E:134:LEU:HD12	1:E:393:LEU:HG	1.75	0.67
1:F:420:ARG:HH21	1:F:430:ALA:CB	1.95	0.67
1:G:42:LYS:HG3	1:G:425:ASN:CA	2.23	0.67
1:G:124:TYR:CE1	1:G:407:ALA:CA	2.74	0.67
1:J:347:ILE:CG2	1:J:355:ILE:CG2	2.65	0.67
1:M:232:ILE:HD13	1:M:261:VAL:CG1	2.24	0.67
1:N:233:ALA:CB	1:N:315:LEU:CD1	2.71	0.67
1:P:351:THR:O	1:P:355:ILE:HG13	1.95	0.67
1:A:156:THR:CG2	1:A:468:GLU:HA	2.24	0.67
1:A:251:VAL:CG1	1:A:276:LEU:HD13	2.24	0.67
1:B:117:PRO:O	1:B:121:VAL:HG13	1.93	0.67
1:B:387:VAL:O	1:B:390:SER:HB3	1.93	0.67
1:F:118:THR:HG21	1:G:42:LYS:NZ	2.10	0.67
1:I:208:LEU:CD2	1:I:343:VAL:HG21	2.24	0.67
1:I:347:ILE:CG2	1:I:358:VAL:CG1	2.72	0.67
1:J:379:VAL:HG22	1:J:380:SER:N	2.07	0.67
1:K:96:ALA:HA	1:K:480:ALA:CB	2.25	0.67
1:K:124:TYR:CE1	1:K:407:ALA:CA	2.73	0.67
1:K:178:VAL:HG11	1:K:366:VAL:CG1	2.23	0.67
1:L:103:LEU:CD2	1:L:411:PHE:CE2	2.74	0.67
1:L:193:ILE:HD12	1:L:366:VAL:CG1	2.25	0.67
1:N:100:ALA:O	1:N:104:LEU:HG	1.95	0.67
1:N:123:GLY:HA3	1:N:407:ALA:HB3	1.73	0.67
1:P:268:ILE:HG21	1:P:273:GLN:CG	2.23	0.67
1:P:391:MET:HE3	1:P:438:ARG:CG	2.24	0.67
1:A:316:GLY:O	1:A:317:ASP:HB2	1.94	0.67
1:C:96:ALA:HA	1:C:480:ALA:HB2	1.76	0.67
1:D:99:VAL:HG13	1:D:418:ILE:HD11	1.74	0.67
1:D:232:ILE:HG13	1:D:261:VAL:HG11	1.77	0.67
1:F:387:VAL:O	1:F:390:SER:HB3	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:223:MET:HE2	1:G:281:ILE:O	1.93	0.67
1:I:26:LEU:O	1:I:30:ILE:HG13	1.94	0.67
1:I:138:ILE:HD11	1:I:385:THR:HG23	1.73	0.67
1:J:197:LYS:CB	1:J:355:ILE:CG2	2.67	0.67
1:K:117:PRO:O	1:K:120:VAL:HG12	1.94	0.67
1:M:149:ILE:O	1:M:153:ILE:HG13	1.94	0.67
1:M:174:ILE:HD12	1:M:365:ALA:HB1	1.75	0.67
1:M:403:ARG:HG2	1:M:403:ARG:HH11	1.59	0.67
1:O:22:ARG:HA	1:O:25:ILE:HD12	1.76	0.67
1:O:232:ILE:HD13	1:O:299:THR:HG21	1.74	0.67
1:O:389:LEU:CD1	1:O:415:LEU:HD13	2.23	0.67
1:A:251:VAL:HG13	1:A:276:LEU:CD2	2.24	0.67
1:B:377:ARG:CD	1:B:470:LEU:CD1	2.70	0.67
1:F:124:TYR:CD1	1:F:407:ALA:HB1	2.29	0.67
1:I:174:ILE:HG22	1:I:362:VAL:HB	1.77	0.67
1:K:368:VAL:HB	1:K:469:PRO:CB	2.25	0.67
1:L:233:ALA:HA	1:L:315:LEU:CG	2.24	0.67
1:L:234:LEU:CD2	1:L:296:ALA:HB2	2.25	0.67
1:N:103:LEU:HD21	1:N:411:PHE:CD2	2.30	0.67
1:N:156:THR:CG2	1:N:468:GLU:HA	2.24	0.67
1:N:389:LEU:CD1	1:N:415:LEU:HD13	2.25	0.67
1:A:206:THR:HG21	1:A:347:ILE:HG22	1.75	0.67
1:B:281:ILE:CG2	1:B:281:ILE:O	2.43	0.67
1:F:368:VAL:CG2	1:F:469:PRO:HG2	2.24	0.67
1:J:196:GLU:O	1:J:347:ILE:HG22	1.95	0.67
1:K:119:ILE:CD1	1:K:403:ARG:HA	2.25	0.67
1:K:251:VAL:CG1	1:K:276:LEU:HD22	2.24	0.67
1:L:124:TYR:HE1	1:L:407:ALA:HA	1.60	0.67
1:M:42:LYS:CE	1:M:426:ALA:CB	2.60	0.67
1:M:134:LEU:HD12	1:M:393:LEU:HD21	1.73	0.67
1:O:254:ILE:HG22	1:O:281:ILE:HD13	1.77	0.67
1:O:369:VAL:O	1:O:369:VAL:CG2	2.41	0.67
1:P:276:LEU:CD2	1:P:281:ILE:CD1	2.70	0.67
1:A:39:LEU:HB3	1:A:94:THR:HG21	1.77	0.67
1:B:134:LEU:HD11	1:B:393:LEU:HD21	1.75	0.67
1:B:377:ARG:CZ	1:B:470:LEU:HD13	2.25	0.67
1:B:494:ILE:CG2	1:C:48:LEU:HA	2.25	0.67
1:C:219:VAL:HG21	1:C:285:ARG:HB2	1.76	0.67
1:D:96:ALA:HA	1:D:480:ALA:HB2	1.77	0.67
1:E:33:GLU:O	1:E:36:ARG:HG2	1.95	0.67
1:E:459:GLU:HG2	1:E:461:MET:CE	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:124:TYR:HE1	1:F:407:ALA:C	2.02	0.67
1:F:212:VAL:HG23	1:F:298:ALA:CB	2.22	0.67
1:G:106:LYS:HA	1:G:109:GLU:HG3	1.77	0.67
1:G:174:ILE:HG22	1:G:362:VAL:CG2	2.23	0.67
1:H:116:HIS:CG	1:H:117:PRO:CD	2.77	0.67
1:I:105:ARG:NH1	1:I:106:LYS:HG2	2.09	0.67
1:I:130:LYS:HG2	1:I:393:LEU:CD2	2.24	0.67
1:I:391:MET:CE	1:I:438:ARG:HB3	2.25	0.67
1:J:368:VAL:HG11	1:J:472:VAL:CG2	2.24	0.67
1:N:106:LYS:HE3	1:N:109:GLU:CD	2.18	0.67
1:O:132:GLN:HE22	1:O:478:GLN:HE21	1.40	0.67
1:B:31:ILE:HG22	1:B:65:LEU:HD21	1.77	0.67
1:B:377:ARG:HD2	1:B:470:LEU:HD11	1.77	0.67
1:E:418:ILE:O	1:E:422:LEU:HG	1.95	0.67
1:G:233:ALA:CA	1:G:315:LEU:HG	2.23	0.67
1:H:431:ILE:HG13	1:I:406:LEU:HD21	1.77	0.67
1:I:239:ILE:CD1	1:I:254:ILE:HD11	2.25	0.67
1:J:34:THR:CB	1:K:14:ARG:HH22	2.06	0.67
1:J:233:ALA:HA	1:J:315:LEU:CG	2.25	0.67
1:K:110:LEU:C	1:K:112:ASP:H	2.02	0.67
1:K:232:ILE:HG13	1:K:261:VAL:HG11	1.76	0.67
1:L:16:MET:O	1:L:16:MET:CG	2.43	0.67
1:L:158:ILE:HG12	1:L:361:ALA:CB	2.10	0.67
1:N:134:LEU:HD22	1:N:392:LYS:HZ2	1.60	0.67
1:P:42:LYS:CE	1:P:426:ALA:HB2	2.25	0.67
1:A:31:ILE:HG21	1:A:65:LEU:HD21	1.77	0.67
1:A:431:ILE:HD13	1:J:403:ARG:CG	2.23	0.67
1:C:403:ARG:O	1:C:406:LEU:HD22	1.94	0.67
1:E:116:HIS:ND1	1:E:117:PRO:HD2	2.10	0.67
1:G:34:THR:HG22	1:G:35:VAL:N	2.09	0.67
1:G:89:VAL:HG11	1:G:472:VAL:HA	1.77	0.67
1:G:89:VAL:HG21	1:G:368:VAL:HG12	1.76	0.67
1:H:233:ALA:CA	1:H:315:LEU:CD2	2.73	0.67
1:I:38:THR:CG2	1:I:46:LYS:HE2	2.25	0.67
1:I:232:ILE:HG12	1:I:299:THR:HG21	1.77	0.67
1:L:191:ASP:O	1:L:294:LYS:HE3	1.93	0.67
1:M:158:ILE:HD13	1:M:170:LEU:HD12	1.77	0.67
1:M:195:ILE:O	1:M:195:ILE:HG12	1.93	0.67
1:M:276:LEU:HD13	1:M:281:ILE:HD12	1.77	0.67
1:O:101:GLY:O	1:O:104:LEU:HB2	1.95	0.67
1:O:420:ARG:HG2	1:O:420:ARG:HH11	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:255:LYS:HG3	1:P:255:LYS:O	1.94	0.67
1:D:156:THR:HG21	1:D:468:GLU:HB3	1.77	0.66
1:E:116:HIS:CG	1:E:117:PRO:CD	2.79	0.66
1:E:379:VAL:CG1	1:E:470:LEU:CD2	2.71	0.66
1:E:384:SER:HB3	1:E:441:HIS:HE1	1.60	0.66
1:F:431:ILE:HD11	1:O:402:GLY:C	2.20	0.66
1:G:31:ILE:HG21	1:G:65:LEU:CG	2.24	0.66
1:G:142:VAL:HG11	1:G:378:ILE:HD13	1.77	0.66
1:G:377:ARG:CD	1:G:470:LEU:HD12	2.25	0.66
1:H:96:ALA:O	1:H:480:ALA:HB1	1.94	0.66
1:I:42:LYS:HD2	1:I:425:ASN:C	2.20	0.66
1:I:235:LEU:HD12	1:I:262:LEU:HD21	1.77	0.66
1:J:235:LEU:CG	1:J:310:LEU:HD13	2.19	0.66
1:M:400:ILE:HD11	1:M:404:GLU:O	1.95	0.66
1:M:459:GLU:HB3	1:M:461:MET:HE2	1.77	0.66
1:N:364:ASP:O	1:N:368:VAL:HG22	1.95	0.66
1:O:39:LEU:CG	1:O:40:GLY:H	2.00	0.66
1:O:78:LEU:CD1	1:O:487:LEU:HD11	2.25	0.66
1:O:119:ILE:HG21	1:O:403:ARG:HD2	1.75	0.66
1:P:233:ALA:HB1	1:P:310:LEU:CG	2.24	0.66
1:A:38:THR:HG23	1:A:46:LYS:HZ3	1.59	0.66
1:A:116:HIS:CE1	1:A:118:THR:HG23	2.30	0.66
1:A:134:LEU:HD12	1:A:393:LEU:HD11	1.77	0.66
1:A:139:ALA:CB	1:A:377:ARG:CG	2.72	0.66
1:A:155:MET:CB	1:A:167:LYS:HG3	2.25	0.66
1:A:368:VAL:CG2	1:A:469:PRO:HG3	2.25	0.66
1:B:124:TYR:N	1:B:124:TYR:HD1	1.91	0.66
1:B:178:VAL:HG22	1:B:366:VAL:HG22	1.77	0.66
1:B:233:ALA:CB	1:B:310:LEU:HD22	2.24	0.66
1:B:235:LEU:H	1:B:292:MET:HE1	1.60	0.66
1:B:251:VAL:HG13	1:B:276:LEU:HG	1.73	0.66
1:C:152:LYS:HD2	1:C:465:GLY:HA2	1.76	0.66
1:C:379:VAL:CG1	1:C:473:LYS:HG3	2.25	0.66
1:D:120:VAL:CG2	1:D:488:LEU:CD1	2.73	0.66
1:D:178:VAL:CG2	1:D:366:VAL:HG13	2.24	0.66
1:E:235:LEU:CD2	1:E:262:LEU:HD21	2.25	0.66
1:F:347:ILE:CG2	1:F:358:VAL:HG12	2.21	0.66
1:I:368:VAL:CB	1:I:469:PRO:CB	2.68	0.66
1:L:22:ARG:O	1:L:26:LEU:HB2	1.96	0.66
1:L:369:VAL:O	1:L:369:VAL:HG12	1.94	0.66
1:O:119:ILE:HD12	1:O:403:ARG:CG	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:81:VAL:HG21	1:A:483:SER:CB	2.25	0.66
1:B:431:ILE:HD11	1:K:402:GLY:O	1.95	0.66
1:D:254:ILE:HG21	1:D:262:LEU:HD12	1.77	0.66
1:H:299:THR:CG2	1:H:334:VAL:HG11	2.25	0.66
1:J:386:GLU:CD	1:J:386:GLU:H	1.91	0.66
1:K:138:ILE:HD13	1:K:385:THR:OG1	1.94	0.66
1:K:264:CYS:HB2	1:K:266:LYS:O	1.94	0.66
1:L:42:LYS:HB3	1:L:425:ASN:CB	2.26	0.66
1:L:170:LEU:CD1	1:L:358:VAL:HG13	2.25	0.66
1:L:281:ILE:O	1:L:281:ILE:HG22	1.96	0.66
1:N:177:ALA:HB2	1:N:208:LEU:CD1	2.25	0.66
1:P:134:LEU:CD1	1:P:393:LEU:HD21	2.25	0.66
1:B:134:LEU:HD22	1:B:392:LYS:NZ	2.11	0.66
1:C:494:ILE:O	1:D:49:VAL:HG23	1.95	0.66
1:D:130:LYS:CD	1:D:393:LEU:CD2	2.74	0.66
1:F:36:ARG:HG3	1:F:37:SER:N	2.09	0.66
1:G:134:LEU:HD22	1:G:392:LYS:CE	2.24	0.66
1:J:387:VAL:HG21	1:J:437:VAL:HG12	1.77	0.66
1:K:138:ILE:HG12	1:K:385:THR:HG23	1.76	0.66
1:L:77:MET:HB2	1:L:487:LEU:CD2	2.26	0.66
1:L:387:VAL:O	1:L:390:SER:HB3	1.94	0.66
1:B:153:ILE:CD1	1:B:372:THR:HG21	2.26	0.66
1:B:298:ALA:O	1:B:337:CYS:HB3	1.94	0.66
1:B:389:LEU:O	1:B:393:LEU:HD12	1.95	0.66
1:E:403:ARG:CB	1:E:406:LEU:CD1	2.69	0.66
1:I:227:VAL:HG11	1:I:260:ASN:CG	2.19	0.66
1:I:368:VAL:CB	1:I:469:PRO:HG3	2.26	0.66
1:K:391:MET:CE	1:K:438:ARG:HG2	2.24	0.66
1:L:78:LEU:HD13	1:L:487:LEU:HD11	1.78	0.66
1:N:42:LYS:HG3	1:N:426:ALA:H	1.61	0.66
1:N:343:VAL:HG13	1:N:343:VAL:O	1.95	0.66
1:O:178:VAL:HG22	1:O:366:VAL:CG1	2.25	0.66
1:B:178:VAL:HG22	1:B:366:VAL:HG13	1.78	0.66
1:B:234:LEU:CD1	1:B:301:ALA:CB	2.73	0.66
1:B:377:ARG:CZ	1:B:470:LEU:CD1	2.74	0.66
1:B:431:ILE:HD12	1:K:406:LEU:HD11	1.71	0.66
1:C:153:ILE:HD11	1:C:378:ILE:HG22	1.76	0.66
1:F:139:ALA:HB3	1:F:377:ARG:HE	1.61	0.66
1:F:276:LEU:HD12	1:F:281:ILE:CG2	2.25	0.66
1:G:134:LEU:HD12	1:G:393:LEU:HD11	1.75	0.66
1:H:29:ARG:O	1:H:33:GLU:HG3	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:347:ILE:HG21	1:J:355:ILE:HG23	1.70	0.66
1:O:369:VAL:O	1:O:369:VAL:HG23	1.94	0.66
1:P:134:LEU:HD12	1:P:393:LEU:CD1	2.20	0.66
1:A:60:ASP:O	1:A:64:ILE:HG13	1.96	0.66
1:A:92:GLY:HA2	1:A:95:THR:HB	1.76	0.66
1:C:14:ARG:CZ	1:C:494:ILE:HD11	2.25	0.66
1:D:42:LYS:HG3	1:D:426:ALA:H	1.59	0.66
1:E:115:VAL:CG1	1:E:403:ARG:HE	2.08	0.66
1:H:130:LYS:HE3	1:H:134:LEU:HD11	1.77	0.66
1:K:124:TYR:CE1	1:K:407:ALA:CB	2.78	0.66
1:L:233:ALA:HA	1:L:315:LEU:HD13	1.77	0.66
1:M:42:LYS:CG	1:M:426:ALA:HB2	2.25	0.66
1:N:138:ILE:HG13	1:N:139:ALA:H	1.59	0.66
1:N:459:GLU:CD	1:N:461:MET:CE	2.69	0.66
1:O:364:ASP:O	1:O:368:VAL:HG22	1.94	0.66
1:P:170:LEU:CD1	1:P:358:VAL:HG11	2.24	0.66
1:P:191:ASP:O	1:P:294:LYS:HE3	1.95	0.66
1:P:233:ALA:HA	1:P:315:LEU:CD1	2.25	0.66
1:A:14:ARG:CZ	1:B:34:THR:HG23	2.26	0.66
1:B:36:ARG:CG	1:B:37:SER:H	2.09	0.66
1:B:96:ALA:C	1:B:480:ALA:HB1	2.20	0.66
1:B:138:ILE:HG22	1:B:388:GLU:HG2	1.78	0.66
1:D:156:THR:HG22	1:D:468:GLU:HA	1.78	0.66
1:E:130:LYS:HD2	1:E:393:LEU:HD23	1.74	0.66
1:E:386:GLU:HG3	1:E:419:PRO:HG3	1.77	0.66
1:E:406:LEU:CD2	1:N:431:ILE:HG13	2.25	0.66
1:F:235:LEU:O	1:F:264:CYS:HA	1.95	0.66
1:I:119:ILE:HG21	1:I:403:ARG:CD	2.26	0.66
1:I:156:THR:HG21	1:I:468:GLU:CB	2.24	0.66
1:J:30:ILE:HG22	1:J:31:ILE:HD13	1.78	0.66
1:J:345:MET:CE	1:J:362:VAL:HG21	2.26	0.66
1:J:368:VAL:HG21	1:J:469:PRO:CG	2.26	0.66
1:K:138:ILE:HD13	1:K:385:THR:CG2	2.26	0.66
1:K:232:ILE:CG1	1:K:261:VAL:HG11	2.26	0.66
1:M:263:PHE:CE1	1:M:332:ILE:HG21	2.31	0.66
1:N:115:VAL:CG1	1:N:119:ILE:HB	2.26	0.66
1:O:152:LYS:HE3	1:O:462:CYS:O	1.95	0.66
1:O:254:ILE:CG2	1:O:259:ALA:HB3	2.25	0.66
1:P:115:VAL:HG11	1:P:403:ARG:CZ	2.25	0.66
1:P:130:LYS:HG3	1:P:393:LEU:CD2	2.26	0.66
1:B:134:LEU:HD11	1:B:393:LEU:CD2	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:156:THR:HG21	1:B:468:GLU:CB	2.26	0.66
1:B:254:ILE:HD13	1:B:262:LEU:CD1	2.25	0.66
1:C:170:LEU:O	1:C:174:ILE:HG23	1.95	0.66
1:D:235:LEU:CG	1:D:310:LEU:HG	2.25	0.66
1:D:459:GLU:HG2	1:D:461:MET:HE1	1.76	0.66
1:E:62:VAL:HG13	1:E:63:THR:N	2.11	0.66
1:E:206:THR:HG21	1:E:347:ILE:CG2	2.26	0.66
1:E:207:GLU:OE2	1:E:346:LEU:HD13	1.96	0.66
1:G:45:ASP:OD1	1:G:45:ASP:N	2.25	0.66
1:I:153:ILE:HG23	1:I:469:PRO:HD3	1.77	0.66
1:I:232:ILE:HG22	1:I:233:ALA:N	2.11	0.66
1:J:311:SER:O	1:J:315:LEU:HB2	1.96	0.66
1:K:119:ILE:CD1	1:K:403:ARG:HG3	2.26	0.66
1:L:234:LEU:CD2	1:L:301:ALA:HB3	2.25	0.66
1:M:232:ILE:CD1	1:M:261:VAL:HG11	2.23	0.66
1:N:106:LYS:O	1:N:109:GLU:HB2	1.96	0.66
1:N:235:LEU:O	1:N:264:CYS:HA	1.96	0.66
1:O:178:VAL:HG21	1:O:366:VAL:HG22	1.77	0.66
1:O:197:LYS:HB3	1:O:355:ILE:HB	1.76	0.66
1:P:170:LEU:HD21	1:P:358:VAL:HG22	1.77	0.66
1:B:211:GLY:O	1:B:212:VAL:HG23	1.96	0.66
1:D:96:ALA:CA	1:D:480:ALA:HB2	2.26	0.66
1:E:42:LYS:HB3	1:E:425:ASN:HB3	1.78	0.66
1:E:106:LYS:HA	1:E:106:LYS:CE	2.22	0.66
1:E:139:ALA:HA	1:E:377:ARG:HG2	1.78	0.66
1:G:150:LEU:CD2	1:G:175:VAL:HG13	2.06	0.66
1:L:345:MET:HE2	1:L:362:VAL:HG11	1.77	0.66
1:L:347:ILE:HG21	1:L:358:VAL:HB	1.78	0.66
1:L:405:GLN:CG	1:L:406:LEU:HD12	2.25	0.66
1:N:119:ILE:HD11	1:N:403:ARG:HH12	1.61	0.66
1:N:223:MET:CE	1:N:283:ALA:HB3	2.26	0.66
1:O:177:ALA:O	1:O:181:VAL:HG13	1.96	0.66
1:P:234:LEU:HD11	1:P:301:ALA:CB	2.26	0.66
1:A:166:ALA:HB3	1:A:170:LEU:HD21	1.78	0.65
1:F:158:ILE:HD11	1:F:170:LEU:HB3	1.77	0.65
1:I:197:LYS:CG	1:I:197:LYS:O	2.41	0.65
1:J:42:LYS:HG3	1:J:425:ASN:CB	2.24	0.65
1:J:170:LEU:CD2	1:J:358:VAL:CG1	2.73	0.65
1:K:170:LEU:HD13	1:K:358:VAL:HG13	1.77	0.65
1:A:82:ALA:HB2	1:A:97:VAL:HG11	1.78	0.65
1:A:96:ALA:HA	1:A:480:ALA:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:119:ILE:HD12	1:C:403:ARG:CD	2.26	0.65
1:F:100:ALA:O	1:F:104:LEU:HG	1.95	0.65
1:J:42:LYS:HE3	1:K:118:THR:HG21	1.76	0.65
1:M:208:LEU:HD11	1:M:343:VAL:CG2	2.22	0.65
1:N:346:LEU:HD22	1:N:348:ARG:HG2	1.78	0.65
1:A:386:GLU:H	1:A:386:GLU:CD	2.03	0.65
1:A:420:ARG:CG	1:A:420:ARG:NH1	2.50	0.65
1:A:469:PRO:HG2	1:A:472:VAL:HG21	1.78	0.65
1:C:197:LYS:CA	1:C:355:ILE:CG2	2.69	0.65
1:E:383:GLY:HA2	1:E:386:GLU:CG	2.26	0.65
1:F:115:VAL:HG11	1:F:403:ARG:NE	2.10	0.65
1:F:127:ALA:HB2	1:F:408:VAL:HG12	1.77	0.65
1:J:158:ILE:CD1	1:J:170:LEU:CB	2.74	0.65
1:M:47:MET:HE3	1:N:493:VAL:HG13	1.78	0.65
1:N:42:LYS:NZ	1:O:118:THR:HG22	2.10	0.65
1:N:268:ILE:HB	1:N:273:GLN:NE2	2.12	0.65
1:N:414:ALA:O	1:N:417:VAL:HG12	1.96	0.65
1:P:218:ARG:HB2	1:P:323:GLU:OE2	1.97	0.65
1:B:379:VAL:HG12	1:B:470:LEU:HD23	1.78	0.65
1:C:232:ILE:O	1:C:232:ILE:HG22	1.96	0.65
1:D:73:PRO:CB	1:E:47:MET:HE3	2.26	0.65
1:D:77:MET:HE1	1:D:486:MET:CE	2.15	0.65
1:D:368:VAL:CB	1:D:469:PRO:HG2	2.24	0.65
1:E:72:HIS:HB2	1:E:73:PRO:HD2	1.77	0.65
1:F:406:LEU:HD12	1:F:406:LEU:N	2.11	0.65
1:G:383:GLY:HA2	1:G:386:GLU:CG	2.26	0.65
1:H:166:ALA:HB3	1:H:203:ILE:HB	1.78	0.65
1:I:347:ILE:HG21	1:I:358:VAL:HB	1.79	0.65
1:I:347:ILE:HG21	1:I:358:VAL:HG12	1.78	0.65
1:J:321:VAL:HG22	1:J:334:VAL:HG13	1.77	0.65
1:K:197:LYS:HB3	1:K:355:ILE:HG22	1.78	0.65
1:K:227:VAL:HG11	1:K:260:ASN:CG	2.22	0.65
1:L:262:LEU:HD11	1:L:310:LEU:CD2	2.27	0.65
1:M:416:GLU:O	1:M:420:ARG:HB2	1.97	0.65
1:N:377:ARG:CZ	1:N:377:ARG:HB2	2.25	0.65
1:O:77:MET:CE	1:O:486:MET:CE	2.71	0.65
1:A:30:ILE:HG22	1:A:31:ILE:CA	2.26	0.65
1:A:130:LYS:CD	1:A:393:LEU:CD2	2.75	0.65
1:A:142:VAL:HG11	1:A:378:ILE:HD13	1.77	0.65
1:B:130:LYS:NZ	1:B:396:TYR:HB2	2.11	0.65
1:D:233:ALA:HA	1:D:315:LEU:CD2	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:234:LEU:H	1:F:315:LEU:CD2	2.10	0.65
1:G:235:LEU:CD2	1:G:310:LEU:HD22	2.27	0.65
1:G:345:MET:HE1	1:G:362:VAL:CG2	2.27	0.65
1:I:64:ILE:HG22	1:I:65:LEU:HD22	1.76	0.65
1:I:321:VAL:HG22	1:I:334:VAL:HG13	1.78	0.65
1:I:467:VAL:O	1:I:467:VAL:HG22	1.96	0.65
1:L:116:HIS:HB3	1:L:118:THR:OG1	1.97	0.65
1:M:494:ILE:O	1:M:494:ILE:CG2	2.45	0.65
1:N:115:VAL:CG2	1:N:119:ILE:HG13	2.26	0.65
1:N:403:ARG:CG	1:N:403:ARG:NH1	1.88	0.65
1:O:178:VAL:CG2	1:O:366:VAL:HG13	2.25	0.65
1:A:116:HIS:CG	1:A:117:PRO:HD2	2.31	0.65
1:B:124:TYR:CE1	1:B:407:ALA:CB	2.79	0.65
1:B:206:THR:HB	1:B:347:ILE:CG2	2.24	0.65
1:D:195:ILE:CG1	1:D:359:ALA:HB1	2.26	0.65
1:E:31:ILE:HG21	1:E:65:LEU:HD22	1.78	0.65
1:E:420:ARG:NH1	1:E:420:ARG:CG	2.53	0.65
1:G:31:ILE:HG23	1:G:65:LEU:HD21	1.78	0.65
1:H:377:ARG:HG2	1:H:470:LEU:CD2	2.21	0.65
1:H:469:PRO:HD2	1:H:472:VAL:HG21	1.79	0.65
1:I:96:ALA:O	1:I:480:ALA:HB1	1.97	0.65
1:J:117:PRO:O	1:J:120:VAL:HG12	1.96	0.65
1:J:377:ARG:HE	1:J:470:LEU:HD13	1.62	0.65
1:K:115:VAL:HG11	1:K:403:ARG:CD	2.27	0.65
1:K:211:GLY:C	1:K:298:ALA:HB1	2.21	0.65
1:K:368:VAL:HG21	1:K:469:PRO:HG2	1.77	0.65
1:L:116:HIS:HD2	1:L:118:THR:CG2	2.10	0.65
1:L:223:MET:HE1	1:L:283:ALA:HB3	1.79	0.65
1:L:469:PRO:HG2	1:L:472:VAL:CG2	2.26	0.65
1:O:124:TYR:CE1	1:O:407:ALA:CB	2.79	0.65
1:A:78:LEU:HD12	1:A:487:LEU:HD11	1.78	0.65
1:A:117:PRO:O	1:A:120:VAL:HG12	1.96	0.65
1:A:130:LYS:CG	1:A:393:LEU:HD21	2.27	0.65
1:B:276:LEU:CD2	1:B:281:ILE:HD12	2.16	0.65
1:C:130:LYS:CD	1:C:393:LEU:CD2	2.75	0.65
1:C:212:VAL:HG23	1:C:298:ALA:HB2	1.79	0.65
1:D:89:VAL:CG1	1:D:472:VAL:HA	2.27	0.65
1:D:254:ILE:HD13	1:D:262:LEU:HD11	1.78	0.65
1:D:268:ILE:CB	1:D:273:GLN:HE21	2.09	0.65
1:F:158:ILE:CG1	1:F:361:ALA:HB1	2.24	0.65
1:F:276:LEU:HB3	1:F:281:ILE:HG13	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:105:ARG:HH12	1:G:106:LYS:HD2	1.61	0.65
1:G:170:LEU:HD21	1:G:358:VAL:CG1	2.23	0.65
1:G:383:GLY:HA2	1:G:386:GLU:HG2	1.78	0.65
1:G:473:LYS:HA	1:G:473:LYS:HE3	1.79	0.65
1:H:254:ILE:HG21	1:H:262:LEU:HD12	1.78	0.65
1:I:174:ILE:CG2	1:I:362:VAL:HB	2.27	0.65
1:L:296:ALA:HB1	1:L:301:ALA:O	1.96	0.65
1:M:34:THR:HG21	1:M:65:LEU:HD21	1.78	0.65
1:O:177:ALA:HB2	1:O:208:LEU:HD11	1.79	0.65
1:O:299:THR:CG2	1:O:318:ALA:HB2	2.24	0.65
1:P:34:THR:HG22	1:P:35:VAL:HG22	1.79	0.65
1:P:206:THR:HB	1:P:347:ILE:CG2	2.27	0.65
1:A:175:VAL:O	1:A:175:VAL:HG12	1.96	0.65
1:C:178:VAL:O	1:C:178:VAL:HG12	1.96	0.65
1:C:212:VAL:HG21	1:C:294:LYS:C	2.21	0.65
1:E:102:GLU:C	1:E:104:LEU:H	2.03	0.65
1:F:94:THR:O	1:F:98:VAL:HG23	1.96	0.65
1:H:135:LEU:CD2	1:H:385:THR:CG2	2.75	0.65
1:H:178:VAL:HB	1:H:193:ILE:HD11	1.78	0.65
1:H:400:ILE:HD11	1:H:408:VAL:HG21	1.79	0.65
1:I:42:LYS:HD2	1:I:426:ALA:CA	2.27	0.65
1:I:235:LEU:CD2	1:I:310:LEU:CD1	2.64	0.65
1:I:405:GLN:HG2	1:I:406:LEU:N	2.11	0.65
1:J:81:VAL:HG11	1:J:483:SER:HB3	1.78	0.65
1:J:190:LYS:NZ	1:J:367:GLY:HA2	2.12	0.65
1:K:173:ILE:HG13	1:K:345:MET:SD	2.36	0.65
1:L:469:PRO:CD	1:L:472:VAL:HG21	2.26	0.65
1:M:99:VAL:HG12	1:M:418:ILE:HD11	1.78	0.65
1:N:170:LEU:HD21	1:N:358:VAL:HG22	1.77	0.65
1:O:152:LYS:HD2	1:O:465:GLY:HA3	1.78	0.65
1:O:211:GLY:HA2	1:O:298:ALA:HB1	1.79	0.65
1:O:391:MET:HE1	1:O:438:ARG:O	1.97	0.65
1:P:158:ILE:HB	1:P:361:ALA:CB	2.26	0.65
1:P:347:ILE:CD1	1:P:359:ALA:HB2	2.27	0.65
1:A:212:VAL:HB	1:A:298:ALA:CB	2.26	0.65
1:A:391:MET:HE1	1:A:438:ARG:HB3	1.79	0.65
1:B:96:ALA:CB	1:B:480:ALA:HB2	2.25	0.65
1:B:254:ILE:HG12	1:B:310:LEU:HD13	1.79	0.65
1:G:251:VAL:HG13	1:G:276:LEU:HD22	1.78	0.65
1:H:206:THR:CG2	1:H:348:ARG:H	1.87	0.65
1:I:255:LYS:HG3	1:I:255:LYS:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:380:SER:HB3	1:I:384:SER:CB	2.27	0.65
1:J:262:LEU:CD1	1:J:310:LEU:CD2	2.75	0.65
1:L:78:LEU:HD11	1:L:487:LEU:HD11	1.77	0.65
1:M:38:THR:CG2	1:M:46:LYS:CE	2.69	0.65
1:M:233:ALA:HB1	1:M:310:LEU:CD1	2.26	0.65
1:M:391:MET:CE	1:M:438:ARG:CB	2.71	0.65
1:O:46:LYS:HG2	1:P:492:ASP:OD2	1.96	0.65
1:O:156:THR:CG2	1:O:468:GLU:HB3	2.25	0.65
1:O:197:LYS:HB3	1:O:355:ILE:CB	2.26	0.65
1:A:152:LYS:HD3	1:A:467:VAL:HG21	1.79	0.65
1:B:130:LYS:HD2	1:B:396:TYR:CD1	2.32	0.65
1:B:494:ILE:HG22	1:C:48:LEU:HA	1.79	0.65
1:C:130:LYS:CE	1:C:393:LEU:CD2	2.74	0.65
1:C:254:ILE:HG21	1:C:262:LEU:HD13	1.79	0.65
1:D:254:ILE:CG1	1:D:310:LEU:HD12	2.22	0.65
1:E:42:LYS:HE3	1:E:426:ALA:CA	2.27	0.65
1:F:72:HIS:HD2	1:F:73:PRO:CD	2.10	0.65
1:H:156:THR:HB	1:H:467:VAL:C	2.22	0.65
1:H:358:VAL:O	1:H:362:VAL:HG12	1.97	0.65
1:J:120:VAL:HG22	1:J:124:TYR:HE2	1.58	0.65
1:J:254:ILE:HG12	1:J:310:LEU:CD2	2.27	0.65
1:L:77:MET:CE	1:L:486:MET:HE3	2.26	0.65
1:M:208:LEU:HD12	1:M:343:VAL:HG22	1.79	0.65
1:O:212:VAL:HG21	1:O:295:LEU:N	2.11	0.65
1:C:149:ILE:O	1:C:153:ILE:HG12	1.97	0.64
1:F:254:ILE:HG22	1:F:259:ALA:HB3	1.77	0.64
1:H:232:ILE:HA	1:H:261:VAL:HB	1.77	0.64
1:I:233:ALA:HB1	1:I:310:LEU:HD11	1.78	0.64
1:J:197:LYS:CA	1:J:355:ILE:HG21	2.27	0.64
1:K:138:ILE:CD1	1:K:379:VAL:HG11	2.27	0.64
1:K:262:LEU:HD12	1:K:310:LEU:HD11	1.79	0.64
1:L:42:LYS:HD2	1:L:425:ASN:C	2.21	0.64
1:L:396:TYR:O	1:L:396:TYR:CD2	2.50	0.64
1:M:298:ALA:O	1:M:337:CYS:HB3	1.96	0.64
1:N:124:TYR:CD1	1:N:124:TYR:N	2.64	0.64
1:N:377:ARG:CB	1:N:470:LEU:HD12	2.28	0.64
1:O:150:LEU:CD2	1:O:175:VAL:HG13	2.27	0.64
1:A:25:ILE:HD13	1:A:108:GLU:CG	2.27	0.64
1:A:170:LEU:CD1	1:A:358:VAL:CG1	2.76	0.64
1:A:227:VAL:HG11	1:A:260:ASN:CG	2.22	0.64
1:A:492:ASP:OD2	1:B:46:LYS:HG2	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:377:ARG:HB2	1:B:470:LEU:HD12	1.80	0.64
1:C:227:VAL:HG11	1:C:260:ASN:ND2	2.12	0.64
1:E:119:ILE:CG1	1:E:403:ARG:HD2	2.27	0.64
1:E:403:ARG:C	1:E:406:LEU:HD12	2.22	0.64
1:F:235:LEU:CD1	1:F:310:LEU:CG	2.76	0.64
1:F:276:LEU:CB	1:F:281:ILE:HG13	2.27	0.64
1:H:142:VAL:HG12	1:H:378:ILE:CD1	2.27	0.64
1:J:396:TYR:CG	1:J:396:TYR:O	2.49	0.64
1:K:42:LYS:CB	1:K:425:ASN:CB	2.71	0.64
1:M:469:PRO:HG2	1:M:472:VAL:HG11	1.79	0.64
1:N:400:ILE:HD11	1:N:408:VAL:HG11	1.78	0.64
1:O:119:ILE:CD1	1:O:403:ARG:HD2	2.26	0.64
1:O:193:ILE:HD12	1:O:366:VAL:CG2	2.26	0.64
1:O:381:GLY:HA3	1:O:461:MET:HG3	1.78	0.64
1:P:89:VAL:O	1:P:89:VAL:HG22	1.95	0.64
1:A:262:LEU:HD11	1:A:310:LEU:CD2	2.27	0.64
1:B:153:ILE:HD12	1:B:372:THR:HG21	1.78	0.64
1:D:130:LYS:HE3	1:D:393:LEU:CD2	2.26	0.64
1:E:134:LEU:CD1	1:E:392:LYS:HE3	2.25	0.64
1:E:177:ALA:CB	1:E:343:VAL:HG11	2.27	0.64
1:E:449:ALA:HB2	1:E:458:VAL:HG22	1.79	0.64
1:J:206:THR:HG22	1:J:348:ARG:H	1.62	0.64
1:K:95:THR:O	1:K:99:VAL:HG13	1.96	0.64
1:K:119:ILE:HD12	1:K:403:ARG:HB2	1.80	0.64
1:K:234:LEU:HD11	1:K:296:ALA:HB2	1.78	0.64
1:L:235:LEU:HB2	1:L:310:LEU:CD2	2.23	0.64
1:M:25:ILE:HD13	1:M:108:GLU:CD	2.21	0.64
1:M:155:MET:HE2	1:M:466:VAL:H	1.63	0.64
1:N:111:LEU:HD11	1:N:488:LEU:HD21	1.79	0.64
1:O:124:TYR:CE1	1:O:407:ALA:HA	2.22	0.64
1:O:251:VAL:HG13	1:O:276:LEU:CD1	2.22	0.64
1:A:81:VAL:HG21	1:A:483:SER:OG	1.96	0.64
1:A:206:THR:HG21	1:A:347:ILE:HG23	1.79	0.64
1:B:441:HIS:CE1	1:B:449:ALA:HA	2.32	0.64
1:C:35:VAL:HG12	1:C:64:ILE:HD13	1.79	0.64
1:D:73:PRO:CB	1:E:47:MET:CE	2.74	0.64
1:E:134:LEU:HB3	1:E:392:LYS:CE	2.28	0.64
1:G:235:LEU:HD12	1:G:264:CYS:HB3	1.77	0.64
1:H:105:ARG:NH1	1:H:106:LYS:HG2	2.12	0.64
1:H:130:LYS:CG	1:H:393:LEU:HD11	2.22	0.64
1:J:197:LYS:HB3	1:J:355:ILE:HG22	1.76	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:223:MET:CE	1:M:283:ALA:CB	2.73	0.64
1:M:469:PRO:HD2	1:M:472:VAL:HG11	1.79	0.64
1:N:138:ILE:HD12	1:N:385:THR:CB	2.26	0.64
1:A:276:LEU:HD13	1:A:281:ILE:HD12	1.79	0.64
1:C:124:TYR:HE1	1:C:407:ALA:HA	1.63	0.64
1:D:89:VAL:HG13	1:D:472:VAL:HG13	1.79	0.64
1:D:166:ALA:HB2	1:D:203:ILE:HB	1.79	0.64
1:D:195:ILE:HB	1:D:359:ALA:HB1	1.79	0.64
1:D:358:VAL:O	1:D:362:VAL:HG12	1.97	0.64
1:E:218:ARG:HD3	1:E:282:VAL:CG2	2.27	0.64
1:E:254:ILE:HD13	1:E:262:LEU:CD1	2.28	0.64
1:F:62:VAL:HG13	1:F:63:THR:N	2.11	0.64
1:F:377:ARG:CZ	1:F:470:LEU:CD1	2.75	0.64
1:G:166:ALA:CB	1:G:203:ILE:HB	2.28	0.64
1:G:431:ILE:CD1	1:P:406:LEU:HD13	2.28	0.64
1:H:177:ALA:HB2	1:H:208:LEU:HD13	1.76	0.64
1:I:30:ILE:HG22	1:I:31:ILE:CD1	2.24	0.64
1:I:368:VAL:HG11	1:I:469:PRO:HG3	1.78	0.64
1:M:130:LYS:HG3	1:M:393:LEU:HD21	1.79	0.64
1:M:192:LEU:CB	1:M:342:ALA:CB	2.74	0.64
1:N:22:ARG:HD2	1:N:23:MET:N	2.13	0.64
1:N:134:LEU:HD13	1:N:392:LYS:HE3	1.79	0.64
1:N:345:MET:HE1	1:N:362:VAL:HG11	1.79	0.64
1:N:459:GLU:CD	1:N:461:MET:HE1	2.23	0.64
1:A:150:LEU:HB3	1:A:175:VAL:HG11	1.80	0.64
1:A:234:LEU:H	1:A:315:LEU:HD21	1.62	0.64
1:A:368:VAL:HB	1:A:469:PRO:CG	2.27	0.64
1:B:97:VAL:O	1:B:100:ALA:HB3	1.98	0.64
1:B:368:VAL:HB	1:B:469:PRO:CG	2.27	0.64
1:B:401:SER:CB	1:K:435:VAL:HG11	2.28	0.64
1:C:384:SER:HA	1:C:441:HIS:HE1	1.62	0.64
1:D:77:MET:HB2	1:D:487:LEU:CD2	2.20	0.64
1:D:119:ILE:HG21	1:D:403:ARG:CG	2.28	0.64
1:D:490:ILE:H	1:D:490:ILE:HD13	1.63	0.64
1:E:81:VAL:CG1	1:E:483:SER:HB3	2.28	0.64
1:E:105:ARG:NH1	1:E:106:LYS:HG2	2.13	0.64
1:F:403:ARG:HG2	1:O:431:ILE:CD1	2.27	0.64
1:I:89:VAL:O	1:I:89:VAL:CG2	2.45	0.64
1:J:234:LEU:CD1	1:J:296:ALA:HB2	2.27	0.64
1:L:416:GLU:O	1:L:420:ARG:HB2	1.96	0.64
1:N:116:HIS:ND1	1:N:116:HIS:C	2.55	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:153:ILE:HG23	1:N:469:PRO:HD3	1.79	0.64
1:O:111:LEU:CD2	1:O:117:PRO:HB3	2.28	0.64
1:O:396:TYR:O	1:O:396:TYR:CD2	2.51	0.64
1:P:393:LEU:O	1:P:396:TYR:HB3	1.96	0.64
1:A:347:ILE:HD11	1:A:359:ALA:HB2	1.80	0.64
1:A:431:ILE:HD12	1:J:403:ARG:CD	2.28	0.64
1:B:134:LEU:CD1	1:B:393:LEU:HG	2.26	0.64
1:G:124:TYR:HE1	1:G:407:ALA:CB	2.11	0.64
1:G:403:ARG:HH11	1:G:403:ARG:CG	2.11	0.64
1:H:158:ILE:CD1	1:H:170:LEU:CB	2.75	0.64
1:J:34:THR:CB	1:K:14:ARG:NH2	2.61	0.64
1:J:63:THR:HA	1:J:66:ARG:HB2	1.79	0.64
1:J:138:ILE:C	1:J:138:ILE:CD1	2.68	0.64
1:K:232:ILE:CD1	1:K:299:THR:HG21	2.20	0.64
1:K:262:LEU:CD1	1:K:310:LEU:HD12	2.28	0.64
1:M:234:LEU:CD1	1:M:296:ALA:HB2	2.27	0.64
1:O:263:PHE:HE1	1:O:332:ILE:HD13	1.61	0.64
1:P:233:ALA:CB	1:P:315:LEU:HD11	2.28	0.64
1:A:132:GLN:O	1:A:136:LYS:HD3	1.98	0.64
1:A:166:ALA:HB3	1:A:170:LEU:HD22	1.79	0.64
1:B:105:ARG:HH12	1:B:106:LYS:HD2	1.62	0.64
1:B:377:ARG:NH1	1:B:470:LEU:HD13	2.13	0.64
1:C:14:ARG:NH1	1:C:494:ILE:HD13	2.13	0.64
1:D:197:LYS:CA	1:D:355:ILE:HG22	2.26	0.64
1:E:368:VAL:HB	1:E:469:PRO:HG3	1.71	0.64
1:E:431:ILE:HD13	1:N:403:ARG:CD	2.27	0.64
1:I:234:LEU:HD22	1:I:301:ALA:CB	2.28	0.64
1:J:178:VAL:CG2	1:J:366:VAL:HG22	2.28	0.64
1:K:130:LYS:HD3	1:K:393:LEU:CD2	2.27	0.64
1:K:138:ILE:HD13	1:K:379:VAL:HG11	1.79	0.64
1:O:42:LYS:HE3	1:P:118:THR:CG2	2.22	0.64
1:C:138:ILE:HD12	1:C:139:ALA:N	2.13	0.64
1:C:234:LEU:H	1:C:315:LEU:HD22	1.63	0.64
1:D:420:ARG:NH1	1:D:420:ARG:CG	2.59	0.64
1:E:296:ALA:HA	1:E:301:ALA:HB3	1.79	0.64
1:G:119:ILE:CG2	1:G:403:ARG:HB2	2.27	0.64
1:H:296:ALA:HA	1:H:301:ALA:HB3	1.80	0.64
1:H:299:THR:HG23	1:H:334:VAL:CG1	2.27	0.64
1:I:35:VAL:O	1:I:38:THR:HB	1.98	0.64
1:I:391:MET:CE	1:I:438:ARG:CB	2.76	0.64
1:J:459:GLU:OE2	1:J:461:MET:HA	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:42:LYS:CB	1:K:425:ASN:HB2	2.28	0.64
1:L:119:ILE:HG21	1:L:403:ARG:HD2	1.77	0.64
1:L:405:GLN:HB3	1:L:406:LEU:HD13	1.80	0.64
1:P:134:LEU:CD1	1:P:393:LEU:HD11	2.20	0.64
1:P:197:LYS:HB3	1:P:355:ILE:HG21	1.79	0.64
1:A:123:GLY:HA3	1:A:407:ALA:HB3	1.79	0.64
1:C:178:VAL:CG2	1:C:193:ILE:CD1	2.67	0.64
1:E:42:LYS:HB3	1:E:425:ASN:HB2	1.75	0.64
1:H:35:VAL:HG13	1:H:46:LYS:NZ	2.13	0.64
1:I:206:THR:HG22	1:I:348:ARG:N	2.08	0.64
1:K:124:TYR:N	1:K:124:TYR:CD1	2.62	0.64
1:K:227:VAL:HG11	1:K:260:ASN:ND2	2.13	0.64
1:M:138:ILE:HD11	1:M:385:THR:CG2	2.27	0.64
1:M:276:LEU:O	1:M:281:ILE:HB	1.98	0.64
1:P:418:ILE:O	1:P:422:LEU:HG	1.98	0.64
1:A:100:ALA:HB1	1:A:484:THR:HG23	1.78	0.63
1:A:177:ALA:HB2	1:A:208:LEU:HD11	1.79	0.63
1:A:254:ILE:HG21	1:A:262:LEU:HD13	1.81	0.63
1:D:62:VAL:CG1	1:D:63:THR:H	1.97	0.63
1:D:195:ILE:O	1:D:195:ILE:HG12	1.99	0.63
1:E:124:TYR:CE1	1:E:407:ALA:C	2.69	0.63
1:F:459:GLU:OE2	1:F:461:MET:HE1	1.98	0.63
1:G:391:MET:CE	1:G:438:ARG:CB	2.75	0.63
1:I:77:MET:HE3	1:I:487:LEU:HD23	1.79	0.63
1:I:119:ILE:HG23	1:I:403:ARG:CB	2.29	0.63
1:J:89:VAL:HG21	1:J:472:VAL:HG22	1.79	0.63
1:M:39:LEU:HB3	1:M:94:THR:HG22	1.80	0.63
1:M:310:LEU:HD22	1:M:315:LEU:HD11	1.80	0.63
1:N:81:VAL:HG21	1:N:483:SER:OG	1.96	0.63
1:N:299:THR:CG2	1:N:334:VAL:CG1	2.77	0.63
1:P:61:GLY:O	1:P:64:ILE:HG22	1.98	0.63
1:A:377:ARG:HG2	1:A:470:LEU:HG	1.80	0.63
1:B:138:ILE:HG12	1:B:139:ALA:H	1.62	0.63
1:C:281:ILE:HG22	1:C:282:VAL:O	1.98	0.63
1:E:345:MET:HE1	1:E:362:VAL:CG1	2.18	0.63
1:E:488:LEU:O	1:E:488:LEU:CG	2.45	0.63
1:F:418:ILE:HB	1:F:419:PRO:HD3	1.80	0.63
1:I:130:LYS:CE	1:I:134:LEU:HD21	2.28	0.63
1:I:469:PRO:CG	1:I:472:VAL:HG11	2.21	0.63
1:K:233:ALA:CB	1:K:310:LEU:HD21	2.13	0.63
1:L:469:PRO:HD2	1:L:472:VAL:HG21	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:99:VAL:CG1	1:M:418:ILE:HD11	2.27	0.63
1:M:158:ILE:HD11	1:M:170:LEU:HB2	1.78	0.63
1:P:30:ILE:HG22	1:P:31:ILE:HB	1.79	0.63
1:P:134:LEU:CD1	1:P:392:LYS:HE3	2.28	0.63
1:C:102:GLU:O	1:C:105:ARG:HB3	1.98	0.63
1:C:202:SER:OG	1:C:203:ILE:HG12	1.98	0.63
1:C:254:ILE:HD13	1:C:262:LEU:HD13	1.81	0.63
1:D:251:VAL:CG1	1:D:276:LEU:HD13	2.28	0.63
1:D:494:ILE:HG13	1:E:48:LEU:CD2	2.28	0.63
1:E:197:LYS:CG	1:E:197:LYS:O	2.44	0.63
1:F:136:LYS:CA	1:F:377:ARG:NH1	2.58	0.63
1:H:178:VAL:HG11	1:H:366:VAL:CG1	2.23	0.63
1:K:166:ALA:HB2	1:K:203:ILE:CG2	2.23	0.63
1:L:170:LEU:HD11	1:L:358:VAL:CG1	2.28	0.63
1:M:276:LEU:HD12	1:M:281:ILE:CD1	2.26	0.63
1:N:262:LEU:HD11	1:N:310:LEU:HD21	1.81	0.63
1:A:140:CYS:SG	1:A:447:LYS:HB3	2.38	0.63
1:A:212:VAL:HG21	1:A:294:LYS:CB	2.29	0.63
1:A:262:LEU:HD11	1:A:310:LEU:HD23	1.81	0.63
1:A:387:VAL:HG21	1:A:437:VAL:CG1	2.28	0.63
1:A:431:ILE:HD11	1:J:402:GLY:C	2.24	0.63
1:B:268:ILE:HG21	1:B:273:GLN:HG2	1.80	0.63
1:C:41:PRO:HB2	1:C:42:LYS:HE2	1.81	0.63
1:G:232:ILE:CD1	1:G:299:THR:HG21	2.28	0.63
1:H:100:ALA:O	1:H:104:LEU:HG	1.97	0.63
1:K:154:ALA:HB1	1:K:171:ALA:CB	2.29	0.63
1:K:158:ILE:HG13	1:K:361:ALA:CB	2.28	0.63
1:L:177:ALA:HB2	1:L:208:LEU:HD13	1.79	0.63
1:M:130:LYS:CG	1:M:393:LEU:HD21	2.29	0.63
1:M:232:ILE:HD12	1:M:299:THR:HG21	1.78	0.63
1:M:420:ARG:NH1	1:M:420:ARG:HB3	1.96	0.63
1:O:89:VAL:O	1:O:89:VAL:HG22	1.97	0.63
1:A:152:LYS:HE2	1:A:462:CYS:C	2.23	0.63
1:A:431:ILE:HD11	1:J:403:ARG:HA	1.80	0.63
1:B:36:ARG:HG3	1:B:37:SER:N	2.12	0.63
1:B:234:LEU:HD11	1:B:301:ALA:CB	2.28	0.63
1:B:420:ARG:NH1	1:B:420:ARG:CG	2.49	0.63
1:C:42:LYS:HD2	1:C:426:ALA:CA	2.29	0.63
1:C:383:GLY:HA2	1:C:386:GLU:HG3	1.80	0.63
1:F:211:GLY:O	1:F:298:ALA:HB2	1.99	0.63
1:F:234:LEU:HD12	1:F:296:ALA:HB2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:372:THR:O	1:I:376:GLY:HA2	1.97	0.63
1:J:82:ALA:CB	1:J:93:THR:HG22	2.15	0.63
1:J:96:ALA:HB1	1:J:480:ALA:HB2	1.79	0.63
1:K:124:TYR:CD1	1:K:407:ALA:HB1	2.34	0.63
1:K:154:ALA:O	1:K:158:ILE:HD12	1.98	0.63
1:L:403:ARG:CG	1:L:403:ARG:NH1	2.48	0.63
1:M:103:LEU:HD21	1:M:411:PHE:CD2	2.33	0.63
1:M:158:ILE:HG21	1:M:170:LEU:CD1	2.23	0.63
1:O:368:VAL:HB	1:O:469:PRO:CG	2.28	0.63
1:A:263:PHE:CG	1:A:295:LEU:CD1	2.82	0.63
1:B:170:LEU:CD2	1:B:358:VAL:CG1	2.76	0.63
1:B:391:MET:CE	1:B:438:ARG:C	2.72	0.63
1:C:206:THR:HG22	1:C:348:ARG:H	1.64	0.63
1:D:42:LYS:CD	1:D:426:ALA:N	2.61	0.63
1:D:232:ILE:C	1:D:315:LEU:HD13	2.24	0.63
1:E:124:TYR:CE1	1:E:407:ALA:HA	2.34	0.63
1:E:134:LEU:CD1	1:E:393:LEU:HG	2.28	0.63
1:E:153:ILE:HG23	1:E:468:GLU:HA	1.80	0.63
1:G:404:GLU:O	1:G:408:VAL:HG13	1.98	0.63
1:H:38:THR:HB	1:H:46:LYS:HZ2	1.63	0.63
1:H:116:HIS:ND1	1:H:117:PRO:HD2	2.13	0.63
1:H:130:LYS:HZ1	1:H:134:LEU:HD21	1.64	0.63
1:H:178:VAL:O	1:H:178:VAL:CG2	2.45	0.63
1:H:223:MET:HE2	1:H:281:ILE:O	1.99	0.63
1:H:233:ALA:CB	1:H:310:LEU:HD21	2.23	0.63
1:I:276:LEU:CD1	1:I:281:ILE:HD12	2.29	0.63
1:I:315:LEU:CD2	1:I:315:LEU:N	2.61	0.63
1:J:377:ARG:CD	1:J:470:LEU:CD1	2.77	0.63
1:J:389:LEU:HD12	1:J:415:LEU:HD13	1.80	0.63
1:L:218:ARG:HG3	1:L:323:GLU:CG	2.26	0.63
1:P:166:ALA:CB	1:P:203:ILE:HG12	2.13	0.63
1:P:391:MET:HE3	1:P:438:ARG:NE	2.12	0.63
1:A:347:ILE:CD1	1:A:359:ALA:HB2	2.29	0.63
1:B:62:VAL:CG1	1:B:63:THR:H	2.04	0.63
1:B:78:LEU:CD1	1:B:487:LEU:HD21	2.17	0.63
1:B:81:VAL:HG11	1:B:483:SER:CB	2.28	0.63
1:B:276:LEU:HB3	1:B:281:ILE:HG22	1.76	0.63
1:D:211:GLY:C	1:D:298:ALA:CB	2.72	0.63
1:E:119:ILE:HD12	1:E:403:ARG:CG	2.28	0.63
1:G:276:LEU:HB2	1:G:281:ILE:CB	2.29	0.63
1:G:391:MET:HE1	1:G:438:ARG:HB3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:122:LYS:HA	1:H:125:GLN:CD	2.24	0.63
1:I:42:LYS:CE	1:I:426:ALA:HB2	2.16	0.63
1:K:102:GLU:C	1:K:104:LEU:H	2.05	0.63
1:L:77:MET:HA	1:L:80:GLU:OE1	1.99	0.63
1:M:197:LYS:CA	1:M:355:ILE:CG2	2.61	0.63
1:M:254:ILE:HG22	1:M:281:ILE:HD11	1.80	0.63
1:N:43:GLY:C	1:N:44:MET:HE2	2.24	0.63
1:A:130:LYS:NZ	1:A:396:TYR:HB2	2.14	0.63
1:D:152:LYS:HG2	1:D:465:GLY:HA2	1.80	0.63
1:D:254:ILE:HD13	1:D:262:LEU:HD13	1.80	0.63
1:E:42:LYS:HG3	1:E:426:ALA:N	2.13	0.63
1:G:25:ILE:HG13	1:G:108:GLU:OE2	1.99	0.63
1:G:473:LYS:NZ	1:G:473:LYS:CB	2.56	0.63
1:H:310:LEU:CD2	1:H:315:LEU:CD2	2.77	0.63
1:H:387:VAL:O	1:H:390:SER:HB3	1.99	0.63
1:H:469:PRO:CD	1:H:472:VAL:HG21	2.28	0.63
1:J:368:VAL:CB	1:J:469:PRO:HG2	2.29	0.63
1:K:47:MET:HE2	1:L:493:VAL:HG13	1.80	0.63
1:M:42:LYS:HE2	1:M:426:ALA:CA	2.28	0.63
1:M:232:ILE:HD13	1:M:263:PHE:HE2	1.64	0.63
1:N:105:ARG:NH1	1:N:106:LYS:HG2	2.14	0.63
1:N:166:ALA:HB2	1:N:203:ILE:CG1	2.23	0.63
1:P:124:TYR:CE1	1:P:407:ALA:HA	2.32	0.63
1:A:263:PHE:CD2	1:A:295:LEU:HD13	2.34	0.63
1:A:403:ARG:HD3	1:J:431:ILE:CD1	2.29	0.63
1:C:174:ILE:HD12	1:C:365:ALA:HB1	1.81	0.63
1:D:420:ARG:HH11	1:D:420:ARG:CG	2.09	0.63
1:E:26:LEU:O	1:E:30:ILE:HG13	1.98	0.63
1:E:178:VAL:HG21	1:E:366:VAL:HG21	1.81	0.63
1:E:449:ALA:HB2	1:E:458:VAL:CG2	2.29	0.63
1:I:48:LEU:C	1:I:56:VAL:HG22	2.24	0.63
1:J:299:THR:HG21	1:J:334:VAL:HG11	1.81	0.63
1:A:152:LYS:CE	1:A:465:GLY:HA2	2.29	0.62
1:B:26:LEU:O	1:B:30:ILE:HG12	1.99	0.62
1:B:493:VAL:CG1	1:C:47:MET:HE2	2.21	0.62
1:C:129:GLN:O	1:C:132:GLN:HB2	1.99	0.62
1:C:235:LEU:H	1:C:292:MET:HE1	1.64	0.62
1:E:25:ILE:HD13	1:E:108:GLU:HG3	1.80	0.62
1:E:405:GLN:NE2	1:N:438:ARG:HH22	1.97	0.62
1:F:136:LYS:CA	1:F:377:ARG:HH11	2.05	0.62
1:F:200:GLY:O	1:F:348:ARG:HB3	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:218:ARG:H	1:F:323:GLU:CD	2.07	0.62
1:G:346:LEU:HD23	1:G:347:ILE:H	1.64	0.62
1:I:25:ILE:HG22	1:I:26:LEU:N	2.13	0.62
1:I:232:ILE:CG2	1:I:233:ALA:N	2.62	0.62
1:K:77:MET:HA	1:K:80:GLU:OE1	1.98	0.62
1:K:218:ARG:NH1	1:K:282:VAL:HG21	2.13	0.62
1:N:42:LYS:CE	1:O:118:THR:HG21	2.28	0.62
1:A:129:GLN:O	1:A:132:GLN:HB2	1.98	0.62
1:A:211:GLY:C	1:A:298:ALA:CB	2.72	0.62
1:B:31:ILE:CG2	1:B:65:LEU:CD2	2.77	0.62
1:C:15:TYR:C	1:C:20:ALA:HB2	2.24	0.62
1:D:42:LYS:O	1:D:425:ASN:HB3	1.99	0.62
1:D:77:MET:HA	1:D:80:GLU:OE1	1.98	0.62
1:D:251:VAL:HG13	1:D:276:LEU:HD13	1.80	0.62
1:I:85:GLN:HE22	1:I:476:ALA:HA	1.64	0.62
1:I:233:ALA:CA	1:I:315:LEU:CD2	2.74	0.62
1:J:166:ALA:HB2	1:J:203:ILE:HG22	1.76	0.62
1:J:233:ALA:HB3	1:J:310:LEU:HD11	1.79	0.62
1:M:138:ILE:HD11	1:M:385:THR:HG21	1.81	0.62
1:N:102:GLU:HG2	1:N:417:VAL:HG11	1.81	0.62
1:N:124:TYR:HD1	1:N:124:TYR:N	1.97	0.62
1:N:124:TYR:CE1	1:N:407:ALA:CB	2.82	0.62
1:O:38:THR:HG23	1:O:46:LYS:HE2	1.81	0.62
1:C:96:ALA:CA	1:C:480:ALA:CB	2.74	0.62
1:C:122:LYS:HA	1:C:125:GLN:CD	2.24	0.62
1:D:21:GLN:O	1:D:25:ILE:HD13	1.98	0.62
1:D:82:ALA:HB1	1:D:93:THR:CG2	2.28	0.62
1:E:38:THR:CG2	1:E:46:LYS:HE2	2.29	0.62
1:F:227:VAL:HG11	1:F:260:ASN:CG	2.24	0.62
1:G:124:TYR:N	1:G:124:TYR:HD1	1.97	0.62
1:G:158:ILE:HD13	1:G:170:LEU:CB	2.26	0.62
1:G:380:SER:HB2	1:G:384:SER:CB	2.30	0.62
1:J:234:LEU:HG	1:J:315:LEU:CD2	2.28	0.62
1:L:251:VAL:HG11	1:L:276:LEU:HD22	1.75	0.62
1:M:235:LEU:O	1:M:264:CYS:HA	1.99	0.62
1:M:254:ILE:HG12	1:M:310:LEU:HD12	1.80	0.62
1:M:391:MET:HE1	1:M:438:ARG:C	2.25	0.62
1:N:268:ILE:HB	1:N:273:GLN:HE21	1.64	0.62
1:N:368:VAL:HB	1:N:469:PRO:CB	2.28	0.62
1:O:123:GLY:HA3	1:O:407:ALA:HB3	1.82	0.62
1:P:391:MET:CE	1:P:438:ARG:HE	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:81:VAL:HG11	1:A:483:SER:OG	2.00	0.62
1:A:212:VAL:N	1:A:298:ALA:CB	2.63	0.62
1:C:124:TYR:CE1	1:C:407:ALA:CA	2.76	0.62
1:D:197:LYS:CA	1:D:355:ILE:CG2	2.72	0.62
1:D:387:VAL:HG21	1:D:437:VAL:CG1	2.29	0.62
1:E:120:VAL:HG22	1:E:121:VAL:N	2.14	0.62
1:E:153:ILE:CG2	1:E:469:PRO:CD	2.76	0.62
1:H:130:LYS:HE2	1:H:396:TYR:HB2	1.80	0.62
1:H:171:ALA:O	1:H:175:VAL:HG23	2.00	0.62
1:H:403:ARG:HH11	1:H:403:ARG:CG	2.09	0.62
1:H:431:ILE:HD11	1:I:403:ARG:HG2	1.79	0.62
1:J:232:ILE:HD13	1:J:299:THR:HG21	1.81	0.62
1:J:389:LEU:HB3	1:J:393:LEU:HD12	1.81	0.62
1:K:115:VAL:HG11	1:K:403:ARG:NE	2.15	0.62
1:M:120:VAL:O	1:M:120:VAL:CG2	2.40	0.62
1:M:232:ILE:HA	1:M:261:VAL:HB	1.80	0.62
1:M:299:THR:HG22	1:M:334:VAL:CG1	2.30	0.62
1:N:208:LEU:CD1	1:N:343:VAL:HG21	2.29	0.62
1:N:347:ILE:HG22	1:N:355:ILE:HG23	1.80	0.62
1:P:82:ALA:HB1	1:P:93:THR:HG22	1.81	0.62
1:A:88:GLU:CD	1:A:475:GLN:CG	2.70	0.62
1:A:123:GLY:HA3	1:A:407:ALA:HB1	1.81	0.62
1:A:156:THR:CG2	1:A:156:THR:O	2.47	0.62
1:A:234:LEU:CD2	1:A:296:ALA:HB2	2.29	0.62
1:C:29:ARG:O	1:C:33:GLU:HG3	2.00	0.62
1:C:115:VAL:HG21	1:C:403:ARG:NE	2.14	0.62
1:C:123:GLY:HA3	1:C:407:ALA:HB1	1.77	0.62
1:C:206:THR:HB	1:C:347:ILE:HA	1.81	0.62
1:C:368:VAL:HG21	1:C:469:PRO:HG3	1.82	0.62
1:D:212:VAL:HG21	1:D:294:LYS:C	2.25	0.62
1:F:30:ILE:HG22	1:F:31:ILE:CD1	2.27	0.62
1:G:194:LYS:HG2	1:G:195:ILE:N	2.14	0.62
1:H:477:ILE:O	1:H:477:ILE:HG22	2.00	0.62
1:M:21:GLN:C	1:M:25:ILE:HD12	2.25	0.62
1:M:351:THR:HG23	1:M:352:GLU:N	2.14	0.62
1:A:153:ILE:HD13	1:A:372:THR:CG2	2.29	0.62
1:B:130:LYS:HZ2	1:B:396:TYR:HB2	1.63	0.62
1:C:314:ASP:O	1:C:315:LEU:HD23	2.00	0.62
1:F:158:ILE:HD13	1:F:170:LEU:CB	2.29	0.62
1:G:89:VAL:HG11	1:G:472:VAL:CG1	2.29	0.62
1:G:234:LEU:HG	1:G:301:ALA:CB	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:14:ARG:NH2	1:P:34:THR:HA	2.06	0.62
1:I:62:VAL:HG22	1:I:66:ARG:NH1	2.14	0.62
1:I:86:GLU:O	1:I:86:GLU:CD	2.43	0.62
1:I:178:VAL:HG22	1:I:193:ILE:CD1	2.30	0.62
1:I:467:VAL:HG23	1:I:468:GLU:N	2.14	0.62
1:L:62:VAL:HG13	1:L:63:THR:N	2.13	0.62
1:L:74:ALA:O	1:L:77:MET:HG3	1.99	0.62
1:L:219:VAL:HG23	1:L:285:ARG:HB3	1.80	0.62
1:A:379:VAL:CG1	1:A:473:LYS:HG3	2.28	0.62
1:B:135:LEU:CD2	1:B:385:THR:HG21	2.29	0.62
1:B:219:VAL:HG23	1:B:285:ARG:HG2	1.82	0.62
1:C:30:ILE:HG22	1:C:31:ILE:N	2.14	0.62
1:C:227:VAL:HG11	1:C:260:ASN:CG	2.24	0.62
1:D:123:GLY:HA3	1:D:407:ALA:HB1	1.80	0.62
1:F:65:LEU:C	1:F:79:ILE:HD13	2.25	0.62
1:G:166:ALA:HB2	1:G:203:ILE:HG21	1.80	0.62
1:G:232:ILE:HA	1:G:261:VAL:HB	1.80	0.62
1:G:387:VAL:O	1:G:390:SER:HB3	1.99	0.62
1:H:263:PHE:HE1	1:H:332:ILE:HG21	1.65	0.62
1:J:42:LYS:HD2	1:J:426:ALA:CA	2.30	0.62
1:K:158:ILE:HD11	1:K:170:LEU:HB3	1.81	0.62
1:L:96:ALA:CA	1:L:480:ALA:CB	2.73	0.62
1:L:117:PRO:C	1:L:119:ILE:H	2.07	0.62
1:M:106:LYS:HE3	1:M:109:GLU:OE2	1.99	0.62
1:M:233:ALA:CA	1:M:315:LEU:HD13	2.28	0.62
1:N:119:ILE:HD11	1:N:403:ARG:NH1	2.15	0.62
1:N:178:VAL:CG2	1:N:366:VAL:HG13	2.29	0.62
1:N:192:LEU:CB	1:N:342:ALA:HB2	2.29	0.62
1:O:34:THR:CB	1:P:14:ARG:HH12	2.12	0.62
1:O:102:GLU:HG2	1:O:417:VAL:HG11	1.80	0.62
1:P:127:ALA:HB2	1:P:408:VAL:HG12	1.81	0.62
1:P:418:ILE:HB	1:P:419:PRO:HD3	1.80	0.62
1:P:490:ILE:CD1	1:P:490:ILE:N	2.61	0.62
1:B:351:THR:O	1:B:355:ILE:HG13	1.99	0.62
1:B:469:PRO:O	1:B:472:VAL:HB	2.00	0.62
1:C:78:LEU:CD1	1:C:487:LEU:HD13	2.29	0.62
1:D:62:VAL:HG22	1:D:63:THR:N	2.14	0.62
1:D:130:LYS:CE	1:D:393:LEU:CD2	2.77	0.62
1:D:135:LEU:HD13	1:D:138:ILE:HD11	1.80	0.62
1:E:31:ILE:HG22	1:E:65:LEU:HD21	1.82	0.62
1:E:115:VAL:HG11	1:E:403:ARG:HD3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:235:LEU:HD13	1:E:310:LEU:HB2	1.79	0.62
1:F:254:ILE:HG22	1:F:254:ILE:O	1.98	0.62
1:H:152:LYS:HD3	1:H:462:CYS:O	2.00	0.62
1:H:257:SER:OG	1:H:311:SER:HA	2.00	0.62
1:J:82:ALA:O	1:J:93:THR:HG23	2.00	0.62
1:K:115:VAL:CG2	1:K:119:ILE:CB	2.78	0.62
1:K:130:LYS:CD	1:K:393:LEU:CD2	2.78	0.62
1:L:34:THR:HG22	1:L:35:VAL:HG22	1.79	0.62
1:L:138:ILE:O	1:L:446:ASN:HB2	1.99	0.62
1:M:119:ILE:HG23	1:M:403:ARG:HB2	1.80	0.62
1:P:78:LEU:HD23	1:P:78:LEU:O	2.00	0.62
1:P:298:ALA:O	1:P:337:CYS:HB3	1.99	0.62
1:P:403:ARG:HH11	1:P:403:ARG:CG	2.06	0.62
1:A:89:VAL:CG2	1:A:368:VAL:HG13	2.26	0.62
1:A:122:LYS:HG3	1:A:125:GLN:NE2	2.15	0.62
1:B:130:LYS:HE2	1:B:134:LEU:CD1	2.29	0.62
1:B:136:LYS:HB3	1:B:377:ARG:HH11	1.62	0.62
1:B:234:LEU:CD1	1:B:301:ALA:HB3	2.30	0.62
1:B:351:THR:HG23	1:B:352:GLU:H	1.63	0.62
1:C:212:VAL:HG21	1:C:294:LYS:O	2.00	0.62
1:D:104:LEU:HD11	1:D:484:THR:HB	1.82	0.62
1:D:134:LEU:HD22	1:D:392:LYS:HD2	1.82	0.62
1:D:157:SER:OG	1:D:368:VAL:HG21	1.99	0.62
1:E:17:GLY:O	1:E:21:GLN:HB3	1.99	0.62
1:E:262:LEU:HD12	1:E:310:LEU:HD21	1.82	0.62
1:E:459:GLU:HG2	1:E:461:MET:HE2	1.80	0.62
1:F:234:LEU:C	1:F:292:MET:HE1	2.25	0.62
1:G:81:VAL:HG11	1:G:483:SER:HB3	1.80	0.62
1:G:345:MET:CE	1:G:362:VAL:HG21	2.29	0.62
1:K:22:ARG:O	1:K:26:LEU:HB2	1.99	0.62
1:L:377:ARG:C	1:L:470:LEU:CD2	2.73	0.62
1:M:155:MET:CE	1:M:167:LYS:HE3	2.30	0.62
1:M:234:LEU:HD12	1:M:296:ALA:HB2	1.81	0.62
1:N:42:LYS:HD2	1:N:426:ALA:H	1.64	0.62
1:N:119:ILE:CD1	1:N:403:ARG:NH1	2.63	0.62
1:O:130:LYS:HZ3	1:O:134:LEU:HD11	1.64	0.62
1:P:42:LYS:HE2	1:P:426:ALA:HB2	1.82	0.62
1:B:124:TYR:CE1	1:B:407:ALA:HA	2.33	0.62
1:B:218:ARG:HG3	1:B:323:GLU:CD	2.25	0.62
1:C:31:ILE:HG21	1:C:65:LEU:CD1	2.30	0.62
1:C:121:VAL:C	1:C:123:GLY:H	2.06	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:150:LEU:HD23	1:C:175:VAL:HG13	1.82	0.62
1:C:158:ILE:CG2	1:C:170:LEU:HD12	2.29	0.62
1:C:254:ILE:HG22	1:C:281:ILE:CD1	2.30	0.62
1:E:110:LEU:C	1:E:112:ASP:H	2.07	0.62
1:E:346:LEU:HD22	1:E:348:ARG:HG2	1.81	0.62
1:H:234:LEU:HD12	1:H:301:ALA:CB	2.29	0.62
1:H:413:ASP:O	1:H:416:GLU:HB2	2.00	0.62
1:I:403:ARG:HG3	1:I:403:ARG:NH1	2.13	0.62
1:K:178:VAL:HG11	1:K:366:VAL:HG22	1.81	0.62
1:L:218:ARG:HD3	1:L:282:VAL:CG1	2.30	0.62
1:P:155:MET:HB3	1:P:167:LYS:HB2	1.81	0.62
1:P:192:LEU:O	1:P:342:ALA:HB1	2.00	0.62
1:A:96:ALA:CA	1:A:480:ALA:CB	2.68	0.61
1:A:396:TYR:CG	1:A:396:TYR:O	2.54	0.61
1:A:459:GLU:HB3	1:A:461:MET:CE	2.30	0.61
1:B:493:VAL:HG13	1:C:47:MET:CE	2.22	0.61
1:C:299:THR:CG2	1:C:318:ALA:HB2	2.30	0.61
1:F:234:LEU:HB3	1:F:292:MET:HE1	1.80	0.61
1:G:485:GLU:O	1:G:488:LEU:HB3	1.99	0.61
1:J:170:LEU:HD21	1:J:358:VAL:HG21	1.82	0.61
1:K:371:CYS:SG	1:K:471:ARG:HD2	2.40	0.61
1:M:155:MET:HB2	1:M:167:LYS:HD2	1.81	0.61
1:M:263:PHE:CZ	1:M:332:ILE:HG21	2.35	0.61
1:N:42:LYS:CE	1:N:426:ALA:HA	2.25	0.61
1:O:34:THR:HG23	1:P:14:ARG:NH1	2.15	0.61
1:O:166:ALA:HB2	1:O:203:ILE:CG2	2.30	0.61
1:O:387:VAL:HG21	1:O:437:VAL:CG1	2.30	0.61
1:P:377:ARG:HG2	1:P:470:LEU:HG	1.82	0.61
1:B:491:ASP:O	1:B:491:ASP:CG	2.41	0.61
1:D:152:LYS:NZ	1:D:462:CYS:CB	2.63	0.61
1:F:41:PRO:HB2	1:F:42:LYS:HD2	1.81	0.61
1:F:379:VAL:HG22	1:F:380:SER:N	2.14	0.61
1:G:34:THR:HG22	1:G:35:VAL:HG22	1.82	0.61
1:G:89:VAL:HG11	1:G:472:VAL:CA	2.30	0.61
1:G:124:TYR:CE1	1:G:407:ALA:HB1	2.35	0.61
1:H:62:VAL:CG1	1:H:63:THR:N	2.62	0.61
1:J:299:THR:CG2	1:J:334:VAL:CG1	2.78	0.61
1:K:119:ILE:HD12	1:K:403:ARG:CA	2.28	0.61
1:K:232:ILE:HG13	1:K:261:VAL:HB	1.81	0.61
1:M:488:LEU:CD1	1:M:488:LEU:C	2.59	0.61
1:O:178:VAL:HG23	1:O:366:VAL:HG22	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:232:ILE:CD1	1:O:299:THR:HG21	2.30	0.61
1:P:82:ALA:HB2	1:P:97:VAL:HG21	1.82	0.61
1:P:403:ARG:HG3	1:P:403:ARG:NH1	2.03	0.61
1:A:251:VAL:CG1	1:A:276:LEU:CD2	2.77	0.61
1:A:431:ILE:HD13	1:J:403:ARG:CD	2.28	0.61
1:B:82:ALA:HB2	1:B:97:VAL:HG21	1.82	0.61
1:B:115:VAL:HG21	1:B:403:ARG:HD3	1.80	0.61
1:C:234:LEU:HB3	1:C:292:MET:CE	2.30	0.61
1:E:153:ILE:HD11	1:E:372:THR:HG21	1.82	0.61
1:E:158:ILE:HD12	1:E:170:LEU:HB3	1.83	0.61
1:E:377:ARG:HB3	1:E:470:LEU:CG	2.28	0.61
1:F:34:THR:HG22	1:F:35:VAL:CG2	2.30	0.61
1:F:105:ARG:CZ	1:F:106:LYS:HD2	2.30	0.61
1:G:42:LYS:HG3	1:G:425:ASN:CB	2.30	0.61
1:G:89:VAL:HG21	1:G:368:VAL:CG1	2.30	0.61
1:H:38:THR:HB	1:H:46:LYS:NZ	2.14	0.61
1:I:469:PRO:HB2	1:I:472:VAL:HG13	1.82	0.61
1:K:123:GLY:HA3	1:K:407:ALA:HB1	1.79	0.61
1:L:377:ARG:C	1:L:470:LEU:HD23	2.25	0.61
1:N:30:ILE:CG2	1:N:31:ILE:H	1.97	0.61
1:P:134:LEU:CG	1:P:392:LYS:HE3	2.30	0.61
1:A:211:GLY:C	1:A:298:ALA:HB2	2.25	0.61
1:B:43:GLY:O	1:B:44:MET:HE2	1.99	0.61
1:D:194:LYS:HB2	1:D:294:LYS:HD3	1.82	0.61
1:E:235:LEU:HD21	1:E:310:LEU:HD22	1.83	0.61
1:F:254:ILE:O	1:F:259:ALA:HB3	2.00	0.61
1:F:263:PHE:CZ	1:F:332:ILE:HG21	2.36	0.61
1:F:371:CYS:HB3	1:F:471:ARG:HE	1.65	0.61
1:H:263:PHE:CD2	1:H:295:LEU:HD22	2.35	0.61
1:H:389:LEU:CD1	1:H:415:LEU:HD13	2.30	0.61
1:H:400:ILE:HD11	1:H:408:VAL:HG11	1.80	0.61
1:I:417:VAL:O	1:I:420:ARG:HB3	2.00	0.61
1:J:31:ILE:CG2	1:J:65:LEU:CD2	2.78	0.61
1:N:234:LEU:HB3	1:N:292:MET:CE	2.31	0.61
1:P:42:LYS:HG3	1:P:425:ASN:CB	2.30	0.61
1:P:449:ALA:HB2	1:P:458:VAL:HG22	1.81	0.61
1:C:119:ILE:HD12	1:C:403:ARG:HB3	1.82	0.61
1:C:379:VAL:HG12	1:C:473:LYS:HG3	1.83	0.61
1:C:406:LEU:H	1:C:406:LEU:HD12	1.64	0.61
1:E:117:PRO:HA	1:E:120:VAL:CG1	2.29	0.61
1:F:39:LEU:CG	1:F:40:GLY:H	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:119:ILE:HD11	1:G:403:ARG:NH1	2.15	0.61
1:H:124:TYR:HE1	1:H:407:ALA:HA	1.64	0.61
1:H:130:LYS:CE	1:H:393:LEU:HD13	2.29	0.61
1:I:85:GLN:NE2	1:I:96:ALA:HB2	2.14	0.61
1:K:100:ALA:O	1:K:104:LEU:HD12	2.00	0.61
1:L:219:VAL:CG2	1:L:285:ARG:HB3	2.29	0.61
1:L:234:LEU:HD23	1:L:296:ALA:HB2	1.81	0.61
1:M:124:TYR:CE1	1:M:407:ALA:CA	2.83	0.61
1:N:174:ILE:HD12	1:N:365:ALA:CB	2.25	0.61
1:N:232:ILE:HA	1:N:261:VAL:HB	1.82	0.61
1:O:82:ALA:HB2	1:O:97:VAL:HG11	1.81	0.61
1:C:35:VAL:CG1	1:C:64:ILE:HD13	2.31	0.61
1:C:263:PHE:CZ	1:C:332:ILE:HG21	2.36	0.61
1:D:170:LEU:HD13	1:D:358:VAL:CG1	2.28	0.61
1:D:235:LEU:CD2	1:D:310:LEU:CG	2.60	0.61
1:H:29:ARG:O	1:H:32:ALA:HB3	2.00	0.61
1:H:135:LEU:CD2	1:H:385:THR:HG21	2.29	0.61
1:H:233:ALA:HB1	1:H:315:LEU:CD2	2.29	0.61
1:J:263:PHE:CZ	1:J:332:ILE:HG21	2.35	0.61
1:J:377:ARG:CG	1:J:470:LEU:HD12	2.31	0.61
1:K:212:VAL:HB	1:K:298:ALA:HB3	1.82	0.61
1:M:31:ILE:HG22	1:M:65:LEU:HD22	1.83	0.61
1:M:34:THR:HG22	1:M:35:VAL:N	2.16	0.61
1:M:235:LEU:HD12	1:M:262:LEU:CD1	2.25	0.61
1:N:19:ASP:HA	1:N:22:ARG:HH21	1.64	0.61
1:N:155:MET:HB2	1:N:167:LYS:HB2	1.82	0.61
1:N:387:VAL:C	1:N:390:SER:HB3	2.26	0.61
1:O:197:LYS:HB3	1:O:355:ILE:HG22	1.83	0.61
1:P:235:LEU:HB2	1:P:310:LEU:HD22	1.83	0.61
1:P:377:ARG:HD2	1:P:470:LEU:HD12	1.83	0.61
1:P:379:VAL:HG12	1:P:470:LEU:CD2	2.31	0.61
1:A:130:LYS:HZ2	1:A:393:LEU:HD23	1.66	0.61
1:A:441:HIS:ND1	1:A:449:ALA:HB3	2.16	0.61
1:C:153:ILE:CD1	1:C:378:ILE:HG22	2.30	0.61
1:C:234:LEU:N	1:C:315:LEU:HD22	2.16	0.61
1:E:171:ALA:HA	1:E:174:ILE:CD1	2.31	0.61
1:E:197:LYS:HB2	1:E:355:ILE:HG23	1.80	0.61
1:E:276:LEU:HD12	1:E:281:ILE:HG21	1.81	0.61
1:H:347:ILE:CG2	1:H:358:VAL:HB	2.31	0.61
1:I:62:VAL:CG2	1:I:66:ARG:NH1	2.64	0.61
1:I:85:GLN:CD	1:I:476:ALA:HA	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:276:LEU:HD12	1:I:281:ILE:HD12	1.83	0.61
1:J:358:VAL:O	1:J:362:VAL:HG12	1.99	0.61
1:J:368:VAL:CG2	1:J:469:PRO:HG2	2.30	0.61
1:K:158:ILE:CD1	1:K:170:LEU:CB	2.78	0.61
1:L:31:ILE:CG2	1:L:65:LEU:HD11	2.26	0.61
1:O:38:THR:CG2	1:O:46:LYS:HE2	2.31	0.61
1:P:170:LEU:CD1	1:P:358:VAL:HG13	2.31	0.61
1:A:34:THR:CB	1:H:14:ARG:HH22	2.13	0.61
1:A:111:LEU:HD21	1:A:117:PRO:HB3	1.82	0.61
1:B:420:ARG:HH11	1:B:420:ARG:CG	1.95	0.61
1:C:130:LYS:HD2	1:C:396:TYR:CG	2.35	0.61
1:C:155:MET:HE2	1:C:465:GLY:CA	2.30	0.61
1:D:119:ILE:HG21	1:D:403:ARG:HG3	1.82	0.61
1:D:418:ILE:HD13	1:D:418:ILE:H	1.66	0.61
1:D:469:PRO:CG	1:D:472:VAL:HG21	2.30	0.61
1:E:138:ILE:HD12	1:E:139:ALA:H	1.65	0.61
1:F:209:ILE:HD11	1:F:213:LEU:HB2	1.81	0.61
1:G:251:VAL:CG1	1:G:276:LEU:HD13	2.31	0.61
1:H:35:VAL:CG1	1:H:46:LYS:NZ	2.64	0.61
1:H:89:VAL:HG11	1:H:472:VAL:H	1.66	0.61
1:H:234:LEU:O	1:H:304:ILE:HG12	2.01	0.61
1:I:459:GLU:O	1:I:459:GLU:HG2	2.01	0.61
1:J:223:MET:HG2	1:J:281:ILE:O	2.00	0.61
1:K:85:GLN:HE22	1:K:479:SER:HB2	1.65	0.61
1:K:473:LYS:HB2	1:K:473:LYS:HZ3	1.63	0.61
1:L:232:ILE:HG12	1:L:299:THR:HG21	1.83	0.61
1:M:105:ARG:CD	1:M:106:LYS:HG2	2.31	0.61
1:A:31:ILE:HG21	1:A:65:LEU:CD2	2.30	0.61
1:B:134:LEU:CD1	1:B:393:LEU:CD2	2.79	0.61
1:B:418:ILE:CG2	1:B:422:LEU:HD12	2.31	0.61
1:D:234:LEU:CB	1:D:292:MET:HE1	2.30	0.61
1:D:422:LEU:N	1:D:422:LEU:CD1	2.64	0.61
1:D:435:VAL:HG13	1:M:401:SER:OG	2.00	0.61
1:E:140:CYS:HB3	1:E:446:ASN:OD1	2.01	0.61
1:E:152:LYS:HD3	1:E:465:GLY:CA	2.31	0.61
1:E:156:THR:HG23	1:E:156:THR:O	2.01	0.61
1:E:173:ILE:HG13	1:E:345:MET:SD	2.41	0.61
1:E:223:MET:HE2	1:E:283:ALA:HB3	1.83	0.61
1:F:96:ALA:O	1:F:480:ALA:HB1	2.00	0.61
1:F:232:ILE:C	1:F:315:LEU:HD22	2.25	0.61
1:G:124:TYR:N	1:G:124:TYR:CD1	2.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:200:GLY:O	1:G:348:ARG:HB3	2.00	0.61
1:G:372:THR:HG22	1:G:377:ARG:O	2.01	0.61
1:H:150:LEU:HD23	1:H:175:VAL:HG13	1.83	0.61
1:J:63:THR:HA	1:J:66:ARG:CB	2.31	0.61
1:N:122:LYS:HA	1:N:125:GLN:NE2	2.15	0.61
1:N:380:SER:HB3	1:N:384:SER:HB2	1.81	0.61
1:O:77:MET:HE1	1:O:486:MET:HE2	1.76	0.61
1:P:195:ILE:H	1:P:195:ILE:HD12	1.65	0.61
1:P:276:LEU:HB3	1:P:281:ILE:CG2	2.31	0.61
1:D:22:ARG:O	1:D:26:LEU:HB2	2.01	0.61
1:D:491:ASP:OD1	1:E:44:MET:HB2	2.01	0.61
1:E:235:LEU:HD23	1:E:262:LEU:HD21	1.82	0.61
1:E:235:LEU:CB	1:E:310:LEU:HD13	2.31	0.61
1:J:299:THR:CG2	1:J:318:ALA:HB2	2.30	0.61
1:N:102:GLU:OE2	1:N:417:VAL:HG21	2.01	0.61
1:N:140:CYS:CB	1:N:447:LYS:HG2	2.30	0.61
1:N:200:GLY:O	1:N:348:ARG:HB3	2.01	0.61
1:A:63:THR:O	1:A:66:ARG:HB2	2.01	0.60
1:C:150:LEU:CD2	1:C:175:VAL:CG1	2.78	0.60
1:C:178:VAL:O	1:C:178:VAL:CG1	2.48	0.60
1:C:469:PRO:HG2	1:C:469:PRO:O	2.01	0.60
1:D:254:ILE:HG21	1:D:262:LEU:CD1	2.31	0.60
1:D:435:VAL:HG11	1:M:401:SER:HB3	1.81	0.60
1:F:219:VAL:HG21	1:F:285:ARG:HB3	1.83	0.60
1:G:232:ILE:HG13	1:G:261:VAL:CG1	2.31	0.60
1:H:22:ARG:HA	1:H:25:ILE:CD1	2.26	0.60
1:J:152:LYS:CG	1:J:465:GLY:HA2	2.30	0.60
1:K:77:MET:CE	1:K:487:LEU:HG	2.30	0.60
1:L:64:ILE:HG22	1:L:65:LEU:HD22	1.82	0.60
1:L:153:ILE:HD12	1:L:372:THR:HG21	1.83	0.60
1:N:170:LEU:CD2	1:N:358:VAL:HG22	2.31	0.60
1:N:178:VAL:CG2	1:N:366:VAL:CG2	2.73	0.60
1:O:155:MET:CG	1:O:167:LYS:HD2	2.31	0.60
1:O:158:ILE:HD13	1:O:170:LEU:HB2	1.83	0.60
1:P:227:VAL:HG11	1:P:260:ASN:CG	2.24	0.60
1:P:488:LEU:O	1:P:488:LEU:HD23	2.01	0.60
1:A:197:LYS:HA	1:A:355:ILE:CG2	2.31	0.60
1:A:223:MET:HE1	1:A:283:ALA:HB3	1.83	0.60
1:C:377:ARG:O	1:C:470:LEU:HB2	2.00	0.60
1:D:418:ILE:O	1:D:422:LEU:HD22	2.01	0.60
1:E:194:LYS:HB2	1:E:294:LYS:CD	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:134:LEU:CD1	1:F:393:LEU:HG	2.31	0.60
1:F:234:LEU:N	1:F:315:LEU:HD21	2.15	0.60
1:K:82:ALA:HB1	1:K:93:THR:CG2	2.30	0.60
1:K:170:LEU:HD22	1:K:358:VAL:HG13	1.79	0.60
1:K:223:MET:HE2	1:K:281:ILE:O	2.01	0.60
1:K:234:LEU:CB	1:K:292:MET:HE1	2.31	0.60
1:L:171:ALA:HA	1:L:174:ILE:HG12	1.84	0.60
1:M:130:LYS:HG2	1:M:393:LEU:CD2	2.31	0.60
1:M:485:GLU:O	1:M:489:ARG:HG2	2.01	0.60
1:O:47:MET:HE2	1:P:493:VAL:HG21	1.82	0.60
1:A:254:ILE:HD13	1:A:262:LEU:HD13	1.83	0.60
1:A:369:VAL:O	1:A:369:VAL:CG1	2.49	0.60
1:A:389:LEU:CD1	1:A:415:LEU:CD2	2.79	0.60
1:C:150:LEU:CG	1:C:175:VAL:HG13	2.32	0.60
1:C:379:VAL:HG21	1:C:385:THR:OG1	2.01	0.60
1:D:418:ILE:CB	1:D:419:PRO:HD3	2.27	0.60
1:E:156:THR:CG2	1:E:156:THR:O	2.49	0.60
1:H:156:THR:HG21	1:H:467:VAL:C	2.26	0.60
1:I:130:LYS:HG2	1:I:393:LEU:HD22	1.83	0.60
1:I:212:VAL:HB	1:I:298:ALA:CB	2.31	0.60
1:K:38:THR:CG2	1:K:46:LYS:HE2	2.31	0.60
1:K:134:LEU:CD1	1:K:393:LEU:CG	2.79	0.60
1:K:389:LEU:CD1	1:K:415:LEU:HD13	2.29	0.60
1:K:473:LYS:HD3	1:K:477:ILE:HD11	1.82	0.60
1:M:130:LYS:CE	1:M:393:LEU:CD2	2.79	0.60
1:M:251:VAL:CG1	1:M:276:LEU:CD2	2.79	0.60
1:N:42:LYS:HB3	1:N:425:ASN:HB2	1.82	0.60
1:N:138:ILE:O	1:N:446:ASN:HB2	2.01	0.60
1:P:171:ALA:HA	1:P:174:ILE:CD1	2.31	0.60
1:B:166:ALA:CB	1:B:203:ILE:HG22	2.09	0.60
1:C:178:VAL:CG2	1:C:366:VAL:HG13	2.31	0.60
1:C:347:ILE:HG21	1:C:358:VAL:CG1	2.31	0.60
1:D:212:VAL:N	1:D:298:ALA:CB	2.65	0.60
1:D:233:ALA:CB	1:D:315:LEU:CD1	2.74	0.60
1:D:431:ILE:HD11	1:M:403:ARG:CA	2.31	0.60
1:F:473:LYS:HA	1:F:473:LYS:HE3	1.83	0.60
1:G:154:ALA:CB	1:G:174:ILE:HD11	2.23	0.60
1:G:235:LEU:HD23	1:G:310:LEU:HD22	1.83	0.60
1:H:211:GLY:C	1:H:298:ALA:HB2	2.26	0.60
1:H:299:THR:CG2	1:H:334:VAL:CG1	2.79	0.60
1:J:299:THR:CG2	1:J:334:VAL:HG11	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:379:VAL:HB	1:K:380:SER:CB	2.31	0.60
1:K:441:HIS:ND1	1:K:449:ALA:HB3	2.16	0.60
1:M:99:VAL:HG12	1:M:418:ILE:CD1	2.30	0.60
1:M:299:THR:HG21	1:M:334:VAL:HG11	1.81	0.60
1:N:16:MET:N	1:N:20:ALA:HB2	2.17	0.60
1:N:346:LEU:HD23	1:N:347:ILE:H	1.67	0.60
1:A:101:GLY:HA2	1:A:104:LEU:HD12	1.82	0.60
1:B:206:THR:HG21	1:B:347:ILE:HG22	1.84	0.60
1:C:377:ARG:HG2	1:C:377:ARG:HH11	1.66	0.60
1:D:473:LYS:HE3	1:D:473:LYS:CA	2.32	0.60
1:E:130:LYS:NZ	1:E:396:TYR:HB2	2.16	0.60
1:E:431:ILE:CD1	1:N:403:ARG:CG	2.80	0.60
1:F:78:LEU:HD12	1:F:487:LEU:HD22	1.83	0.60
1:F:276:LEU:HD12	1:F:281:ILE:HD12	1.84	0.60
1:H:385:THR:O	1:H:389:LEU:HG	2.00	0.60
1:I:233:ALA:CA	1:I:315:LEU:HD22	2.29	0.60
1:J:394:ARG:O	1:J:397:ALA:HB3	2.01	0.60
1:L:31:ILE:HG22	1:L:65:LEU:HD21	1.84	0.60
1:N:209:ILE:HD11	1:N:213:LEU:HB2	1.81	0.60
1:P:299:THR:CG2	1:P:334:VAL:CG1	2.80	0.60
1:A:403:ARG:HG3	1:A:403:ARG:NH1	2.02	0.60
1:D:166:ALA:CB	1:D:203:ILE:HG22	2.29	0.60
1:D:362:VAL:O	1:D:366:VAL:HG23	2.01	0.60
1:E:197:LYS:CB	1:E:355:ILE:HG23	2.30	0.60
1:F:350:THR:OG1	1:F:354:VAL:HG13	2.02	0.60
1:G:380:SER:HB2	1:G:384:SER:HB3	1.83	0.60
1:H:239:ILE:CG2	1:H:268:ILE:HG23	2.32	0.60
1:H:403:ARG:HG2	1:H:403:ARG:NH1	2.17	0.60
1:I:92:GLY:HA2	1:I:95:THR:HB	1.83	0.60
1:I:195:ILE:CB	1:I:359:ALA:CB	2.73	0.60
1:J:345:MET:HE1	1:J:362:VAL:CG2	2.32	0.60
1:K:263:PHE:CE2	1:K:295:LEU:CD2	2.84	0.60
1:L:16:MET:CA	1:L:20:ALA:HB2	2.31	0.60
1:L:153:ILE:HD11	1:L:372:THR:HG21	1.82	0.60
1:M:30:ILE:HG22	1:M:31:ILE:HD13	1.82	0.60
1:M:389:LEU:HD13	1:M:415:LEU:CD1	2.32	0.60
1:A:35:VAL:HG12	1:A:46:LYS:HE2	1.84	0.60
1:A:152:LYS:HE3	1:A:465:GLY:CA	2.30	0.60
1:B:383:GLY:HA2	1:B:386:GLU:OE2	2.01	0.60
1:C:420:ARG:HG3	1:C:420:ARG:NH1	2.17	0.60
1:D:134:LEU:HD11	1:D:393:LEU:HD23	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:177:ALA:CB	1:H:208:LEU:HD11	2.27	0.60
1:I:153:ILE:CG2	1:I:469:PRO:HD3	2.32	0.60
1:I:362:VAL:CG2	1:I:362:VAL:O	2.50	0.60
1:J:123:GLY:HA3	1:J:407:ALA:HB3	1.83	0.60
1:M:403:ARG:NH1	1:M:403:ARG:CG	2.65	0.60
1:P:96:ALA:HB1	1:P:480:ALA:HB2	1.84	0.60
1:C:158:ILE:CD1	1:C:170:LEU:CB	2.77	0.60
1:D:154:ALA:HB1	1:D:174:ILE:CD1	2.19	0.60
1:E:218:ARG:HB2	1:E:323:GLU:CD	2.27	0.60
1:F:385:THR:O	1:F:389:LEU:HG	2.01	0.60
1:G:152:LYS:HG2	1:G:465:GLY:O	2.02	0.60
1:G:192:LEU:CB	1:G:342:ALA:HB2	2.30	0.60
1:G:299:THR:CG2	1:G:334:VAL:HG11	2.23	0.60
1:H:138:ILE:HD12	1:H:379:VAL:CG2	2.31	0.60
1:H:234:LEU:HG	1:H:315:LEU:HD11	1.84	0.60
1:I:105:ARG:HH11	1:I:106:LYS:CG	2.13	0.60
1:I:212:VAL:CB	1:I:298:ALA:HB2	2.31	0.60
1:K:130:LYS:NZ	1:K:393:LEU:CD2	2.62	0.60
1:M:62:VAL:HG13	1:M:63:THR:N	2.15	0.60
1:N:42:LYS:CG	1:N:426:ALA:H	2.14	0.60
1:A:134:LEU:HD13	1:A:392:LYS:HE3	1.82	0.60
1:A:135:LEU:HD21	1:A:385:THR:HG21	1.84	0.60
1:B:170:LEU:CD2	1:B:358:VAL:HG13	2.32	0.60
1:B:191:ASP:O	1:B:294:LYS:HE3	2.02	0.60
1:B:232:ILE:HG13	1:B:261:VAL:HG11	1.81	0.60
1:B:377:ARG:NE	1:B:470:LEU:CD1	2.65	0.60
1:C:81:VAL:HG11	1:C:483:SER:OG	2.02	0.60
1:I:380:SER:HB2	1:I:384:SER:HB2	1.82	0.60
1:K:138:ILE:CD1	1:K:385:THR:CG2	2.79	0.60
1:L:29:ARG:O	1:L:32:ALA:HB3	2.02	0.60
1:L:42:LYS:CB	1:L:425:ASN:HB2	2.32	0.60
1:L:48:LEU:O	1:L:56:VAL:HG13	2.01	0.60
1:L:81:VAL:HG11	1:L:483:SER:CB	2.32	0.60
1:L:138:ILE:HD12	1:L:385:THR:HG23	1.79	0.60
1:M:154:ALA:CB	1:M:174:ILE:HD11	2.26	0.60
1:M:391:MET:CE	1:M:438:ARG:CG	2.79	0.60
1:M:391:MET:CE	1:M:438:ARG:CA	2.76	0.60
1:N:115:VAL:HG13	1:N:119:ILE:HB	1.84	0.60
1:N:345:MET:HE1	1:N:362:VAL:CB	2.31	0.60
1:N:469:PRO:CB	1:N:472:VAL:CG1	2.79	0.60
1:P:391:MET:CE	1:P:438:ARG:NE	2.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:268:ILE:HB	1:C:273:GLN:HE21	1.67	0.60
1:D:31:ILE:HG21	1:D:65:LEU:CD1	2.32	0.60
1:D:345:MET:HE1	1:D:362:VAL:HG11	1.83	0.60
1:D:431:ILE:CD1	1:M:403:ARG:HA	2.32	0.60
1:E:383:GLY:HA2	1:E:386:GLU:HG2	1.83	0.60
1:H:134:LEU:CD1	1:H:393:LEU:HD13	2.32	0.60
1:K:212:VAL:HG21	1:K:294:LYS:C	2.27	0.60
1:L:405:GLN:HB3	1:L:406:LEU:CD1	2.32	0.60
1:L:420:ARG:O	1:L:423:ALA:HB3	2.02	0.60
1:M:34:THR:CG2	1:M:35:VAL:HG13	2.30	0.60
1:M:251:VAL:HG13	1:M:276:LEU:CD1	2.31	0.60
1:P:62:VAL:HG13	1:P:63:THR:N	2.16	0.60
1:A:105:ARG:NH1	1:A:106:LYS:CG	2.65	0.59
1:B:123:GLY:HA3	1:B:407:ALA:HB1	1.84	0.59
1:C:393:LEU:HA	1:C:396:TYR:HB3	1.84	0.59
1:D:119:ILE:CG2	1:D:403:ARG:CB	2.76	0.59
1:E:134:LEU:HB3	1:E:392:LYS:HE3	1.82	0.59
1:F:14:ARG:HE	1:F:494:ILE:HD11	1.66	0.59
1:I:195:ILE:CB	1:I:359:ALA:HB2	2.29	0.59
1:I:391:MET:CE	1:I:438:ARG:CG	2.80	0.59
1:J:130:LYS:HE2	1:J:134:LEU:HD21	1.84	0.59
1:K:17:GLY:O	1:K:21:GLN:HB2	2.02	0.59
1:K:138:ILE:HA	1:K:446:ASN:HB3	1.83	0.59
1:K:347:ILE:HG21	1:K:358:VAL:HB	1.84	0.59
1:N:31:ILE:HG21	1:N:65:LEU:HD22	1.83	0.59
1:N:158:ILE:HB	1:N:361:ALA:HB1	1.82	0.59
1:N:371:CYS:HB3	1:N:471:ARG:HD2	1.83	0.59
1:O:391:MET:CE	1:O:438:ARG:HA	2.29	0.59
1:P:42:LYS:HG3	1:P:426:ALA:H	1.65	0.59
1:P:105:ARG:HH12	1:P:106:LYS:HD2	1.65	0.59
1:P:391:MET:HE3	1:P:438:ARG:CB	2.31	0.59
1:A:105:ARG:NH1	1:A:106:LYS:HG2	2.16	0.59
1:B:223:MET:HG2	1:B:281:ILE:O	2.02	0.59
1:D:212:VAL:N	1:D:298:ALA:HB1	2.17	0.59
1:E:39:LEU:HB3	1:E:94:THR:OG1	2.02	0.59
1:F:401:SER:OG	1:O:435:VAL:HG11	2.02	0.59
1:G:130:LYS:HZ3	1:G:134:LEU:CD2	2.14	0.59
1:G:223:MET:HG2	1:G:282:VAL:HA	1.84	0.59
1:G:431:ILE:CG1	1:P:406:LEU:CD1	2.80	0.59
1:H:77:MET:HG3	1:H:487:LEU:HD21	1.84	0.59
1:J:99:VAL:O	1:J:103:LEU:HB2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:135:LEU:HD13	1:L:138:ILE:HD11	1.85	0.59
1:L:152:LYS:NZ	1:L:462:CYS:C	2.61	0.59
1:L:414:ALA:O	1:L:417:VAL:HG23	2.03	0.59
1:M:378:ILE:HG13	1:M:378:ILE:O	2.02	0.59
1:N:135:LEU:CD2	1:N:385:THR:HG21	2.32	0.59
1:O:89:VAL:O	1:O:89:VAL:CG2	2.50	0.59
1:D:195:ILE:HB	1:D:359:ALA:HB2	1.84	0.59
1:F:135:LEU:HD21	1:F:385:THR:HG21	1.85	0.59
1:H:77:MET:HE3	1:H:487:LEU:CD2	2.13	0.59
1:H:202:SER:OG	1:H:203:ILE:HG12	2.03	0.59
1:K:158:ILE:CD1	1:K:170:LEU:HB3	2.32	0.59
1:K:233:ALA:CB	1:K:310:LEU:HD11	2.31	0.59
1:L:384:SER:HB3	1:L:441:HIS:HE1	1.66	0.59
1:M:134:LEU:HD12	1:M:393:LEU:HD11	1.83	0.59
1:N:155:MET:SD	1:N:167:LYS:HD3	2.42	0.59
1:A:47:MET:HE2	1:H:493:VAL:HG13	1.85	0.59
1:A:391:MET:HE1	1:A:438:ARG:O	2.01	0.59
1:B:31:ILE:CG2	1:B:65:LEU:HD22	2.30	0.59
1:C:166:ALA:O	1:C:170:LEU:HG	2.02	0.59
1:D:197:LYS:HB2	1:D:355:ILE:HG13	1.83	0.59
1:D:211:GLY:C	1:D:298:ALA:HB2	2.27	0.59
1:E:57:VAL:O	1:E:58:THR:HG23	2.02	0.59
1:J:177:ALA:HB2	1:J:208:LEU:HD11	1.85	0.59
1:K:25:ILE:CG2	1:K:26:LEU:N	2.66	0.59
1:K:254:ILE:HG23	1:K:310:LEU:CD1	2.31	0.59
1:N:106:LYS:CE	1:N:106:LYS:CA	2.81	0.59
1:N:469:PRO:CG	1:N:472:VAL:CG1	2.72	0.59
1:O:154:ALA:CB	1:O:174:ILE:CD1	2.70	0.59
1:A:115:VAL:HG11	1:A:119:ILE:CG2	2.29	0.59
1:A:389:LEU:HD12	1:A:415:LEU:CD2	2.32	0.59
1:D:262:LEU:HD12	1:D:310:LEU:HD11	1.85	0.59
1:D:431:ILE:CD1	1:M:403:ARG:HG2	2.32	0.59
1:E:235:LEU:CD2	1:E:310:LEU:HD22	2.33	0.59
1:E:431:ILE:CD1	1:N:406:LEU:CD1	2.76	0.59
1:G:152:LYS:HE2	1:G:467:VAL:HG21	1.84	0.59
1:H:84:THR:HG22	1:H:84:THR:O	2.03	0.59
1:H:130:LYS:HG2	1:H:393:LEU:HD12	1.79	0.59
1:I:420:ARG:CG	1:I:420:ARG:NH1	2.58	0.59
1:J:119:ILE:CD1	1:J:403:ARG:HG3	2.31	0.59
1:K:418:ILE:O	1:K:422:LEU:HG	2.03	0.59
1:L:262:LEU:CD1	1:L:310:LEU:HD23	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:441:HIS:CG	1:L:449:ALA:HB3	2.37	0.59
1:M:397:ALA:HB2	1:M:408:VAL:HG23	1.84	0.59
1:N:48:LEU:CD2	1:O:494:ILE:HD12	2.32	0.59
1:N:193:ILE:HD12	1:N:366:VAL:CG2	2.32	0.59
1:N:383:GLY:C	1:N:386:GLU:HG2	2.27	0.59
1:O:219:VAL:HG23	1:O:285:ARG:HB3	1.84	0.59
1:P:257:SER:OG	1:P:311:SER:HA	2.02	0.59
1:A:122:LYS:HA	1:A:125:GLN:CD	2.28	0.59
1:A:299:THR:HG23	1:A:334:VAL:CG1	2.32	0.59
1:A:393:LEU:HA	1:A:396:TYR:HB3	1.84	0.59
1:A:473:LYS:HE3	1:A:473:LYS:HA	1.84	0.59
1:B:100:ALA:CB	1:B:484:THR:HG21	2.19	0.59
1:B:134:LEU:CD1	1:B:393:LEU:CG	2.80	0.59
1:B:192:LEU:CB	1:B:342:ALA:HB2	2.31	0.59
1:B:232:ILE:HD12	1:B:232:ILE:H	1.67	0.59
1:C:134:LEU:HD12	1:C:393:LEU:CG	2.32	0.59
1:C:377:ARG:NH1	1:C:470:LEU:CD1	2.66	0.59
1:E:35:VAL:HG21	1:E:94:THR:HG23	1.81	0.59
1:E:116:HIS:CB	1:E:117:PRO:HD2	2.32	0.59
1:E:235:LEU:HD13	1:E:310:LEU:CB	2.33	0.59
1:E:406:LEU:CD1	1:N:431:ILE:HD11	2.25	0.59
1:G:132:GLN:CD	1:G:478:GLN:HE21	2.10	0.59
1:G:233:ALA:CA	1:G:315:LEU:HD11	2.32	0.59
1:J:47:MET:HE2	1:K:493:VAL:HG13	1.83	0.59
1:K:158:ILE:HG12	1:K:170:LEU:HD12	1.85	0.59
1:L:42:LYS:HB3	1:L:425:ASN:HB2	1.84	0.59
1:L:170:LEU:HD11	1:L:358:VAL:HG13	1.83	0.59
1:L:192:LEU:HB3	1:L:342:ALA:HA	1.83	0.59
1:M:192:LEU:CG	1:M:342:ALA:HB2	2.33	0.59
1:N:299:THR:HG21	1:N:334:VAL:HG11	1.83	0.59
1:N:384:SER:OG	1:N:441:HIS:HE1	1.84	0.59
1:O:150:LEU:HD23	1:O:175:VAL:HG11	1.79	0.59
1:P:34:THR:CG2	1:P:35:VAL:HG13	2.32	0.59
1:P:448:CYS:O	1:P:449:ALA:HB3	2.03	0.59
1:A:116:HIS:HB2	1:A:117:PRO:HD2	1.83	0.59
1:B:494:ILE:CG2	1:C:48:LEU:HD23	2.31	0.59
1:C:42:LYS:HG3	1:C:426:ALA:N	2.18	0.59
1:C:192:LEU:HB3	1:C:342:ALA:CA	2.33	0.59
1:C:384:SER:CA	1:C:441:HIS:CE1	2.84	0.59
1:C:469:PRO:CG	1:C:472:VAL:HG13	2.32	0.59
1:D:232:ILE:HG12	1:D:299:THR:HG21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:259:ALA:O	1:E:281:ILE:HD13	2.03	0.59
1:G:31:ILE:CG2	1:G:65:LEU:CG	2.79	0.59
1:G:117:PRO:O	1:G:120:VAL:HG12	2.03	0.59
1:G:195:ILE:CB	1:G:359:ALA:CB	2.80	0.59
1:H:130:LYS:NZ	1:H:134:LEU:HD21	2.16	0.59
1:J:34:THR:CG2	1:J:35:VAL:N	2.60	0.59
1:K:254:ILE:HG23	1:K:310:LEU:HD12	1.84	0.59
1:M:45:ASP:O	1:M:46:LYS:HG2	2.03	0.59
1:N:469:PRO:CB	1:N:472:VAL:HG11	2.32	0.59
1:O:140:CYS:HB3	1:O:446:ASN:CB	2.33	0.59
1:O:469:PRO:C	1:O:472:VAL:HG13	2.27	0.59
1:P:42:LYS:HE2	1:P:426:ALA:CA	2.32	0.59
1:P:102:GLU:OE2	1:P:417:VAL:HG21	2.03	0.59
1:P:232:ILE:HG13	1:P:261:VAL:HG11	1.84	0.59
1:A:84:THR:HG23	1:A:84:THR:O	2.02	0.59
1:A:134:LEU:HD12	1:A:393:LEU:CD2	2.31	0.59
1:A:177:ALA:HB2	1:A:208:LEU:CD1	2.31	0.59
1:H:99:VAL:O	1:H:103:LEU:HB2	2.02	0.59
1:J:29:ARG:O	1:J:33:GLU:HG3	2.03	0.59
1:J:212:VAL:HG21	1:J:294:LYS:C	2.27	0.59
1:J:235:LEU:CD2	1:J:310:LEU:HD13	2.33	0.59
1:K:251:VAL:HG13	1:K:276:LEU:CD2	2.32	0.59
1:L:155:MET:CE	1:L:465:GLY:HA3	2.32	0.59
1:L:178:VAL:CG2	1:L:366:VAL:HG22	2.33	0.59
1:N:223:MET:HE1	1:N:283:ALA:HB3	1.84	0.59
1:O:150:LEU:HB3	1:O:175:VAL:HG11	1.84	0.59
1:O:152:LYS:HG2	1:O:467:VAL:CG2	2.32	0.59
1:P:134:LEU:HD11	1:P:393:LEU:CG	2.32	0.59
1:A:233:ALA:CB	1:A:315:LEU:HG	2.32	0.59
1:B:384:SER:OG	1:B:441:HIS:HE1	1.86	0.59
1:C:81:VAL:HG21	1:C:483:SER:OG	2.02	0.59
1:D:254:ILE:HG23	1:D:310:LEU:HD13	1.84	0.59
1:J:115:VAL:HG23	1:J:116:HIS:O	2.02	0.59
1:J:200:GLY:O	1:J:348:ARG:HB3	2.03	0.59
1:J:368:VAL:CG2	1:J:469:PRO:CG	2.81	0.59
1:K:42:LYS:HE2	1:K:426:ALA:N	2.17	0.59
1:K:134:LEU:HD12	1:K:393:LEU:HD21	1.83	0.59
1:M:48:LEU:HB2	1:M:56:VAL:HG13	1.84	0.59
1:N:78:LEU:HD12	1:N:487:LEU:CD1	2.30	0.59
1:N:123:GLY:HA3	1:N:407:ALA:HB1	1.84	0.59
1:O:178:VAL:CG2	1:O:366:VAL:CG2	2.80	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:177:ALA:HB2	1:P:208:LEU:HD21	1.85	0.59
1:P:469:PRO:CD	1:P:472:VAL:HG21	2.32	0.59
1:B:232:ILE:HG13	1:B:261:VAL:CG1	2.32	0.59
1:D:251:VAL:HG13	1:D:276:LEU:CD1	2.33	0.59
1:G:97:VAL:O	1:G:100:ALA:HB3	2.03	0.59
1:G:178:VAL:HG22	1:G:366:VAL:HG22	1.81	0.59
1:G:235:LEU:HD23	1:G:310:LEU:CG	2.33	0.59
1:G:358:VAL:O	1:G:362:VAL:HG13	2.01	0.59
1:J:42:LYS:HD2	1:J:426:ALA:HA	1.85	0.59
1:J:130:LYS:HE2	1:J:134:LEU:CD1	2.33	0.59
1:J:178:VAL:CG2	1:J:366:VAL:CG1	2.71	0.59
1:J:194:LYS:HG3	1:J:195:ILE:N	2.17	0.59
1:M:100:ALA:O	1:M:104:LEU:HG	2.02	0.59
1:M:130:LYS:CE	1:M:393:LEU:HD21	2.30	0.59
1:M:135:LEU:HD23	1:M:385:THR:HG21	1.84	0.59
1:M:158:ILE:CG2	1:M:170:LEU:HD12	2.24	0.59
1:N:178:VAL:HG22	1:N:366:VAL:HG22	1.83	0.59
1:N:380:SER:HB2	1:N:384:SER:CB	2.33	0.59
1:O:17:GLY:O	1:O:21:GLN:HB2	2.02	0.59
1:O:195:ILE:HD12	1:O:359:ALA:HB1	1.85	0.59
1:A:30:ILE:HG22	1:A:31:ILE:CB	2.32	0.58
1:A:158:ILE:CG1	1:A:361:ALA:HB1	2.17	0.58
1:A:234:LEU:N	1:A:315:LEU:HD11	2.18	0.58
1:A:239:ILE:HD11	1:A:251:VAL:HG22	1.84	0.58
1:B:212:VAL:HG21	1:B:294:LYS:O	2.03	0.58
1:B:384:SER:CB	1:B:441:HIS:HE1	2.16	0.58
1:C:377:ARG:CD	1:C:377:ARG:N	2.58	0.58
1:F:194:LYS:HB2	1:F:294:LYS:HD3	1.85	0.58
1:K:171:ALA:HA	1:K:174:ILE:HG12	1.85	0.58
1:K:235:LEU:HG	1:K:310:LEU:HG	1.83	0.58
1:L:177:ALA:HB2	1:L:208:LEU:CD1	2.33	0.58
1:L:299:THR:HG23	1:L:334:VAL:HG11	1.84	0.58
1:L:389:LEU:CD1	1:L:415:LEU:HD13	2.33	0.58
1:L:469:PRO:CG	1:L:472:VAL:CG2	2.81	0.58
1:P:155:MET:SD	1:P:167:LYS:HD3	2.43	0.58
1:P:296:ALA:CA	1:P:301:ALA:HB3	2.25	0.58
1:P:380:SER:HB3	1:P:384:SER:CB	2.32	0.58
1:B:38:THR:HG23	1:B:46:LYS:CE	2.20	0.58
1:B:130:LYS:HE2	1:B:134:LEU:CG	2.33	0.58
1:D:156:THR:HB	1:D:467:VAL:C	2.27	0.58
1:D:365:ALA:O	1:D:369:VAL:HG13	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:403:ARG:HG3	1:E:403:ARG:NH1	1.95	0.58
1:F:377:ARG:CZ	1:F:470:LEU:HD11	2.33	0.58
1:F:377:ARG:CZ	1:F:470:LEU:HD12	2.33	0.58
1:G:195:ILE:CG2	1:G:359:ALA:HB1	2.33	0.58
1:G:254:ILE:HG21	1:G:262:LEU:HD12	1.85	0.58
1:H:85:GLN:HE22	1:H:475:GLN:CG	2.16	0.58
1:H:477:ILE:O	1:H:477:ILE:CG2	2.51	0.58
1:I:174:ILE:HD12	1:I:365:ALA:CB	2.33	0.58
1:I:177:ALA:O	1:I:181:VAL:HG13	2.03	0.58
1:I:192:LEU:HB3	1:I:342:ALA:HA	1.84	0.58
1:I:459:GLU:HG2	1:I:461:MET:HE1	1.85	0.58
1:K:254:ILE:HG22	1:K:259:ALA:HB3	1.86	0.58
1:L:116:HIS:CD2	1:L:117:PRO:HG2	2.38	0.58
1:O:130:LYS:NZ	1:O:396:TYR:HB2	2.18	0.58
1:O:233:ALA:HA	1:O:315:LEU:CG	2.32	0.58
1:P:345:MET:HE1	1:P:362:VAL:CB	2.32	0.58
1:A:206:THR:CG2	1:A:347:ILE:CG2	2.82	0.58
1:C:193:ILE:HD12	1:C:366:VAL:HG21	1.84	0.58
1:E:235:LEU:CD1	1:E:310:LEU:CD1	2.74	0.58
1:E:254:ILE:HG23	1:E:259:ALA:HB3	1.85	0.58
1:E:400:ILE:CD1	1:E:408:VAL:HG11	2.33	0.58
1:F:124:TYR:HE1	1:F:407:ALA:HA	1.68	0.58
1:G:235:LEU:HD23	1:G:310:LEU:HD13	1.84	0.58
1:H:42:LYS:CE	1:H:426:ALA:CA	2.67	0.58
1:H:197:LYS:HA	1:H:355:ILE:HG21	1.85	0.58
1:I:44:MET:HB3	1:J:491:ASP:OD1	2.03	0.58
1:J:391:MET:HE3	1:J:438:ARG:CB	2.33	0.58
1:L:81:VAL:HG11	1:L:483:SER:HB3	1.84	0.58
1:M:130:LYS:HZ3	1:M:396:TYR:CB	2.16	0.58
1:M:213:LEU:HD11	1:M:333:PHE:CZ	2.38	0.58
1:N:380:SER:CB	1:N:384:SER:CB	2.80	0.58
1:N:383:GLY:HA3	1:N:386:GLU:HG3	1.83	0.58
1:P:124:TYR:CE1	1:P:407:ALA:C	2.81	0.58
1:A:105:ARG:CZ	1:A:106:LYS:HG2	2.33	0.58
1:A:139:ALA:HB1	1:A:377:ARG:HG3	1.84	0.58
1:A:431:ILE:HD11	1:J:403:ARG:CA	2.34	0.58
1:B:206:THR:HB	1:B:347:ILE:HA	1.84	0.58
1:C:106:LYS:CA	1:C:106:LYS:HE3	2.33	0.58
1:C:194:LYS:HB2	1:C:294:LYS:HD3	1.85	0.58
1:C:197:LYS:HB3	1:C:355:ILE:HB	1.84	0.58
1:C:469:PRO:HG2	1:C:472:VAL:HG22	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:36:ARG:HG3	1:E:37:SER:N	2.18	0.58
1:E:251:VAL:HG13	1:E:276:LEU:HD13	1.83	0.58
1:F:97:VAL:O	1:F:100:ALA:HB3	2.03	0.58
1:F:431:ILE:O	1:F:435:VAL:HG13	2.03	0.58
1:G:42:LYS:CG	1:G:425:ASN:CB	2.75	0.58
1:G:129:GLN:O	1:G:132:GLN:HB2	2.04	0.58
1:J:485:GLU:O	1:J:485:GLU:HG2	1.96	0.58
1:K:134:LEU:HD12	1:K:393:LEU:CD1	2.33	0.58
1:L:383:GLY:CA	1:L:386:GLU:HG3	2.33	0.58
1:N:46:LYS:HB3	1:O:492:ASP:OD2	2.03	0.58
1:O:441:HIS:ND1	1:O:449:ALA:HB3	2.19	0.58
1:A:89:VAL:HG21	1:A:368:VAL:HG11	1.83	0.58
1:A:197:LYS:CD	1:A:197:LYS:N	2.39	0.58
1:A:347:ILE:HB	1:A:355:ILE:HG22	1.85	0.58
1:A:403:ARG:HB3	1:J:431:ILE:HD11	1.86	0.58
1:C:234:LEU:CD1	1:C:301:ALA:HB3	2.34	0.58
1:E:232:ILE:HG13	1:E:261:VAL:CG1	2.32	0.58
1:E:431:ILE:CD1	1:N:403:ARG:HG2	2.30	0.58
1:F:405:GLN:CB	1:F:406:LEU:HD12	2.23	0.58
1:G:135:LEU:HA	1:G:138:ILE:CD1	2.34	0.58
1:H:130:LYS:CD	1:H:393:LEU:HD12	2.32	0.58
1:J:462:CYS:SG	1:J:467:VAL:HG21	2.43	0.58
1:L:117:PRO:O	1:L:121:VAL:HG13	2.03	0.58
1:N:158:ILE:CD1	1:N:170:LEU:CB	2.81	0.58
1:O:152:LYS:CG	1:O:465:GLY:HA3	2.33	0.58
1:P:115:VAL:CG1	1:P:403:ARG:NE	2.65	0.58
1:B:95:THR:O	1:B:95:THR:HG22	2.02	0.58
1:B:125:GLN:HG3	1:B:126:ALA:H	1.68	0.58
1:B:156:THR:HG21	1:B:468:GLU:HB3	1.84	0.58
1:D:30:ILE:HG22	1:D:31:ILE:N	2.18	0.58
1:D:42:LYS:CB	1:D:425:ASN:HB2	2.33	0.58
1:D:66:ARG:HA	1:D:79:ILE:HD12	1.86	0.58
1:D:195:ILE:HG13	1:D:359:ALA:HB1	1.84	0.58
1:D:207:GLU:OE2	1:D:346:LEU:HD13	2.04	0.58
1:D:431:ILE:HD11	1:M:402:GLY:C	2.27	0.58
1:E:130:LYS:HZ3	1:E:134:LEU:HD11	1.69	0.58
1:E:170:LEU:HD12	1:E:358:VAL:HG13	1.86	0.58
1:I:30:ILE:HG22	1:I:31:ILE:N	2.17	0.58
1:I:117:PRO:O	1:I:120:VAL:HG12	2.03	0.58
1:I:178:VAL:CG2	1:I:366:VAL:CG2	2.76	0.58
1:I:232:ILE:CG1	1:I:261:VAL:HG11	2.25	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:48:LEU:HB2	1:J:56:VAL:HG11	1.79	0.58
1:J:105:ARG:CZ	1:J:106:LYS:HD2	2.33	0.58
1:J:152:LYS:HG2	1:J:465:GLY:CA	2.32	0.58
1:J:441:HIS:HD1	1:J:449:ALA:HB3	1.68	0.58
1:K:157:SER:HB3	1:K:365:ALA:HB2	1.85	0.58
1:K:227:VAL:CG1	1:K:260:ASN:HD21	2.17	0.58
1:K:420:ARG:NE	1:K:430:ALA:HB3	2.19	0.58
1:L:156:THR:HG21	1:L:467:VAL:C	2.28	0.58
1:M:42:LYS:O	1:M:425:ASN:HB3	2.02	0.58
1:M:235:LEU:HD21	1:M:310:LEU:CG	2.33	0.58
1:M:391:MET:HE1	1:M:438:ARG:HA	1.84	0.58
1:M:441:HIS:NE2	1:M:449:ALA:HA	2.19	0.58
1:M:494:ILE:O	1:M:494:ILE:HG22	2.01	0.58
1:N:72:HIS:O	1:N:75:ALA:HB3	2.02	0.58
1:P:134:LEU:HD11	1:P:393:LEU:HG	1.86	0.58
1:A:27:ALA:HA	1:A:30:ILE:HD11	1.84	0.58
1:A:104:LEU:CD2	1:A:488:LEU:CD1	2.81	0.58
1:A:152:LYS:CE	1:A:462:CYS:HA	2.09	0.58
1:A:218:ARG:NH1	1:A:282:VAL:HG21	2.18	0.58
1:A:391:MET:CE	1:A:438:ARG:HB3	2.34	0.58
1:B:38:THR:CG2	1:B:46:LYS:CE	2.73	0.58
1:B:119:ILE:HG22	1:B:120:VAL:N	2.18	0.58
1:B:254:ILE:HD12	1:B:276:LEU:HD21	1.84	0.58
1:D:79:ILE:O	1:D:83:LYS:HB2	2.04	0.58
1:D:105:ARG:O	1:D:108:GLU:HB3	2.03	0.58
1:E:106:LYS:HE3	1:E:109:GLU:CD	2.28	0.58
1:E:115:VAL:HG11	1:E:403:ARG:NE	2.19	0.58
1:E:138:ILE:O	1:E:446:ASN:HB2	2.04	0.58
1:E:139:ALA:HB2	1:E:377:ARG:HD2	1.85	0.58
1:F:384:SER:CB	1:F:441:HIS:CE1	2.87	0.58
1:G:195:ILE:CG2	1:G:359:ALA:CB	2.81	0.58
1:H:99:VAL:CG1	1:H:418:ILE:HD11	2.34	0.58
1:H:254:ILE:HG22	1:H:259:ALA:HB3	1.84	0.58
1:H:263:PHE:CZ	1:H:332:ILE:HG21	2.39	0.58
1:I:268:ILE:CG2	1:I:273:GLN:HG3	2.33	0.58
1:J:391:MET:HE1	1:J:438:ARG:HE	1.68	0.58
1:K:405:GLN:HG2	1:K:406:LEU:HG	1.86	0.58
1:L:232:ILE:O	1:L:315:LEU:HB3	2.04	0.58
1:M:153:ILE:CD1	1:M:372:THR:HG21	2.29	0.58
1:N:102:GLU:OE1	1:N:102:GLU:HA	2.02	0.58
1:P:400:ILE:HD11	1:P:408:VAL:HG11	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:42:LYS:NZ	1:A:426:ALA:HA	2.18	0.58
1:A:99:VAL:O	1:A:103:LEU:HB2	2.04	0.58
1:A:391:MET:CE	1:A:438:ARG:CB	2.81	0.58
1:B:30:ILE:HG22	1:B:31:ILE:N	2.17	0.58
1:B:223:MET:HB3	1:B:282:VAL:HA	1.85	0.58
1:B:276:LEU:HD23	1:B:281:ILE:CD1	2.18	0.58
1:D:134:LEU:HD11	1:D:393:LEU:CD2	2.33	0.58
1:D:138:ILE:HD12	1:D:385:THR:HG23	1.84	0.58
1:E:134:LEU:CD1	1:E:393:LEU:CG	2.81	0.58
1:E:135:LEU:HD23	1:E:138:ILE:HD11	1.85	0.58
1:G:195:ILE:CB	1:G:359:ALA:HB1	2.33	0.58
1:G:276:LEU:HD12	1:G:281:ILE:HD12	1.86	0.58
1:H:494:ILE:O	1:H:494:ILE:HG23	2.03	0.58
1:I:130:LYS:CG	1:I:393:LEU:CD2	2.80	0.58
1:I:232:ILE:HA	1:I:261:VAL:HB	1.86	0.58
1:I:379:VAL:HG11	1:I:473:LYS:HG3	1.86	0.58
1:K:25:ILE:HG22	1:K:26:LEU:H	1.67	0.58
1:K:103:LEU:HD21	1:K:411:PHE:CE2	2.39	0.58
1:L:34:THR:HG22	1:L:35:VAL:N	2.19	0.58
1:L:218:ARG:NE	1:L:282:VAL:HG11	2.18	0.58
1:L:418:ILE:HB	1:L:419:PRO:CD	2.33	0.58
1:N:174:ILE:CD1	1:N:365:ALA:HB1	2.29	0.58
1:N:212:VAL:CG2	1:N:294:LYS:HB3	2.34	0.58
1:O:123:GLY:HA3	1:O:407:ALA:CB	2.34	0.58
1:P:377:ARG:CD	1:P:470:LEU:CD1	2.80	0.58
1:A:134:LEU:CD1	1:A:393:LEU:CG	2.81	0.58
1:A:152:LYS:HE3	1:A:465:GLY:HA2	1.86	0.58
1:B:254:ILE:HG22	1:B:259:ALA:CB	2.33	0.58
1:C:420:ARG:CG	1:C:420:ARG:NH1	2.59	0.58
1:D:251:VAL:CG1	1:D:276:LEU:HD22	2.33	0.58
1:E:96:ALA:CA	1:E:480:ALA:CB	2.81	0.58
1:E:254:ILE:HG12	1:E:310:LEU:CD2	2.34	0.58
1:F:105:ARG:NH1	1:F:106:LYS:HG2	2.18	0.58
1:F:194:LYS:HG2	1:F:195:ILE:H	1.68	0.58
1:G:195:ILE:HB	1:G:359:ALA:HB1	1.85	0.58
1:G:281:ILE:O	1:G:281:ILE:CG2	2.25	0.58
1:J:177:ALA:HB1	1:J:343:VAL:CG2	2.26	0.58
1:K:232:ILE:HG13	1:K:261:VAL:CB	2.34	0.58
1:L:77:MET:HE1	1:L:486:MET:HE3	1.84	0.58
1:M:72:HIS:HB3	1:M:75:ALA:HB3	1.86	0.58
1:M:365:ALA:O	1:M:369:VAL:HG23	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:107:ALA:O	1:N:111:LEU:HG	2.04	0.58
1:N:124:TYR:CE1	1:N:407:ALA:HA	2.29	0.58
1:P:233:ALA:HA	1:P:315:LEU:CG	2.34	0.58
1:A:42:LYS:CE	1:H:118:THR:HG21	2.33	0.58
1:A:77:MET:HA	1:A:80:GLU:OE1	2.04	0.58
1:B:105:ARG:NH1	1:B:106:LYS:HD2	2.17	0.58
1:D:135:LEU:HA	1:D:138:ILE:HD13	1.86	0.58
1:D:209:ILE:O	1:D:209:ILE:HG13	2.04	0.58
1:E:31:ILE:CG2	1:E:65:LEU:HD22	2.33	0.58
1:F:101:GLY:O	1:F:104:LEU:HB2	2.03	0.58
1:F:124:TYR:CE1	1:F:407:ALA:HA	2.38	0.58
1:F:174:ILE:HG22	1:F:362:VAL:HG23	1.85	0.58
1:G:115:VAL:HG11	1:G:403:ARG:HE	1.68	0.58
1:G:138:ILE:O	1:G:446:ASN:HB2	2.03	0.58
1:G:158:ILE:HD11	1:G:170:LEU:HB3	1.81	0.58
1:H:403:ARG:HA	1:H:406:LEU:HD12	1.86	0.58
1:I:123:GLY:C	1:I:407:ALA:HB1	2.29	0.58
1:I:406:LEU:H	1:I:406:LEU:CD2	2.01	0.58
1:J:31:ILE:CG2	1:J:65:LEU:HD22	2.34	0.58
1:J:377:ARG:HD2	1:J:470:LEU:CD1	2.34	0.58
1:L:48:LEU:O	1:L:56:VAL:HG22	2.03	0.58
1:M:117:PRO:O	1:M:120:VAL:HG12	2.04	0.58
1:N:345:MET:SD	1:N:362:VAL:HG21	2.44	0.58
1:O:114:ASN:O	1:O:114:ASN:CG	2.36	0.58
1:P:122:LYS:HA	1:P:125:GLN:NE2	2.19	0.58
1:B:174:ILE:CG2	1:B:362:VAL:CG2	2.78	0.57
1:C:117:PRO:HA	1:C:120:VAL:HG12	1.85	0.57
1:D:152:LYS:HG2	1:D:465:GLY:O	2.04	0.57
1:I:27:ALA:CB	1:I:72:HIS:HD2	2.16	0.57
1:I:42:LYS:HD2	1:I:426:ALA:N	2.19	0.57
1:K:351:THR:HG23	1:K:352:GLU:N	2.20	0.57
1:K:371:CYS:CB	1:K:471:ARG:HD2	2.34	0.57
1:L:34:THR:CG2	1:L:35:VAL:HG22	2.34	0.57
1:M:130:LYS:CG	1:M:393:LEU:CD2	2.81	0.57
1:O:232:ILE:O	1:O:315:LEU:HB3	2.04	0.57
1:A:212:VAL:N	1:A:298:ALA:HB1	2.19	0.57
1:E:115:VAL:HG11	1:E:403:ARG:HE	1.69	0.57
1:E:134:LEU:CG	1:E:392:LYS:HE3	2.34	0.57
1:E:135:LEU:CD2	1:E:385:THR:CG2	2.81	0.57
1:E:234:LEU:HB3	1:E:292:MET:CE	2.34	0.57
1:F:263:PHE:CD2	1:F:295:LEU:CD2	2.88	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:156:THR:HG21	1:G:467:VAL:C	2.29	0.57
1:H:174:ILE:HG13	1:H:175:VAL:H	1.68	0.57
1:I:21:GLN:O	1:I:25:ILE:HD12	2.04	0.57
1:J:34:THR:HB	1:K:14:ARG:CZ	2.33	0.57
1:L:262:LEU:CD1	1:L:310:LEU:CD2	2.82	0.57
1:M:268:ILE:HB	1:M:273:GLN:NE2	2.06	0.57
1:N:124:TYR:HE1	1:N:407:ALA:CB	2.17	0.57
1:O:152:LYS:HG3	1:O:465:GLY:CA	2.32	0.57
1:O:233:ALA:CB	1:O:310:LEU:HD11	2.35	0.57
1:A:47:MET:HE2	1:H:493:VAL:CG1	2.33	0.57
1:B:150:LEU:HD23	1:B:175:VAL:CG1	2.35	0.57
1:C:78:LEU:CD1	1:C:487:LEU:HD22	2.34	0.57
1:C:192:LEU:HD22	1:C:342:ALA:HB2	1.87	0.57
1:D:34:THR:HG22	1:D:35:VAL:N	2.19	0.57
1:E:206:THR:CG2	1:E:347:ILE:HG23	2.34	0.57
1:G:77:MET:CE	1:G:487:LEU:HD21	2.30	0.57
1:G:431:ILE:HD11	1:P:406:LEU:CD1	2.34	0.57
1:H:42:LYS:CB	1:H:425:ASN:HD22	2.18	0.57
1:H:74:ALA:O	1:H:77:MET:HB2	2.05	0.57
1:H:234:LEU:N	1:H:315:LEU:HD21	2.19	0.57
1:I:27:ALA:HB2	1:I:72:HIS:HD2	1.69	0.57
1:J:62:VAL:O	1:J:66:ARG:HB2	2.05	0.57
1:J:103:LEU:HD21	1:J:411:PHE:CD2	2.39	0.57
1:J:379:VAL:CG2	1:J:380:SER:H	2.16	0.57
1:J:473:LYS:HA	1:J:473:LYS:CE	2.31	0.57
1:L:21:GLN:O	1:L:25:ILE:HG13	2.05	0.57
1:M:135:LEU:HG	1:M:389:LEU:HD21	1.86	0.57
1:N:115:VAL:CG2	1:N:403:ARG:CZ	2.82	0.57
1:N:134:LEU:CD1	1:N:393:LEU:HD22	2.34	0.57
1:O:34:THR:CG2	1:P:14:ARG:HH12	2.16	0.57
1:O:103:LEU:HD21	1:O:411:PHE:CD2	2.39	0.57
1:O:106:LYS:HA	1:O:106:LYS:CE	2.32	0.57
1:O:233:ALA:CB	1:O:310:LEU:HD13	2.29	0.57
1:P:139:ALA:HB3	1:P:377:ARG:CD	2.33	0.57
1:P:195:ILE:CB	1:P:359:ALA:HB1	2.28	0.57
1:A:156:THR:HG21	1:A:468:GLU:HA	1.85	0.57
1:A:262:LEU:CD1	1:A:310:LEU:HD21	2.35	0.57
1:B:155:MET:HB2	1:B:167:LYS:HB2	1.85	0.57
1:B:391:MET:HE1	1:B:438:ARG:O	2.04	0.57
1:C:488:LEU:O	1:C:488:LEU:HG	2.03	0.57
1:D:377:ARG:CZ	1:D:377:ARG:HB2	2.27	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:27:ALA:HB2	1:E:72:HIS:NE2	2.20	0.57
1:E:134:LEU:HD22	1:E:392:LYS:CE	2.34	0.57
1:E:138:ILE:HD12	1:E:139:ALA:N	2.19	0.57
1:G:416:GLU:O	1:G:420:ARG:HB2	2.04	0.57
1:G:431:ILE:CD1	1:P:406:LEU:CD1	2.82	0.57
1:H:304:ILE:CD1	1:H:310:LEU:HA	2.34	0.57
1:I:362:VAL:O	1:I:366:VAL:HG23	2.03	0.57
1:J:31:ILE:HG21	1:J:65:LEU:CD2	2.34	0.57
1:J:235:LEU:HD11	1:J:262:LEU:HD11	1.86	0.57
1:N:377:ARG:HB3	1:N:470:LEU:HG	1.85	0.57
1:N:472:VAL:CG2	1:N:473:LYS:N	2.67	0.57
1:O:98:VAL:HG12	1:O:99:VAL:CG1	2.33	0.57
1:P:262:LEU:CD1	1:P:310:LEU:CD2	2.82	0.57
1:P:299:THR:CG2	1:P:334:VAL:HG11	2.34	0.57
1:P:477:ILE:O	1:P:477:ILE:CG2	2.46	0.57
1:A:130:LYS:HZ1	1:A:396:TYR:HB2	1.69	0.57
1:A:262:LEU:CD1	1:A:310:LEU:CD2	2.82	0.57
1:A:389:LEU:HD13	1:A:415:LEU:HD21	1.85	0.57
1:B:86:GLU:O	1:B:86:GLU:OE2	2.21	0.57
1:B:431:ILE:HD11	1:K:402:GLY:C	2.29	0.57
1:C:62:VAL:HG13	1:C:63:THR:H	1.69	0.57
1:D:111:LEU:HD11	1:D:488:LEU:HD21	1.87	0.57
1:E:124:TYR:HE1	1:E:407:ALA:O	1.87	0.57
1:E:202:SER:OG	1:E:203:ILE:HG12	2.04	0.57
1:F:469:PRO:HB2	1:F:472:VAL:HG21	1.85	0.57
1:H:174:ILE:HG13	1:H:175:VAL:N	2.20	0.57
1:H:233:ALA:HA	1:H:315:LEU:HD23	1.87	0.57
1:H:403:ARG:CG	1:H:403:ARG:NH1	2.66	0.57
1:I:122:LYS:HA	1:I:125:GLN:CD	2.29	0.57
1:J:38:THR:HG22	1:J:59:ASN:OD1	2.04	0.57
1:J:48:LEU:CD2	1:K:494:ILE:HD12	2.35	0.57
1:J:100:ALA:O	1:J:104:LEU:HG	2.04	0.57
1:J:223:MET:HB3	1:J:282:VAL:HA	1.87	0.57
1:K:262:LEU:HD12	1:K:310:LEU:HD12	1.83	0.57
1:K:263:PHE:CE2	1:K:295:LEU:HD21	2.39	0.57
1:L:441:HIS:HD1	1:L:449:ALA:HB3	1.67	0.57
1:M:195:ILE:HB	1:M:359:ALA:HB2	1.84	0.57
1:N:99:VAL:O	1:N:103:LEU:HB2	2.04	0.57
1:N:152:LYS:HB3	1:N:467:VAL:HG13	1.85	0.57
1:N:262:LEU:HD11	1:N:310:LEU:CD2	2.35	0.57
1:N:418:ILE:HG22	1:N:419:PRO:CD	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:233:ALA:HA	1:O:315:LEU:CD2	2.34	0.57
1:P:132:GLN:HE22	1:P:478:GLN:HE21	1.53	0.57
1:A:115:VAL:HG21	1:A:403:ARG:CZ	2.34	0.57
1:A:212:VAL:HG22	1:A:344:THR:OG1	2.05	0.57
1:B:155:MET:HE3	1:B:465:GLY:O	2.05	0.57
1:E:136:LYS:HG2	1:E:377:ARG:HH12	1.68	0.57
1:E:223:MET:CE	1:E:283:ALA:CB	2.79	0.57
1:F:102:GLU:OE2	1:F:417:VAL:HG11	2.04	0.57
1:F:194:LYS:C	1:F:195:ILE:CG2	2.77	0.57
1:G:197:LYS:C	1:G:355:ILE:HD13	2.30	0.57
1:G:219:VAL:HG11	1:G:283:ALA:HB3	1.83	0.57
1:J:166:ALA:CB	1:J:203:ILE:HG22	2.34	0.57
1:J:262:LEU:HD11	1:J:310:LEU:CD2	2.35	0.57
1:J:377:ARG:HE	1:J:470:LEU:CD1	2.18	0.57
1:J:387:VAL:O	1:J:390:SER:HB3	2.05	0.57
1:K:31:ILE:CG2	1:K:65:LEU:HD11	2.35	0.57
1:L:48:LEU:HD23	1:M:494:ILE:CD1	2.34	0.57
1:L:106:LYS:HE3	1:L:106:LYS:HA	1.85	0.57
1:N:24:ASN:HD22	1:N:24:ASN:N	2.01	0.57
1:O:100:ALA:O	1:O:104:LEU:HG	2.04	0.57
1:O:153:ILE:HD11	1:O:378:ILE:HB	1.86	0.57
1:O:166:ALA:CB	1:O:203:ILE:HB	2.25	0.57
1:O:343:VAL:O	1:O:343:VAL:HG13	2.05	0.57
1:P:72:HIS:O	1:P:75:ALA:HB3	2.04	0.57
1:P:345:MET:HE2	1:P:362:VAL:HG11	1.84	0.57
1:A:134:LEU:HD22	1:A:392:LYS:CE	2.34	0.57
1:A:389:LEU:HD12	1:A:415:LEU:HD21	1.87	0.57
1:B:138:ILE:O	1:B:446:ASN:HB2	2.05	0.57
1:B:380:SER:CB	1:B:384:SER:CB	2.75	0.57
1:C:118:THR:HG23	1:C:121:VAL:HG21	1.87	0.57
1:C:155:MET:CE	1:C:465:GLY:HA3	2.33	0.57
1:D:96:ALA:CB	1:D:480:ALA:HB2	2.34	0.57
1:E:85:GLN:OE1	1:E:475:GLN:HG3	2.04	0.57
1:F:178:VAL:HG12	1:F:193:ILE:HD12	1.86	0.57
1:F:178:VAL:HB	1:F:193:ILE:HD11	1.86	0.57
1:G:155:MET:HB3	1:G:167:LYS:HB2	1.86	0.57
1:G:397:ALA:CB	1:G:408:VAL:HG23	2.30	0.57
1:H:77:MET:SD	1:H:487:LEU:HD11	2.45	0.57
1:L:130:LYS:HE3	1:L:396:TYR:CG	2.40	0.57
1:N:218:ARG:CZ	1:N:282:VAL:CG2	2.80	0.57
1:N:268:ILE:CG2	1:N:273:GLN:CG	2.79	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:158:ILE:HG21	1:O:170:LEU:HD12	1.87	0.57
1:P:119:ILE:CD1	1:P:403:ARG:HB2	2.33	0.57
1:A:153:ILE:CD1	1:A:372:THR:CG2	2.83	0.57
1:A:254:ILE:HG22	1:A:259:ALA:HB3	1.84	0.57
1:B:400:ILE:HD11	1:B:408:VAL:HG21	1.87	0.57
1:D:138:ILE:HD11	1:D:385:THR:CG2	2.33	0.57
1:E:38:THR:HG22	1:E:44:MET:O	2.04	0.57
1:E:119:ILE:CD1	1:E:403:ARG:HG3	2.35	0.57
1:E:177:ALA:C	1:E:193:ILE:HD11	2.29	0.57
1:E:208:LEU:HD22	1:E:343:VAL:HG22	1.86	0.57
1:E:235:LEU:CA	1:E:310:LEU:HD13	2.35	0.57
1:H:170:LEU:HG	1:H:358:VAL:HG13	1.86	0.57
1:K:397:ALA:C	1:K:399:GLY:H	2.12	0.57
1:L:36:ARG:HG3	1:L:37:SER:OG	2.04	0.57
1:M:208:LEU:HD12	1:M:343:VAL:CG2	2.35	0.57
1:N:130:LYS:HZ2	1:N:134:LEU:HD21	1.67	0.57
1:O:158:ILE:CD1	1:O:170:LEU:HB2	2.34	0.57
1:A:72:HIS:CD2	1:A:73:PRO:CD	2.76	0.57
1:A:138:ILE:HG12	1:A:139:ALA:N	2.04	0.57
1:A:299:THR:CG2	1:A:334:VAL:HG12	2.34	0.57
1:B:405:GLN:HB3	1:B:406:LEU:HG	1.85	0.57
1:C:78:LEU:HD12	1:C:487:LEU:HD21	1.85	0.57
1:C:82:ALA:HB2	1:C:97:VAL:CG2	2.35	0.57
1:D:195:ILE:N	1:D:195:ILE:CD1	2.67	0.57
1:D:391:MET:CE	1:D:438:ARG:CB	2.81	0.57
1:E:115:VAL:HG11	1:E:403:ARG:CD	2.35	0.57
1:E:235:LEU:HD22	1:E:262:LEU:HD11	1.85	0.57
1:F:117:PRO:HA	1:F:120:VAL:HG13	1.87	0.57
1:G:89:VAL:CG1	1:G:472:VAL:HA	2.35	0.57
1:I:212:VAL:CG2	1:I:298:ALA:HB2	2.35	0.57
1:I:347:ILE:CG2	1:I:358:VAL:HG11	2.35	0.57
1:K:391:MET:HE1	1:K:438:ARG:CA	2.35	0.57
1:L:43:GLY:O	1:L:44:MET:HE2	2.05	0.57
1:L:264:CYS:HB2	1:L:266:LYS:O	2.05	0.57
1:M:389:LEU:HD13	1:M:415:LEU:HD11	1.87	0.57
1:N:140:CYS:SG	1:N:378:ILE:HG13	2.44	0.57
1:O:34:THR:CA	1:P:14:ARG:HH12	2.17	0.57
1:O:177:ALA:HB2	1:O:208:LEU:CD1	2.35	0.57
1:P:134:LEU:CD1	1:P:393:LEU:CG	2.83	0.57
1:A:178:VAL:CG2	1:A:366:VAL:CG2	2.77	0.57
1:A:251:VAL:HG21	1:A:272:ALA:HB1	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:276:LEU:HD12	1:A:281:ILE:CB	2.35	0.57
1:B:124:TYR:CE1	1:B:407:ALA:CA	2.76	0.57
1:E:119:ILE:O	1:E:119:ILE:CG2	2.53	0.57
1:E:206:THR:HG21	1:E:347:ILE:HG22	1.86	0.57
1:E:233:ALA:CA	1:E:315:LEU:CD2	2.83	0.57
1:G:384:SER:CB	1:G:441:HIS:HE1	2.18	0.57
1:H:37:SER:O	1:H:43:GLY:HA2	2.04	0.57
1:H:142:VAL:HG12	1:H:378:ILE:HD13	1.85	0.57
1:J:142:VAL:CG2	1:J:378:ILE:HD13	2.34	0.57
1:K:197:LYS:CA	1:K:355:ILE:CG2	2.81	0.57
1:L:38:THR:HG23	1:L:46:LYS:HE2	1.85	0.57
1:M:420:ARG:CZ	1:M:430:ALA:CB	2.83	0.57
1:N:19:ASP:HA	1:N:22:ARG:NH2	2.20	0.57
1:O:150:LEU:CD2	1:O:175:VAL:CG1	2.73	0.57
1:O:153:ILE:CG2	1:O:469:PRO:HB3	2.35	0.57
1:O:377:ARG:NH2	1:O:470:LEU:HD13	2.20	0.57
1:A:34:THR:CA	1:H:14:ARG:HH12	2.04	0.56
1:B:207:GLU:OE2	1:B:346:LEU:HD13	2.04	0.56
1:D:170:LEU:HD11	1:D:361:ALA:HB1	1.86	0.56
1:E:223:MET:HG2	1:E:281:ILE:O	2.05	0.56
1:E:493:VAL:CG2	1:F:47:MET:HE2	2.35	0.56
1:G:491:ASP:CG	1:H:44:MET:HG3	2.30	0.56
1:H:219:VAL:HG11	1:H:283:ALA:HB3	1.86	0.56
1:H:233:ALA:CA	1:H:315:LEU:HD23	2.33	0.56
1:I:39:LEU:HD12	1:I:40:GLY:H	1.70	0.56
1:I:110:LEU:HA	1:I:113:GLN:HB3	1.87	0.56
1:J:14:ARG:CG	1:J:494:ILE:HG12	2.32	0.56
1:J:89:VAL:O	1:J:89:VAL:HG22	2.02	0.56
1:J:116:HIS:CE1	1:J:117:PRO:HD2	2.39	0.56
1:K:105:ARG:NH1	1:K:106:LYS:HD2	2.19	0.56
1:L:406:LEU:N	1:L:406:LEU:CD1	2.61	0.56
1:N:383:GLY:HA3	1:N:386:GLU:HG2	1.84	0.56
1:O:31:ILE:HG21	1:O:65:LEU:HG	1.86	0.56
1:O:79:ILE:O	1:O:83:LYS:HB2	2.04	0.56
1:P:134:LEU:CB	1:P:392:LYS:HE3	2.34	0.56
1:A:403:ARG:HB3	1:J:431:ILE:HD13	1.87	0.56
1:B:154:ALA:HB1	1:B:174:ILE:HD11	1.86	0.56
1:C:387:VAL:HG21	1:C:437:VAL:CG1	2.35	0.56
1:D:105:ARG:HH12	1:D:106:LYS:HD2	1.69	0.56
1:D:383:GLY:CA	1:D:386:GLU:HG2	2.27	0.56
1:E:459:GLU:CG	1:E:461:MET:CE	2.83	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:115:VAL:HG23	1:F:119:ILE:HB	1.87	0.56
1:G:14:ARG:HH22	1:H:34:THR:HG23	1.70	0.56
1:I:47:MET:HE2	1:J:493:VAL:HG13	1.87	0.56
1:I:227:VAL:HG11	1:I:260:ASN:ND2	2.20	0.56
1:I:403:ARG:O	1:I:406:LEU:HG	2.05	0.56
1:J:166:ALA:O	1:J:170:LEU:HG	2.05	0.56
1:J:212:VAL:HG23	1:J:298:ALA:HB2	1.87	0.56
1:L:156:THR:CG2	1:L:468:GLU:HB3	2.36	0.56
1:L:299:THR:HG23	1:L:334:VAL:CG1	2.35	0.56
1:L:384:SER:CB	1:L:441:HIS:CE1	2.83	0.56
1:M:194:LYS:HB2	1:M:294:LYS:CD	2.36	0.56
1:N:130:LYS:HG2	1:N:393:LEU:HD11	1.87	0.56
1:N:134:LEU:HD12	1:N:393:LEU:HD22	1.86	0.56
1:O:358:VAL:O	1:O:362:VAL:HG12	2.05	0.56
1:P:138:ILE:HD12	1:P:385:THR:CB	2.34	0.56
1:A:25:ILE:HD13	1:A:108:GLU:CD	2.29	0.56
1:A:170:LEU:HD11	1:A:358:VAL:CG1	2.34	0.56
1:A:170:LEU:CD1	1:A:358:VAL:HG13	2.35	0.56
1:A:192:LEU:CG	1:A:342:ALA:HB2	2.34	0.56
1:A:394:ARG:NH2	1:A:413:ASP:CG	2.64	0.56
1:B:173:ILE:HG13	1:B:345:MET:SD	2.44	0.56
1:B:263:PHE:HE1	1:B:332:ILE:HG21	1.68	0.56
1:B:391:MET:HE3	1:B:438:ARG:CA	2.35	0.56
1:C:77:MET:HB3	1:C:80:GLU:OE1	2.05	0.56
1:C:257:SER:HB2	1:C:312:ALA:HB2	1.87	0.56
1:D:25:ILE:CG2	1:D:26:LEU:N	2.69	0.56
1:D:42:LYS:HE3	1:D:426:ALA:HA	1.87	0.56
1:D:96:ALA:CA	1:D:480:ALA:CB	2.83	0.56
1:D:117:PRO:O	1:D:120:VAL:HG13	2.06	0.56
1:E:22:ARG:C	1:E:24:ASN:H	2.13	0.56
1:E:42:LYS:HG3	1:E:425:ASN:CA	2.35	0.56
1:E:345:MET:CE	1:E:362:VAL:HG11	2.21	0.56
1:F:138:ILE:HD12	1:F:385:THR:HA	1.87	0.56
1:F:211:GLY:O	1:F:212:VAL:HG23	2.04	0.56
1:F:212:VAL:HG21	1:F:294:LYS:CB	2.35	0.56
1:G:14:ARG:CZ	1:H:34:THR:HG23	2.35	0.56
1:H:89:VAL:O	1:H:89:VAL:HG23	2.04	0.56
1:I:119:ILE:HG21	1:I:403:ARG:CB	2.24	0.56
1:I:173:ILE:HG13	1:I:345:MET:SD	2.46	0.56
1:I:402:GLY:O	1:I:405:GLN:HB3	2.04	0.56
1:J:158:ILE:HD11	1:J:170:LEU:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:170:LEU:HD21	1:J:358:VAL:CG2	2.35	0.56
1:J:491:ASP:O	1:J:491:ASP:CG	2.42	0.56
1:K:77:MET:HE2	1:K:487:LEU:HG	1.87	0.56
1:K:117:PRO:HA	1:K:120:VAL:HG12	1.87	0.56
1:K:118:THR:O	1:K:118:THR:HG22	2.05	0.56
1:K:154:ALA:CB	1:K:171:ALA:HB1	2.35	0.56
1:K:197:LYS:HB2	1:K:355:ILE:HG13	1.87	0.56
1:K:368:VAL:CG2	1:K:469:PRO:CG	2.82	0.56
1:L:139:ALA:HB2	1:L:377:ARG:HH11	1.70	0.56
1:M:195:ILE:CB	1:M:359:ALA:HB1	2.33	0.56
1:N:38:THR:CG2	1:N:59:ASN:HB2	2.34	0.56
1:N:42:LYS:CD	1:O:118:THR:HG21	2.35	0.56
1:N:115:VAL:HG13	1:N:116:HIS:O	2.05	0.56
1:N:218:ARG:HG2	1:N:218:ARG:NH1	2.04	0.56
1:O:155:MET:SD	1:O:167:LYS:HD2	2.45	0.56
1:P:139:ALA:HB3	1:P:377:ARG:HD3	1.86	0.56
1:P:193:ILE:HD12	1:P:366:VAL:CG2	2.36	0.56
1:P:235:LEU:CB	1:P:310:LEU:HD22	2.35	0.56
1:P:389:LEU:CD1	1:P:415:LEU:HD13	2.35	0.56
1:A:94:THR:O	1:A:97:VAL:HG22	2.04	0.56
1:B:135:LEU:HD21	1:B:385:THR:HG21	1.88	0.56
1:B:380:SER:N	1:B:467:VAL:HG12	2.21	0.56
1:D:469:PRO:HG2	1:D:472:VAL:HG21	1.87	0.56
1:E:152:LYS:HG2	1:E:465:GLY:O	2.06	0.56
1:E:251:VAL:HG13	1:E:276:LEU:CD1	2.34	0.56
1:E:387:VAL:HG21	1:E:437:VAL:HG12	1.87	0.56
1:F:136:LYS:CG	1:F:377:ARG:HH12	2.18	0.56
1:G:42:LYS:CE	1:G:426:ALA:HB2	2.36	0.56
1:H:420:ARG:NH1	1:H:430:ALA:HB3	2.20	0.56
1:I:420:ARG:HH11	1:I:420:ARG:HG3	1.68	0.56
1:J:134:LEU:HD11	1:J:393:LEU:CD2	2.35	0.56
1:K:77:MET:HE2	1:K:487:LEU:CG	2.35	0.56
1:K:156:THR:HB	1:K:467:VAL:O	2.06	0.56
1:L:368:VAL:HB	1:L:469:PRO:CG	2.35	0.56
1:M:223:MET:HE2	1:M:281:ILE:O	2.05	0.56
1:N:30:ILE:CG2	1:N:31:ILE:N	2.61	0.56
1:N:42:LYS:CB	1:N:425:ASN:HB2	2.35	0.56
1:P:368:VAL:CG2	1:P:469:PRO:CG	2.83	0.56
1:P:387:VAL:HG21	1:P:437:VAL:HG12	1.87	0.56
1:B:406:LEU:HD11	1:K:431:ILE:CD1	2.35	0.56
1:C:134:LEU:HD13	1:C:392:LYS:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:136:LYS:C	1:C:139:ALA:HB3	2.29	0.56
1:C:166:ALA:CB	1:C:203:ILE:CG2	2.83	0.56
1:C:254:ILE:CG1	1:C:310:LEU:HD23	2.32	0.56
1:C:492:ASP:OD2	1:D:46:LYS:HB3	2.04	0.56
1:D:42:LYS:HD2	1:D:426:ALA:N	2.21	0.56
1:D:218:ARG:HG2	1:D:218:ARG:NH1	2.14	0.56
1:D:391:MET:HE2	1:D:438:ARG:HD2	1.88	0.56
1:E:102:GLU:C	1:E:104:LEU:N	2.63	0.56
1:E:197:LYS:CA	1:E:355:ILE:HG21	2.35	0.56
1:F:111:LEU:HD11	1:F:488:LEU:HD11	1.87	0.56
1:G:92:GLY:HA2	1:G:95:THR:HB	1.87	0.56
1:G:254:ILE:HG22	1:G:259:ALA:HB3	1.86	0.56
1:H:343:VAL:HG13	1:H:343:VAL:O	2.05	0.56
1:I:153:ILE:HG23	1:I:469:PRO:CD	2.35	0.56
1:I:223:MET:CE	1:I:283:ALA:CB	2.79	0.56
1:K:397:ALA:C	1:K:399:GLY:N	2.60	0.56
1:M:21:GLN:O	1:M:25:ILE:HD12	2.05	0.56
1:N:135:LEU:CD2	1:N:385:THR:CG2	2.84	0.56
1:N:152:LYS:HG2	1:N:465:GLY:HA2	1.86	0.56
1:N:389:LEU:O	1:N:393:LEU:HD23	2.05	0.56
1:O:193:ILE:HD12	1:O:366:VAL:CG1	2.33	0.56
1:P:21:GLN:O	1:P:25:ILE:HG12	2.06	0.56
1:P:31:ILE:HG22	1:P:65:LEU:HG	1.87	0.56
1:B:96:ALA:HB1	1:B:480:ALA:CB	2.31	0.56
1:D:239:ILE:HG22	1:D:268:ILE:HG12	1.87	0.56
1:F:48:LEU:O	1:F:56:VAL:HG23	2.05	0.56
1:G:174:ILE:HG22	1:G:362:VAL:CB	2.25	0.56
1:H:158:ILE:CG1	1:H:361:ALA:HB1	2.35	0.56
1:H:178:VAL:CG1	1:H:366:VAL:HG22	2.34	0.56
1:H:212:VAL:HG21	1:H:294:LYS:O	2.06	0.56
1:J:152:LYS:HG2	1:J:465:GLY:O	2.06	0.56
1:J:377:ARG:HB3	1:J:470:LEU:HD12	1.88	0.56
1:K:110:LEU:C	1:K:112:ASP:N	2.63	0.56
1:L:14:ARG:HD2	1:L:494:ILE:HD13	1.86	0.56
1:L:254:ILE:HG21	1:L:262:LEU:HD13	1.87	0.56
1:N:42:LYS:NZ	1:O:118:THR:CG2	2.68	0.56
1:O:46:LYS:HG2	1:P:492:ASP:CG	2.31	0.56
1:O:98:VAL:HG12	1:O:99:VAL:HG13	1.87	0.56
1:O:227:VAL:HG11	1:O:260:ASN:CG	2.31	0.56
1:P:102:GLU:OE2	1:P:417:VAL:HG11	2.06	0.56
1:A:72:HIS:CD2	1:A:73:PRO:HD3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:193:ILE:HG23	1:B:343:VAL:HG23	1.88	0.56
1:C:130:LYS:HD2	1:C:396:TYR:CE1	2.36	0.56
1:D:127:ALA:HB2	1:D:408:VAL:CG1	2.34	0.56
1:E:77:MET:HA	1:E:80:GLU:OE1	2.06	0.56
1:E:208:LEU:HD22	1:E:343:VAL:CG2	2.36	0.56
1:E:406:LEU:CD1	1:N:431:ILE:CD1	2.83	0.56
1:F:125:GLN:O	1:F:129:GLN:HG3	2.05	0.56
1:I:195:ILE:CB	1:I:359:ALA:HB1	2.34	0.56
1:I:418:ILE:HB	1:I:419:PRO:HD3	1.88	0.56
1:J:155:MET:CE	1:J:465:GLY:HA3	2.36	0.56
1:L:48:LEU:N	1:L:56:VAL:HG22	2.20	0.56
1:L:158:ILE:HD13	1:L:170:LEU:HG	1.88	0.56
1:L:379:VAL:CG2	1:L:380:SER:H	2.16	0.56
1:N:389:LEU:HD13	1:N:415:LEU:CD1	2.36	0.56
1:O:211:GLY:C	1:O:298:ALA:CB	2.78	0.56
1:O:281:ILE:O	1:O:281:ILE:CG2	2.51	0.56
1:O:298:ALA:O	1:O:337:CYS:HB3	2.06	0.56
1:O:418:ILE:CG2	1:O:419:PRO:HD3	2.32	0.56
1:A:77:MET:HA	1:A:80:GLU:CD	2.30	0.56
1:A:115:VAL:CG2	1:A:403:ARG:NE	2.68	0.56
1:A:178:VAL:CG2	1:A:366:VAL:HG13	2.35	0.56
1:C:116:HIS:CG	1:C:117:PRO:CD	2.74	0.56
1:C:223:MET:CE	1:C:283:ALA:HB3	2.36	0.56
1:C:380:SER:CB	1:C:384:SER:HB2	2.27	0.56
1:D:149:ILE:O	1:D:153:ILE:HG13	2.06	0.56
1:E:233:ALA:HA	1:E:315:LEU:HD13	1.87	0.56
1:K:155:MET:HE3	1:K:465:GLY:HA3	1.88	0.56
1:K:235:LEU:HD21	1:K:310:LEU:CA	2.36	0.56
1:M:14:ARG:HD2	1:M:494:ILE:CD1	2.36	0.56
1:N:156:THR:HG21	1:N:467:VAL:C	2.31	0.56
1:N:158:ILE:CD1	1:N:170:LEU:HB2	2.34	0.56
1:O:85:GLN:HE22	1:O:479:SER:HB2	1.71	0.56
1:O:377:ARG:CZ	1:O:470:LEU:CD1	2.81	0.56
1:P:42:LYS:HE2	1:P:426:ALA:CB	2.35	0.56
1:A:31:ILE:HG23	1:A:34:THR:OG1	2.06	0.56
1:A:96:ALA:CB	1:A:480:ALA:HB2	2.36	0.56
1:A:134:LEU:HD12	1:A:393:LEU:CG	2.36	0.56
1:A:212:VAL:HG21	1:A:294:LYS:HB2	1.87	0.56
1:A:232:ILE:HG13	1:A:261:VAL:CG1	2.34	0.56
1:A:232:ILE:HD11	1:A:318:ALA:HB3	1.88	0.56
1:B:276:LEU:HD23	1:B:281:ILE:HG21	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:276:LEU:O	1:B:281:ILE:HB	2.06	0.56
1:D:119:ILE:HD12	1:D:403:ARG:CB	2.36	0.56
1:D:431:ILE:HD11	1:M:403:ARG:HA	1.88	0.56
1:E:211:GLY:C	1:E:298:ALA:HB1	2.31	0.56
1:E:212:VAL:HB	1:E:298:ALA:HB3	1.87	0.56
1:F:116:HIS:CE1	1:F:117:PRO:HG2	2.41	0.56
1:F:219:VAL:HG11	1:F:268:ILE:HD12	1.88	0.56
1:G:254:ILE:HG21	1:G:262:LEU:CD1	2.36	0.56
1:H:291:ASP:O	1:H:295:LEU:HD12	2.06	0.56
1:I:36:ARG:CG	1:I:37:SER:H	2.17	0.56
1:I:65:LEU:HD22	1:I:65:LEU:N	2.21	0.56
1:I:140:CYS:HB3	1:I:446:ASN:HB2	1.87	0.56
1:I:393:LEU:HA	1:I:396:TYR:HB3	1.88	0.56
1:J:46:LYS:HB3	1:K:492:ASP:OD2	2.06	0.56
1:J:153:ILE:CG1	1:J:378:ILE:HG22	2.36	0.56
1:J:254:ILE:HG22	1:J:259:ALA:HB3	1.86	0.56
1:K:134:LEU:CD1	1:K:393:LEU:HD21	2.35	0.56
1:K:134:LEU:HD12	1:K:393:LEU:CG	2.35	0.56
1:K:473:LYS:O	1:K:477:ILE:HG13	2.06	0.56
1:L:63:THR:HG23	1:L:63:THR:O	2.05	0.56
1:L:448:CYS:O	1:L:449:ALA:HB2	2.06	0.56
1:M:105:ARG:HD2	1:M:105:ARG:C	2.30	0.56
1:M:469:PRO:O	1:M:472:VAL:HG13	2.06	0.56
1:O:346:LEU:HD23	1:O:347:ILE:N	2.19	0.56
1:P:64:ILE:HG23	1:P:65:LEU:HD22	1.87	0.56
1:P:124:TYR:N	1:P:124:TYR:HD1	1.99	0.56
1:A:130:LYS:CG	1:A:393:LEU:CD2	2.81	0.56
1:B:29:ARG:O	1:B:33:GLU:HG3	2.06	0.56
1:B:178:VAL:CG2	1:B:366:VAL:CG2	2.80	0.56
1:C:158:ILE:HB	1:C:361:ALA:HB1	1.87	0.56
1:F:234:LEU:HB3	1:F:292:MET:CE	2.36	0.56
1:G:39:LEU:HB3	1:G:94:THR:OG1	2.06	0.56
1:G:197:LYS:HB3	1:G:355:ILE:HG21	1.87	0.56
1:G:232:ILE:CD1	1:G:299:THR:CG2	2.84	0.56
1:G:235:LEU:N	1:G:292:MET:HE1	2.20	0.56
1:G:268:ILE:HB	1:G:273:GLN:HE21	1.70	0.56
1:M:39:LEU:HB3	1:M:94:THR:CG2	2.36	0.56
1:M:378:ILE:O	1:M:378:ILE:CG1	2.53	0.56
1:N:96:ALA:CA	1:N:480:ALA:HB2	2.36	0.56
1:N:140:CYS:HB3	1:N:446:ASN:OD1	2.06	0.56
1:O:77:MET:HA	1:O:80:GLU:CD	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:197:LYS:CB	1:O:355:ILE:CG2	2.82	0.56
1:O:235:LEU:O	1:O:264:CYS:HA	2.06	0.56
1:P:26:LEU:HD22	1:P:30:ILE:HD11	1.88	0.56
1:P:140:CYS:HB3	1:P:446:ASN:HB2	1.87	0.56
1:P:233:ALA:HA	1:P:315:LEU:HD11	1.88	0.56
1:P:299:THR:CG2	1:P:318:ALA:HB2	2.36	0.56
1:P:377:ARG:HG2	1:P:470:LEU:CG	2.35	0.56
1:D:62:VAL:CG1	1:D:63:THR:N	2.60	0.55
1:D:212:VAL:HB	1:D:298:ALA:CB	2.35	0.55
1:F:14:ARG:HD2	1:F:494:ILE:HG12	1.88	0.55
1:I:389:LEU:HD12	1:I:415:LEU:HD13	1.88	0.55
1:K:197:LYS:CB	1:K:355:ILE:HG22	2.36	0.55
1:L:33:GLU:O	1:L:36:ARG:HG2	2.06	0.55
1:M:200:GLY:O	1:M:348:ARG:HB3	2.06	0.55
1:M:254:ILE:HG22	1:M:281:ILE:CD1	2.36	0.55
1:M:369:VAL:O	1:M:369:VAL:CG1	2.54	0.55
1:N:130:LYS:HG2	1:N:393:LEU:CD1	2.36	0.55
1:P:138:ILE:HD12	1:P:385:THR:OG1	2.06	0.55
1:P:268:ILE:HD12	1:P:273:GLN:HG2	1.87	0.55
1:A:134:LEU:HB3	1:A:392:LYS:CE	2.36	0.55
1:A:166:ALA:CB	1:A:170:LEU:HD22	2.36	0.55
1:A:403:ARG:HD3	1:J:431:ILE:HD13	1.88	0.55
1:B:192:LEU:HD13	1:B:192:LEU:N	2.21	0.55
1:B:195:ILE:CB	1:B:359:ALA:HB1	2.27	0.55
1:B:377:ARG:NH1	1:B:470:LEU:CD1	2.70	0.55
1:C:74:ALA:HA	1:C:77:MET:SD	2.47	0.55
1:C:100:ALA:HB1	1:C:484:THR:HG23	1.83	0.55
1:D:212:VAL:HG23	1:D:298:ALA:HB2	1.89	0.55
1:E:130:LYS:HZ2	1:E:393:LEU:HD23	1.71	0.55
1:E:134:LEU:HD22	1:E:392:LYS:HZ2	1.71	0.55
1:E:218:ARG:HB2	1:E:323:GLU:OE2	2.06	0.55
1:F:262:LEU:HD11	1:F:310:LEU:HD23	1.88	0.55
1:G:267:GLY:C	1:G:268:ILE:HG12	2.31	0.55
1:G:347:ILE:CG2	1:G:358:VAL:HB	2.35	0.55
1:H:177:ALA:O	1:H:181:VAL:HG13	2.06	0.55
1:I:64:ILE:HG22	1:I:65:LEU:CD2	2.36	0.55
1:I:153:ILE:HD11	1:I:378:ILE:HG22	1.83	0.55
1:I:369:VAL:O	1:I:369:VAL:CG1	2.54	0.55
1:J:42:LYS:CD	1:J:426:ALA:HA	2.36	0.55
1:J:135:LEU:HD23	1:J:389:LEU:HD21	1.88	0.55
1:K:31:ILE:HG21	1:K:65:LEU:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:211:GLY:C	1:K:298:ALA:CB	2.79	0.55
1:N:153:ILE:CG2	1:N:469:PRO:HD3	2.36	0.55
1:N:251:VAL:HG13	1:N:276:LEU:CG	2.35	0.55
1:N:345:MET:CE	1:N:362:VAL:HG11	2.36	0.55
1:O:234:LEU:HD22	1:O:301:ALA:CB	2.36	0.55
1:A:77:MET:HB3	1:A:80:GLU:OE1	2.07	0.55
1:A:251:VAL:CG1	1:A:276:LEU:CD1	2.81	0.55
1:B:15:TYR:O	1:B:20:ALA:HB2	2.05	0.55
1:B:431:ILE:O	1:B:431:ILE:CG1	2.54	0.55
1:C:435:VAL:HG11	1:L:401:SER:OG	2.06	0.55
1:D:377:ARG:HB3	1:D:470:LEU:CG	2.36	0.55
1:E:42:LYS:CE	1:E:426:ALA:CB	2.62	0.55
1:E:48:LEU:C	1:E:49:VAL:HG23	2.30	0.55
1:F:233:ALA:N	1:F:315:LEU:HD22	2.21	0.55
1:G:111:LEU:CD2	1:G:117:PRO:HB3	2.37	0.55
1:G:132:GLN:CD	1:G:478:GLN:NE2	2.64	0.55
1:J:134:LEU:HD12	1:J:393:LEU:CD2	2.32	0.55
1:J:469:PRO:HB2	1:J:472:VAL:CG2	2.36	0.55
1:K:152:LYS:HZ3	1:K:462:CYS:CA	2.19	0.55
1:L:232:ILE:HG13	1:L:261:VAL:CG1	2.36	0.55
1:M:134:LEU:CD1	1:M:393:LEU:CG	2.84	0.55
1:M:173:ILE:HD11	1:M:206:THR:CG2	2.34	0.55
1:N:43:GLY:O	1:N:44:MET:HE2	2.05	0.55
1:O:120:VAL:O	1:O:124:TYR:CD1	2.59	0.55
1:P:93:THR:O	1:P:97:VAL:HG23	2.06	0.55
1:P:96:ALA:O	1:P:480:ALA:HB1	2.06	0.55
1:P:115:VAL:HB	1:P:116:HIS:HA	1.86	0.55
1:P:134:LEU:CD1	1:P:393:LEU:HG	2.36	0.55
1:A:218:ARG:HG3	1:A:323:GLU:OE2	2.06	0.55
1:B:209:ILE:HD11	1:B:213:LEU:HB2	1.87	0.55
1:D:389:LEU:HD13	1:D:415:LEU:CD2	2.37	0.55
1:E:170:LEU:HD12	1:E:358:VAL:CG1	2.37	0.55
1:G:42:LYS:HZ2	1:G:426:ALA:HB2	1.70	0.55
1:H:34:THR:HB	1:H:35:VAL:HG22	1.87	0.55
1:H:99:VAL:CG1	1:H:418:ILE:CD1	2.85	0.55
1:H:138:ILE:HD13	1:H:385:THR:OG1	2.05	0.55
1:I:299:THR:CG2	1:I:334:VAL:CG1	2.84	0.55
1:J:105:ARG:HH11	1:J:106:LYS:HG2	1.71	0.55
1:J:130:LYS:NZ	1:J:396:TYR:HB2	2.20	0.55
1:J:227:VAL:HG11	1:J:260:ASN:HD21	1.70	0.55
1:M:24:ASN:N	1:M:24:ASN:ND2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:218:ARG:HH11	1:M:282:VAL:HB	1.71	0.55
1:M:393:LEU:O	1:M:396:TYR:HB3	2.07	0.55
1:M:403:ARG:HA	1:M:406:LEU:HD23	1.88	0.55
1:N:138:ILE:HD12	1:N:379:VAL:HG21	1.89	0.55
1:N:156:THR:CG2	1:N:468:GLU:CA	2.80	0.55
1:O:219:VAL:HG12	1:O:283:ALA:HB3	1.88	0.55
1:A:135:LEU:HG	1:A:138:ILE:HD12	1.88	0.55
1:B:170:LEU:CD2	1:B:358:VAL:HG11	2.37	0.55
1:B:232:ILE:HD11	1:B:318:ALA:HB3	1.88	0.55
1:D:474:THR:O	1:D:478:GLN:HG3	2.06	0.55
1:E:384:SER:O	1:E:441:HIS:CE1	2.60	0.55
1:G:197:LYS:HD2	1:G:356:GLU:CG	2.36	0.55
1:G:232:ILE:HD13	1:G:299:THR:HG22	1.88	0.55
1:I:197:LYS:HB3	1:I:355:ILE:HG22	1.87	0.55
1:K:233:ALA:HA	1:K:315:LEU:CD2	2.35	0.55
1:K:400:ILE:HD11	1:K:408:VAL:HG11	1.87	0.55
1:L:130:LYS:CG	1:L:393:LEU:CD2	2.83	0.55
1:L:234:LEU:HD22	1:L:301:ALA:HB1	1.87	0.55
1:M:174:ILE:CD1	1:M:365:ALA:HB1	2.35	0.55
1:N:140:CYS:HB2	1:N:447:LYS:HG2	1.87	0.55
1:N:170:LEU:CD2	1:N:358:VAL:CG2	2.83	0.55
1:N:371:CYS:HB3	1:N:471:ARG:HH11	1.71	0.55
1:A:153:ILE:CG2	1:A:468:GLU:C	2.80	0.55
1:A:206:THR:CG2	1:A:347:ILE:HG23	2.36	0.55
1:A:239:ILE:HG23	1:A:268:ILE:HG23	1.79	0.55
1:B:233:ALA:HB1	1:B:315:LEU:HD21	1.87	0.55
1:B:254:ILE:CD1	1:B:276:LEU:HD21	2.37	0.55
1:B:368:VAL:CB	1:B:469:PRO:HG2	2.36	0.55
1:C:380:SER:CB	1:C:384:SER:CB	2.84	0.55
1:C:383:GLY:CA	1:C:386:GLU:HG2	2.32	0.55
1:C:418:ILE:HB	1:C:419:PRO:HD3	1.88	0.55
1:D:116:HIS:CG	1:D:117:PRO:HD2	2.41	0.55
1:E:31:ILE:CG2	1:E:65:LEU:CD2	2.85	0.55
1:G:42:LYS:HZ2	1:G:426:ALA:CB	2.20	0.55
1:G:254:ILE:HG12	1:G:310:LEU:HD23	1.89	0.55
1:G:276:LEU:HB2	1:G:281:ILE:CG2	2.36	0.55
1:H:116:HIS:CE1	1:H:117:PRO:HG2	2.41	0.55
1:H:123:GLY:HA3	1:H:407:ALA:HB1	1.88	0.55
1:H:156:THR:CG2	1:H:467:VAL:C	2.79	0.55
1:H:174:ILE:CG2	1:H:362:VAL:CG2	2.69	0.55
1:H:178:VAL:HG12	1:H:366:VAL:HG22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:233:ALA:CB	1:H:315:LEU:CD2	2.84	0.55
1:H:234:LEU:N	1:H:315:LEU:HD11	2.15	0.55
1:H:469:PRO:O	1:H:472:VAL:HB	2.06	0.55
1:I:116:HIS:CD2	1:I:117:PRO:HD2	2.42	0.55
1:K:227:VAL:HG11	1:K:260:ASN:HD21	1.70	0.55
1:M:115:VAL:HG11	1:M:403:ARG:CZ	2.36	0.55
1:M:178:VAL:HG11	1:M:366:VAL:HG13	1.89	0.55
1:O:132:GLN:NE2	1:O:478:GLN:HE21	2.03	0.55
1:O:206:THR:HB	1:O:347:ILE:HA	1.87	0.55
1:O:227:VAL:HG11	1:O:260:ASN:OD1	2.07	0.55
1:P:469:PRO:HB2	1:P:472:VAL:CG2	2.36	0.55
1:A:299:THR:CG2	1:A:334:VAL:HG11	2.36	0.55
1:B:16:MET:O	1:B:20:ALA:HB3	2.07	0.55
1:C:235:LEU:H	1:C:292:MET:CE	2.19	0.55
1:C:391:MET:HE1	1:C:438:ARG:CA	2.37	0.55
1:D:254:ILE:HG12	1:D:310:LEU:HD13	1.86	0.55
1:D:369:VAL:O	1:D:373:ILE:HG12	2.06	0.55
1:D:406:LEU:HD11	1:M:431:ILE:HD12	1.88	0.55
1:E:102:GLU:HG2	1:E:417:VAL:HG11	1.88	0.55
1:E:102:GLU:OE2	1:E:417:VAL:HG11	2.05	0.55
1:E:177:ALA:C	1:E:193:ILE:CD1	2.80	0.55
1:K:416:GLU:CD	1:K:434:LEU:HD12	2.32	0.55
1:L:211:GLY:C	1:L:298:ALA:HB2	2.30	0.55
1:M:351:THR:O	1:M:355:ILE:HG13	2.06	0.55
1:N:96:ALA:HA	1:N:480:ALA:HB2	1.87	0.55
1:P:117:PRO:HA	1:P:120:VAL:HG12	1.89	0.55
1:P:268:ILE:HG13	1:P:285:ARG:HB3	1.89	0.55
1:P:420:ARG:O	1:P:423:ALA:HB3	2.07	0.55
1:A:119:ILE:HD13	1:A:404:GLU:OE2	2.06	0.55
1:B:42:LYS:HG3	1:B:426:ALA:N	2.22	0.55
1:C:117:PRO:O	1:C:121:VAL:HG22	2.06	0.55
1:D:264:CYS:SG	1:D:268:ILE:HD11	2.47	0.55
1:D:391:MET:HE1	1:D:438:ARG:CA	2.37	0.55
1:F:29:ARG:O	1:F:32:ALA:HB3	2.07	0.55
1:F:66:ARG:CB	1:F:79:ILE:HD11	2.35	0.55
1:F:211:GLY:C	1:F:298:ALA:CB	2.80	0.55
1:H:35:VAL:CG1	1:H:46:LYS:HZ2	2.19	0.55
1:H:85:GLN:HE22	1:H:475:GLN:C	2.15	0.55
1:H:123:GLY:HA3	1:H:407:ALA:CB	2.37	0.55
1:J:35:VAL:O	1:J:35:VAL:CG2	2.54	0.55
1:J:117:PRO:O	1:J:121:VAL:HG22	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:138:ILE:CD1	1:K:385:THR:HG21	2.37	0.55
1:L:263:PHE:CD2	1:L:295:LEU:HD22	2.41	0.55
1:L:346:LEU:HD23	1:L:347:ILE:H	1.71	0.55
1:O:42:LYS:CE	1:P:118:THR:HG21	2.26	0.55
1:P:60:ASP:O	1:P:64:ILE:HG13	2.07	0.55
1:A:368:VAL:HG21	1:A:469:PRO:HG3	1.89	0.55
1:B:33:GLU:O	1:B:36:ARG:HG2	2.07	0.55
1:C:212:VAL:HG21	1:C:294:LYS:HB3	1.89	0.55
1:C:391:MET:HE1	1:C:438:ARG:HB3	1.88	0.55
1:E:119:ILE:HG21	1:E:403:ARG:CB	2.37	0.55
1:E:130:LYS:NZ	1:E:393:LEU:HD23	2.21	0.55
1:E:235:LEU:CD1	1:E:310:LEU:CB	2.85	0.55
1:E:299:THR:HG21	1:E:334:VAL:HG11	1.87	0.55
1:F:99:VAL:CG1	1:F:418:ILE:HD11	2.36	0.55
1:H:82:ALA:HB2	1:H:97:VAL:HG11	1.88	0.55
1:H:130:LYS:HD3	1:H:396:TYR:CG	2.42	0.55
1:J:384:SER:HB3	1:J:441:HIS:HE1	1.71	0.55
1:K:31:ILE:HG21	1:K:65:LEU:HD12	1.89	0.55
1:L:48:LEU:CA	1:L:56:VAL:HG22	2.36	0.55
1:L:351:THR:HG23	1:L:352:GLU:N	2.22	0.55
1:M:281:ILE:O	1:M:281:ILE:HG22	2.05	0.55
1:O:166:ALA:CB	1:O:203:ILE:CG2	2.85	0.55
1:P:139:ALA:CB	1:P:377:ARG:CG	2.83	0.55
1:P:155:MET:HE3	1:P:465:GLY:O	2.07	0.55
1:P:380:SER:HB3	1:P:384:SER:HB2	1.89	0.55
1:C:150:LEU:CD2	1:C:175:VAL:HG13	2.37	0.55
1:C:494:ILE:HD12	1:D:48:LEU:CD1	2.35	0.55
1:E:77:MET:HB2	1:E:487:LEU:HD21	1.88	0.55
1:E:170:LEU:CD1	1:E:358:VAL:CG1	2.85	0.55
1:E:232:ILE:O	1:E:315:LEU:HB2	2.07	0.55
1:E:405:GLN:HE22	1:N:438:ARG:NH2	2.05	0.55
1:F:212:VAL:N	1:F:298:ALA:HB1	2.22	0.55
1:F:469:PRO:CD	1:F:472:VAL:HG21	2.28	0.55
1:G:389:LEU:O	1:G:393:LEU:HD12	2.07	0.55
1:H:84:THR:O	1:H:84:THR:CG2	2.54	0.55
1:I:42:LYS:CE	1:I:426:ALA:CB	2.75	0.55
1:I:416:GLU:O	1:I:420:ARG:HB2	2.07	0.55
1:J:333:PHE:O	1:J:334:VAL:HG22	2.07	0.55
1:K:223:MET:HE1	1:K:283:ALA:HB3	1.89	0.55
1:L:117:PRO:O	1:L:120:VAL:HG12	2.07	0.55
1:L:138:ILE:HD12	1:L:385:THR:OG1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:276:LEU:HB3	1:N:281:ILE:HB	1.89	0.55
1:N:299:THR:HG22	1:N:318:ALA:HB2	1.89	0.55
1:O:47:MET:HE2	1:P:493:VAL:CG2	2.36	0.55
1:A:25:ILE:HD13	1:A:108:GLU:OE2	2.07	0.54
1:A:197:LYS:HB3	1:A:355:ILE:CG2	2.37	0.54
1:A:239:ILE:HD13	1:A:251:VAL:HG22	1.86	0.54
1:A:484:THR:HG22	1:A:487:LEU:HD12	1.88	0.54
1:C:235:LEU:N	1:C:292:MET:CE	2.70	0.54
1:E:171:ALA:HA	1:E:174:ILE:HD11	1.87	0.54
1:E:459:GLU:OE1	1:E:459:GLU:HA	2.07	0.54
1:F:384:SER:HB3	1:F:441:HIS:CE1	2.42	0.54
1:G:254:ILE:HD13	1:G:262:LEU:CD1	2.32	0.54
1:H:105:ARG:NH1	1:H:106:LYS:CG	2.70	0.54
1:H:193:ILE:HD12	1:H:366:VAL:CG2	2.37	0.54
1:H:239:ILE:HG21	1:H:268:ILE:HG23	1.88	0.54
1:I:14:ARG:NH2	1:P:34:THR:HB	2.21	0.54
1:I:368:VAL:CG1	1:I:469:PRO:HG3	2.37	0.54
1:J:105:ARG:HH11	1:J:106:LYS:CG	2.19	0.54
1:K:38:THR:HG23	1:K:46:LYS:HE2	1.90	0.54
1:K:251:VAL:HG13	1:K:276:LEU:HD22	1.88	0.54
1:L:96:ALA:O	1:L:480:ALA:HB1	2.07	0.54
1:M:150:LEU:CD2	1:M:175:VAL:CG1	2.73	0.54
1:O:152:LYS:CD	1:O:465:GLY:HA3	2.36	0.54
1:P:37:SER:O	1:P:43:GLY:HA2	2.06	0.54
1:B:81:VAL:CG1	1:B:483:SER:CB	2.85	0.54
1:B:116:HIS:CG	1:B:117:PRO:HD2	2.42	0.54
1:D:34:THR:CG2	1:D:35:VAL:N	2.68	0.54
1:D:232:ILE:HG13	1:D:261:VAL:CG1	2.37	0.54
1:F:195:ILE:HD12	1:F:359:ALA:HB1	1.89	0.54
1:H:110:LEU:C	1:H:112:ASP:N	2.64	0.54
1:H:174:ILE:HG22	1:H:362:VAL:HG21	1.83	0.54
1:I:36:ARG:HG3	1:I:37:SER:OG	2.07	0.54
1:I:115:VAL:HG22	1:I:403:ARG:CD	2.36	0.54
1:K:223:MET:HB3	1:K:282:VAL:HG12	1.89	0.54
1:K:371:CYS:HB3	1:K:471:ARG:NH1	2.22	0.54
1:L:291:ASP:O	1:L:295:LEU:HD12	2.06	0.54
1:M:57:VAL:O	1:M:58:THR:HG23	2.07	0.54
1:M:102:GLU:OE1	1:M:102:GLU:HA	2.07	0.54
1:M:233:ALA:C	1:M:234:LEU:HD23	2.33	0.54
1:M:391:MET:CE	1:M:438:ARG:HA	2.37	0.54
1:O:138:ILE:CD1	1:O:385:THR:HG23	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:233:ALA:HB2	1:D:315:LEU:CD1	2.34	0.54
1:E:227:VAL:HG11	1:E:260:ASN:OD1	2.06	0.54
1:E:403:ARG:HG2	1:N:431:ILE:CD1	2.38	0.54
1:F:42:LYS:CB	1:F:425:ASN:HB3	2.25	0.54
1:F:254:ILE:CG2	1:F:262:LEU:HD12	2.36	0.54
1:G:99:VAL:O	1:G:103:LEU:HB2	2.06	0.54
1:G:397:ALA:HB2	1:G:408:VAL:CG2	2.30	0.54
1:H:96:ALA:CB	1:H:480:ALA:HB2	2.34	0.54
1:H:100:ALA:HB1	1:H:484:THR:OG1	2.08	0.54
1:H:105:ARG:HH11	1:H:106:LYS:CG	2.20	0.54
1:H:420:ARG:NH1	1:H:420:ARG:CG	2.50	0.54
1:I:48:LEU:CB	1:I:56:VAL:HG21	2.15	0.54
1:I:347:ILE:HB	1:I:355:ILE:HG23	1.89	0.54
1:I:384:SER:CB	1:I:441:HIS:CE1	2.76	0.54
1:J:31:ILE:HG22	1:J:65:LEU:CD2	2.37	0.54
1:K:233:ALA:HB2	1:K:315:LEU:HD23	1.88	0.54
1:K:379:VAL:C	1:K:467:VAL:CG1	2.80	0.54
1:L:105:ARG:NE	1:L:106:LYS:HG2	2.20	0.54
1:L:153:ILE:HD12	1:L:372:THR:CG2	2.37	0.54
1:L:276:LEU:HB2	1:L:281:ILE:HB	1.89	0.54
1:M:233:ALA:CB	1:M:315:LEU:HD13	2.37	0.54
1:M:235:LEU:CD2	1:M:310:LEU:HB2	2.16	0.54
1:M:420:ARG:NH2	1:M:430:ALA:CB	2.71	0.54
1:N:96:ALA:CB	1:N:480:ALA:HB2	2.37	0.54
1:N:115:VAL:HG23	1:N:403:ARG:CZ	2.37	0.54
1:N:223:MET:HG2	1:N:281:ILE:O	2.07	0.54
1:O:124:TYR:CE1	1:O:407:ALA:C	2.86	0.54
1:O:153:ILE:HG21	1:O:469:PRO:HB3	1.88	0.54
1:O:371:CYS:SG	1:O:471:ARG:HB3	2.48	0.54
1:P:64:ILE:HG23	1:P:65:LEU:CD1	2.36	0.54
1:P:119:ILE:HD13	1:P:404:GLU:OE2	2.08	0.54
1:P:138:ILE:HG13	1:P:139:ALA:N	2.23	0.54
1:A:192:LEU:CB	1:A:342:ALA:HB2	2.38	0.54
1:B:397:ALA:HB2	1:B:408:VAL:HG23	1.89	0.54
1:C:78:LEU:CD1	1:C:487:LEU:CD2	2.84	0.54
1:C:135:LEU:CD2	1:C:385:THR:HG21	2.38	0.54
1:C:403:ARG:CA	1:C:406:LEU:CD2	2.82	0.54
1:D:254:ILE:CG2	1:D:262:LEU:HD12	2.37	0.54
1:D:345:MET:SD	1:D:362:VAL:HG21	2.48	0.54
1:E:34:THR:CG2	1:E:35:VAL:HG12	2.28	0.54
1:E:130:LYS:HD3	1:E:130:LYS:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:192:LEU:HG	1:E:342:ALA:CB	2.31	0.54
1:E:343:VAL:HG13	1:E:343:VAL:O	2.07	0.54
1:F:22:ARG:O	1:F:26:LEU:HB2	2.07	0.54
1:F:212:VAL:CB	1:F:298:ALA:HB3	2.37	0.54
1:F:389:LEU:HD12	1:F:415:LEU:HD13	1.90	0.54
1:G:42:LYS:HZ2	1:G:426:ALA:N	2.04	0.54
1:H:35:VAL:HG13	1:H:46:LYS:HZ3	1.71	0.54
1:H:384:SER:CB	1:H:441:HIS:HE1	2.20	0.54
1:I:45:ASP:N	1:I:45:ASP:OD1	2.41	0.54
1:I:57:VAL:O	1:I:58:THR:HG23	2.08	0.54
1:I:232:ILE:HD12	1:I:232:ILE:N	2.23	0.54
1:J:207:GLU:HG3	1:J:346:LEU:HB3	1.89	0.54
1:K:119:ILE:HD11	1:K:403:ARG:NH1	2.22	0.54
1:K:213:LEU:HB2	1:K:344:THR:HG21	1.88	0.54
1:M:310:LEU:CD2	1:M:315:LEU:HD11	2.38	0.54
1:M:400:ILE:HD12	1:M:404:GLU:HB3	1.89	0.54
1:N:197:LYS:CA	1:N:355:ILE:HG21	2.37	0.54
1:N:287:VAL:HG12	1:N:291:ASP:HB2	1.90	0.54
1:N:377:ARG:HB3	1:N:470:LEU:CG	2.36	0.54
1:N:377:ARG:HH11	1:N:470:LEU:CD1	2.20	0.54
1:N:486:MET:SD	1:N:487:LEU:HD23	2.47	0.54
1:O:99:VAL:O	1:O:103:LEU:HB2	2.07	0.54
1:P:135:LEU:CD2	1:P:389:LEU:HD21	2.37	0.54
1:A:235:LEU:CG	1:A:310:LEU:HD22	2.34	0.54
1:A:406:LEU:HD12	1:A:406:LEU:N	2.22	0.54
1:B:418:ILE:HG23	1:B:422:LEU:HD12	1.88	0.54
1:C:115:VAL:HG21	1:C:119:ILE:HG21	1.89	0.54
1:C:384:SER:CB	1:C:441:HIS:CE1	2.88	0.54
1:D:251:VAL:HG13	1:D:276:LEU:HD22	1.88	0.54
1:E:153:ILE:HG21	1:E:469:PRO:CA	2.37	0.54
1:E:403:ARG:HB3	1:N:431:ILE:CD1	2.38	0.54
1:G:239:ILE:HD11	1:G:251:VAL:HG22	1.89	0.54
1:H:400:ILE:CD1	1:H:408:VAL:HG11	2.38	0.54
1:I:255:LYS:O	1:I:255:LYS:CG	2.55	0.54
1:J:234:LEU:N	1:J:315:LEU:CD2	2.64	0.54
1:J:397:ALA:C	1:J:399:GLY:N	2.64	0.54
1:K:138:ILE:C	1:K:138:ILE:HD12	2.32	0.54
1:K:232:ILE:HA	1:K:261:VAL:HB	1.90	0.54
1:K:234:LEU:CA	1:K:292:MET:HE1	2.37	0.54
1:K:251:VAL:HG11	1:K:276:LEU:HD22	1.88	0.54
1:L:105:ARG:CD	1:L:106:LYS:H	2.17	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:345:MET:CE	1:L:362:VAL:HG11	2.37	0.54
1:L:347:ILE:HG21	1:L:358:VAL:CG1	2.37	0.54
1:M:155:MET:HE2	1:M:466:VAL:N	2.21	0.54
1:N:42:LYS:CD	1:N:426:ALA:N	2.67	0.54
1:N:391:MET:CE	1:N:438:ARG:CA	2.85	0.54
1:N:441:HIS:CE1	1:N:449:ALA:HA	2.42	0.54
1:O:211:GLY:CA	1:O:298:ALA:HB1	2.36	0.54
1:P:100:ALA:O	1:P:104:LEU:HG	2.07	0.54
1:B:102:GLU:HG2	1:B:414:ALA:HB1	1.90	0.54
1:B:156:THR:HG22	1:B:468:GLU:HB3	1.88	0.54
1:B:402:GLY:O	1:K:431:ILE:HD11	2.08	0.54
1:D:311:SER:O	1:D:315:LEU:HG	2.08	0.54
1:D:493:VAL:O	1:D:493:VAL:HG12	2.07	0.54
1:F:105:ARG:NH2	1:F:106:LYS:HD2	2.23	0.54
1:J:345:MET:HE1	1:J:362:VAL:CB	2.37	0.54
1:J:406:LEU:HD12	1:J:406:LEU:H	1.72	0.54
1:L:123:GLY:HA2	1:L:404:GLU:HB3	1.88	0.54
1:M:299:THR:CG2	1:M:334:VAL:CG1	2.86	0.54
1:N:347:ILE:HG21	1:N:358:VAL:HB	1.88	0.54
1:P:130:LYS:HE3	1:P:134:LEU:HD21	1.89	0.54
1:B:379:VAL:C	1:B:467:VAL:HG12	2.32	0.54
1:B:391:MET:HE1	1:B:438:ARG:HB3	1.90	0.54
1:B:431:ILE:O	1:B:435:VAL:HG23	2.07	0.54
1:C:121:VAL:C	1:C:123:GLY:N	2.65	0.54
1:E:254:ILE:HG23	1:E:259:ALA:CB	2.37	0.54
1:F:193:ILE:HG13	1:F:366:VAL:HG11	1.90	0.54
1:F:212:VAL:CG2	1:F:298:ALA:CB	2.86	0.54
1:F:263:PHE:CE2	1:F:295:LEU:CD2	2.90	0.54
1:G:124:TYR:CE1	1:G:407:ALA:CB	2.90	0.54
1:G:152:LYS:CE	1:G:462:CYS:HA	2.35	0.54
1:H:232:ILE:HD11	1:H:321:VAL:HG21	1.89	0.54
1:H:459:GLU:HG2	1:H:461:MET:HE1	1.89	0.54
1:H:459:GLU:HG2	1:H:461:MET:HE2	1.88	0.54
1:J:158:ILE:HG21	1:J:170:LEU:HD12	1.89	0.54
1:J:208:LEU:CD1	1:J:343:VAL:HG11	2.38	0.54
1:K:351:THR:O	1:K:355:ILE:HG12	2.07	0.54
1:L:96:ALA:CB	1:L:480:ALA:HB2	2.38	0.54
1:L:351:THR:HG23	1:L:352:GLU:H	1.73	0.54
1:N:34:THR:HB	1:N:35:VAL:HG22	1.90	0.54
1:N:233:ALA:HA	1:N:315:LEU:CG	2.36	0.54
1:N:459:GLU:CG	1:N:461:MET:CE	2.85	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:124:TYR:OH	1:O:410:ALA:HB3	2.08	0.54
1:O:416:GLU:O	1:O:416:GLU:CG	2.53	0.54
1:P:104:LEU:CD2	1:P:488:LEU:HD12	2.36	0.54
1:P:153:ILE:HG21	1:P:469:PRO:CG	2.36	0.54
1:B:117:PRO:HA	1:B:120:VAL:CG1	2.37	0.54
1:C:115:VAL:HG23	1:C:119:ILE:HB	1.89	0.54
1:C:117:PRO:O	1:C:120:VAL:HG12	2.07	0.54
1:D:46:LYS:HD3	1:D:64:ILE:HD13	1.90	0.54
1:D:118:THR:O	1:D:118:THR:CG2	2.55	0.54
1:D:368:VAL:CB	1:D:469:PRO:CG	2.76	0.54
1:D:391:MET:CE	1:D:438:ARG:CG	2.85	0.54
1:E:96:ALA:C	1:E:480:ALA:HB1	2.33	0.54
1:E:130:LYS:HZ2	1:E:396:TYR:HB2	1.72	0.54
1:E:132:GLN:NE2	1:E:132:GLN:HA	2.22	0.54
1:E:152:LYS:NZ	1:E:462:CYS:CB	2.70	0.54
1:E:233:ALA:CA	1:E:315:LEU:CD1	2.84	0.54
1:F:233:ALA:CA	1:F:315:LEU:CD1	2.67	0.54
1:H:62:VAL:H	1:H:93:THR:HG21	1.72	0.54
1:H:63:THR:O	1:H:63:THR:CG2	2.56	0.54
1:I:357:GLU:HG3	1:I:357:GLU:O	2.07	0.54
1:J:235:LEU:CD1	1:J:262:LEU:HD11	2.37	0.54
1:L:57:VAL:O	1:L:58:THR:HG23	2.08	0.54
1:L:153:ILE:HD11	1:L:378:ILE:HG22	1.89	0.54
1:M:36:ARG:CG	1:M:37:SER:N	2.69	0.54
1:M:130:LYS:HZ1	1:M:393:LEU:HD23	1.71	0.54
1:M:235:LEU:CD2	1:M:310:LEU:HD23	2.37	0.54
1:N:459:GLU:CD	1:N:461:MET:HE3	2.32	0.54
1:P:346:LEU:HD21	1:P:348:ARG:HD3	1.89	0.54
1:A:25:ILE:CD1	1:A:108:GLU:OE2	2.56	0.54
1:A:61:GLY:HA2	1:A:64:ILE:HD12	1.90	0.54
1:A:101:GLY:O	1:A:104:LEU:HB2	2.08	0.54
1:A:124:TYR:CE1	1:A:407:ALA:CB	2.90	0.54
1:A:431:ILE:HG23	1:J:403:ARG:HD3	1.90	0.54
1:B:116:HIS:HB3	1:B:118:THR:OG1	2.08	0.54
1:B:134:LEU:HD12	1:B:393:LEU:HD21	1.89	0.54
1:C:299:THR:CG2	1:C:334:VAL:CG1	2.86	0.54
1:C:368:VAL:CB	1:C:469:PRO:HG3	2.37	0.54
1:D:26:LEU:HD23	1:D:30:ILE:HD12	1.89	0.54
1:D:296:ALA:CB	1:D:301:ALA:HB3	2.38	0.54
1:E:232:ILE:HA	1:E:261:VAL:HB	1.90	0.54
1:E:431:ILE:CD1	1:N:403:ARG:CD	2.86	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:459:GLU:CG	1:H:461:MET:CE	2.86	0.54
1:I:152:LYS:HG2	1:I:465:GLY:HA2	1.89	0.54
1:J:72:HIS:HB3	1:J:75:ALA:HB3	1.89	0.54
1:L:96:ALA:HA	1:L:480:ALA:HB1	1.86	0.54
1:L:192:LEU:CB	1:L:342:ALA:CB	2.83	0.54
1:M:251:VAL:HA	1:M:254:ILE:HD12	1.89	0.54
1:O:30:ILE:HG22	1:O:31:ILE:CD1	2.37	0.54
1:O:134:LEU:HD11	1:O:393:LEU:HD21	1.88	0.54
1:A:124:TYR:CE1	1:A:407:ALA:C	2.86	0.54
1:A:397:ALA:HB2	1:A:408:VAL:CG2	2.32	0.54
1:B:105:ARG:NH1	1:B:106:LYS:CD	2.71	0.54
1:B:135:LEU:HD23	1:B:138:ILE:HD11	1.90	0.54
1:B:235:LEU:HD23	1:B:310:LEU:HG	1.89	0.54
1:B:371:CYS:HB3	1:B:471:ARG:HD3	1.90	0.54
1:D:26:LEU:HD23	1:D:30:ILE:CD1	2.37	0.54
1:D:386:GLU:H	1:D:386:GLU:CD	2.14	0.54
1:E:173:ILE:HD12	1:E:345:MET:HG2	1.89	0.54
1:G:368:VAL:HG23	1:G:469:PRO:HG2	1.86	0.54
1:H:65:LEU:C	1:H:79:ILE:HD13	2.33	0.54
1:I:123:GLY:CA	1:I:407:ALA:CB	2.73	0.54
1:J:30:ILE:HG22	1:J:31:ILE:CD1	2.38	0.54
1:K:233:ALA:HB2	1:K:315:LEU:CD2	2.38	0.54
1:K:347:ILE:HB	1:K:355:ILE:HG23	1.88	0.54
1:L:95:THR:O	1:L:95:THR:HG22	2.08	0.54
1:L:218:ARG:CD	1:L:282:VAL:HG12	2.35	0.54
1:L:469:PRO:CB	1:L:472:VAL:CG2	2.86	0.54
1:M:177:ALA:HB1	1:M:343:VAL:CG1	2.37	0.54
1:O:43:GLY:O	1:O:44:MET:HE3	2.08	0.54
1:O:48:LEU:O	1:O:56:VAL:HG22	2.08	0.54
1:A:14:ARG:CG	1:A:494:ILE:HG12	2.33	0.53
1:A:371:CYS:HA	1:A:471:ARG:HH11	1.73	0.53
1:C:60:ASP:O	1:C:64:ILE:HG13	2.09	0.53
1:D:117:PRO:C	1:D:120:VAL:HG13	2.33	0.53
1:D:152:LYS:HZ2	1:D:462:CYS:CB	2.21	0.53
1:D:197:LYS:CA	1:D:355:ILE:HG21	2.34	0.53
1:E:233:ALA:HA	1:E:315:LEU:HD22	1.90	0.53
1:E:397:ALA:CB	1:E:408:VAL:CG2	2.87	0.53
1:F:72:HIS:HA	1:F:75:ALA:HB3	1.90	0.53
1:G:234:LEU:CD1	1:G:301:ALA:HB3	2.38	0.53
1:I:42:LYS:CE	1:I:426:ALA:HA	2.38	0.53
1:I:178:VAL:O	1:I:178:VAL:CG1	2.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:224:PRO:O	1:I:282:VAL:CG1	2.56	0.53
1:J:29:ARG:O	1:J:32:ALA:HB3	2.08	0.53
1:J:121:VAL:O	1:J:125:GLN:HG2	2.07	0.53
1:K:152:LYS:HD2	1:K:467:VAL:HG21	1.90	0.53
1:O:60:ASP:O	1:O:64:ILE:HD12	2.09	0.53
1:P:107:ALA:O	1:P:111:LEU:HG	2.08	0.53
1:P:393:LEU:HA	1:P:396:TYR:HB3	1.90	0.53
1:A:377:ARG:HG2	1:A:470:LEU:CG	2.38	0.53
1:B:296:ALA:HA	1:B:301:ALA:HB3	1.89	0.53
1:C:192:LEU:HB3	1:C:342:ALA:HA	1.89	0.53
1:E:29:ARG:O	1:E:32:ALA:HB3	2.08	0.53
1:G:232:ILE:HD13	1:G:299:THR:CG2	2.38	0.53
1:M:156:THR:HG21	1:M:467:VAL:C	2.33	0.53
1:N:124:TYR:CE1	1:N:407:ALA:C	2.86	0.53
1:O:74:ALA:O	1:O:77:MET:HG3	2.08	0.53
1:O:232:ILE:HD13	1:O:299:THR:HG22	1.90	0.53
1:P:96:ALA:HB3	1:P:97:VAL:HG23	1.90	0.53
1:P:105:ARG:HH11	1:P:106:LYS:HG2	1.73	0.53
1:P:345:MET:CE	1:P:362:VAL:HG21	2.38	0.53
1:A:105:ARG:CZ	1:A:106:LYS:CD	2.86	0.53
1:A:124:TYR:HE1	1:A:407:ALA:CB	2.21	0.53
1:A:420:ARG:O	1:A:423:ALA:HB3	2.08	0.53
1:B:96:ALA:CB	1:B:97:VAL:HG23	2.25	0.53
1:D:34:THR:HG23	1:D:35:VAL:HG13	1.90	0.53
1:E:106:LYS:CA	1:E:106:LYS:CE	2.80	0.53
1:E:459:GLU:HB3	1:E:461:MET:CE	2.39	0.53
1:F:119:ILE:HG22	1:F:120:VAL:N	2.15	0.53
1:F:384:SER:HB3	1:F:441:HIS:HE1	1.74	0.53
1:F:389:LEU:CD1	1:F:415:LEU:HD13	2.38	0.53
1:I:101:GLY:O	1:I:104:LEU:HB2	2.08	0.53
1:I:197:LYS:O	1:I:197:LYS:HG2	2.09	0.53
1:J:218:ARG:HG2	1:J:218:ARG:HH11	1.73	0.53
1:J:391:MET:CE	1:J:438:ARG:HD2	2.34	0.53
1:K:193:ILE:HD12	1:K:366:VAL:CG1	2.36	0.53
1:L:42:LYS:HE3	1:L:426:ALA:CA	2.37	0.53
1:L:150:LEU:HD23	1:L:175:VAL:CG1	2.29	0.53
1:L:235:LEU:HD11	1:L:239:ILE:HG21	1.90	0.53
1:M:299:THR:HG22	1:M:334:VAL:HG11	1.85	0.53
1:N:81:VAL:HG11	1:N:483:SER:OG	2.07	0.53
1:N:139:ALA:CB	1:N:377:ARG:CD	2.77	0.53
1:N:190:LYS:HZ3	1:N:367:GLY:HA2	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:254:ILE:HG21	1:N:262:LEU:HD13	1.89	0.53
1:O:36:ARG:HG3	1:O:37:SER:OG	2.09	0.53
1:P:95:THR:O	1:P:99:VAL:HG22	2.08	0.53
1:P:134:LEU:CD1	1:P:393:LEU:CD1	2.82	0.53
1:A:57:VAL:C	1:A:58:THR:HG23	2.34	0.53
1:A:212:VAL:HB	1:A:298:ALA:HB3	1.90	0.53
1:B:234:LEU:CD1	1:B:296:ALA:HB2	2.38	0.53
1:C:122:LYS:HD2	1:C:125:GLN:HE22	1.73	0.53
1:E:403:ARG:HB3	1:E:406:LEU:HD13	1.85	0.53
1:F:124:TYR:CD1	1:F:124:TYR:N	2.70	0.53
1:F:170:LEU:HD11	1:F:358:VAL:HG11	1.90	0.53
1:F:234:LEU:HD11	1:F:296:ALA:HA	1.90	0.53
1:F:379:VAL:CG2	1:F:380:SER:N	2.72	0.53
1:G:116:HIS:CG	1:H:425:ASN:O	2.61	0.53
1:I:135:LEU:HD13	1:I:138:ILE:HD11	1.90	0.53
1:J:173:ILE:HD12	1:J:345:MET:CG	2.38	0.53
1:K:130:LYS:CG	1:K:393:LEU:CD2	2.85	0.53
1:K:296:ALA:HB1	1:K:301:ALA:O	2.09	0.53
1:L:298:ALA:O	1:L:337:CYS:HB3	2.08	0.53
1:L:379:VAL:HG22	1:L:380:SER:N	2.18	0.53
1:L:393:LEU:HA	1:L:396:TYR:HB3	1.89	0.53
1:M:115:VAL:HG11	1:M:403:ARG:NH1	2.23	0.53
1:M:177:ALA:CB	1:M:208:LEU:CD1	2.81	0.53
1:O:119:ILE:CD1	1:O:403:ARG:HG3	2.39	0.53
1:O:130:LYS:HE3	1:O:396:TYR:CD1	2.43	0.53
1:O:234:LEU:H	1:O:315:LEU:CD2	2.21	0.53
1:P:103:LEU:CD2	1:P:411:PHE:CE2	2.84	0.53
1:P:130:LYS:CE	1:P:393:LEU:CD2	2.86	0.53
1:A:119:ILE:CD1	1:A:403:ARG:HG3	2.39	0.53
1:A:196:GLU:OE2	1:A:197:LYS:HE3	2.08	0.53
1:C:42:LYS:CG	1:C:425:ASN:HB2	2.39	0.53
1:C:469:PRO:CG	1:C:472:VAL:CG1	2.86	0.53
1:C:491:ASP:CG	1:D:44:MET:HG2	2.33	0.53
1:D:262:LEU:HD12	1:D:310:LEU:CD1	2.38	0.53
1:G:140:CYS:O	1:G:140:CYS:SG	2.66	0.53
1:H:134:LEU:HB3	1:H:392:LYS:NZ	2.24	0.53
1:H:142:VAL:CG1	1:H:378:ILE:HD13	2.39	0.53
1:I:190:LYS:NZ	1:I:367:GLY:HA2	2.24	0.53
1:I:212:VAL:N	1:I:298:ALA:HB2	2.24	0.53
1:I:391:MET:HE1	1:I:438:ARG:CB	2.36	0.53
1:J:42:LYS:CD	1:J:426:ALA:N	2.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:448:CYS:O	1:J:449:ALA:HB2	2.08	0.53
1:L:31:ILE:HG21	1:L:65:LEU:CG	2.38	0.53
1:L:115:VAL:HB	1:L:403:ARG:NE	2.17	0.53
1:L:181:VAL:HG12	1:L:342:ALA:N	2.22	0.53
1:M:177:ALA:CB	1:M:208:LEU:HD11	2.37	0.53
1:M:345:MET:HE1	1:M:362:VAL:HG11	1.91	0.53
1:N:212:VAL:HG21	1:N:294:LYS:HB3	1.89	0.53
1:N:400:ILE:HD11	1:N:408:VAL:CG1	2.38	0.53
1:O:25:ILE:HD13	1:O:108:GLU:CD	2.34	0.53
1:O:117:PRO:O	1:O:121:VAL:HG22	2.09	0.53
1:O:174:ILE:HG22	1:O:362:VAL:HG23	0.76	0.53
1:O:391:MET:CE	1:O:438:ARG:O	2.57	0.53
1:P:121:VAL:HG11	1:P:489:ARG:CD	2.23	0.53
1:P:262:LEU:HD11	1:P:310:LEU:CD2	2.36	0.53
1:P:299:THR:HG23	1:P:334:VAL:HG11	1.91	0.53
1:A:120:VAL:HG13	1:A:121:VAL:N	2.23	0.53
1:A:197:LYS:HG2	1:A:356:GLU:HG2	1.91	0.53
1:A:431:ILE:HD12	1:J:403:ARG:HD3	1.86	0.53
1:D:127:ALA:CB	1:D:408:VAL:HG12	2.38	0.53
1:D:170:LEU:CD1	1:D:361:ALA:HB3	2.38	0.53
1:E:35:VAL:CG2	1:E:35:VAL:O	2.54	0.53
1:E:158:ILE:HG21	1:E:170:LEU:HD23	1.91	0.53
1:E:431:ILE:CD1	1:N:403:ARG:HA	2.37	0.53
1:F:494:ILE:O	1:G:49:VAL:HG23	2.09	0.53
1:G:311:SER:O	1:G:315:LEU:HD22	2.08	0.53
1:H:135:LEU:HD21	1:H:385:THR:HG21	1.87	0.53
1:I:130:LYS:HG3	1:I:130:LYS:O	2.08	0.53
1:J:72:HIS:O	1:J:75:ALA:HB3	2.08	0.53
1:J:111:LEU:HD11	1:J:488:LEU:HD21	1.91	0.53
1:K:190:LYS:NZ	1:K:367:GLY:HA2	2.24	0.53
1:K:383:GLY:HA3	1:K:386:GLU:CG	2.38	0.53
1:L:17:GLY:O	1:L:21:GLN:HB2	2.08	0.53
1:M:82:ALA:HB1	1:M:93:THR:CG2	2.36	0.53
1:N:490:ILE:O	1:N:490:ILE:HG22	2.07	0.53
1:O:368:VAL:CG2	1:O:469:PRO:HG2	2.39	0.53
1:O:384:SER:O	1:O:441:HIS:CE1	2.62	0.53
1:O:393:LEU:O	1:O:396:TYR:HB3	2.07	0.53
1:P:116:HIS:CD2	1:P:117:PRO:HD2	2.44	0.53
1:P:170:LEU:HD12	1:P:358:VAL:HG13	1.91	0.53
1:A:124:TYR:CE1	1:A:407:ALA:CA	2.81	0.53
1:B:358:VAL:O	1:B:358:VAL:HG12	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:368:VAL:O	1:C:371:CYS:HB2	2.08	0.53
1:E:491:ASP:OD1	1:E:491:ASP:N	2.42	0.53
1:F:194:LYS:HB2	1:F:294:LYS:CD	2.39	0.53
1:F:376:GLY:N	1:F:377:ARG:HB2	2.24	0.53
1:H:22:ARG:O	1:H:25:ILE:HG22	2.09	0.53
1:H:31:ILE:HG22	1:H:34:THR:OG1	2.09	0.53
1:H:115:VAL:HG12	1:H:403:ARG:HH21	1.73	0.53
1:H:416:GLU:OE2	1:H:434:LEU:HD12	2.08	0.53
1:I:130:LYS:HE3	1:I:134:LEU:HD21	1.90	0.53
1:K:96:ALA:CA	1:K:480:ALA:CB	2.87	0.53
1:K:100:ALA:CB	1:K:484:THR:CG2	2.67	0.53
1:K:235:LEU:CG	1:K:310:LEU:HG	2.38	0.53
1:M:30:ILE:HG22	1:M:31:ILE:CD1	2.39	0.53
1:M:57:VAL:O	1:M:58:THR:CG2	2.57	0.53
1:N:383:GLY:CA	1:N:386:GLU:HG2	2.38	0.53
1:O:405:GLN:HG2	1:O:406:LEU:HG	1.90	0.53
1:P:178:VAL:HG22	1:P:193:ILE:CD1	2.38	0.53
1:A:276:LEU:CD1	1:A:281:ILE:CD1	2.79	0.53
1:A:299:THR:HG23	1:A:334:VAL:HG11	1.89	0.53
1:B:139:ALA:CB	1:B:377:ARG:HD2	2.39	0.53
1:B:364:ASP:O	1:B:368:VAL:HG22	2.09	0.53
1:C:121:VAL:CG1	1:C:488:LEU:CD2	2.87	0.53
1:C:384:SER:OG	1:C:441:HIS:HE1	1.91	0.53
1:D:197:LYS:CB	1:D:355:ILE:HG13	2.39	0.53
1:E:124:TYR:OH	1:E:407:ALA:HA	2.08	0.53
1:F:79:ILE:O	1:F:79:ILE:HG13	2.09	0.53
1:G:48:LEU:HB2	1:G:56:VAL:HG23	1.87	0.53
1:H:42:LYS:HB2	1:H:425:ASN:HD22	1.73	0.53
1:H:389:LEU:O	1:H:393:LEU:HD22	2.09	0.53
1:I:31:ILE:HB	1:I:34:THR:OG1	2.08	0.53
1:I:45:ASP:C	1:I:46:LYS:CG	2.82	0.53
1:I:115:VAL:HG21	1:I:403:ARG:HD3	1.91	0.53
1:I:138:ILE:HG13	1:I:138:ILE:O	2.08	0.53
1:I:138:ILE:HD12	1:I:385:THR:HA	1.90	0.53
1:I:368:VAL:HG21	1:I:469:PRO:CG	2.28	0.53
1:I:368:VAL:CB	1:I:469:PRO:CG	2.87	0.53
1:J:190:LYS:HZ1	1:J:367:GLY:HA2	1.72	0.53
1:L:124:TYR:CE1	1:L:407:ALA:CB	2.91	0.53
1:L:420:ARG:NH1	1:L:420:ARG:CG	2.71	0.53
1:M:234:LEU:O	1:M:304:ILE:HG12	2.09	0.53
1:M:264:CYS:HB2	1:M:266:LYS:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:130:LYS:O	1:N:130:LYS:CG	2.46	0.53
1:N:190:LYS:NZ	1:N:367:GLY:CA	2.72	0.53
1:N:418:ILE:CB	1:N:419:PRO:HD3	2.39	0.53
1:O:117:PRO:O	1:O:120:VAL:HG12	2.08	0.53
1:P:89:VAL:O	1:P:89:VAL:CG2	2.57	0.53
1:P:119:ILE:HD12	1:P:403:ARG:CB	2.35	0.53
1:A:150:LEU:CD2	1:A:175:VAL:HG13	2.32	0.53
1:A:152:LYS:NZ	1:A:465:GLY:HA2	2.23	0.53
1:B:364:ASP:O	1:B:368:VAL:HG13	2.09	0.53
1:C:383:GLY:O	1:C:387:VAL:HG22	2.09	0.53
1:D:124:TYR:CE1	1:D:407:ALA:O	2.61	0.53
1:D:156:THR:CG2	1:D:468:GLU:CB	2.84	0.53
1:D:459:GLU:HG3	1:D:461:MET:HE2	1.88	0.53
1:F:345:MET:HE3	1:F:362:VAL:HG11	1.85	0.53
1:G:14:ARG:NH1	1:H:34:THR:HA	2.24	0.53
1:G:214:VAL:HG11	1:G:295:LEU:HD11	1.90	0.53
1:G:391:MET:CE	1:G:438:ARG:HG2	2.37	0.53
1:H:22:ARG:CA	1:H:25:ILE:HD12	2.30	0.53
1:H:406:LEU:HD12	1:H:406:LEU:H	1.74	0.53
1:I:42:LYS:CB	1:I:425:ASN:CB	2.76	0.53
1:I:64:ILE:CG2	1:I:65:LEU:CD2	2.87	0.53
1:I:82:ALA:HB1	1:I:93:THR:HG22	1.90	0.53
1:J:31:ILE:CG2	1:J:65:LEU:HD21	2.39	0.53
1:K:82:ALA:HB1	1:K:93:THR:HG22	1.90	0.53
1:K:421:THR:HG22	1:K:424:GLU:OE1	2.09	0.53
1:M:381:GLY:HA3	1:M:461:MET:CB	2.39	0.53
1:M:387:VAL:O	1:M:390:SER:HB3	2.09	0.53
1:N:63:THR:CG2	1:N:63:THR:O	2.56	0.53
1:P:132:GLN:C	1:P:134:LEU:H	2.17	0.53
1:P:153:ILE:CG2	1:P:469:PRO:CG	2.83	0.53
1:A:31:ILE:HA	1:A:34:THR:OG1	2.09	0.53
1:A:62:VAL:CG1	1:A:63:THR:N	2.65	0.53
1:A:135:LEU:HD11	1:A:385:THR:HG21	1.86	0.53
1:B:117:PRO:HA	1:B:120:VAL:HG13	1.90	0.53
1:B:197:LYS:CA	1:B:355:ILE:HD13	2.38	0.53
1:C:14:ARG:CZ	1:C:494:ILE:CD1	2.88	0.53
1:C:166:ALA:CB	1:C:203:ILE:HG22	2.39	0.53
1:C:173:ILE:HD13	1:C:206:THR:O	2.08	0.53
1:D:206:THR:HG22	1:D:348:ARG:H	1.74	0.53
1:D:488:LEU:C	1:D:488:LEU:CD2	2.82	0.53
1:E:291:ASP:O	1:E:295:LEU:HD12	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:358:VAL:O	1:G:362:VAL:CG1	2.56	0.53
1:H:122:LYS:HG3	1:H:125:GLN:HE22	1.74	0.53
1:H:219:VAL:CG1	1:H:283:ALA:HB3	2.38	0.53
1:J:30:ILE:C	1:J:32:ALA:N	2.60	0.53
1:J:196:GLU:C	1:J:197:LYS:HG3	2.29	0.53
1:K:400:ILE:CD1	1:K:408:VAL:HG11	2.39	0.53
1:L:166:ALA:HB2	1:L:203:ILE:CB	2.38	0.53
1:M:234:LEU:CB	1:M:292:MET:CE	2.77	0.53
1:N:263:PHE:CG	1:N:295:LEU:HD13	2.42	0.53
1:O:31:ILE:HG22	1:O:65:LEU:HD21	1.91	0.53
1:O:420:ARG:HG2	1:O:420:ARG:NH1	2.24	0.53
1:O:420:ARG:O	1:O:423:ALA:HB3	2.08	0.53
1:P:233:ALA:HB2	1:P:315:LEU:HD11	1.91	0.53
1:A:63:THR:C	1:A:66:ARG:HB2	2.34	0.52
1:D:296:ALA:HA	1:D:301:ALA:HB3	1.90	0.52
1:G:493:VAL:HG22	1:H:47:MET:HE2	1.90	0.52
1:H:77:MET:HB3	1:H:487:LEU:CD1	2.39	0.52
1:H:104:LEU:HD22	1:H:488:LEU:HD12	1.90	0.52
1:I:115:VAL:CG2	1:I:403:ARG:HE	2.18	0.52
1:I:140:CYS:HB2	1:I:447:LYS:HB3	1.91	0.52
1:J:304:ILE:HD11	1:J:310:LEU:HB2	1.91	0.52
1:J:368:VAL:HG11	1:J:469:PRO:CB	2.37	0.52
1:J:368:VAL:CB	1:J:469:PRO:HG3	2.29	0.52
1:K:123:GLY:O	1:K:408:VAL:HG12	2.10	0.52
1:K:380:SER:HB3	1:K:384:SER:OG	2.09	0.52
1:K:423:ALA:O	1:K:426:ALA:HB3	2.08	0.52
1:L:211:GLY:CA	1:L:298:ALA:HB1	2.39	0.52
1:N:116:HIS:HE1	1:N:118:THR:CB	2.22	0.52
1:N:156:THR:HG21	1:N:468:GLU:N	2.23	0.52
1:O:119:ILE:HD12	1:O:403:ARG:CD	2.39	0.52
1:O:381:GLY:HA3	1:O:461:MET:CG	2.39	0.52
1:P:193:ILE:CD1	1:P:366:VAL:HG21	2.39	0.52
1:P:400:ILE:HD11	1:P:408:VAL:HG21	1.91	0.52
1:P:449:ALA:CB	1:P:458:VAL:CG2	2.84	0.52
1:A:494:ILE:HD12	1:B:48:LEU:HD23	1.90	0.52
1:B:202:SER:OG	1:B:203:ILE:HG12	2.10	0.52
1:D:191:ASP:O	1:D:294:LYS:HE3	2.09	0.52
1:D:394:ARG:O	1:D:397:ALA:HB3	2.10	0.52
1:E:196:GLU:OE2	1:E:197:LYS:HG2	2.09	0.52
1:E:206:THR:CG2	1:E:347:ILE:CG2	2.87	0.52
1:F:192:LEU:HB3	1:F:342:ALA:CB	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:418:ILE:HB	1:G:419:PRO:CD	2.39	0.52
1:H:376:GLY:O	1:H:377:ARG:HB2	2.08	0.52
1:I:85:GLN:HE21	1:I:96:ALA:HB2	1.73	0.52
1:I:110:LEU:HD23	1:I:110:LEU:N	2.24	0.52
1:I:153:ILE:CD1	1:I:378:ILE:HB	2.39	0.52
1:J:227:VAL:HG11	1:J:260:ASN:CG	2.34	0.52
1:J:254:ILE:HD12	1:J:276:LEU:HD11	1.91	0.52
1:K:173:ILE:HG22	1:K:208:LEU:HB2	1.91	0.52
1:L:95:THR:O	1:L:95:THR:CG2	2.56	0.52
1:M:39:LEU:CG	1:M:40:GLY:N	2.64	0.52
1:M:138:ILE:O	1:M:446:ASN:HB3	2.09	0.52
1:M:469:PRO:CG	1:M:472:VAL:CG1	2.87	0.52
1:N:48:LEU:C	1:N:49:VAL:HG23	2.34	0.52
1:O:391:MET:HE2	1:O:438:ARG:HG2	1.91	0.52
1:A:16:MET:HG3	1:A:16:MET:O	2.09	0.52
1:A:22:ARG:O	1:A:26:LEU:HB2	2.09	0.52
1:A:232:ILE:HA	1:A:261:VAL:HB	1.91	0.52
1:A:368:VAL:HB	1:A:469:PRO:CB	2.40	0.52
1:A:389:LEU:HD22	1:A:393:LEU:HD11	1.92	0.52
1:B:379:VAL:HG22	1:B:380:SER:N	2.24	0.52
1:C:486:MET:HG2	1:C:487:LEU:N	2.25	0.52
1:D:469:PRO:HG2	1:D:472:VAL:CG2	2.38	0.52
1:E:119:ILE:HD12	1:E:403:ARG:HA	1.91	0.52
1:E:166:ALA:HB2	1:E:203:ILE:CB	2.32	0.52
1:F:406:LEU:HD12	1:F:406:LEU:H	1.74	0.52
1:F:425:ASN:C	1:F:427:GLY:H	2.17	0.52
1:G:403:ARG:HG3	1:G:403:ARG:NH1	2.20	0.52
1:H:473:LYS:HA	1:H:473:LYS:HE3	1.91	0.52
1:J:209:ILE:C	1:J:211:GLY:H	2.16	0.52
1:J:213:LEU:HD11	1:J:333:PHE:CE2	2.43	0.52
1:K:39:LEU:HG	1:K:40:GLY:N	2.24	0.52
1:L:39:LEU:CG	1:L:40:GLY:H	2.22	0.52
1:M:174:ILE:HG13	1:M:175:VAL:N	2.23	0.52
1:M:212:VAL:HG21	1:M:294:LYS:C	2.33	0.52
1:M:212:VAL:HB	1:M:298:ALA:HB3	1.91	0.52
1:M:233:ALA:HB1	1:M:310:LEU:CG	2.39	0.52
1:M:380:SER:HB3	1:M:384:SER:OG	2.08	0.52
1:N:37:SER:O	1:N:43:GLY:HA2	2.08	0.52
1:N:178:VAL:HG21	1:N:366:VAL:CG2	2.36	0.52
1:O:93:THR:O	1:O:97:VAL:HG13	2.10	0.52
1:O:119:ILE:HD12	1:O:403:ARG:HD2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:42:LYS:CG	1:P:426:ALA:N	2.71	0.52
1:P:156:THR:HG22	1:P:468:GLU:HA	1.91	0.52
1:A:384:SER:HB3	1:A:441:HIS:CE1	2.44	0.52
1:B:402:GLY:O	1:B:406:LEU:HD11	2.09	0.52
1:C:150:LEU:HG	1:C:175:VAL:HG13	1.90	0.52
1:D:62:VAL:H	1:D:93:THR:HG21	1.74	0.52
1:D:134:LEU:HD13	1:D:392:LYS:HE3	1.91	0.52
1:G:14:ARG:NH2	1:H:34:THR:HG23	2.23	0.52
1:G:219:VAL:HG11	1:G:268:ILE:HD12	1.91	0.52
1:H:77:MET:SD	1:H:487:LEU:HD21	2.50	0.52
1:H:122:LYS:HA	1:H:125:GLN:NE2	2.25	0.52
1:H:362:VAL:O	1:H:366:VAL:HG23	2.09	0.52
1:I:194:LYS:HG2	1:I:195:ILE:N	2.25	0.52
1:I:234:LEU:CD2	1:I:301:ALA:HB3	2.39	0.52
1:I:296:ALA:HB1	1:I:301:ALA:O	2.09	0.52
1:J:262:LEU:HD11	1:J:310:LEU:HD22	1.91	0.52
1:K:212:VAL:HG23	1:K:298:ALA:CB	2.37	0.52
1:L:389:LEU:HD13	1:L:415:LEU:HD13	1.91	0.52
1:M:251:VAL:HG13	1:M:276:LEU:CD2	2.40	0.52
1:N:158:ILE:CD1	1:N:170:LEU:HB3	2.39	0.52
1:N:400:ILE:CD1	1:N:408:VAL:HG11	2.40	0.52
1:N:405:GLN:HG2	1:N:406:LEU:HG	1.92	0.52
1:N:441:HIS:ND1	1:N:449:ALA:CB	2.73	0.52
1:A:134:LEU:HD11	1:A:393:LEU:CD2	2.38	0.52
1:B:178:VAL:HG22	1:B:193:ILE:HD12	1.90	0.52
1:B:239:ILE:HG23	1:B:268:ILE:HG23	1.91	0.52
1:C:102:GLU:HG2	1:C:414:ALA:HB1	1.90	0.52
1:C:447:LYS:O	1:C:448:CYS:HB3	2.09	0.52
1:D:150:LEU:HB3	1:D:175:VAL:HG21	1.90	0.52
1:D:391:MET:HE1	1:D:438:ARG:C	2.34	0.52
1:E:235:LEU:HD22	1:E:262:LEU:HD21	1.91	0.52
1:E:261:VAL:HA	1:E:282:VAL:HG12	1.90	0.52
1:E:351:THR:HG23	1:E:352:GLU:N	2.25	0.52
1:F:251:VAL:CG1	1:F:276:LEU:CD2	2.69	0.52
1:F:387:VAL:HG21	1:F:437:VAL:CG1	2.33	0.52
1:G:262:LEU:HD11	1:G:310:LEU:HD23	1.89	0.52
1:H:178:VAL:O	1:H:181:VAL:HG22	2.10	0.52
1:H:234:LEU:HD12	1:H:301:ALA:HB1	1.91	0.52
1:H:234:LEU:CD1	1:H:301:ALA:CB	2.88	0.52
1:K:105:ARG:HH12	1:K:106:LYS:HD2	1.74	0.52
1:L:48:LEU:CA	1:L:56:VAL:CG2	2.87	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:368:VAL:CG2	1:L:469:PRO:HG3	2.40	0.52
1:M:178:VAL:HG23	1:M:178:VAL:O	2.10	0.52
1:N:42:LYS:HG3	1:N:425:ASN:HB2	1.92	0.52
1:N:116:HIS:C	1:N:116:HIS:HD1	2.15	0.52
1:N:223:MET:CB	1:N:282:VAL:HA	2.37	0.52
1:O:251:VAL:HG13	1:O:276:LEU:HD22	1.92	0.52
1:P:115:VAL:CG1	1:P:403:ARG:CZ	2.87	0.52
1:B:301:ALA:C	1:B:302:ASN:CG	2.76	0.52
1:B:494:ILE:HG22	1:C:48:LEU:HD23	1.91	0.52
1:C:14:ARG:NH1	1:C:494:ILE:CD1	2.73	0.52
1:E:27:ALA:HA	1:E:30:ILE:HD12	1.91	0.52
1:E:235:LEU:CG	1:E:310:LEU:CD1	2.77	0.52
1:E:285:ARG:C	1:E:287:VAL:H	2.18	0.52
1:F:211:GLY:C	1:F:298:ALA:HB2	2.35	0.52
1:G:31:ILE:CG2	1:G:65:LEU:CD1	2.88	0.52
1:G:98:VAL:HG12	1:G:99:VAL:CG1	2.37	0.52
1:G:400:ILE:HD11	1:G:408:VAL:HG11	1.91	0.52
1:H:212:VAL:HG21	1:H:294:LYS:C	2.35	0.52
1:I:48:LEU:HB2	1:I:56:VAL:HG23	1.82	0.52
1:J:39:LEU:CG	1:J:40:GLY:H	2.04	0.52
1:J:192:LEU:N	1:J:192:LEU:CD1	2.71	0.52
1:J:420:ARG:O	1:J:423:ALA:HB3	2.10	0.52
1:K:30:ILE:HG22	1:K:31:ILE:N	2.24	0.52
1:K:121:VAL:C	1:K:123:GLY:H	2.17	0.52
1:L:212:VAL:CG2	1:L:294:LYS:O	2.57	0.52
1:N:139:ALA:HB1	1:N:377:ARG:HG3	1.92	0.52
1:N:233:ALA:CB	1:N:315:LEU:CG	2.88	0.52
1:P:347:ILE:HG21	1:P:358:VAL:HG11	1.89	0.52
1:P:418:ILE:CB	1:P:419:PRO:HD3	2.38	0.52
1:C:118:THR:HG23	1:C:121:VAL:CG2	2.40	0.52
1:C:254:ILE:CG2	1:C:262:LEU:HD13	2.40	0.52
1:D:42:LYS:CD	1:D:425:ASN:C	2.79	0.52
1:D:251:VAL:HG13	1:D:276:LEU:CD2	2.39	0.52
1:E:152:LYS:HZ3	1:E:462:CYS:CB	2.17	0.52
1:F:116:HIS:C	1:F:118:THR:N	2.66	0.52
1:F:117:PRO:HA	1:F:120:VAL:CG1	2.39	0.52
1:F:235:LEU:CD1	1:F:310:LEU:HD22	2.40	0.52
1:F:254:ILE:O	1:F:254:ILE:CG2	2.56	0.52
1:F:347:ILE:CG2	1:F:358:VAL:CG1	2.83	0.52
1:F:418:ILE:HB	1:F:419:PRO:CD	2.40	0.52
1:G:173:ILE:CD1	1:G:206:THR:OG1	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:174:ILE:HG22	1:G:362:VAL:HG23	1.91	0.52
1:H:166:ALA:HB3	1:H:203:ILE:CB	2.38	0.52
1:H:263:PHE:CD2	1:H:295:LEU:CD2	2.93	0.52
1:J:115:VAL:HG23	1:J:119:ILE:HB	1.90	0.52
1:J:158:ILE:HD13	1:J:170:LEU:HB3	1.81	0.52
1:K:85:GLN:HE22	1:K:479:SER:CB	2.22	0.52
1:K:102:GLU:C	1:K:104:LEU:N	2.66	0.52
1:K:276:LEU:CD1	1:K:281:ILE:CD1	2.88	0.52
1:K:299:THR:CG2	1:K:334:VAL:CG1	2.87	0.52
1:K:431:ILE:O	1:K:431:ILE:CD1	2.46	0.52
1:L:254:ILE:HG23	1:L:262:LEU:HD12	1.91	0.52
1:M:156:THR:HB	1:M:467:VAL:O	2.09	0.52
1:N:267:GLY:O	1:N:268:ILE:HG12	2.10	0.52
1:O:379:VAL:HG22	1:O:380:SER:H	1.73	0.52
1:P:63:THR:HA	1:P:66:ARG:CG	2.39	0.52
1:P:134:LEU:CD1	1:P:393:LEU:CD2	2.86	0.52
1:A:14:ARG:CZ	1:B:34:THR:HA	2.36	0.52
1:A:124:TYR:HE1	1:A:407:ALA:C	2.16	0.52
1:A:416:GLU:O	1:A:420:ARG:HB2	2.09	0.52
1:B:134:LEU:HD12	1:B:393:LEU:CD1	2.38	0.52
1:B:150:LEU:O	1:B:175:VAL:HG21	2.08	0.52
1:B:206:THR:CB	1:B:347:ILE:CG2	2.85	0.52
1:D:96:ALA:O	1:D:480:ALA:HB1	2.10	0.52
1:E:178:VAL:HG21	1:E:366:VAL:CG1	2.38	0.52
1:G:406:LEU:HD12	1:G:406:LEU:H	1.75	0.52
1:H:106:LYS:HA	1:H:106:LYS:CE	2.40	0.52
1:I:45:ASP:C	1:I:46:LYS:HG3	2.35	0.52
1:I:209:ILE:HD11	1:I:213:LEU:HB2	1.92	0.52
1:K:15:TYR:O	1:K:20:ALA:HB2	2.09	0.52
1:K:34:THR:O	1:K:34:THR:HG22	2.08	0.52
1:K:138:ILE:CG1	1:K:385:THR:HG23	2.40	0.52
1:K:276:LEU:O	1:K:281:ILE:HB	2.10	0.52
1:K:393:LEU:HA	1:K:396:TYR:HB3	1.91	0.52
1:M:214:VAL:HG11	1:M:295:LEU:HD11	1.92	0.52
1:N:345:MET:HE1	1:N:362:VAL:CG1	2.39	0.52
1:O:384:SER:CB	1:O:441:HIS:HE1	2.23	0.52
1:O:418:ILE:O	1:O:422:LEU:HG	2.09	0.52
1:P:99:VAL:HG13	1:P:418:ILE:HD11	1.91	0.52
1:P:211:GLY:C	1:P:298:ALA:CB	2.83	0.52
1:A:119:ILE:HD12	1:A:403:ARG:HA	1.91	0.52
1:A:139:ALA:HB3	1:A:377:ARG:CG	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:178:VAL:HG22	1:B:366:VAL:CG1	2.39	0.52
1:B:239:ILE:CG2	1:B:268:ILE:HG23	2.40	0.52
1:C:157:SER:HB3	1:C:365:ALA:HB2	1.91	0.52
1:C:233:ALA:HB1	1:C:310:LEU:HD12	1.85	0.52
1:C:257:SER:CB	1:C:312:ALA:HB2	2.40	0.52
1:C:301:ALA:C	1:C:302:ASN:ND2	2.68	0.52
1:C:347:ILE:HG21	1:C:358:VAL:HG12	1.91	0.52
1:D:117:PRO:HA	1:D:120:VAL:CG1	2.40	0.52
1:D:150:LEU:CD2	1:D:175:VAL:HG13	2.29	0.52
1:D:178:VAL:HG22	1:D:193:ILE:HD11	1.91	0.52
1:E:25:ILE:HD13	1:E:108:GLU:CG	2.39	0.52
1:E:34:THR:HG22	1:E:35:VAL:CG1	2.29	0.52
1:E:459:GLU:OE1	1:E:459:GLU:CA	2.57	0.52
1:F:347:ILE:HD12	1:F:359:ALA:HB2	1.91	0.52
1:G:31:ILE:CG2	1:G:65:LEU:HD11	2.40	0.52
1:G:178:VAL:O	1:G:178:VAL:HG12	2.08	0.52
1:G:195:ILE:HG21	1:G:359:ALA:HB1	1.92	0.52
1:G:418:ILE:HB	1:G:419:PRO:HD3	1.91	0.52
1:G:431:ILE:O	1:G:435:VAL:HG23	2.09	0.52
1:H:14:ARG:HD2	1:H:494:ILE:HG12	1.91	0.52
1:H:310:LEU:CD2	1:H:315:LEU:HD21	2.40	0.52
1:I:254:ILE:HG12	1:I:310:LEU:HD23	1.91	0.52
1:K:130:LYS:CD	1:K:393:LEU:HD23	2.40	0.52
1:K:254:ILE:HD12	1:K:276:LEU:HD11	1.92	0.52
1:L:124:TYR:HD1	1:L:407:ALA:HB1	1.69	0.52
1:M:93:THR:O	1:M:97:VAL:HG23	2.09	0.52
1:M:158:ILE:HD13	1:M:170:LEU:HB2	1.91	0.52
1:N:178:VAL:HG21	1:N:366:VAL:HG13	1.92	0.52
1:O:263:PHE:CE2	1:O:295:LEU:HD21	2.44	0.52
1:P:139:ALA:CB	1:P:377:ARG:HD2	2.40	0.52
1:A:104:LEU:CD2	1:A:488:LEU:HD12	2.40	0.52
1:A:170:LEU:HD12	1:A:358:VAL:CG1	2.39	0.52
1:C:31:ILE:O	1:C:35:VAL:HG22	2.10	0.52
1:C:150:LEU:HD23	1:C:175:VAL:HG12	1.90	0.52
1:D:117:PRO:HA	1:D:120:VAL:HG11	1.91	0.52
1:D:134:LEU:CD1	1:D:393:LEU:CD2	2.88	0.52
1:D:406:LEU:CD2	1:D:406:LEU:N	2.66	0.52
1:E:296:ALA:HB1	1:E:301:ALA:O	2.10	0.52
1:F:239:ILE:CD1	1:F:254:ILE:HD11	2.33	0.52
1:G:31:ILE:O	1:G:34:THR:HB	2.10	0.52
1:G:235:LEU:HB2	1:G:310:LEU:HD13	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:135:LEU:HA	1:H:138:ILE:HD11	1.91	0.52
1:I:29:ARG:O	1:I:32:ALA:HB3	2.09	0.52
1:I:39:LEU:HD11	1:I:91:ASP:OD2	2.10	0.52
1:I:132:GLN:HA	1:I:132:GLN:NE2	2.25	0.52
1:I:212:VAL:N	1:I:298:ALA:CB	2.73	0.52
1:K:262:LEU:CD1	1:K:310:LEU:CD1	2.85	0.52
1:L:42:LYS:HD2	1:L:426:ALA:N	2.25	0.52
1:L:254:ILE:CG2	1:L:262:LEU:CD1	2.84	0.52
1:M:57:VAL:C	1:M:58:THR:CG2	2.83	0.52
1:M:115:VAL:HG21	1:M:119:ILE:CG2	2.40	0.52
1:M:414:ALA:O	1:M:417:VAL:HG23	2.10	0.52
1:N:343:VAL:O	1:N:343:VAL:CG1	2.55	0.52
1:N:404:GLU:O	1:N:408:VAL:HG13	2.09	0.52
1:O:418:ILE:HG22	1:O:419:PRO:N	2.22	0.52
1:P:42:LYS:HG3	1:P:425:ASN:C	2.34	0.52
1:P:105:ARG:CG	1:P:106:LYS:N	2.73	0.52
1:P:158:ILE:HG12	1:P:361:ALA:HB1	1.91	0.52
1:A:140:CYS:HB3	1:A:446:ASN:CB	2.37	0.51
1:A:403:ARG:CB	1:J:431:ILE:HD11	2.39	0.51
1:B:78:LEU:CD1	1:B:487:LEU:CD2	2.83	0.51
1:B:178:VAL:HG22	1:B:366:VAL:CG2	2.39	0.51
1:C:77:MET:O	1:C:487:LEU:HD11	2.10	0.51
1:E:138:ILE:C	1:E:138:ILE:CD1	2.83	0.51
1:I:42:LYS:HE3	1:J:118:THR:HG21	1.92	0.51
1:J:30:ILE:CG2	1:J:31:ILE:HD13	2.38	0.51
1:J:77:MET:HB3	1:J:80:GLU:OE1	2.10	0.51
1:J:134:LEU:HB3	1:J:392:LYS:CE	2.36	0.51
1:K:263:PHE:CD2	1:K:295:LEU:CD2	2.91	0.51
1:L:31:ILE:HG21	1:L:65:LEU:HD21	1.92	0.51
1:M:99:VAL:CG1	1:M:418:ILE:CD1	2.88	0.51
1:N:115:VAL:CG2	1:N:403:ARG:NE	2.71	0.51
1:N:158:ILE:HG12	1:N:361:ALA:CB	2.30	0.51
1:O:135:LEU:HD21	1:O:385:THR:CG2	2.40	0.51
1:P:142:VAL:HG11	1:P:378:ILE:HD13	1.91	0.51
1:P:153:ILE:HD11	1:P:378:ILE:HG22	1.92	0.51
1:P:234:LEU:CD1	1:P:301:ALA:CB	2.88	0.51
1:B:42:LYS:CB	1:B:425:ASN:HB2	2.41	0.51
1:B:73:PRO:HB3	1:C:55:VAL:HG11	1.92	0.51
1:B:135:LEU:HA	1:B:138:ILE:CD1	2.38	0.51
1:B:142:VAL:HG11	1:B:378:ILE:HD13	1.90	0.51
1:B:211:GLY:O	1:B:298:ALA:HB2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:486:MET:HG2	1:B:487:LEU:N	2.25	0.51
1:C:469:PRO:HG2	1:C:472:VAL:CG2	2.39	0.51
1:D:368:VAL:CG1	1:D:469:PRO:HG2	2.41	0.51
1:D:488:LEU:C	1:D:488:LEU:HD22	2.34	0.51
1:E:192:LEU:CG	1:E:342:ALA:HB2	2.33	0.51
1:F:43:GLY:O	1:F:44:MET:HE2	2.09	0.51
1:H:57:VAL:O	1:H:58:THR:HG23	2.09	0.51
1:H:135:LEU:HD23	1:H:138:ILE:CD1	2.39	0.51
1:I:177:ALA:HB2	1:I:208:LEU:HD21	1.92	0.51
1:I:178:VAL:HG22	1:I:366:VAL:CG1	2.40	0.51
1:J:48:LEU:HD11	1:J:64:ILE:HA	1.93	0.51
1:J:134:LEU:CD1	1:J:393:LEU:HG	2.40	0.51
1:K:116:HIS:C	1:K:118:THR:N	2.68	0.51
1:K:135:LEU:HG	1:K:389:LEU:HD21	1.91	0.51
1:K:233:ALA:CA	1:K:315:LEU:CD2	2.87	0.51
1:N:192:LEU:O	1:N:342:ALA:HA	2.10	0.51
1:N:223:MET:HB3	1:N:282:VAL:CA	2.37	0.51
1:O:232:ILE:HG13	1:O:261:VAL:CG1	2.41	0.51
1:A:84:THR:O	1:A:84:THR:CG2	2.58	0.51
1:B:25:ILE:HD13	1:B:108:GLU:CD	2.35	0.51
1:C:206:THR:HB	1:C:347:ILE:HG23	1.91	0.51
1:C:406:LEU:H	1:C:406:LEU:CD1	2.23	0.51
1:D:223:MET:HG2	1:D:281:ILE:O	2.10	0.51
1:D:233:ALA:HB1	1:D:310:LEU:HD22	1.90	0.51
1:E:25:ILE:CD1	1:E:108:GLU:CG	2.85	0.51
1:E:403:ARG:HB3	1:E:406:LEU:HD11	1.84	0.51
1:G:387:VAL:C	1:G:390:SER:HB3	2.35	0.51
1:H:132:GLN:O	1:H:136:LYS:HD3	2.09	0.51
1:J:219:VAL:HB	1:J:283:ALA:O	2.10	0.51
1:K:232:ILE:CG1	1:K:261:VAL:CG1	2.88	0.51
1:K:232:ILE:HD11	1:K:321:VAL:HG21	1.92	0.51
1:M:155:MET:SD	1:M:167:LYS:HE3	2.50	0.51
1:M:381:GLY:HA3	1:M:461:MET:CG	2.40	0.51
1:N:48:LEU:HD21	1:O:494:ILE:HD12	1.91	0.51
1:O:106:LYS:HA	1:O:109:GLU:HG3	1.92	0.51
1:O:276:LEU:CB	1:O:281:ILE:HD12	2.40	0.51
1:O:384:SER:OG	1:O:441:HIS:HE1	1.93	0.51
1:B:150:LEU:HB3	1:B:175:VAL:HG11	1.92	0.51
1:C:42:LYS:HG3	1:C:425:ASN:HB2	1.92	0.51
1:C:218:ARG:CG	1:C:218:ARG:NH1	2.53	0.51
1:D:211:GLY:C	1:D:298:ALA:HB1	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:391:MET:CE	1:D:438:ARG:HB3	2.33	0.51
1:D:431:ILE:HD12	1:M:406:LEU:HD21	1.93	0.51
1:F:34:THR:HB	1:F:35:VAL:HG22	1.92	0.51
1:G:22:ARG:O	1:G:26:LEU:HB2	2.10	0.51
1:G:414:ALA:C	1:G:416:GLU:H	2.19	0.51
1:I:79:ILE:O	1:I:83:LYS:HB2	2.09	0.51
1:I:299:THR:HG21	1:I:334:VAL:HG11	1.93	0.51
1:J:42:LYS:HB3	1:J:425:ASN:HB3	1.91	0.51
1:J:134:LEU:HD22	1:J:392:LYS:CE	2.40	0.51
1:M:192:LEU:CD2	1:M:342:ALA:CB	2.67	0.51
1:N:384:SER:CA	1:N:441:HIS:CE1	2.93	0.51
1:N:418:ILE:HB	1:N:419:PRO:HD3	1.92	0.51
1:O:263:PHE:CE1	1:O:332:ILE:HD13	2.44	0.51
1:O:380:SER:HB3	1:O:467:VAL:HG13	1.91	0.51
1:P:170:LEU:HD11	1:P:358:VAL:CG2	2.40	0.51
1:B:130:LYS:NZ	1:B:393:LEU:HD23	2.23	0.51
1:E:114:ASN:O	1:E:114:ASN:ND2	2.44	0.51
1:E:235:LEU:N	1:E:310:LEU:CD1	2.74	0.51
1:E:420:ARG:O	1:E:423:ALA:HB3	2.11	0.51
1:I:173:ILE:HG13	1:I:345:MET:HG2	1.93	0.51
1:J:387:VAL:HG21	1:J:437:VAL:CG1	2.40	0.51
1:K:37:SER:O	1:K:43:GLY:HA2	2.11	0.51
1:K:101:GLY:HA2	1:K:104:LEU:HD12	1.91	0.51
1:K:234:LEU:HB3	1:K:292:MET:HE2	1.87	0.51
1:L:130:LYS:NZ	1:L:393:LEU:HD23	2.25	0.51
1:M:469:PRO:CD	1:M:472:VAL:HG11	2.40	0.51
1:O:108:GLU:C	1:O:110:LEU:N	2.67	0.51
1:P:97:VAL:O	1:P:100:ALA:HB3	2.11	0.51
1:A:35:VAL:HA	1:A:46:LYS:CE	2.41	0.51
1:A:296:ALA:HB1	1:A:301:ALA:O	2.10	0.51
1:A:493:VAL:HG13	1:B:47:MET:CE	2.24	0.51
1:B:170:LEU:O	1:B:174:ILE:HD13	2.11	0.51
1:B:223:MET:CE	1:B:283:ALA:HB3	2.41	0.51
1:D:42:LYS:CB	1:D:425:ASN:CB	2.86	0.51
1:D:124:TYR:CZ	1:D:407:ALA:HA	2.45	0.51
1:D:232:ILE:CG1	1:D:299:THR:HG21	2.41	0.51
1:E:96:ALA:C	1:E:480:ALA:CB	2.83	0.51
1:F:93:THR:O	1:F:97:VAL:HG23	2.10	0.51
1:F:461:MET:HG3	1:F:467:VAL:HG22	1.93	0.51
1:G:34:THR:CG2	1:G:35:VAL:N	2.70	0.51
1:G:234:LEU:HD12	1:G:301:ALA:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:116:HIS:CD2	1:H:117:PRO:HG2	2.46	0.51
1:J:85:GLN:OE1	1:J:475:GLN:HB3	2.10	0.51
1:J:299:THR:CG2	1:J:334:VAL:HG12	2.41	0.51
1:J:383:GLY:HA2	1:J:386:GLU:HG2	1.93	0.51
1:K:387:VAL:HG21	1:K:437:VAL:CG1	2.41	0.51
1:L:344:THR:HG22	1:L:345:MET:H	1.76	0.51
1:L:423:ALA:HB1	1:L:430:ALA:CB	2.40	0.51
1:O:190:LYS:NZ	1:O:367:GLY:CA	2.73	0.51
1:P:194:LYS:HG2	1:P:195:ILE:N	2.26	0.51
1:P:314:ASP:O	1:P:315:LEU:HD23	2.11	0.51
1:A:105:ARG:CZ	1:A:106:LYS:CG	2.89	0.51
1:A:156:THR:HG21	1:A:468:GLU:HG2	1.93	0.51
1:A:197:LYS:HB2	1:A:355:ILE:HD12	1.93	0.51
1:A:391:MET:CE	1:A:438:ARG:CG	2.84	0.51
1:A:485:GLU:O	1:A:489:ARG:HG3	2.10	0.51
1:B:170:LEU:HD21	1:B:358:VAL:HG11	1.92	0.51
1:C:100:ALA:CB	1:C:484:THR:HG21	2.33	0.51
1:E:42:LYS:CE	1:E:426:ALA:CA	2.89	0.51
1:E:134:LEU:HD11	1:E:393:LEU:HD21	1.92	0.51
1:E:346:LEU:HD21	1:E:348:ARG:HD3	1.93	0.51
1:G:406:LEU:CD1	1:P:431:ILE:CD1	2.84	0.51
1:I:152:LYS:NZ	1:I:462:CYS:HB3	2.26	0.51
1:I:166:ALA:HB2	1:I:203:ILE:CG2	2.41	0.51
1:J:106:LYS:HE3	1:J:109:GLU:CD	2.36	0.51
1:K:115:VAL:HG23	1:K:119:ILE:CB	2.35	0.51
1:K:197:LYS:CA	1:K:355:ILE:HD12	2.41	0.51
1:M:105:ARG:O	1:M:108:GLU:HB3	2.11	0.51
1:M:431:ILE:O	1:M:431:ILE:CG1	2.57	0.51
1:N:389:LEU:CD1	1:N:415:LEU:CD1	2.89	0.51
1:P:96:ALA:HB1	1:P:480:ALA:CB	2.40	0.51
1:P:105:ARG:NH1	1:P:106:LYS:CD	2.65	0.51
1:A:124:TYR:HD1	1:A:407:ALA:HB1	1.70	0.51
1:A:379:VAL:HG22	1:A:380:SER:N	2.26	0.51
1:A:493:VAL:CG1	1:B:47:MET:HE2	2.23	0.51
1:B:120:VAL:HG21	1:B:488:LEU:HD11	1.92	0.51
1:B:135:LEU:HD23	1:B:385:THR:HG21	1.93	0.51
1:D:42:LYS:CG	1:D:425:ASN:CB	2.86	0.51
1:E:209:ILE:HD11	1:E:213:LEU:HB2	1.91	0.51
1:E:227:VAL:HG11	1:E:260:ASN:HD21	1.71	0.51
1:E:233:ALA:HB2	1:E:315:LEU:HD11	1.93	0.51
1:F:356:GLU:O	1:F:359:ALA:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:124:TYR:CD1	1:G:407:ALA:HB1	2.46	0.51
1:G:418:ILE:CB	1:G:419:PRO:HD3	2.41	0.51
1:I:85:GLN:OE1	1:I:475:GLN:HB3	2.10	0.51
1:I:98:VAL:HG12	1:I:99:VAL:N	2.26	0.51
1:I:153:ILE:HD11	1:I:378:ILE:HB	1.90	0.51
1:I:394:ARG:NH2	1:I:413:ASP:CG	2.69	0.51
1:I:404:GLU:O	1:I:407:ALA:HB3	2.11	0.51
1:J:386:GLU:CD	1:J:386:GLU:N	2.66	0.51
1:K:77:MET:HE2	1:K:487:LEU:CD1	2.40	0.51
1:L:156:THR:HG21	1:L:468:GLU:CB	2.40	0.51
1:L:384:SER:HB3	1:L:441:HIS:CE1	2.45	0.51
1:N:42:LYS:HD2	1:O:118:THR:HG21	1.93	0.51
1:N:105:ARG:NH1	1:N:106:LYS:CD	2.74	0.51
1:N:115:VAL:HG11	1:N:119:ILE:HB	1.93	0.51
1:N:116:HIS:HE1	1:N:118:THR:OG1	1.94	0.51
1:N:212:VAL:CG2	1:N:294:LYS:O	2.59	0.51
1:N:391:MET:HE1	1:N:438:ARG:O	2.11	0.51
1:O:299:THR:CG2	1:O:334:VAL:CG1	2.78	0.51
1:O:403:ARG:CG	1:O:403:ARG:NH1	2.74	0.51
1:P:153:ILE:HG22	1:P:469:PRO:HG3	1.88	0.51
1:P:218:ARG:CZ	1:P:282:VAL:HG11	2.41	0.51
1:P:263:PHE:CG	1:P:295:LEU:HD13	2.46	0.51
1:C:123:GLY:C	1:C:124:TYR:HD1	2.17	0.51
1:C:150:LEU:CG	1:C:175:VAL:CG1	2.89	0.51
1:C:479:SER:O	1:C:483:SER:HB2	2.11	0.51
1:D:234:LEU:HD13	1:D:292:MET:HE3	1.93	0.51
1:E:105:ARG:NH1	1:E:106:LYS:HG3	2.26	0.51
1:F:178:VAL:HG23	1:F:178:VAL:O	2.11	0.51
1:F:234:LEU:HD11	1:F:301:ALA:CB	2.39	0.51
1:F:384:SER:OG	1:F:441:HIS:HE1	1.94	0.51
1:H:81:VAL:HG11	1:H:483:SER:OG	2.11	0.51
1:H:235:LEU:O	1:H:264:CYS:HA	2.10	0.51
1:J:174:ILE:HG22	1:J:362:VAL:HG21	1.92	0.51
1:M:346:LEU:CD2	1:M:348:ARG:HD3	2.41	0.51
1:M:469:PRO:CG	1:M:472:VAL:HG11	2.41	0.51
1:N:170:LEU:CD2	1:N:358:VAL:CG1	2.87	0.51
1:O:136:LYS:O	1:O:139:ALA:HB3	2.10	0.51
1:P:130:LYS:O	1:P:130:LYS:CD	2.57	0.51
1:A:239:ILE:HG22	1:A:267:GLY:O	2.11	0.51
1:B:30:ILE:HG22	1:B:31:ILE:CG1	2.41	0.51
1:B:105:ARG:CG	1:B:105:ARG:NH1	2.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:134:LEU:HD22	1:B:392:LYS:HZ1	1.74	0.51
1:C:368:VAL:CG2	1:C:469:PRO:HG3	2.41	0.51
1:D:391:MET:HE3	1:D:438:ARG:HG2	1.92	0.51
1:E:194:LYS:HB2	1:E:294:LYS:HD3	1.91	0.51
1:E:223:MET:HE2	1:E:283:ALA:CB	2.41	0.51
1:E:235:LEU:HD11	1:E:310:LEU:HB3	1.92	0.51
1:E:299:THR:HG21	1:E:334:VAL:CG1	2.41	0.51
1:F:178:VAL:HG12	1:F:193:ILE:CD1	2.41	0.51
1:F:212:VAL:CB	1:F:298:ALA:CB	2.89	0.51
1:G:106:LYS:NZ	1:G:109:GLU:CD	2.69	0.51
1:H:48:LEU:N	1:H:48:LEU:HD23	2.27	0.51
1:H:150:LEU:HD23	1:H:175:VAL:CG1	2.41	0.51
1:H:156:THR:CB	1:H:467:VAL:C	2.84	0.51
1:H:346:LEU:CD2	1:H:348:ARG:HD3	2.41	0.51
1:H:387:VAL:HG12	1:H:438:ARG:HG2	1.93	0.51
1:K:96:ALA:CA	1:K:480:ALA:HB2	2.40	0.51
1:K:310:LEU:HD21	1:K:315:LEU:HD21	1.92	0.51
1:L:491:ASP:CG	1:L:491:ASP:O	2.54	0.51
1:M:42:LYS:HG3	1:M:426:ALA:HB2	1.93	0.51
1:M:190:LYS:NZ	1:M:367:GLY:HA2	2.26	0.51
1:M:420:ARG:NH2	1:M:430:ALA:HB3	2.26	0.51
1:N:116:HIS:HB2	1:N:117:PRO:HD2	1.92	0.51
1:N:135:LEU:HD21	1:N:385:THR:HG21	1.91	0.51
1:N:138:ILE:CD1	1:N:379:VAL:HG21	2.41	0.51
1:N:369:VAL:O	1:N:373:ILE:HG13	2.10	0.51
1:O:351:THR:O	1:O:355:ILE:HG12	2.11	0.51
1:P:177:ALA:O	1:P:181:VAL:HG13	2.11	0.51
1:B:77:MET:HA	1:B:80:GLU:OE1	2.11	0.50
1:B:211:GLY:C	1:B:298:ALA:CB	2.84	0.50
1:B:379:VAL:HG22	1:B:380:SER:CB	2.41	0.50
1:B:387:VAL:O	1:B:391:MET:HG2	2.11	0.50
1:C:218:ARG:HH11	1:C:218:ARG:HG3	1.72	0.50
1:C:368:VAL:CB	1:C:469:PRO:HB3	2.39	0.50
1:D:39:LEU:HD12	1:D:40:GLY:H	1.76	0.50
1:D:291:ASP:O	1:D:295:LEU:HD12	2.11	0.50
1:D:423:ALA:O	1:D:428:LEU:HA	2.11	0.50
1:F:77:MET:HE1	1:F:487:LEU:HG	1.93	0.50
1:G:115:VAL:HG21	1:G:403:ARG:HD2	1.93	0.50
1:H:174:ILE:CG2	1:H:362:VAL:HB	2.41	0.50
1:I:193:ILE:HD12	1:I:366:VAL:HG11	1.93	0.50
1:J:47:MET:CE	1:K:493:VAL:HG13	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:257:SER:OG	1:J:312:ALA:HB2	2.11	0.50
1:J:263:PHE:CE2	1:J:295:LEU:HD21	2.47	0.50
1:J:263:PHE:HZ	1:J:332:ILE:HG21	1.76	0.50
1:J:276:LEU:HD12	1:J:281:ILE:CB	2.38	0.50
1:J:379:VAL:O	1:J:468:GLU:HG2	2.11	0.50
1:K:123:GLY:HA3	1:K:407:ALA:HB3	1.91	0.50
1:N:96:ALA:HA	1:N:480:ALA:CB	2.41	0.50
1:N:368:VAL:CG2	1:N:469:PRO:HG3	2.40	0.50
1:N:441:HIS:ND1	1:N:449:ALA:HB1	2.25	0.50
1:N:447:LYS:HA	1:N:448:CYS:SG	2.51	0.50
1:O:234:LEU:HD22	1:O:301:ALA:HB1	1.93	0.50
1:P:31:ILE:HG23	1:P:34:THR:OG1	2.10	0.50
1:A:135:LEU:CD2	1:A:138:ILE:HD11	2.40	0.50
1:A:158:ILE:HG12	1:A:361:ALA:CB	2.17	0.50
1:A:368:VAL:CG2	1:A:469:PRO:CG	2.88	0.50
1:F:345:MET:HE1	1:F:362:VAL:CB	2.42	0.50
1:G:459:GLU:HB2	1:G:461:MET:HE1	1.88	0.50
1:H:25:ILE:CG2	1:H:26:LEU:N	2.74	0.50
1:J:170:LEU:CD2	1:J:358:VAL:HG11	2.41	0.50
1:J:232:ILE:CG1	1:J:261:VAL:HG11	2.38	0.50
1:J:379:VAL:CG1	1:J:473:LYS:HG3	2.41	0.50
1:K:135:LEU:CD2	1:K:385:THR:HG21	2.38	0.50
1:K:150:LEU:HB3	1:K:175:VAL:CG2	2.41	0.50
1:L:82:ALA:CB	1:L:97:VAL:HG21	2.39	0.50
1:M:31:ILE:HG22	1:M:65:LEU:CD2	2.41	0.50
1:M:124:TYR:HE1	1:M:407:ALA:CB	2.20	0.50
1:M:296:ALA:HB2	1:M:301:ALA:HB3	1.91	0.50
1:M:364:ASP:O	1:M:368:VAL:HG22	2.12	0.50
1:N:346:LEU:HD23	1:N:347:ILE:N	2.26	0.50
1:N:380:SER:HB3	1:N:384:SER:CB	2.41	0.50
1:O:347:ILE:HD12	1:O:359:ALA:HB2	1.92	0.50
1:P:397:ALA:C	1:P:399:GLY:N	2.67	0.50
1:A:102:GLU:OE2	1:A:417:VAL:HB	2.11	0.50
1:A:138:ILE:HG13	1:A:379:VAL:HG21	1.91	0.50
1:A:232:ILE:O	1:A:315:LEU:HD12	2.11	0.50
1:B:197:LYS:CB	1:B:355:ILE:HD12	2.36	0.50
1:C:403:ARG:O	1:C:406:LEU:CD2	2.59	0.50
1:E:170:LEU:CD1	1:E:358:VAL:HG11	2.41	0.50
1:F:177:ALA:CB	1:F:208:LEU:HD11	2.14	0.50
1:G:130:LYS:HZ3	1:G:134:LEU:HD11	1.76	0.50
1:G:414:ALA:O	1:G:417:VAL:HG12	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:30:ILE:HG22	1:H:31:ILE:N	2.24	0.50
1:H:134:LEU:HD11	1:H:393:LEU:HD13	1.94	0.50
1:H:212:VAL:N	1:H:298:ALA:CB	2.74	0.50
1:H:459:GLU:CB	1:H:461:MET:CE	2.89	0.50
1:J:93:THR:O	1:J:97:VAL:HG13	2.12	0.50
1:J:234:LEU:HD13	1:J:296:ALA:HB2	1.94	0.50
1:K:403:ARG:NH1	1:K:403:ARG:HG2	2.14	0.50
1:M:384:SER:HB3	1:M:449:ALA:C	2.36	0.50
1:N:197:LYS:HA	1:N:355:ILE:CG2	2.39	0.50
1:N:377:ARG:CD	1:N:470:LEU:CD1	2.89	0.50
1:P:30:ILE:HG22	1:P:31:ILE:HD13	1.93	0.50
1:P:449:ALA:HB2	1:P:458:VAL:HG23	1.89	0.50
1:A:115:VAL:CG2	1:A:403:ARG:CZ	2.90	0.50
1:A:391:MET:HE2	1:A:438:ARG:HD2	1.93	0.50
1:B:115:VAL:CB	1:B:403:ARG:HE	2.24	0.50
1:B:177:ALA:HB2	1:B:208:LEU:CD1	2.41	0.50
1:B:223:MET:HE1	1:B:283:ALA:HB3	1.94	0.50
1:B:235:LEU:N	1:B:292:MET:HE1	2.26	0.50
1:C:134:LEU:HD22	1:C:392:LYS:NZ	2.26	0.50
1:C:469:PRO:O	1:C:469:PRO:CG	2.55	0.50
1:D:89:VAL:HG21	1:D:368:VAL:HG13	1.92	0.50
1:D:102:GLU:HA	1:D:102:GLU:OE1	2.12	0.50
1:D:158:ILE:HB	1:D:361:ALA:HB1	1.92	0.50
1:D:377:ARG:HB3	1:D:470:LEU:HG	1.93	0.50
1:D:491:ASP:CG	1:E:44:MET:HG3	2.37	0.50
1:E:123:GLY:CA	1:E:407:ALA:HB3	2.41	0.50
1:E:235:LEU:O	1:E:264:CYS:HA	2.11	0.50
1:F:122:LYS:HA	1:F:125:GLN:NE2	2.25	0.50
1:F:254:ILE:HG12	1:F:310:LEU:HD23	1.93	0.50
1:I:153:ILE:HD11	1:I:378:ILE:HG21	1.91	0.50
1:I:197:LYS:HB2	1:I:355:ILE:CG2	2.42	0.50
1:I:469:PRO:CG	1:I:472:VAL:CG1	2.84	0.50
1:J:158:ILE:HG12	1:J:361:ALA:CB	2.19	0.50
1:K:138:ILE:HD12	1:K:379:VAL:CG1	2.41	0.50
1:L:31:ILE:O	1:L:35:VAL:HG23	2.11	0.50
1:L:233:ALA:CA	1:L:315:LEU:HD13	2.41	0.50
1:M:16:MET:C	1:M:20:ALA:HB2	2.36	0.50
1:M:42:LYS:CD	1:M:426:ALA:HB2	2.41	0.50
1:M:105:ARG:HD2	1:M:106:LYS:HG2	1.93	0.50
1:O:31:ILE:CG2	1:O:65:LEU:HD21	2.42	0.50
1:O:173:ILE:CD1	1:O:206:THR:OG1	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:130:LYS:NZ	1:B:134:LEU:HD11	2.27	0.50
1:B:211:GLY:C	1:B:298:ALA:HB2	2.37	0.50
1:B:314:ASP:C	1:B:315:LEU:HD13	2.37	0.50
1:B:351:THR:CG2	1:B:352:GLU:N	2.66	0.50
1:B:431:ILE:HG21	1:K:403:ARG:HD3	1.93	0.50
1:D:268:ILE:CG2	1:D:273:GLN:HG3	2.42	0.50
1:E:102:GLU:OE1	1:E:102:GLU:HA	2.12	0.50
1:F:134:LEU:HD22	1:F:392:LYS:HE3	1.91	0.50
1:F:194:LYS:HG2	1:F:195:ILE:N	2.26	0.50
1:F:232:ILE:H	1:F:232:ILE:HD12	1.76	0.50
1:G:138:ILE:HD12	1:G:385:THR:OG1	2.10	0.50
1:G:235:LEU:HD21	1:G:310:LEU:HB2	1.85	0.50
1:H:130:LYS:HZ2	1:H:134:LEU:CD1	2.21	0.50
1:J:122:LYS:HG3	1:J:125:GLN:NE2	2.27	0.50
1:J:123:GLY:HA3	1:J:407:ALA:CB	2.41	0.50
1:K:31:ILE:CG2	1:K:65:LEU:CD1	2.88	0.50
1:K:43:GLY:O	1:K:44:MET:HE3	2.12	0.50
1:K:116:HIS:C	1:K:118:THR:H	2.20	0.50
1:L:135:LEU:HD21	1:L:477:ILE:HD12	1.93	0.50
1:M:233:ALA:CB	1:M:310:LEU:CD1	2.84	0.50
1:M:381:GLY:O	1:M:461:MET:HG3	2.11	0.50
1:N:97:VAL:O	1:N:100:ALA:HB3	2.10	0.50
1:O:152:LYS:HG3	1:O:465:GLY:O	2.10	0.50
1:O:211:GLY:C	1:O:298:ALA:HB1	2.36	0.50
1:O:347:ILE:HD13	1:O:358:VAL:C	2.36	0.50
1:P:119:ILE:CD1	1:P:403:ARG:HG3	2.41	0.50
1:P:383:GLY:CA	1:P:386:GLU:HG2	2.41	0.50
1:A:111:LEU:HD22	1:A:117:PRO:HB3	1.93	0.50
1:A:121:VAL:C	1:A:123:GLY:N	2.69	0.50
1:A:134:LEU:HD12	1:A:393:LEU:CD1	2.40	0.50
1:A:212:VAL:HB	1:A:298:ALA:HB2	1.94	0.50
1:A:251:VAL:HG13	1:A:276:LEU:HD13	1.90	0.50
1:B:102:GLU:OE1	1:B:102:GLU:HA	2.11	0.50
1:B:263:PHE:CZ	1:B:332:ILE:HG21	2.47	0.50
1:D:402:GLY:C	1:M:431:ILE:HD11	2.37	0.50
1:H:124:TYR:CE1	1:H:407:ALA:HB1	2.47	0.50
1:H:154:ALA:CB	1:H:174:ILE:CD1	2.69	0.50
1:I:89:VAL:CG2	1:I:472:VAL:HG12	2.35	0.50
1:I:96:ALA:HA	1:I:480:ALA:HB2	1.93	0.50
1:I:254:ILE:HG12	1:I:262:LEU:HD11	1.92	0.50
1:I:491:ASP:C	1:I:491:ASP:OD1	2.55	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:473:LYS:HZ3	1:K:473:LYS:CB	2.21	0.50
1:L:106:LYS:CA	1:L:106:LYS:CE	2.86	0.50
1:L:170:LEU:CD1	1:L:358:VAL:CG1	2.88	0.50
1:M:34:THR:CG2	1:M:35:VAL:N	2.72	0.50
1:M:254:ILE:HD13	1:M:276:LEU:HD11	1.93	0.50
1:N:34:THR:CB	1:O:14:ARG:HH22	2.24	0.50
1:N:234:LEU:HB3	1:N:292:MET:SD	2.52	0.50
1:O:262:LEU:HD12	1:O:310:LEU:HD11	1.93	0.50
1:O:403:ARG:CG	1:O:403:ARG:HH11	2.25	0.50
1:P:153:ILE:HD13	1:P:378:ILE:HG22	1.94	0.50
1:P:251:VAL:HG13	1:P:276:LEU:CG	2.42	0.50
1:A:134:LEU:HD13	1:A:393:LEU:HG	1.93	0.50
1:A:153:ILE:CD1	1:A:372:THR:HG21	2.42	0.50
1:B:42:LYS:O	1:B:425:ASN:HB3	2.11	0.50
1:B:59:ASN:O	1:B:64:ILE:HD11	2.12	0.50
1:B:130:LYS:HG2	1:B:130:LYS:O	2.12	0.50
1:B:134:LEU:HD12	1:B:393:LEU:CG	2.42	0.50
1:B:134:LEU:CD2	1:B:392:LYS:HZ1	2.24	0.50
1:D:223:MET:HB3	1:D:282:VAL:HA	1.94	0.50
1:D:377:ARG:HB3	1:D:470:LEU:HB2	1.94	0.50
1:E:254:ILE:HG22	1:E:281:ILE:HD11	1.89	0.50
1:E:459:GLU:HG2	1:E:461:MET:HE1	1.93	0.50
1:E:473:LYS:CB	1:E:473:LYS:HZ3	2.23	0.50
1:F:174:ILE:HG22	1:F:362:VAL:CG2	2.42	0.50
1:F:235:LEU:HD21	1:F:310:LEU:HD22	1.90	0.50
1:G:152:LYS:CD	1:G:465:GLY:HA3	2.40	0.50
1:G:254:ILE:HD12	1:G:276:LEU:HD13	1.93	0.50
1:G:418:ILE:O	1:G:422:LEU:HG	2.12	0.50
1:H:124:TYR:CD2	1:H:411:PHE:HD2	2.29	0.50
1:I:441:HIS:ND1	1:I:449:ALA:HA	2.26	0.50
1:J:102:GLU:OE2	1:J:417:VAL:HG11	2.11	0.50
1:J:212:VAL:HG21	1:J:294:LYS:HB3	1.93	0.50
1:J:372:THR:HG22	1:J:377:ARG:N	2.27	0.50
1:K:156:THR:HG21	1:K:468:GLU:HA	1.89	0.50
1:O:31:ILE:CG2	1:O:65:LEU:HG	2.42	0.50
1:O:152:LYS:HE3	1:O:462:CYS:C	2.36	0.50
1:A:223:MET:HE2	1:A:281:ILE:O	2.12	0.50
1:A:377:ARG:HG2	1:A:470:LEU:CD1	2.42	0.50
1:A:394:ARG:HH22	1:A:413:ASP:CG	2.20	0.50
1:D:92:GLY:HA2	1:D:95:THR:HB	1.93	0.50
1:D:431:ILE:CD1	1:M:403:ARG:CG	2.90	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:281:ILE:HG22	1:E:282:VAL:O	2.12	0.50
1:E:377:ARG:CZ	1:E:470:LEU:HD12	2.42	0.50
1:F:119:ILE:CG1	1:F:403:ARG:CD	2.64	0.50
1:F:232:ILE:HD12	1:F:232:ILE:N	2.26	0.50
1:G:96:ALA:CB	1:G:97:VAL:HG13	2.41	0.50
1:H:124:TYR:HE1	1:H:407:ALA:CB	2.25	0.50
1:I:154:ALA:O	1:I:158:ILE:HD12	2.12	0.50
1:J:129:GLN:O	1:J:132:GLN:HB2	2.12	0.50
1:K:99:VAL:O	1:K:103:LEU:HB2	2.11	0.50
1:K:379:VAL:CG1	1:K:380:SER:HB2	2.42	0.50
1:M:234:LEU:CB	1:M:292:MET:HE3	2.33	0.50
1:N:192:LEU:CB	1:N:342:ALA:CB	2.85	0.50
1:N:276:LEU:CD2	1:N:281:ILE:CG2	2.71	0.50
1:N:362:VAL:O	1:N:366:VAL:HG23	2.12	0.50
1:N:420:ARG:NH1	1:N:420:ARG:CG	2.62	0.50
1:O:62:VAL:O	1:O:66:ARG:HB2	2.11	0.50
1:O:235:LEU:HD12	1:O:262:LEU:HD11	1.94	0.50
1:O:469:PRO:O	1:O:472:VAL:HG13	2.12	0.50
1:P:208:LEU:HD22	1:P:343:VAL:CG2	2.41	0.50
1:B:98:VAL:C	1:B:100:ALA:H	2.20	0.50
1:B:276:LEU:HB3	1:B:281:ILE:CB	2.42	0.50
1:B:403:ARG:O	1:B:406:LEU:HD12	2.12	0.50
1:D:66:ARG:HA	1:D:79:ILE:CD1	2.41	0.50
1:D:81:VAL:HG21	1:D:483:SER:OG	2.11	0.50
1:D:173:ILE:HD13	1:D:206:THR:C	2.37	0.50
1:E:438:ARG:HH22	1:N:405:GLN:HE22	1.60	0.50
1:G:115:VAL:HG21	1:G:119:ILE:HG21	1.93	0.50
1:H:379:VAL:C	1:H:467:VAL:HG12	2.37	0.50
1:I:106:LYS:HA	1:I:109:GLU:HG3	1.93	0.50
1:I:254:ILE:HG12	1:I:262:LEU:CD1	2.42	0.50
1:K:21:GLN:O	1:K:25:ILE:HD12	2.12	0.50
1:K:105:ARG:HG2	1:K:106:LYS:N	2.26	0.50
1:K:130:LYS:HA	1:K:133:GLU:HG3	1.94	0.50
1:K:377:ARG:NE	1:K:470:LEU:HD12	2.26	0.50
1:M:47:MET:CE	1:N:493:VAL:HG13	2.42	0.50
1:M:471:ARG:O	1:M:475:GLN:HB2	2.12	0.50
1:A:42:LYS:CB	1:A:425:ASN:HD22	2.23	0.49
1:A:384:SER:CB	1:A:441:HIS:HE1	2.24	0.49
1:B:119:ILE:HD12	1:B:403:ARG:HA	1.94	0.49
1:B:206:THR:CG2	1:B:347:ILE:HG22	2.42	0.49
1:C:124:TYR:CE1	1:C:407:ALA:CB	2.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:156:THR:CG2	1:C:468:GLU:HA	2.37	0.49
1:C:191:ASP:O	1:C:294:LYS:HE3	2.11	0.49
1:C:196:GLU:OE2	1:C:197:LYS:HE2	2.12	0.49
1:C:377:ARG:CZ	1:C:470:LEU:CD1	2.90	0.49
1:D:135:LEU:HA	1:D:138:ILE:CD1	2.42	0.49
1:D:488:LEU:HD22	1:D:488:LEU:O	2.12	0.49
1:E:31:ILE:HG22	1:E:65:LEU:CD2	2.41	0.49
1:E:104:LEU:HD21	1:E:484:THR:O	2.12	0.49
1:F:232:ILE:HG12	1:F:299:THR:CG2	2.23	0.49
1:F:234:LEU:N	1:F:315:LEU:HD11	2.25	0.49
1:F:380:SER:HB2	1:F:384:SER:HB2	1.94	0.49
1:G:235:LEU:HD23	1:G:310:LEU:CD2	2.42	0.49
1:I:35:VAL:HG11	1:I:64:ILE:CG2	2.42	0.49
1:J:232:ILE:C	1:J:315:LEU:HD22	2.36	0.49
1:K:140:CYS:SG	1:K:378:ILE:HD11	2.52	0.49
1:L:100:ALA:HB2	1:L:484:THR:HG21	1.87	0.49
1:L:124:TYR:CE1	1:L:407:ALA:CA	2.89	0.49
1:L:227:VAL:CG1	1:L:260:ASN:ND2	2.74	0.49
1:L:358:VAL:O	1:L:362:VAL:HG12	2.12	0.49
1:M:174:ILE:HG22	1:M:362:VAL:HG23	1.93	0.49
1:M:235:LEU:HD23	1:M:310:LEU:HD23	1.93	0.49
1:M:389:LEU:CD1	1:M:415:LEU:CD1	2.90	0.49
1:N:254:ILE:HG22	1:N:281:ILE:CD1	2.40	0.49
1:O:420:ARG:NH1	1:O:420:ARG:CG	2.75	0.49
1:D:384:SER:OG	1:D:441:HIS:HE1	1.93	0.49
1:E:14:ARG:HH22	1:F:34:THR:CG2	2.21	0.49
1:E:134:LEU:CB	1:E:392:LYS:HE3	2.42	0.49
1:E:153:ILE:HD13	1:E:372:THR:HG21	1.93	0.49
1:F:212:VAL:N	1:F:298:ALA:CB	2.75	0.49
1:G:223:MET:SD	1:G:282:VAL:HA	2.52	0.49
1:H:351:THR:O	1:H:355:ILE:HG13	2.12	0.49
1:I:197:LYS:HB2	1:I:355:ILE:HG21	1.90	0.49
1:J:120:VAL:HG11	1:J:488:LEU:HD11	1.94	0.49
1:J:142:VAL:CG2	1:J:378:ILE:CD1	2.91	0.49
1:J:197:LYS:CA	1:J:355:ILE:CG2	2.90	0.49
1:J:394:ARG:HH22	1:J:413:ASP:CG	2.19	0.49
1:K:400:ILE:HD11	1:K:408:VAL:CG1	2.42	0.49
1:N:190:LYS:HZ3	1:N:367:GLY:CA	2.25	0.49
1:N:397:ALA:HB2	1:N:408:VAL:HG23	1.93	0.49
1:N:459:GLU:CG	1:N:461:MET:HE3	2.42	0.49
1:O:218:ARG:HG2	1:O:218:ARG:HH11	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:213:LEU:HD11	1:P:346:LEU:HD12	1.94	0.49
1:A:209:ILE:C	1:A:211:GLY:H	2.20	0.49
1:A:257:SER:O	1:A:312:ALA:HB2	2.13	0.49
1:A:351:THR:O	1:A:355:ILE:HG13	2.13	0.49
1:B:31:ILE:CG2	1:B:65:LEU:HD21	2.40	0.49
1:B:197:LYS:H	1:B:197:LYS:HE2	1.77	0.49
1:B:287:VAL:CG1	1:B:291:ASP:HB2	2.42	0.49
1:F:218:ARG:NH1	1:F:282:VAL:HG21	2.27	0.49
1:F:233:ALA:CA	1:F:315:LEU:CD2	2.77	0.49
1:H:251:VAL:CG1	1:H:276:LEU:HG	2.41	0.49
1:I:379:VAL:CG2	1:I:380:SER:HA	2.26	0.49
1:J:173:ILE:HD12	1:J:345:MET:HG2	1.94	0.49
1:K:134:LEU:CD1	1:K:393:LEU:CD2	2.89	0.49
1:K:197:LYS:CB	1:K:355:ILE:CG2	2.90	0.49
1:L:209:ILE:C	1:L:211:GLY:H	2.19	0.49
1:M:81:VAL:HG11	1:M:483:SER:CB	2.42	0.49
1:M:115:VAL:HG23	1:M:116:HIS:O	2.12	0.49
1:M:212:VAL:HG21	1:M:294:LYS:HB3	1.93	0.49
1:O:85:GLN:OE1	1:O:476:ALA:HA	2.12	0.49
1:O:197:LYS:CA	1:O:355:ILE:HG21	2.42	0.49
1:P:34:THR:HG22	1:P:35:VAL:CG1	2.43	0.49
1:P:43:GLY:O	1:P:44:MET:CE	2.60	0.49
1:A:77:MET:CB	1:A:80:GLU:OE1	2.60	0.49
1:A:116:HIS:ND1	1:A:117:PRO:HD2	2.27	0.49
1:A:371:CYS:HA	1:A:471:ARG:NH1	2.27	0.49
1:A:431:ILE:O	1:A:431:ILE:HG12	2.11	0.49
1:B:15:TYR:C	1:B:20:ALA:HB2	2.38	0.49
1:B:135:LEU:CD2	1:B:385:THR:CG2	2.90	0.49
1:B:166:ALA:O	1:B:170:LEU:HG	2.13	0.49
1:B:233:ALA:HA	1:B:315:LEU:CG	2.42	0.49
1:B:379:VAL:HG22	1:B:380:SER:CA	2.42	0.49
1:B:431:ILE:CD1	1:K:406:LEU:CD1	2.76	0.49
1:C:459:GLU:CD	1:C:461:MET:HE1	2.37	0.49
1:D:254:ILE:CD1	1:D:262:LEU:HD11	2.41	0.49
1:E:158:ILE:CD1	1:E:361:ALA:HB1	2.42	0.49
1:E:173:ILE:HD12	1:E:345:MET:CG	2.42	0.49
1:F:81:VAL:HG11	1:F:483:SER:HB3	1.94	0.49
1:F:107:ALA:O	1:F:111:LEU:HG	2.11	0.49
1:F:351:THR:O	1:F:355:ILE:HG13	2.12	0.49
1:G:195:ILE:HB	1:G:359:ALA:HB3	1.94	0.49
1:G:403:ARG:CG	1:G:403:ARG:NH1	2.72	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:156:THR:HG21	1:H:468:GLU:N	2.27	0.49
1:I:233:ALA:HB1	1:I:310:LEU:HD21	1.94	0.49
1:K:138:ILE:CD1	1:K:379:VAL:CG1	2.90	0.49
1:L:194:LYS:HG2	1:L:195:ILE:N	2.27	0.49
1:L:423:ALA:HB1	1:L:430:ALA:HB2	1.94	0.49
1:M:124:TYR:HD2	1:M:411:PHE:HD2	1.58	0.49
1:M:218:ARG:NH1	1:M:282:VAL:HB	2.28	0.49
1:N:190:LYS:NZ	1:N:367:GLY:HA2	2.27	0.49
1:N:486:MET:C	1:N:488:LEU:H	2.21	0.49
1:O:27:ALA:O	1:O:30:ILE:HD12	2.12	0.49
1:O:197:LYS:HA	1:O:355:ILE:HG21	1.95	0.49
1:O:251:VAL:HG21	1:O:272:ALA:HB1	1.93	0.49
1:P:85:GLN:NE2	1:P:475:GLN:CB	2.69	0.49
1:P:170:LEU:HD12	1:P:358:VAL:CG1	2.42	0.49
1:P:211:GLY:C	1:P:298:ALA:HB2	2.38	0.49
1:P:389:LEU:HD12	1:P:415:LEU:HD13	1.93	0.49
1:A:170:LEU:CD1	1:A:358:VAL:HG11	2.42	0.49
1:A:218:ARG:HH22	1:A:321:VAL:HG12	1.78	0.49
1:B:22:ARG:O	1:B:22:ARG:HG2	2.12	0.49
1:B:393:LEU:HA	1:B:396:TYR:HB3	1.95	0.49
1:C:107:ALA:O	1:C:111:LEU:HG	2.12	0.49
1:D:345:MET:CE	1:D:362:VAL:HG11	2.42	0.49
1:E:134:LEU:HD12	1:E:393:LEU:CD1	2.42	0.49
1:E:191:ASP:O	1:E:294:LYS:HE3	2.12	0.49
1:E:212:VAL:HG22	1:E:344:THR:OG1	2.12	0.49
1:E:218:ARG:CD	1:E:282:VAL:CG2	2.90	0.49
1:F:38:THR:CG2	1:F:46:LYS:HD2	2.42	0.49
1:G:102:GLU:OE1	1:G:102:GLU:HA	2.12	0.49
1:G:223:MET:HG2	1:G:281:ILE:C	2.37	0.49
1:I:152:LYS:HZ2	1:I:462:CYS:HB3	1.76	0.49
1:I:197:LYS:C	1:I:355:ILE:HD13	2.38	0.49
1:I:234:LEU:HD22	1:I:301:ALA:HB3	1.93	0.49
1:J:138:ILE:HD12	1:J:139:ALA:N	2.27	0.49
1:J:178:VAL:HG22	1:J:193:ILE:HD11	1.94	0.49
1:J:383:GLY:HA2	1:J:386:GLU:CG	2.42	0.49
1:K:130:LYS:C	1:K:132:GLN:N	2.67	0.49
1:L:135:LEU:HD13	1:L:385:THR:CG2	2.43	0.49
1:L:209:ILE:CD1	1:L:213:LEU:HB2	2.39	0.49
1:M:404:GLU:O	1:M:408:VAL:HG13	2.12	0.49
1:O:48:LEU:C	1:O:56:VAL:HG22	2.37	0.49
1:O:130:LYS:HZ3	1:O:393:LEU:HD23	1.70	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:92:GLY:O	1:A:96:ALA:CB	2.61	0.49
1:A:124:TYR:CE1	1:A:407:ALA:HA	2.40	0.49
1:A:211:GLY:HA3	1:A:334:VAL:O	2.11	0.49
1:C:17:GLY:C	1:C:21:GLN:CD	2.80	0.49
1:C:254:ILE:HG22	1:C:281:ILE:HD13	1.93	0.49
1:D:25:ILE:HG22	1:D:26:LEU:H	1.75	0.49
1:D:108:GLU:C	1:D:110:LEU:N	2.69	0.49
1:D:156:THR:CB	1:D:467:VAL:C	2.86	0.49
1:E:234:LEU:C	1:E:310:LEU:HD12	2.38	0.49
1:E:251:VAL:CG1	1:E:276:LEU:HD22	2.42	0.49
1:E:377:ARG:NE	1:E:470:LEU:HD12	2.28	0.49
1:E:446:ASN:C	1:E:448:CYS:H	2.20	0.49
1:F:296:ALA:HA	1:F:301:ALA:HB3	1.95	0.49
1:G:42:LYS:HE3	1:G:426:ALA:HB2	1.95	0.49
1:H:130:LYS:HD2	1:H:396:TYR:CD1	2.48	0.49
1:I:35:VAL:HG11	1:I:64:ILE:HG21	1.93	0.49
1:I:105:ARG:NH1	1:I:106:LYS:CG	2.73	0.49
1:I:105:ARG:HD3	1:I:106:LYS:HG2	1.95	0.49
1:I:130:LYS:HE2	1:I:134:LEU:HD11	1.95	0.49
1:J:78:LEU:HD23	1:J:78:LEU:C	2.37	0.49
1:J:130:LYS:HZ1	1:J:396:TYR:HB2	1.78	0.49
1:J:191:ASP:C	1:J:193:ILE:N	2.70	0.49
1:K:14:ARG:HD2	1:K:494:ILE:HD11	1.92	0.49
1:K:170:LEU:HD11	1:K:358:VAL:HG22	1.94	0.49
1:L:30:ILE:CG2	1:L:31:ILE:N	2.66	0.49
1:L:156:THR:HG21	1:L:468:GLU:N	2.28	0.49
1:M:29:ARG:O	1:M:33:GLU:HG3	2.12	0.49
1:N:377:ARG:NH1	1:N:470:LEU:HD12	2.27	0.49
1:N:384:SER:CA	1:N:441:HIS:HE1	2.25	0.49
1:A:30:ILE:HA	1:A:33:GLU:OE1	2.12	0.49
1:A:135:LEU:CG	1:A:138:ILE:CD1	2.89	0.49
1:A:414:ALA:O	1:A:417:VAL:HG12	2.11	0.49
1:C:106:LYS:HE3	1:C:106:LYS:HA	1.94	0.49
1:D:38:THR:CG2	1:D:59:ASN:HD22	2.24	0.49
1:D:193:ILE:HG13	1:D:366:VAL:HG11	1.94	0.49
1:D:386:GLU:HG3	1:D:419:PRO:CG	2.43	0.49
1:H:276:LEU:CD2	1:H:281:ILE:CD1	2.79	0.49
1:H:391:MET:CE	1:H:438:ARG:HG2	2.43	0.49
1:J:43:GLY:C	1:J:44:MET:HE3	2.38	0.49
1:J:97:VAL:O	1:J:100:ALA:HB3	2.12	0.49
1:J:124:TYR:CE1	1:J:407:ALA:O	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:233:ALA:CB	1:J:315:LEU:HD13	2.42	0.49
1:K:235:LEU:HD11	1:K:310:LEU:CB	2.39	0.49
1:L:124:TYR:CE1	1:L:407:ALA:O	2.65	0.49
1:N:447:LYS:O	1:N:448:CYS:CB	2.58	0.49
1:P:232:ILE:H	1:P:232:ILE:CD1	2.25	0.49
1:A:211:GLY:C	1:A:298:ALA:HB1	2.37	0.49
1:B:235:LEU:HB2	1:B:310:LEU:CD2	2.32	0.49
1:C:97:VAL:O	1:C:100:ALA:HB3	2.12	0.49
1:C:120:VAL:O	1:C:124:TYR:CD1	2.65	0.49
1:C:124:TYR:CE1	1:C:407:ALA:HA	2.44	0.49
1:C:140:CYS:HB2	1:C:446:ASN:OD1	2.13	0.49
1:C:377:ARG:CB	1:C:470:LEU:HD12	2.40	0.49
1:C:394:ARG:HH22	1:C:413:ASP:CG	2.21	0.49
1:D:195:ILE:CB	1:D:359:ALA:HB1	2.43	0.49
1:D:212:VAL:HG21	1:D:294:LYS:HB3	1.95	0.49
1:F:263:PHE:HZ	1:F:332:ILE:HG21	1.76	0.49
1:G:387:VAL:HA	1:G:390:SER:HB3	1.95	0.49
1:G:431:ILE:CD1	1:P:403:ARG:HA	2.42	0.49
1:H:78:LEU:HD11	1:H:484:THR:HG21	1.95	0.49
1:H:104:LEU:HD21	1:H:484:THR:HB	1.94	0.49
1:H:174:ILE:HD12	1:H:365:ALA:CB	2.37	0.49
1:I:95:THR:HG22	1:I:96:ALA:N	2.27	0.49
1:I:120:VAL:HG13	1:I:121:VAL:N	2.26	0.49
1:I:130:LYS:CE	1:I:134:LEU:HD11	2.42	0.49
1:I:387:VAL:HG21	1:I:437:VAL:HG12	1.95	0.49
1:I:467:VAL:CG2	1:I:468:GLU:N	2.74	0.49
1:K:25:ILE:CD1	1:K:108:GLU:HG3	2.42	0.49
1:K:38:THR:HG21	1:K:46:LYS:HD2	1.95	0.49
1:K:311:SER:C	1:K:315:LEU:HD22	2.37	0.49
1:M:42:LYS:CE	1:M:426:ALA:HA	2.43	0.49
1:M:391:MET:CE	1:M:438:ARG:HB3	2.40	0.49
1:N:130:LYS:HZ1	1:N:134:LEU:HD11	1.76	0.49
1:N:372:THR:HG23	1:N:377:ARG:O	2.12	0.49
1:O:393:LEU:HA	1:O:396:TYR:HB3	1.95	0.49
1:P:96:ALA:HA	1:P:480:ALA:HB1	1.95	0.49
1:A:431:ILE:CG2	1:J:403:ARG:HD3	2.43	0.49
1:B:178:VAL:HG23	1:B:366:VAL:HG22	1.89	0.49
1:B:197:LYS:CB	1:B:355:ILE:HG21	2.43	0.49
1:C:64:ILE:O	1:C:68:MET:HB2	2.13	0.49
1:C:150:LEU:CB	1:C:175:VAL:CG1	2.86	0.49
1:C:158:ILE:HD13	1:C:170:LEU:CG	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:212:VAL:HA	1:C:344:THR:OG1	2.13	0.49
1:C:441:HIS:CG	1:C:449:ALA:HB3	2.47	0.49
1:D:36:ARG:HG3	1:D:37:SER:H	1.78	0.49
1:D:254:ILE:HG22	1:D:259:ALA:HB3	1.95	0.49
1:D:276:LEU:CD1	1:D:281:ILE:HD12	2.41	0.49
1:G:491:ASP:OD1	1:H:44:MET:HB3	2.13	0.49
1:H:391:MET:HE2	1:H:438:ARG:CG	2.43	0.49
1:J:211:GLY:C	1:J:298:ALA:CB	2.86	0.49
1:K:416:GLU:O	1:K:417:VAL:HG13	2.12	0.49
1:N:139:ALA:CB	1:N:377:ARG:CG	2.91	0.49
1:O:134:LEU:CD1	1:O:393:LEU:CG	2.91	0.49
1:O:171:ALA:C	1:O:174:ILE:HG12	2.38	0.49
1:O:232:ILE:CG1	1:O:299:THR:HG21	2.43	0.49
1:O:299:THR:CG2	1:O:334:VAL:HG11	2.36	0.49
1:A:72:HIS:CD2	1:A:73:PRO:HD2	2.43	0.49
1:A:152:LYS:HZ2	1:A:465:GLY:HA2	1.78	0.49
1:A:368:VAL:HB	1:A:469:PRO:HG2	1.93	0.49
1:A:418:ILE:HB	1:A:419:PRO:HD3	1.94	0.49
1:B:115:VAL:CB	1:B:403:ARG:NE	2.76	0.49
1:C:84:THR:O	1:C:84:THR:HG22	2.12	0.49
1:C:119:ILE:CG2	1:C:403:ARG:CD	2.89	0.49
1:D:14:ARG:HH22	1:E:34:THR:CG2	2.26	0.49
1:D:346:LEU:HD22	1:D:348:ARG:HD3	1.94	0.49
1:D:406:LEU:CD1	1:M:431:ILE:HD12	2.42	0.49
1:D:438:ARG:HH12	1:M:405:GLN:HE22	1.61	0.49
1:E:134:LEU:HD13	1:E:392:LYS:HB3	1.93	0.49
1:E:170:LEU:HD11	1:E:358:VAL:HG11	1.95	0.49
1:F:234:LEU:N	1:F:315:LEU:CD2	2.76	0.49
1:G:135:LEU:HD11	1:G:389:LEU:HD21	1.95	0.49
1:H:66:ARG:N	1:H:79:ILE:HD13	2.27	0.49
1:H:79:ILE:O	1:H:83:LYS:HB2	2.13	0.49
1:J:17:GLY:O	1:J:21:GLN:HG3	2.13	0.49
1:J:130:LYS:HG2	1:J:393:LEU:CD2	2.43	0.49
1:J:379:VAL:HG11	1:J:473:LYS:HG3	1.94	0.49
1:J:393:LEU:O	1:J:396:TYR:HB3	2.12	0.49
1:K:121:VAL:O	1:K:125:GLN:HG2	2.13	0.49
1:K:153:ILE:CG2	1:K:469:PRO:HG3	2.43	0.49
1:K:377:ARG:C	1:K:378:ILE:CG2	2.86	0.49
1:L:124:TYR:HD1	1:L:124:TYR:N	2.10	0.49
1:L:140:CYS:SG	1:L:447:LYS:CB	2.99	0.49
1:P:100:ALA:HB1	1:P:484:THR:CB	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:267:GLY:C	1:P:268:ILE:HG12	2.37	0.49
1:A:92:GLY:O	1:A:96:ALA:HB3	2.13	0.48
1:C:42:LYS:HG3	1:C:425:ASN:CB	2.41	0.48
1:C:82:ALA:HB1	1:C:93:THR:CG2	2.43	0.48
1:C:233:ALA:C	1:C:315:LEU:HD22	2.38	0.48
1:D:42:LYS:CE	1:D:426:ALA:CA	2.88	0.48
1:D:232:ILE:H	1:D:232:ILE:HD12	1.78	0.48
1:E:206:THR:HG21	1:E:347:ILE:HG23	1.93	0.48
1:F:234:LEU:CD1	1:F:301:ALA:HB3	2.43	0.48
1:F:365:ALA:O	1:F:369:VAL:HG23	2.13	0.48
1:F:414:ALA:O	1:F:417:VAL:HG23	2.13	0.48
1:G:124:TYR:CE1	1:G:407:ALA:C	2.90	0.48
1:G:130:LYS:HZ1	1:G:134:LEU:HD21	1.76	0.48
1:H:134:LEU:HB3	1:H:392:LYS:HZ1	1.78	0.48
1:H:211:GLY:O	1:H:212:VAL:HG23	2.12	0.48
1:H:420:ARG:O	1:H:423:ALA:HB3	2.13	0.48
1:I:190:LYS:HZ1	1:I:367:GLY:HA2	1.78	0.48
1:I:381:GLY:O	1:I:382:GLY:C	2.56	0.48
1:K:233:ALA:CA	1:K:315:LEU:HD21	2.43	0.48
1:L:130:LYS:CE	1:L:396:TYR:CD1	2.95	0.48
1:L:263:PHE:CE2	1:L:295:LEU:CD2	2.96	0.48
1:M:223:MET:HB3	1:M:282:VAL:HG12	1.95	0.48
1:M:384:SER:HB3	1:M:441:HIS:CE1	2.47	0.48
1:N:77:MET:HB2	1:N:487:LEU:HD22	1.93	0.48
1:N:124:TYR:CE1	1:N:407:ALA:O	2.66	0.48
1:O:345:MET:CE	1:O:362:VAL:HG11	2.42	0.48
1:P:211:GLY:O	1:P:212:VAL:HG23	2.13	0.48
1:P:234:LEU:N	1:P:315:LEU:HD21	2.27	0.48
1:P:251:VAL:HG13	1:P:276:LEU:CD2	2.44	0.48
1:P:345:MET:HE1	1:P:362:VAL:HG21	1.95	0.48
1:B:38:THR:HG21	1:B:46:LYS:CE	2.42	0.48
1:B:193:ILE:HD12	1:B:366:VAL:HG21	1.94	0.48
1:B:391:MET:CE	1:B:438:ARG:CA	2.91	0.48
1:C:232:ILE:HG13	1:C:261:VAL:HG11	1.96	0.48
1:D:77:MET:CB	1:D:487:LEU:CD2	2.84	0.48
1:D:85:GLN:OE1	1:D:476:ALA:HA	2.13	0.48
1:E:195:ILE:HB	1:E:359:ALA:CB	2.43	0.48
1:E:347:ILE:HG21	1:E:358:VAL:HG12	1.94	0.48
1:F:155:MET:HB2	1:F:167:LYS:HD3	1.95	0.48
1:F:391:MET:HE3	1:F:438:ARG:CB	2.43	0.48
1:G:227:VAL:HG11	1:G:260:ASN:HD21	1.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:403:ARG:HB3	1:P:431:ILE:HD12	1.95	0.48
1:H:391:MET:HE1	1:H:438:ARG:O	2.13	0.48
1:I:73:PRO:HB3	1:P:55:VAL:HG11	1.95	0.48
1:J:135:LEU:HD11	1:J:385:THR:HG21	1.94	0.48
1:K:55:VAL:HG23	1:K:55:VAL:O	2.14	0.48
1:K:154:ALA:HB1	1:K:171:ALA:HB1	1.96	0.48
1:K:299:THR:HG23	1:K:334:VAL:CG1	2.36	0.48
1:L:223:MET:HB3	1:L:282:VAL:HA	1.95	0.48
1:L:257:SER:O	1:L:312:ALA:HB2	2.13	0.48
1:N:42:LYS:CE	1:O:118:THR:CG2	2.91	0.48
1:N:254:ILE:HD13	1:N:262:LEU:HD13	1.92	0.48
1:O:140:CYS:HB3	1:O:446:ASN:CG	2.37	0.48
1:A:103:LEU:CD2	1:A:411:PHE:CE2	2.92	0.48
1:A:177:ALA:O	1:A:181:VAL:HG13	2.13	0.48
1:B:255:LYS:O	1:B:255:LYS:HG3	2.12	0.48
1:C:235:LEU:N	1:C:292:MET:HE1	2.29	0.48
1:C:263:PHE:HE1	1:C:332:ILE:HG21	1.77	0.48
1:C:268:ILE:HB	1:C:273:GLN:NE2	2.28	0.48
1:E:177:ALA:O	1:E:193:ILE:HD11	2.14	0.48
1:E:233:ALA:CA	1:E:315:LEU:HD22	2.43	0.48
1:E:347:ILE:HG21	1:E:358:VAL:HG11	1.94	0.48
1:F:77:MET:HE2	1:F:487:LEU:HD11	1.95	0.48
1:F:170:LEU:CD2	1:F:358:VAL:HG22	2.29	0.48
1:G:93:THR:O	1:G:97:VAL:HG22	2.13	0.48
1:G:103:LEU:HD21	1:G:411:PHE:HD2	1.62	0.48
1:H:106:LYS:HA	1:H:106:LYS:HE3	1.95	0.48
1:H:211:GLY:C	1:H:298:ALA:CB	2.86	0.48
1:H:254:ILE:CD1	1:H:262:LEU:CD1	2.86	0.48
1:H:402:GLY:O	1:I:431:ILE:HD11	2.13	0.48
1:J:391:MET:CE	1:J:438:ARG:NE	2.76	0.48
1:K:152:LYS:NZ	1:K:462:CYS:CA	2.77	0.48
1:K:154:ALA:CB	1:K:171:ALA:CB	2.91	0.48
1:L:166:ALA:HB1	1:L:203:ILE:O	2.12	0.48
1:M:206:THR:HG21	1:M:347:ILE:CG2	2.38	0.48
1:O:219:VAL:HG21	1:O:268:ILE:CG1	2.41	0.48
1:P:403:ARG:CG	1:P:403:ARG:NH1	2.68	0.48
1:A:42:LYS:HG3	1:A:426:ALA:CB	2.40	0.48
1:A:120:VAL:CG1	1:A:121:VAL:N	2.77	0.48
1:A:153:ILE:CG2	1:A:469:PRO:N	2.77	0.48
1:B:115:VAL:HG23	1:B:116:HIS:O	2.13	0.48
1:C:156:THR:CG2	1:C:468:GLU:HB3	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:171:ALA:O	1:C:175:VAL:HG23	2.14	0.48
1:C:386:GLU:HB2	1:C:419:PRO:HG2	1.95	0.48
1:D:24:ASN:O	1:D:27:ALA:HA	2.14	0.48
1:E:459:GLU:CB	1:E:461:MET:HE2	2.43	0.48
1:F:105:ARG:NH1	1:F:106:LYS:HD2	2.28	0.48
1:G:130:LYS:O	1:G:130:LYS:HG3	2.12	0.48
1:G:223:MET:HB3	1:G:282:VAL:HG12	1.96	0.48
1:H:31:ILE:HG21	1:H:65:LEU:CD2	2.43	0.48
1:I:310:LEU:HG	1:I:315:LEU:HD11	1.96	0.48
1:K:14:ARG:CG	1:K:494:ILE:HG12	2.42	0.48
1:K:132:GLN:HE21	1:K:132:GLN:CA	2.03	0.48
1:K:134:LEU:HD12	1:K:393:LEU:CD2	2.44	0.48
1:K:134:LEU:HD13	1:K:393:LEU:HG	1.95	0.48
1:K:368:VAL:CB	1:K:469:PRO:CG	2.79	0.48
1:N:403:ARG:HA	1:N:406:LEU:HD12	1.95	0.48
1:O:420:ARG:HH11	1:O:420:ARG:CG	2.17	0.48
1:P:377:ARG:HG2	1:P:470:LEU:CD1	2.43	0.48
1:B:100:ALA:HB1	1:B:484:THR:HG23	1.89	0.48
1:B:116:HIS:CD2	1:C:425:ASN:O	2.66	0.48
1:C:42:LYS:HB2	1:C:425:ASN:HB2	1.87	0.48
1:C:85:GLN:OE1	1:C:476:ALA:HA	2.13	0.48
1:C:102:GLU:OE2	1:C:417:VAL:HB	2.14	0.48
1:C:232:ILE:HG13	1:C:261:VAL:CG1	2.43	0.48
1:D:396:TYR:O	1:D:396:TYR:CD2	2.66	0.48
1:D:491:ASP:OD1	1:E:44:MET:CB	2.61	0.48
1:E:380:SER:N	1:E:467:VAL:HG13	2.29	0.48
1:G:115:VAL:HG21	1:G:119:ILE:HG13	1.95	0.48
1:G:135:LEU:HA	1:G:138:ILE:HD11	1.95	0.48
1:G:152:LYS:HE3	1:G:465:GLY:CA	2.43	0.48
1:G:391:MET:CE	1:G:438:ARG:HB3	2.40	0.48
1:G:418:ILE:CB	1:G:419:PRO:CD	2.90	0.48
1:H:130:LYS:CD	1:H:396:TYR:CG	2.97	0.48
1:I:89:VAL:HG11	1:I:472:VAL:CA	2.37	0.48
1:I:135:LEU:HD11	1:I:385:THR:HG21	1.95	0.48
1:I:254:ILE:HG21	1:I:262:LEU:HD13	1.95	0.48
1:I:254:ILE:CG2	1:I:281:ILE:CD1	2.91	0.48
1:J:42:LYS:HG3	1:J:426:ALA:N	2.29	0.48
1:J:251:VAL:HG13	1:J:276:LEU:HD22	1.95	0.48
1:K:45:ASP:C	1:K:46:LYS:HG3	2.39	0.48
1:K:379:VAL:HB	1:K:380:SER:HB2	1.95	0.48
1:N:101:GLY:HA2	1:N:104:LEU:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:95:THR:C	1:O:97:VAL:N	2.70	0.48
1:O:106:LYS:CE	1:O:109:GLU:CD	2.87	0.48
1:O:254:ILE:CD1	1:O:276:LEU:CD1	2.84	0.48
1:O:386:GLU:O	1:O:389:LEU:HB2	2.13	0.48
1:P:346:LEU:HD23	1:P:348:ARG:HG2	1.95	0.48
1:A:104:LEU:HD23	1:A:488:LEU:HD13	1.92	0.48
1:B:115:VAL:HB	1:B:403:ARG:HE	1.75	0.48
1:C:37:SER:O	1:C:43:GLY:HA2	2.13	0.48
1:C:89:VAL:HG21	1:C:472:VAL:CG1	2.36	0.48
1:C:121:VAL:HG13	1:C:488:LEU:CD2	2.44	0.48
1:C:193:ILE:HD12	1:C:366:VAL:HG11	1.96	0.48
1:C:406:LEU:CD1	1:C:406:LEU:N	2.76	0.48
1:D:369:VAL:O	1:D:369:VAL:HG23	2.14	0.48
1:E:493:VAL:HG21	1:F:47:MET:HE2	1.95	0.48
1:F:369:VAL:O	1:F:369:VAL:HG12	2.12	0.48
1:G:15:TYR:C	1:G:20:ALA:HB2	2.38	0.48
1:G:36:ARG:CA	1:G:37:SER:HB2	2.44	0.48
1:G:152:LYS:HG2	1:G:465:GLY:C	2.38	0.48
1:G:173:ILE:HD13	1:G:206:THR:OG1	2.13	0.48
1:G:263:PHE:CD2	1:G:295:LEU:HD22	2.48	0.48
1:G:368:VAL:HG21	1:G:469:PRO:HG2	1.92	0.48
1:H:36:ARG:HG3	1:H:37:SER:H	1.78	0.48
1:H:254:ILE:CG2	1:H:259:ALA:HB3	2.43	0.48
1:K:190:LYS:HZ2	1:K:367:GLY:HA2	1.79	0.48
1:L:192:LEU:HB3	1:L:342:ALA:CA	2.43	0.48
1:L:218:ARG:CD	1:L:282:VAL:CG1	2.92	0.48
1:N:21:GLN:O	1:N:25:ILE:HD12	2.14	0.48
1:N:135:LEU:CD2	1:N:138:ILE:HD11	2.32	0.48
1:N:254:ILE:HG23	1:N:259:ALA:CB	2.43	0.48
1:O:262:LEU:CD1	1:O:310:LEU:HD11	2.42	0.48
1:O:347:ILE:HB	1:O:355:ILE:HG22	1.95	0.48
1:P:64:ILE:HG22	1:P:65:LEU:HD22	1.96	0.48
1:P:96:ALA:CA	1:P:480:ALA:HB1	2.42	0.48
1:P:218:ARG:CZ	1:P:282:VAL:HG21	2.44	0.48
1:P:299:THR:HG23	1:P:334:VAL:CG1	2.44	0.48
1:A:47:MET:CE	1:H:493:VAL:HG13	2.44	0.48
1:A:105:ARG:NE	1:A:106:LYS:HG2	2.29	0.48
1:A:150:LEU:CD2	1:A:175:VAL:CG1	2.75	0.48
1:B:60:ASP:C	1:B:64:ILE:HD12	2.38	0.48
1:B:174:ILE:HG22	1:B:362:VAL:CG2	2.43	0.48
1:B:268:ILE:HG21	1:B:273:GLN:CG	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:346:LEU:HD21	1:B:348:ARG:HD3	1.95	0.48
1:C:138:ILE:HD13	1:C:385:THR:OG1	2.14	0.48
1:D:218:ARG:NH2	1:D:321:VAL:HG12	2.29	0.48
1:E:116:HIS:CD2	1:F:425:ASN:O	2.67	0.48
1:E:130:LYS:HG3	1:E:396:TYR:CE1	2.49	0.48
1:E:233:ALA:CB	1:E:315:LEU:CD1	2.92	0.48
1:F:234:LEU:CB	1:F:292:MET:HE1	2.44	0.48
1:G:232:ILE:O	1:G:315:LEU:HG	2.14	0.48
1:G:235:LEU:HD23	1:G:310:LEU:CD1	2.43	0.48
1:H:32:ALA:C	1:H:34:THR:N	2.70	0.48
1:I:140:CYS:CB	1:I:447:LYS:HB3	2.44	0.48
1:J:42:LYS:HD2	1:J:425:ASN:O	2.11	0.48
1:J:115:VAL:CG1	1:J:403:ARG:NE	2.76	0.48
1:J:138:ILE:HD12	1:J:379:VAL:HG21	1.92	0.48
1:J:170:LEU:CD2	1:J:358:VAL:HG13	2.31	0.48
1:K:62:VAL:O	1:K:62:VAL:HG22	2.13	0.48
1:L:48:LEU:CB	1:L:56:VAL:CG2	2.90	0.48
1:L:63:THR:O	1:L:63:THR:CG2	2.60	0.48
1:L:124:TYR:CD1	1:L:124:TYR:N	2.81	0.48
1:L:234:LEU:O	1:L:304:ILE:HG13	2.13	0.48
1:L:267:GLY:C	1:L:268:ILE:CG1	2.79	0.48
1:M:209:ILE:C	1:M:211:GLY:H	2.21	0.48
1:M:254:ILE:CG2	1:M:281:ILE:CD1	2.92	0.48
1:O:82:ALA:HB1	1:O:93:THR:HG22	1.96	0.48
1:O:119:ILE:HG22	1:O:120:VAL:N	2.27	0.48
1:O:170:LEU:CD2	1:O:358:VAL:HG11	2.39	0.48
1:O:232:ILE:HG13	1:O:261:VAL:HG11	1.95	0.48
1:P:102:GLU:CG	1:P:417:VAL:HG11	2.42	0.48
1:P:119:ILE:CG1	1:P:403:ARG:HH11	2.22	0.48
1:A:177:ALA:CB	1:A:208:LEU:HD11	2.44	0.48
1:B:345:MET:SD	1:B:362:VAL:HG11	2.54	0.48
1:B:396:TYR:CG	1:B:396:TYR:O	2.67	0.48
1:C:17:GLY:HA2	1:C:21:GLN:HE22	1.75	0.48
1:C:115:VAL:HG11	1:C:403:ARG:NE	2.19	0.48
1:D:227:VAL:CG1	1:D:260:ASN:OD1	2.60	0.48
1:E:110:LEU:C	1:E:112:ASP:N	2.71	0.48
1:E:134:LEU:HB3	1:E:392:LYS:NZ	2.28	0.48
1:E:190:LYS:H	1:E:190:LYS:HG2	1.25	0.48
1:E:254:ILE:HG22	1:E:281:ILE:HD12	1.86	0.48
1:F:371:CYS:HB2	1:F:471:ARG:NE	2.25	0.48
1:G:130:LYS:HG2	1:G:393:LEU:HD23	1.90	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:194:LYS:CG	1:G:195:ILE:H	2.25	0.48
1:G:383:GLY:CA	1:G:386:GLU:HG2	2.44	0.48
1:H:124:TYR:CE1	1:H:407:ALA:O	2.66	0.48
1:H:234:LEU:HB3	1:H:292:MET:HE3	1.92	0.48
1:I:251:VAL:HA	1:I:254:ILE:HD12	1.94	0.48
1:I:304:ILE:CD1	1:I:310:LEU:HA	2.44	0.48
1:I:347:ILE:HG23	1:I:358:VAL:HG11	1.96	0.48
1:I:365:ALA:O	1:I:369:VAL:HG23	2.13	0.48
1:K:263:PHE:CZ	1:K:295:LEU:HD21	2.49	0.48
1:K:379:VAL:C	1:K:467:VAL:HG13	2.39	0.48
1:L:158:ILE:HD13	1:L:170:LEU:CG	2.44	0.48
1:L:262:LEU:CG	1:L:310:LEU:HD21	2.43	0.48
1:L:376:GLY:N	1:L:377:ARG:HB2	2.29	0.48
1:L:423:ALA:CB	1:L:430:ALA:CB	2.92	0.48
1:M:466:VAL:HG23	1:M:466:VAL:O	2.14	0.48
1:O:25:ILE:CD1	1:O:108:GLU:CD	2.87	0.48
1:O:195:ILE:HD13	1:O:359:ALA:HB1	1.94	0.48
1:O:404:GLU:O	1:O:408:VAL:HG13	2.13	0.48
1:O:486:MET:C	1:O:488:LEU:N	2.71	0.48
1:A:29:ARG:O	1:A:32:ALA:HB3	2.14	0.48
1:A:389:LEU:HD13	1:A:415:LEU:CD2	2.42	0.48
1:B:36:ARG:CG	1:B:37:SER:N	2.76	0.48
1:C:17:GLY:CA	1:C:21:GLN:NE2	2.73	0.48
1:C:103:LEU:HD12	1:C:103:LEU:HA	1.81	0.48
1:C:469:PRO:HG3	1:C:472:VAL:HG11	1.96	0.48
1:E:177:ALA:HB1	1:E:343:VAL:HG11	1.95	0.48
1:G:115:VAL:HG23	1:G:119:ILE:HB	1.94	0.48
1:G:178:VAL:HG22	1:G:366:VAL:HG13	1.96	0.48
1:H:99:VAL:HG12	1:H:418:ILE:CD1	2.44	0.48
1:H:119:ILE:HD13	1:H:404:GLU:OE2	2.14	0.48
1:H:219:VAL:CG2	1:H:268:ILE:HD12	2.12	0.48
1:I:152:LYS:CB	1:I:465:GLY:HA2	2.43	0.48
1:I:153:ILE:HG23	1:I:468:GLU:C	2.39	0.48
1:I:218:ARG:CZ	1:I:282:VAL:HG11	2.44	0.48
1:I:234:LEU:H	1:I:315:LEU:CD2	2.27	0.48
1:I:379:VAL:CG2	1:I:380:SER:N	2.76	0.48
1:I:391:MET:HE1	1:I:438:ARG:O	2.14	0.48
1:J:155:MET:HB3	1:J:167:LYS:HB2	1.95	0.48
1:J:174:ILE:CG2	1:J:362:VAL:CG2	2.78	0.48
1:J:459:GLU:HG3	1:J:461:MET:HG2	1.96	0.48
1:K:115:VAL:HG21	1:K:119:ILE:CB	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:122:LYS:HA	1:K:125:GLN:NE2	2.25	0.48
1:K:170:LEU:CD1	1:K:358:VAL:HG13	2.43	0.48
1:K:234:LEU:H	1:K:315:LEU:CD1	2.21	0.48
1:L:368:VAL:HB	1:L:469:PRO:HB3	1.96	0.48
1:L:380:SER:CB	1:L:384:SER:HB2	2.41	0.48
1:M:116:HIS:CG	1:M:117:PRO:HD2	2.48	0.48
1:O:197:LYS:CB	1:O:355:ILE:HG21	2.43	0.48
1:P:81:VAL:HG21	1:P:483:SER:OG	2.14	0.48
1:A:152:LYS:HD3	1:A:467:VAL:CG2	2.43	0.48
1:B:235:LEU:HD12	1:B:264:CYS:HB3	1.96	0.48
1:B:299:THR:CG2	1:B:334:VAL:HG11	2.44	0.48
1:C:402:GLY:O	1:C:405:GLN:HB3	2.13	0.48
1:C:416:GLU:O	1:C:420:ARG:HB3	2.14	0.48
1:D:89:VAL:HG11	1:D:472:VAL:HG22	1.95	0.48
1:D:96:ALA:HB1	1:D:480:ALA:HB2	1.95	0.48
1:E:459:GLU:HB3	1:E:461:MET:HE2	1.95	0.48
1:F:477:ILE:HG22	1:F:477:ILE:O	2.13	0.48
1:G:65:LEU:C	1:G:79:ILE:HD13	2.39	0.48
1:G:132:GLN:HA	1:G:132:GLN:NE2	2.29	0.48
1:G:493:VAL:O	1:G:493:VAL:HG12	2.14	0.48
1:H:393:LEU:HA	1:H:396:TYR:HB3	1.96	0.48
1:I:130:LYS:HE2	1:I:134:LEU:CG	2.44	0.48
1:J:368:VAL:CG2	1:J:469:PRO:HG3	2.44	0.48
1:L:82:ALA:HB1	1:L:93:THR:HG23	1.96	0.48
1:L:469:PRO:CB	1:L:472:VAL:HG21	2.44	0.48
1:M:223:MET:CG	1:M:282:VAL:HA	2.43	0.48
1:N:472:VAL:HG22	1:N:473:LYS:N	2.29	0.48
1:O:38:THR:HG22	1:O:44:MET:O	2.14	0.48
1:P:469:PRO:HB2	1:P:472:VAL:HG21	1.95	0.48
1:A:121:VAL:C	1:A:123:GLY:H	2.21	0.47
1:A:150:LEU:HB3	1:A:175:VAL:CG1	2.44	0.47
1:B:82:ALA:HB1	1:B:93:THR:HG22	1.96	0.47
1:B:105:ARG:HG2	1:B:105:ARG:NH1	2.16	0.47
1:B:227:VAL:HG11	1:B:260:ASN:CG	2.38	0.47
1:B:462:CYS:SG	1:B:467:VAL:HG21	2.54	0.47
1:C:42:LYS:CB	1:C:425:ASN:HB2	2.43	0.47
1:C:219:VAL:HG11	1:C:268:ILE:HD12	1.95	0.47
1:C:391:MET:CE	1:C:438:ARG:CB	2.90	0.47
1:D:368:VAL:O	1:D:371:CYS:HB2	2.13	0.47
1:D:431:ILE:CD1	1:M:403:ARG:CA	2.91	0.47
1:E:218:ARG:HG3	1:E:323:GLU:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:14:ARG:CD	1:F:494:ILE:HG12	2.44	0.47
1:F:116:HIS:CG	1:F:117:PRO:HD2	2.49	0.47
1:F:152:LYS:HD3	1:F:465:GLY:CA	2.29	0.47
1:H:119:ILE:HD12	1:H:403:ARG:HB2	1.95	0.47
1:H:130:LYS:HD3	1:H:393:LEU:CD1	2.36	0.47
1:J:48:LEU:HD21	1:K:494:ILE:HD12	1.95	0.47
1:J:60:ASP:C	1:J:64:ILE:HD12	2.39	0.47
1:J:393:LEU:HA	1:J:396:TYR:HB3	1.95	0.47
1:L:152:LYS:NZ	1:L:465:GLY:HA2	2.29	0.47
1:M:174:ILE:HG22	1:M:362:VAL:CG2	2.44	0.47
1:N:96:ALA:O	1:N:100:ALA:HB2	2.14	0.47
1:N:262:LEU:CD1	1:N:310:LEU:HD21	2.43	0.47
1:O:119:ILE:CG2	1:O:403:ARG:HD2	2.41	0.47
1:O:166:ALA:O	1:O:170:LEU:HG	2.13	0.47
1:O:174:ILE:HD12	1:O:365:ALA:HB1	1.96	0.47
1:P:42:LYS:CD	1:P:426:ALA:N	2.77	0.47
1:P:64:ILE:HG23	1:P:65:LEU:N	2.29	0.47
1:P:96:ALA:CB	1:P:480:ALA:HB2	2.43	0.47
1:P:106:LYS:O	1:P:109:GLU:HG3	2.14	0.47
1:P:431:ILE:O	1:P:435:VAL:HG23	2.14	0.47
1:A:34:THR:HG23	1:H:14:ARG:NH2	2.29	0.47
1:A:122:LYS:HA	1:A:125:GLN:NE2	2.28	0.47
1:A:138:ILE:O	1:A:138:ILE:CG1	2.56	0.47
1:A:154:ALA:CB	1:A:174:ILE:CD1	2.70	0.47
1:A:166:ALA:HB2	1:A:203:ILE:HG22	1.95	0.47
1:A:194:LYS:HG3	1:A:294:LYS:HE3	1.96	0.47
1:B:99:VAL:CG1	1:B:418:ILE:HD13	2.44	0.47
1:C:174:ILE:HG22	1:C:362:VAL:CB	2.44	0.47
1:C:177:ALA:HB2	1:C:208:LEU:HD11	1.93	0.47
1:E:153:ILE:HG23	1:E:469:PRO:HD3	1.91	0.47
1:E:218:ARG:HG2	1:E:218:ARG:HH11	1.78	0.47
1:E:233:ALA:HB1	1:E:310:LEU:HG	1.95	0.47
1:E:431:ILE:CD1	1:N:406:LEU:HD13	2.43	0.47
1:G:192:LEU:HB3	1:G:342:ALA:HB2	1.96	0.47
1:G:208:LEU:HD13	1:G:345:MET:HG3	1.95	0.47
1:H:158:ILE:HD13	1:H:170:LEU:HD23	1.97	0.47
1:I:102:GLU:CD	1:I:417:VAL:HG11	2.38	0.47
1:I:234:LEU:HD22	1:I:301:ALA:HB1	1.96	0.47
1:I:405:GLN:HG2	1:I:406:LEU:H	1.76	0.47
1:J:377:ARG:NE	1:J:470:LEU:CD1	2.77	0.47
1:J:403:ARG:CG	1:J:403:ARG:NH1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:469:PRO:HG2	1:J:472:VAL:HG21	1.96	0.47
1:L:268:ILE:HD12	1:L:268:ILE:HG21	1.63	0.47
1:L:346:LEU:HD23	1:L:347:ILE:N	2.28	0.47
1:O:72:HIS:HB3	1:O:75:ALA:HB3	1.97	0.47
1:O:235:LEU:CD1	1:O:262:LEU:CG	2.91	0.47
1:P:134:LEU:HB3	1:P:392:LYS:HE3	1.96	0.47
1:A:42:LYS:HZ2	1:H:118:THR:HG21	1.79	0.47
1:A:155:MET:SD	1:A:167:LYS:HD3	2.54	0.47
1:C:268:ILE:HG21	1:C:273:GLN:HG2	1.96	0.47
1:C:414:ALA:O	1:C:417:VAL:HG12	2.13	0.47
1:D:239:ILE:HG23	1:D:268:ILE:HG23	1.94	0.47
1:D:469:PRO:CG	1:D:472:VAL:CG2	2.92	0.47
1:F:130:LYS:HD3	1:F:393:LEU:HD21	1.92	0.47
1:G:72:HIS:HA	1:G:75:ALA:CB	2.27	0.47
1:G:85:GLN:CD	1:G:476:ALA:CB	2.86	0.47
1:H:142:VAL:CG1	1:H:378:ILE:CD1	2.91	0.47
1:H:351:THR:CG2	1:H:352:GLU:H	2.12	0.47
1:H:377:ARG:C	1:H:378:ILE:CG2	2.87	0.47
1:I:115:VAL:CG2	1:I:403:ARG:CD	2.93	0.47
1:I:425:ASN:O	1:J:116:HIS:CD2	2.67	0.47
1:J:206:THR:HG22	1:J:348:ARG:N	2.28	0.47
1:J:209:ILE:HD11	1:J:213:LEU:HB2	1.96	0.47
1:K:104:LEU:CD2	1:K:488:LEU:HD13	2.44	0.47
1:O:124:TYR:HE1	1:O:407:ALA:CB	2.17	0.47
1:O:139:ALA:CB	1:O:470:LEU:HD11	2.44	0.47
1:O:234:LEU:HG	1:O:292:MET:HE2	1.96	0.47
1:O:365:ALA:O	1:O:369:VAL:HG12	2.15	0.47
1:P:227:VAL:HG11	1:P:260:ASN:OD1	2.15	0.47
1:A:170:LEU:CD1	1:A:358:VAL:HG22	2.41	0.47
1:A:178:VAL:HG21	1:A:366:VAL:HG13	1.96	0.47
1:A:251:VAL:HG12	1:A:276:LEU:HD13	1.96	0.47
1:B:153:ILE:HD13	1:B:378:ILE:HG22	1.90	0.47
1:B:170:LEU:CD1	1:B:358:VAL:HG22	2.41	0.47
1:C:62:VAL:H	1:C:93:THR:HG21	1.78	0.47
1:E:25:ILE:HD13	1:E:108:GLU:CD	2.39	0.47
1:E:135:LEU:HD21	1:E:385:THR:CG2	2.19	0.47
1:E:150:LEU:HB3	1:E:175:VAL:CG2	2.44	0.47
1:E:393:LEU:O	1:E:396:TYR:HB3	2.14	0.47
1:F:212:VAL:HG21	1:F:294:LYS:O	2.14	0.47
1:G:346:LEU:HD22	1:G:348:ARG:HG2	1.96	0.47
1:H:345:MET:SD	1:H:362:VAL:HG11	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:42:LYS:CD	1:I:426:ALA:HA	2.43	0.47
1:I:116:HIS:C	1:I:118:THR:N	2.71	0.47
1:I:119:ILE:HG23	1:I:403:ARG:HB2	1.95	0.47
1:J:38:THR:HG23	1:J:46:LYS:HE2	1.97	0.47
1:J:368:VAL:HB	1:J:469:PRO:CB	2.44	0.47
1:J:400:ILE:HD11	1:J:408:VAL:HG11	1.95	0.47
1:K:150:LEU:HG	1:K:175:VAL:HG13	1.96	0.47
1:K:170:LEU:CD2	1:K:358:VAL:HG13	2.42	0.47
1:L:135:LEU:CD1	1:L:385:THR:HG21	2.44	0.47
1:L:403:ARG:O	1:L:406:LEU:HB2	2.14	0.47
1:N:103:LEU:CD2	1:N:411:PHE:CE2	2.90	0.47
1:N:174:ILE:HG13	1:N:175:VAL:H	1.79	0.47
1:N:311:SER:O	1:N:315:LEU:HD12	2.14	0.47
1:N:371:CYS:HB3	1:N:471:ARG:CD	2.43	0.47
1:O:171:ALA:HA	1:O:174:ILE:HG12	1.95	0.47
1:O:233:ALA:HB3	1:O:310:LEU:HD11	1.96	0.47
1:O:383:GLY:HA2	1:O:386:GLU:HG2	1.97	0.47
1:O:385:THR:HG21	1:O:473:LYS:HD2	1.95	0.47
1:P:43:GLY:O	1:P:44:MET:HE3	2.14	0.47
1:A:212:VAL:N	1:A:298:ALA:HB2	2.30	0.47
1:A:235:LEU:HB2	1:A:310:LEU:CD2	2.45	0.47
1:A:406:LEU:CD1	1:J:431:ILE:HD12	2.44	0.47
1:C:25:ILE:HD13	1:C:108:GLU:OE2	2.14	0.47
1:E:116:HIS:CD2	1:E:117:PRO:HG2	2.50	0.47
1:E:130:LYS:O	1:E:134:LEU:HG	2.15	0.47
1:E:259:ALA:O	1:E:281:ILE:HG23	2.15	0.47
1:E:472:VAL:CG2	1:E:473:LYS:N	2.76	0.47
1:F:34:THR:HG22	1:F:35:VAL:N	2.29	0.47
1:G:31:ILE:HG23	1:G:65:LEU:CD2	2.44	0.47
1:H:62:VAL:CG1	1:H:63:THR:H	2.27	0.47
1:H:174:ILE:CD1	1:H:365:ALA:HB1	2.38	0.47
1:I:156:THR:HB	1:I:467:VAL:C	2.39	0.47
1:J:42:LYS:CD	1:J:426:ALA:CA	2.92	0.47
1:J:235:LEU:HB2	1:J:264:CYS:CB	2.42	0.47
1:K:379:VAL:CB	1:K:380:SER:HB2	2.44	0.47
1:L:31:ILE:HG22	1:L:31:ILE:O	2.14	0.47
1:M:22:ARG:HH11	1:M:22:ARG:HG2	1.80	0.47
1:N:134:LEU:HB3	1:N:392:LYS:HZ2	1.78	0.47
1:N:234:LEU:O	1:N:304:ILE:HG12	2.14	0.47
1:N:267:GLY:C	1:N:268:ILE:HG12	2.39	0.47
1:O:171:ALA:HA	1:O:174:ILE:HD11	1.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:36:ARG:HE	1:P:36:ARG:HB3	1.33	0.47
1:P:130:LYS:HG3	1:P:393:LEU:HD22	1.97	0.47
1:P:218:ARG:NE	1:P:282:VAL:HG11	2.29	0.47
1:P:299:THR:CG2	1:P:334:VAL:HG12	2.44	0.47
1:A:310:LEU:HD12	1:A:315:LEU:CD2	2.44	0.47
1:B:14:ARG:NH1	1:C:34:THR:CA	2.67	0.47
1:B:62:VAL:HG22	1:B:63:THR:N	2.20	0.47
1:B:116:HIS:CE1	1:B:117:PRO:HG2	2.50	0.47
1:B:251:VAL:HG11	1:B:276:LEU:HG	1.88	0.47
1:C:126:ALA:O	1:C:130:LYS:HB2	2.13	0.47
1:C:469:PRO:HG2	1:C:472:VAL:HG13	1.96	0.47
1:E:268:ILE:HG22	1:E:273:GLN:HG3	1.93	0.47
1:F:25:ILE:HD13	1:F:108:GLU:HG3	1.95	0.47
1:F:197:LYS:HB3	1:F:355:ILE:HB	1.96	0.47
1:G:111:LEU:HD22	1:G:117:PRO:HB3	1.94	0.47
1:G:296:ALA:HB1	1:G:301:ALA:O	2.14	0.47
1:I:130:LYS:HE2	1:I:134:LEU:HD21	1.97	0.47
1:I:347:ILE:CG2	1:I:358:VAL:HG12	2.40	0.47
1:I:380:SER:CB	1:I:384:SER:CB	2.84	0.47
1:J:98:VAL:C	1:J:100:ALA:H	2.22	0.47
1:J:218:ARG:NH2	1:J:321:VAL:HG12	2.30	0.47
1:K:121:VAL:C	1:K:123:GLY:N	2.72	0.47
1:L:117:PRO:C	1:L:119:ILE:N	2.71	0.47
1:M:110:LEU:C	1:M:112:ASP:N	2.70	0.47
1:M:116:HIS:ND1	1:M:118:THR:HG23	2.30	0.47
1:M:130:LYS:HG2	1:M:393:LEU:HD22	1.96	0.47
1:M:362:VAL:CG2	1:M:362:VAL:O	2.62	0.47
1:O:96:ALA:O	1:O:100:ALA:HB2	2.14	0.47
1:O:178:VAL:HG22	1:O:193:ILE:CD1	2.44	0.47
1:O:384:SER:C	1:O:441:HIS:CE1	2.93	0.47
1:P:63:THR:O	1:P:63:THR:CG2	2.62	0.47
1:P:211:GLY:HA2	1:P:298:ALA:HB1	1.96	0.47
1:A:102:GLU:C	1:A:104:LEU:H	2.22	0.47
1:A:170:LEU:HD12	1:A:358:VAL:HG13	1.96	0.47
1:A:206:THR:CG2	1:A:347:ILE:HG22	2.42	0.47
1:A:405:GLN:OE1	1:A:406:LEU:HD11	2.14	0.47
1:A:427:GLY:C	1:A:428:LEU:HD12	2.39	0.47
1:A:469:PRO:HD2	1:A:472:VAL:HG11	1.97	0.47
1:B:115:VAL:HG11	1:B:403:ARG:HE	1.79	0.47
1:B:138:ILE:HG12	1:B:139:ALA:N	2.27	0.47
1:B:158:ILE:CD1	1:B:170:LEU:HB2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:295:LEU:O	1:B:299:THR:HG23	2.14	0.47
1:B:301:ALA:O	1:B:302:ASN:CB	2.62	0.47
1:B:369:VAL:O	1:B:373:ILE:HG12	2.15	0.47
1:B:384:SER:CB	1:B:441:HIS:CE1	2.97	0.47
1:C:209:ILE:HD11	1:C:213:LEU:HB2	1.96	0.47
1:D:34:THR:HG22	1:D:35:VAL:HG13	1.95	0.47
1:D:42:LYS:HG3	1:D:425:ASN:CB	2.35	0.47
1:D:178:VAL:HG21	1:D:366:VAL:HG22	1.97	0.47
1:E:22:ARG:C	1:E:24:ASN:N	2.71	0.47
1:E:177:ALA:CB	1:E:193:ILE:HD12	2.41	0.47
1:E:233:ALA:HB2	1:E:315:LEU:CD1	2.45	0.47
1:E:489:ARG:O	1:E:490:ILE:C	2.58	0.47
1:F:42:LYS:O	1:F:425:ASN:HB3	2.15	0.47
1:F:77:MET:HE2	1:F:487:LEU:CD1	2.44	0.47
1:F:190:LYS:CE	1:F:367:GLY:HA2	2.44	0.47
1:F:202:SER:OG	1:F:203:ILE:HG23	2.13	0.47
1:G:45:ASP:C	1:G:46:LYS:HG3	2.40	0.47
1:G:234:LEU:HD11	1:G:296:ALA:CB	2.40	0.47
1:H:72:HIS:HA	1:H:73:PRO:HD3	1.39	0.47
1:H:135:LEU:HD23	1:H:385:THR:HG21	1.95	0.47
1:H:403:ARG:HA	1:I:431:ILE:HD11	1.97	0.47
1:I:31:ILE:HG23	1:I:34:THR:OG1	2.15	0.47
1:I:158:ILE:HG12	1:I:361:ALA:CB	2.40	0.47
1:I:233:ALA:CB	1:I:315:LEU:CD1	2.92	0.47
1:J:34:THR:HG22	1:J:35:VAL:H	1.74	0.47
1:J:368:VAL:HG12	1:J:371:CYS:SG	2.54	0.47
1:J:469:PRO:CG	1:J:472:VAL:HG21	2.45	0.47
1:K:104:LEU:HD23	1:K:488:LEU:HD13	1.97	0.47
1:K:420:ARG:HE	1:K:430:ALA:HB3	1.79	0.47
1:L:105:ARG:CD	1:L:106:LYS:N	2.72	0.47
1:L:135:LEU:HD22	1:L:389:LEU:HD21	1.96	0.47
1:L:380:SER:CB	1:L:384:SER:CB	2.92	0.47
1:M:218:ARG:HG3	1:M:323:GLU:OE2	2.14	0.47
1:M:223:MET:HE1	1:M:283:ALA:HB2	1.91	0.47
1:M:262:LEU:CD1	1:M:310:LEU:CD1	2.91	0.47
1:N:197:LYS:HB3	1:N:355:ILE:CG2	2.45	0.47
1:N:377:ARG:HB3	1:N:470:LEU:HD12	1.97	0.47
1:N:387:VAL:HG21	1:N:437:VAL:HG12	1.97	0.47
1:O:347:ILE:CD1	1:O:359:ALA:HB2	2.44	0.47
1:O:459:GLU:HB3	1:O:461:MET:HE2	1.92	0.47
1:P:35:VAL:C	1:P:37:SER:N	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:63:THR:HA	1:P:66:ARG:HG3	1.96	0.47
1:P:405:GLN:O	1:P:409:ARG:HG3	2.15	0.47
1:A:380:SER:CB	1:A:384:SER:HB2	2.45	0.47
1:B:102:GLU:C	1:B:104:LEU:N	2.72	0.47
1:B:418:ILE:HG23	1:B:422:LEU:CD1	2.45	0.47
1:E:27:ALA:CB	1:E:72:HIS:NE2	2.78	0.47
1:F:34:THR:CB	1:F:35:VAL:HG22	2.45	0.47
1:F:72:HIS:HB3	1:F:74:ALA:HB3	1.97	0.47
1:F:118:THR:HG21	1:G:42:LYS:HZ3	1.77	0.47
1:F:130:LYS:HE2	1:F:396:TYR:HB2	1.97	0.47
1:F:345:MET:HE2	1:F:345:MET:HB3	1.67	0.47
1:F:488:LEU:O	1:F:488:LEU:HD12	2.14	0.47
1:H:130:LYS:CE	1:H:393:LEU:CD1	2.93	0.47
1:H:158:ILE:CD1	1:H:170:LEU:HB3	2.45	0.47
1:I:232:ILE:HD12	1:I:232:ILE:H	1.80	0.47
1:I:281:ILE:HG23	1:I:281:ILE:HD13	1.52	0.47
1:J:355:ILE:C	1:J:357:GLU:N	2.73	0.47
1:K:96:ALA:O	1:K:480:ALA:HB1	2.15	0.47
1:K:119:ILE:CG2	1:K:403:ARG:CB	2.80	0.47
1:K:213:LEU:HD11	1:K:333:PHE:CZ	2.50	0.47
1:L:218:ARG:HG3	1:L:323:GLU:OE2	2.15	0.47
1:L:473:LYS:HA	1:L:473:LYS:HE3	1.97	0.47
1:N:156:THR:CG2	1:N:468:GLU:CB	2.82	0.47
1:N:178:VAL:HG22	1:N:193:ILE:HD11	1.92	0.47
1:O:56:VAL:HG23	1:O:56:VAL:O	2.14	0.47
1:C:134:LEU:CB	1:C:392:LYS:HZ2	2.09	0.47
1:C:391:MET:HE1	1:C:438:ARG:C	2.40	0.47
1:D:43:GLY:O	1:D:44:MET:CE	2.63	0.47
1:D:441:HIS:CG	1:D:449:ALA:HB3	2.49	0.47
1:F:38:THR:CG2	1:F:59:ASN:HB2	2.42	0.47
1:F:77:MET:CE	1:F:487:LEU:HG	2.45	0.47
1:F:234:LEU:CD1	1:F:301:ALA:CB	2.93	0.47
1:F:403:ARG:CG	1:O:431:ILE:HD11	2.44	0.47
1:F:405:GLN:HE22	1:O:438:ARG:HH22	1.63	0.47
1:H:380:SER:HA	1:H:467:VAL:HG13	1.97	0.47
1:I:130:LYS:NZ	1:I:393:LEU:HD23	2.25	0.47
1:I:192:LEU:O	1:I:342:ALA:HB1	2.14	0.47
1:J:233:ALA:CA	1:J:315:LEU:CD2	2.77	0.47
1:J:397:ALA:C	1:J:399:GLY:H	2.22	0.47
1:K:77:MET:HE1	1:K:487:LEU:HG	1.97	0.47
1:L:178:VAL:HG22	1:L:366:VAL:CG1	2.36	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:119:ILE:HG21	1:M:403:ARG:HB3	1.97	0.47
1:O:130:LYS:HZ2	1:O:396:TYR:HB2	1.80	0.47
1:O:150:LEU:CG	1:O:175:VAL:HG13	2.45	0.47
1:O:211:GLY:C	1:O:298:ALA:HB3	2.40	0.47
1:P:377:ARG:CG	1:P:470:LEU:HD12	2.44	0.47
1:A:156:THR:HG22	1:A:468:GLU:HA	1.95	0.47
1:A:347:ILE:HB	1:A:355:ILE:CG2	2.45	0.47
1:B:254:ILE:CG2	1:B:281:ILE:HD11	2.45	0.47
1:C:35:VAL:CG1	1:C:64:ILE:HG21	2.31	0.47
1:C:223:MET:HB3	1:C:282:VAL:HA	1.95	0.47
1:C:227:VAL:CG1	1:C:260:ASN:ND2	2.78	0.47
1:E:48:LEU:HB2	1:E:56:VAL:HB	1.96	0.47
1:E:214:VAL:HG11	1:E:295:LEU:HD11	1.97	0.47
1:E:233:ALA:CB	1:E:315:LEU:HD11	2.45	0.47
1:F:492:ASP:OD2	1:G:46:LYS:HG2	2.14	0.47
1:G:166:ALA:O	1:G:170:LEU:HB2	2.15	0.47
1:H:234:LEU:H	1:H:315:LEU:HG	1.80	0.47
1:I:77:MET:HB3	1:I:487:LEU:HD11	1.95	0.47
1:I:234:LEU:CA	1:I:292:MET:HE1	2.45	0.47
1:I:386:GLU:H	1:I:386:GLU:HG2	1.15	0.47
1:I:459:GLU:OE1	1:I:461:MET:HE1	2.15	0.47
1:J:134:LEU:HD11	1:J:393:LEU:HD21	1.93	0.47
1:J:233:ALA:HB1	1:J:310:LEU:HD12	1.91	0.47
1:K:267:GLY:C	1:K:268:ILE:HG12	2.40	0.47
1:L:130:LYS:HG3	1:L:393:LEU:HD21	1.94	0.47
1:L:345:MET:HE3	1:L:345:MET:HB3	1.72	0.47
1:M:140:CYS:HB3	1:M:446:ASN:CG	2.39	0.47
1:M:343:VAL:HG13	1:M:343:VAL:O	2.14	0.47
1:M:425:ASN:C	1:N:116:HIS:NE2	2.73	0.47
1:N:119:ILE:HD12	1:N:403:ARG:CG	2.44	0.47
1:N:130:LYS:HD3	1:N:396:TYR:CE1	2.50	0.47
1:N:447:LYS:O	1:N:448:CYS:HB3	2.15	0.47
1:O:16:MET:H	1:O:16:MET:HG2	1.34	0.47
1:P:85:GLN:OE1	1:P:476:ALA:HA	2.15	0.47
1:P:130:LYS:HG3	1:P:393:LEU:HD21	1.97	0.47
1:P:156:THR:HG21	1:P:468:GLU:HG2	1.97	0.47
1:P:197:LYS:C	1:P:355:ILE:HD13	2.39	0.47
1:A:152:LYS:CE	1:A:462:CYS:C	2.88	0.46
1:A:405:GLN:HG2	1:A:406:LEU:HG	1.96	0.46
1:C:115:VAL:HG21	1:C:403:ARG:HD2	1.96	0.46
1:C:115:VAL:CG2	1:C:119:ILE:HG21	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:156:THR:HG22	1:C:468:GLU:CA	2.37	0.46
1:C:178:VAL:CG2	1:C:193:ILE:HD12	2.39	0.46
1:D:101:GLY:HA2	1:D:104:LEU:HD22	1.97	0.46
1:E:124:TYR:CD1	1:E:124:TYR:N	2.79	0.46
1:E:134:LEU:HD12	1:E:393:LEU:HD11	1.97	0.46
1:G:134:LEU:HD22	1:G:392:LYS:CD	2.45	0.46
1:G:156:THR:HG22	1:G:468:GLU:HA	1.96	0.46
1:H:31:ILE:HD13	1:H:31:ILE:HG23	1.57	0.46
1:H:130:LYS:CG	1:H:393:LEU:HD12	2.42	0.46
1:K:173:ILE:O	1:K:208:LEU:HD13	2.15	0.46
1:L:197:LYS:C	1:L:355:ILE:HD13	2.41	0.46
1:M:14:ARG:HG3	1:M:494:ILE:HG12	1.96	0.46
1:M:34:THR:HG22	1:M:35:VAL:CB	2.45	0.46
1:M:42:LYS:HG3	1:M:425:ASN:HB2	1.97	0.46
1:N:304:ILE:CD1	1:N:310:LEU:HA	2.45	0.46
1:O:219:VAL:CG1	1:O:283:ALA:HB3	2.45	0.46
1:O:299:THR:HG23	1:O:334:VAL:HG12	1.86	0.46
1:P:234:LEU:CD1	1:P:301:ALA:HB1	2.44	0.46
1:P:234:LEU:CA	1:P:292:MET:HE1	2.42	0.46
1:P:400:ILE:HD11	1:P:408:VAL:CG1	2.45	0.46
1:A:115:VAL:CG1	1:A:119:ILE:CG2	2.94	0.46
1:A:156:THR:HB	1:A:467:VAL:O	2.16	0.46
1:A:218:ARG:NH2	1:A:321:VAL:HG12	2.30	0.46
1:A:389:LEU:O	1:A:393:LEU:HD12	2.15	0.46
1:A:471:ARG:HA	1:A:472:VAL:HG23	1.97	0.46
1:C:469:PRO:HG3	1:C:472:VAL:CG1	2.45	0.46
1:D:194:LYS:HB2	1:D:294:LYS:CD	2.44	0.46
1:E:20:ALA:O	1:E:24:ASN:HB2	2.15	0.46
1:E:96:ALA:HA	1:E:480:ALA:CB	2.45	0.46
1:E:170:LEU:CD1	1:E:358:VAL:HG13	2.45	0.46
1:F:178:VAL:CG1	1:F:366:VAL:CG2	2.85	0.46
1:F:379:VAL:O	1:F:467:VAL:HG13	2.15	0.46
1:F:403:ARG:CB	1:O:431:ILE:CD1	2.93	0.46
1:G:125:GLN:O	1:G:129:GLN:HG3	2.15	0.46
1:I:379:VAL:HG21	1:I:385:THR:OG1	2.15	0.46
1:J:142:VAL:HG21	1:J:378:ILE:CD1	2.42	0.46
1:J:381:GLY:HA2	1:J:468:GLU:CD	2.41	0.46
1:L:347:ILE:CG2	1:L:358:VAL:CG1	2.93	0.46
1:N:193:ILE:HG23	1:N:343:VAL:HG13	1.96	0.46
1:A:78:LEU:HD12	1:A:487:LEU:CD1	2.44	0.46
1:A:156:THR:O	1:A:156:THR:HG22	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:170:LEU:CG	1:A:358:VAL:HG22	2.45	0.46
1:A:391:MET:HE1	1:A:438:ARG:CB	2.42	0.46
1:C:59:ASN:C	1:C:59:ASN:HD22	2.22	0.46
1:C:85:GLN:NE2	1:C:479:SER:HB3	2.31	0.46
1:D:14:ARG:HD2	1:D:494:ILE:HD13	1.97	0.46
1:E:153:ILE:CG2	1:E:469:PRO:N	2.79	0.46
1:E:153:ILE:CD1	1:E:372:THR:CG2	2.92	0.46
1:F:124:TYR:N	1:F:124:TYR:HD1	2.12	0.46
1:G:465:GLY:C	1:G:467:VAL:HG23	2.40	0.46
1:H:263:PHE:CE2	1:H:295:LEU:CD2	2.99	0.46
1:H:347:ILE:HG22	1:H:355:ILE:HG23	1.97	0.46
1:I:29:ARG:O	1:I:33:GLU:HG3	2.16	0.46
1:I:105:ARG:O	1:I:108:GLU:HB3	2.15	0.46
1:J:96:ALA:CA	1:J:480:ALA:CB	2.93	0.46
1:J:263:PHE:CE1	1:J:332:ILE:HG21	2.51	0.46
1:K:100:ALA:O	1:K:104:LEU:CD1	2.63	0.46
1:K:254:ILE:HG21	1:K:262:LEU:HD13	1.97	0.46
1:L:105:ARG:CG	1:L:106:LYS:N	2.75	0.46
1:N:93:THR:O	1:N:97:VAL:HG23	2.15	0.46
1:N:227:VAL:HG11	1:N:260:ASN:CG	2.40	0.46
1:N:299:THR:HG22	1:N:334:VAL:HG12	1.98	0.46
1:O:142:VAL:HG11	1:O:378:ILE:HD13	1.98	0.46
1:O:397:ALA:HB2	1:O:408:VAL:HG23	1.97	0.46
1:P:135:LEU:HA	1:P:135:LEU:HD23	1.55	0.46
1:P:400:ILE:HD11	1:P:408:VAL:CG2	2.46	0.46
1:A:48:LEU:HD22	1:H:494:ILE:HG21	1.97	0.46
1:A:97:VAL:O	1:A:100:ALA:HB3	2.16	0.46
1:A:197:LYS:CA	1:A:355:ILE:CG2	2.89	0.46
1:A:262:LEU:HD11	1:A:310:LEU:HD21	1.97	0.46
1:A:383:GLY:C	1:A:386:GLU:CG	2.88	0.46
1:B:39:LEU:CG	1:B:40:GLY:H	2.28	0.46
1:B:156:THR:HB	1:B:467:VAL:O	2.16	0.46
1:C:403:ARG:O	1:C:406:LEU:HB2	2.15	0.46
1:D:99:VAL:O	1:D:103:LEU:HB2	2.15	0.46
1:D:116:HIS:CE1	1:D:117:PRO:HG2	2.50	0.46
1:D:389:LEU:CD1	1:D:415:LEU:CD2	2.93	0.46
1:E:235:LEU:HD13	1:E:310:LEU:CG	2.45	0.46
1:F:72:HIS:CA	1:F:75:ALA:HB3	2.46	0.46
1:H:345:MET:SD	1:H:362:VAL:HG21	2.55	0.46
1:I:218:ARG:NH1	1:I:282:VAL:CG2	2.76	0.46
1:I:299:THR:HG23	1:I:334:VAL:HG11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:196:GLU:C	1:J:347:ILE:HG22	2.41	0.46
1:L:98:VAL:HG12	1:L:99:VAL:CG1	2.45	0.46
1:L:107:ALA:O	1:L:111:LEU:HG	2.14	0.46
1:L:134:LEU:HD12	1:L:393:LEU:HG	1.97	0.46
1:M:468:GLU:HB2	1:M:469:PRO:HD2	1.97	0.46
1:N:234:LEU:H	1:N:315:LEU:HD22	1.81	0.46
1:O:124:TYR:CD1	1:O:124:TYR:N	2.82	0.46
1:O:178:VAL:CG2	1:O:366:VAL:CG1	2.92	0.46
1:O:391:MET:O	1:O:395:GLU:HG3	2.16	0.46
1:P:130:LYS:CG	1:P:393:LEU:CD2	2.92	0.46
1:P:218:ARG:HD3	1:P:282:VAL:HG12	1.96	0.46
1:A:31:ILE:O	1:A:34:THR:HB	2.16	0.46
1:A:48:LEU:HD21	1:H:494:ILE:HD12	1.98	0.46
1:A:124:TYR:CD1	1:A:124:TYR:N	2.83	0.46
1:B:254:ILE:CG2	1:B:259:ALA:CB	2.93	0.46
1:B:494:ILE:HG21	1:C:48:LEU:CD2	2.46	0.46
1:C:400:ILE:HD11	1:C:404:GLU:O	2.16	0.46
1:E:115:VAL:HG21	1:E:403:ARG:HD3	1.98	0.46
1:E:418:ILE:HG22	1:E:419:PRO:HD3	1.97	0.46
1:G:35:VAL:O	1:G:94:THR:HG21	2.15	0.46
1:H:105:ARG:NH1	1:H:106:LYS:HD2	2.30	0.46
1:J:227:VAL:HG11	1:J:260:ASN:OD1	2.16	0.46
1:K:151:THR:HA	1:K:154:ALA:HB3	1.97	0.46
1:K:448:CYS:O	1:K:449:ALA:HB2	2.15	0.46
1:L:232:ILE:HD11	1:L:321:VAL:HG21	1.98	0.46
1:L:389:LEU:HD12	1:L:415:LEU:HD13	1.97	0.46
1:M:48:LEU:O	1:M:56:VAL:HG13	2.15	0.46
1:M:394:ARG:NH2	1:M:413:ASP:CG	2.73	0.46
1:O:123:GLY:O	1:O:408:VAL:HG12	2.16	0.46
1:O:138:ILE:HD12	1:O:385:THR:HG23	1.98	0.46
1:P:197:LYS:CA	1:P:355:ILE:CG2	2.77	0.46
1:A:127:ALA:HB2	1:A:408:VAL:CG1	2.39	0.46
1:A:142:VAL:CG1	1:A:378:ILE:HG23	2.45	0.46
1:A:150:LEU:HD23	1:A:175:VAL:HG12	1.87	0.46
1:A:193:ILE:HD13	1:A:366:VAL:CG2	2.41	0.46
1:A:486:MET:HG2	1:A:487:LEU:N	2.31	0.46
1:C:121:VAL:CG1	1:C:488:LEU:HD23	2.46	0.46
1:C:178:VAL:HG21	1:C:366:VAL:CG2	2.36	0.46
1:C:235:LEU:HB2	1:C:310:LEU:HD13	1.97	0.46
1:C:351:THR:C	1:C:353:HIS:N	2.74	0.46
1:C:394:ARG:O	1:C:397:ALA:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:447:LYS:O	1:C:448:CYS:CB	2.62	0.46
1:D:119:ILE:HD12	1:D:403:ARG:HA	1.96	0.46
1:D:224:PRO:O	1:D:282:VAL:HG11	2.16	0.46
1:D:435:VAL:CG1	1:M:401:SER:OG	2.64	0.46
1:D:438:ARG:HH22	1:M:405:GLN:NE2	2.14	0.46
1:F:135:LEU:HD21	1:F:385:THR:CG2	2.45	0.46
1:F:420:ARG:NE	1:F:430:ALA:HB3	2.31	0.46
1:H:119:ILE:CD1	1:H:403:ARG:HD3	2.45	0.46
1:H:310:LEU:HD21	1:H:315:LEU:HD21	1.97	0.46
1:H:389:LEU:O	1:H:393:LEU:CD2	2.64	0.46
1:I:46:LYS:HB3	1:J:492:ASP:OD2	2.15	0.46
1:K:195:ILE:HB	1:K:359:ALA:HB1	1.96	0.46
1:L:233:ALA:CB	1:L:315:LEU:HD13	2.45	0.46
1:M:33:GLU:HA	1:M:36:ARG:NE	2.30	0.46
1:M:81:VAL:HG21	1:M:483:SER:OG	2.16	0.46
1:M:346:LEU:HD22	1:M:348:ARG:HD3	1.98	0.46
1:N:122:LYS:HE3	1:N:125:GLN:HE22	1.81	0.46
1:P:106:LYS:HE3	1:P:109:GLU:OE2	2.16	0.46
1:P:446:ASN:OD1	1:P:446:ASN:N	2.42	0.46
1:A:158:ILE:HD13	1:A:170:LEU:HB2	1.96	0.46
1:A:218:ARG:NH2	1:A:282:VAL:HG21	2.29	0.46
1:A:418:ILE:O	1:A:422:LEU:HG	2.16	0.46
1:B:102:GLU:OE2	1:B:417:VAL:CG2	2.63	0.46
1:B:276:LEU:C	1:B:281:ILE:HB	2.41	0.46
1:C:31:ILE:HG23	1:C:31:ILE:HD12	1.58	0.46
1:E:174:ILE:HD12	1:E:365:ALA:HB1	1.98	0.46
1:E:178:VAL:CG2	1:E:366:VAL:HG11	2.46	0.46
1:E:384:SER:C	1:E:441:HIS:CE1	2.94	0.46
1:F:212:VAL:HB	1:F:298:ALA:CB	2.40	0.46
1:F:276:LEU:HD12	1:F:281:ILE:HG21	1.97	0.46
1:G:197:LYS:CA	1:G:355:ILE:HD13	2.46	0.46
1:G:431:ILE:HD11	1:P:406:LEU:HD13	1.97	0.46
1:H:42:LYS:HD2	1:H:426:ALA:N	2.30	0.46
1:H:234:LEU:H	1:H:315:LEU:CG	2.29	0.46
1:H:403:ARG:CA	1:I:431:ILE:HD11	2.45	0.46
1:I:391:MET:HE3	1:I:438:ARG:CB	2.40	0.46
1:J:173:ILE:HD13	1:J:206:THR:O	2.14	0.46
1:J:264:CYS:C	1:J:266:LYS:HA	2.39	0.46
1:J:372:THR:HG22	1:J:376:GLY:C	2.40	0.46
1:L:311:SER:O	1:L:315:LEU:HD12	2.15	0.46
1:L:403:ARG:NH1	1:L:403:ARG:HG2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:60:ASP:O	1:M:64:ILE:HG13	2.15	0.46
1:M:192:LEU:CG	1:M:342:ALA:CB	2.92	0.46
1:N:119:ILE:HG23	1:N:403:ARG:HB2	1.94	0.46
1:N:192:LEU:O	1:N:342:ALA:HB1	2.16	0.46
1:N:263:PHE:CZ	1:N:332:ILE:HG21	2.50	0.46
1:O:119:ILE:HD12	1:O:403:ARG:HA	1.98	0.46
1:P:38:THR:CB	1:P:59:ASN:HD22	2.25	0.46
1:P:448:CYS:O	1:P:449:ALA:CB	2.63	0.46
1:A:233:ALA:HB1	1:A:310:LEU:CG	2.44	0.46
1:A:368:VAL:CB	1:A:469:PRO:CG	2.94	0.46
1:A:391:MET:CE	1:A:438:ARG:HD2	2.45	0.46
1:B:232:ILE:HD12	1:B:232:ILE:N	2.29	0.46
1:C:42:LYS:CG	1:C:425:ASN:CB	2.93	0.46
1:D:42:LYS:HE3	1:D:426:ALA:CA	2.46	0.46
1:D:63:THR:HA	1:D:66:ARG:HB2	1.98	0.46
1:D:233:ALA:CA	1:D:315:LEU:HD13	2.44	0.46
1:E:233:ALA:CA	1:E:315:LEU:HD13	2.45	0.46
1:F:178:VAL:HG12	1:F:366:VAL:CG2	2.44	0.46
1:G:134:LEU:CD1	1:G:393:LEU:CD1	2.91	0.46
1:H:391:MET:O	1:H:395:GLU:HG3	2.15	0.46
1:I:235:LEU:CD1	1:I:262:LEU:HD21	2.44	0.46
1:K:36:ARG:HE	1:K:36:ARG:HB3	1.35	0.46
1:K:42:LYS:CB	1:K:425:ASN:HB3	2.25	0.46
1:K:192:LEU:HB3	1:K:342:ALA:HB2	1.91	0.46
1:K:251:VAL:HG13	1:K:276:LEU:CD1	2.45	0.46
1:L:48:LEU:N	1:L:56:VAL:CG2	2.78	0.46
1:L:197:LYS:CB	1:L:355:ILE:CG2	2.79	0.46
1:L:223:MET:HE1	1:L:283:ALA:CB	2.44	0.46
1:M:193:ILE:HD13	1:M:366:VAL:HG21	1.96	0.46
1:N:102:GLU:C	1:N:104:LEU:N	2.72	0.46
1:N:234:LEU:CD1	1:N:296:ALA:HB2	2.46	0.46
1:N:414:ALA:C	1:N:416:GLU:H	2.24	0.46
1:P:64:ILE:CG2	1:P:65:LEU:N	2.79	0.46
1:P:142:VAL:HG11	1:P:378:ILE:CD1	2.45	0.46
1:P:170:LEU:HD11	1:P:358:VAL:HG21	1.98	0.46
1:P:218:ARG:HG2	1:P:218:ARG:HH11	1.81	0.46
1:P:391:MET:HE1	1:P:438:ARG:HE	1.77	0.46
1:A:119:ILE:HD12	1:A:403:ARG:HG3	1.97	0.46
1:A:153:ILE:HG23	1:A:468:GLU:C	2.41	0.46
1:A:197:LYS:CB	1:A:355:ILE:CG2	2.94	0.46
1:A:406:LEU:HD13	1:J:431:ILE:HD12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:138:ILE:CG2	1:B:388:GLU:HG2	2.46	0.46
1:B:197:LYS:CB	1:B:355:ILE:CD1	2.92	0.46
1:C:85:GLN:HE22	1:C:479:SER:CB	2.29	0.46
1:C:138:ILE:O	1:C:446:ASN:CB	2.63	0.46
1:C:197:LYS:C	1:C:355:ILE:HD13	2.41	0.46
1:C:254:ILE:HD13	1:C:262:LEU:CD1	2.45	0.46
1:D:406:LEU:CG	1:M:431:ILE:HD12	2.46	0.46
1:E:178:VAL:CG2	1:E:366:VAL:HG21	2.45	0.46
1:E:193:ILE:HD13	1:E:343:VAL:HG12	1.96	0.46
1:E:459:GLU:CB	1:E:461:MET:CE	2.94	0.46
1:F:14:ARG:CZ	1:G:34:THR:HA	2.45	0.46
1:F:233:ALA:HB1	1:F:315:LEU:HD13	1.95	0.46
1:F:263:PHE:CE2	1:F:295:LEU:HD21	2.51	0.46
1:F:299:THR:CG2	1:F:318:ALA:HB2	2.45	0.46
1:G:197:LYS:CA	1:G:355:ILE:CG2	2.81	0.46
1:G:206:THR:HG22	1:G:348:ARG:O	2.16	0.46
1:H:77:MET:CG	1:H:487:LEU:HD21	2.45	0.46
1:H:437:VAL:HG13	1:H:449:ALA:O	2.16	0.46
1:I:63:THR:O	1:I:63:THR:CG2	2.64	0.46
1:I:92:GLY:CA	1:I:95:THR:HB	2.46	0.46
1:I:369:VAL:C	1:I:371:CYS:H	2.22	0.46
1:K:77:MET:HE2	1:K:77:MET:HB2	1.64	0.46
1:K:130:LYS:O	1:K:130:LYS:CG	2.53	0.46
1:K:138:ILE:CD1	1:K:385:THR:HG23	2.45	0.46
1:K:459:GLU:O	1:K:461:MET:CE	2.64	0.46
1:L:106:LYS:HB3	1:L:106:LYS:HE2	1.28	0.46
1:N:31:ILE:H	1:N:31:ILE:HD13	1.81	0.46
1:N:233:ALA:HB1	1:N:310:LEU:HD12	1.90	0.46
1:N:356:GLU:O	1:N:359:ALA:HB3	2.15	0.46
1:P:197:LYS:CB	1:P:355:ILE:CG2	2.80	0.46
1:A:36:ARG:HG3	1:A:37:SER:N	2.30	0.46
1:C:195:ILE:H	1:C:195:ILE:HG12	1.43	0.46
1:D:42:LYS:CE	1:D:426:ALA:N	2.79	0.46
1:D:48:LEU:HB2	1:D:56:VAL:CG1	2.46	0.46
1:E:345:MET:SD	1:E:362:VAL:HG21	2.56	0.46
1:F:212:VAL:HG21	1:F:294:LYS:HB2	1.97	0.46
1:F:218:ARG:CG	1:F:323:GLU:OE2	2.63	0.46
1:G:36:ARG:HG3	1:G:37:SER:H	1.79	0.46
1:G:197:LYS:CB	1:G:355:ILE:CG2	2.92	0.46
1:H:33:GLU:O	1:H:36:ARG:HG2	2.16	0.46
1:H:380:SER:HB2	1:H:384:SER:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:139:ALA:HB2	1:I:377:ARG:CD	2.25	0.46
1:I:346:LEU:HD23	1:I:347:ILE:N	2.31	0.46
1:I:485:GLU:HA	1:I:488:LEU:HB2	1.98	0.46
1:J:178:VAL:HG23	1:J:366:VAL:HG22	1.98	0.46
1:J:493:VAL:O	1:J:493:VAL:HG12	2.16	0.46
1:K:197:LYS:HB2	1:K:355:ILE:CG1	2.46	0.46
1:K:225:LYS:HE3	1:K:323:GLU:OE1	2.16	0.46
1:K:377:ARG:C	1:K:378:ILE:HG23	2.40	0.46
1:L:89:VAL:O	1:L:89:VAL:HG23	2.08	0.46
1:M:106:LYS:HA	1:M:106:LYS:CE	2.46	0.46
1:M:394:ARG:HH22	1:M:413:ASP:CG	2.24	0.46
1:N:116:HIS:HD1	1:N:118:THR:H	1.63	0.46
1:N:208:LEU:CD1	1:N:343:VAL:CG2	2.94	0.46
1:N:391:MET:HE1	1:N:438:ARG:CG	2.46	0.46
1:N:391:MET:HE1	1:N:438:ARG:HG3	1.98	0.46
1:O:232:ILE:HG12	1:O:299:THR:HG21	1.98	0.46
1:O:258:GLY:HA3	1:O:312:ALA:HB2	1.98	0.46
1:P:134:LEU:HD13	1:P:392:LYS:CE	2.40	0.46
1:P:136:LYS:HB3	1:P:136:LYS:HE3	1.85	0.46
1:A:96:ALA:HB1	1:A:480:ALA:HB2	1.98	0.45
1:A:119:ILE:HG22	1:A:120:VAL:N	2.31	0.45
1:A:134:LEU:HD22	1:A:392:LYS:HZ2	1.80	0.45
1:A:368:VAL:HG21	1:A:469:PRO:CG	2.46	0.45
1:B:156:THR:HG21	1:B:468:GLU:CA	2.46	0.45
1:B:379:VAL:HG22	1:B:380:SER:HB2	1.97	0.45
1:C:98:VAL:C	1:C:100:ALA:H	2.24	0.45
1:D:173:ILE:HD11	1:D:206:THR:HG1	1.78	0.45
1:G:156:THR:CG2	1:G:468:GLU:HB3	2.45	0.45
1:G:380:SER:CB	1:G:384:SER:CB	2.94	0.45
1:H:124:TYR:CE1	1:H:407:ALA:HA	2.48	0.45
1:H:449:ALA:HB2	1:H:458:VAL:HG22	1.98	0.45
1:I:22:ARG:O	1:I:26:LEU:HB2	2.17	0.45
1:I:115:VAL:CG2	1:I:403:ARG:NE	2.71	0.45
1:I:117:PRO:C	1:I:120:VAL:HG12	2.41	0.45
1:I:233:ALA:CB	1:I:310:LEU:HD21	2.46	0.45
1:J:178:VAL:O	1:J:178:VAL:CG1	2.64	0.45
1:K:368:VAL:HB	1:K:469:PRO:HB3	1.95	0.45
1:K:494:ILE:O	1:K:494:ILE:HG22	2.15	0.45
1:L:37:SER:O	1:L:43:GLY:HA2	2.16	0.45
1:M:36:ARG:HH11	1:M:36:ARG:HD3	1.43	0.45
1:O:149:ILE:O	1:O:153:ILE:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:193:ILE:CD1	1:P:366:VAL:HG11	2.30	0.45
1:A:209:ILE:HD11	1:A:213:LEU:HB2	1.98	0.45
1:B:105:ARG:O	1:B:108:GLU:HB3	2.16	0.45
1:B:212:VAL:HG21	1:B:294:LYS:C	2.41	0.45
1:B:394:ARG:NH2	1:B:413:ASP:CG	2.74	0.45
1:B:418:ILE:HG22	1:B:422:LEU:HD12	1.97	0.45
1:C:134:LEU:CD1	1:C:393:LEU:CD2	2.89	0.45
1:C:377:ARG:CD	1:C:470:LEU:HD12	2.46	0.45
1:D:130:LYS:HE2	1:D:396:TYR:CB	2.41	0.45
1:E:332:ILE:HD13	1:E:332:ILE:HG21	1.76	0.45
1:F:139:ALA:HB3	1:F:377:ARG:NE	2.29	0.45
1:F:170:LEU:HD11	1:F:358:VAL:CG1	2.46	0.45
1:F:234:LEU:N	1:F:234:LEU:HD23	2.31	0.45
1:F:401:SER:CB	1:O:435:VAL:HG11	2.47	0.45
1:H:166:ALA:HB3	1:H:203:ILE:CG2	2.46	0.45
1:I:347:ILE:HG21	1:I:358:VAL:CB	2.46	0.45
1:J:56:VAL:HG12	1:J:56:VAL:O	2.17	0.45
1:K:156:THR:HG21	1:K:468:GLU:N	2.29	0.45
1:K:209:ILE:HD11	1:K:213:LEU:HB2	1.97	0.45
1:L:369:VAL:O	1:L:369:VAL:CG1	2.61	0.45
1:M:124:TYR:N	1:M:124:TYR:HD1	1.99	0.45
1:O:48:LEU:HD23	1:P:494:ILE:HG13	1.96	0.45
1:O:171:ALA:HA	1:O:174:ILE:HD13	1.97	0.45
1:O:223:MET:HB3	1:O:282:VAL:HA	1.98	0.45
1:P:30:ILE:HG22	1:P:31:ILE:N	2.31	0.45
1:P:347:ILE:HD12	1:P:359:ALA:HB2	1.98	0.45
1:A:152:LYS:NZ	1:A:462:CYS:C	2.74	0.45
1:A:351:THR:HG23	1:A:352:GLU:HA	1.97	0.45
1:C:281:ILE:HD13	1:C:281:ILE:HG23	1.69	0.45
1:F:16:MET:N	1:F:20:ALA:HB2	2.32	0.45
1:F:374:GLU:HG3	1:F:471:ARG:NH2	2.31	0.45
1:F:381:GLY:CA	1:F:461:MET:CG	2.76	0.45
1:G:39:LEU:CG	1:G:40:GLY:H	2.29	0.45
1:I:264:CYS:C	1:I:266:LYS:H	2.24	0.45
1:J:130:LYS:HE2	1:J:134:LEU:CG	2.46	0.45
1:J:152:LYS:HG2	1:J:465:GLY:C	2.41	0.45
1:L:78:LEU:HD12	1:L:78:LEU:HA	1.72	0.45
1:L:227:VAL:CG1	1:L:260:ASN:HD21	2.29	0.45
1:M:156:THR:CG2	1:M:468:GLU:HA	2.47	0.45
1:M:420:ARG:NH1	1:M:420:ARG:C	2.74	0.45
1:N:152:LYS:CG	1:N:465:GLY:O	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:25:ILE:O	1:O:29:ARG:HG3	2.17	0.45
1:O:142:VAL:CG1	1:O:378:ILE:HD13	2.46	0.45
1:O:376:GLY:N	1:O:377:ARG:HB2	2.31	0.45
1:P:233:ALA:CA	1:P:315:LEU:HD11	2.46	0.45
1:A:47:MET:CE	1:H:493:VAL:CG1	2.95	0.45
1:A:170:LEU:HD21	1:A:358:VAL:HG22	1.98	0.45
1:A:254:ILE:HD13	1:A:262:LEU:CD1	2.45	0.45
1:A:379:VAL:HG21	1:A:385:THR:OG1	2.17	0.45
1:B:62:VAL:HG21	1:B:66:ARG:HH21	1.81	0.45
1:B:124:TYR:HD1	1:B:407:ALA:HB1	1.78	0.45
1:C:123:GLY:CA	1:C:407:ALA:HB3	2.41	0.45
1:D:36:ARG:HG3	1:D:37:SER:N	2.31	0.45
1:E:368:VAL:CB	1:E:469:PRO:CG	2.74	0.45
1:F:42:LYS:HG2	1:F:426:ALA:N	2.32	0.45
1:F:134:LEU:HD12	1:F:393:LEU:CG	2.46	0.45
1:F:166:ALA:HB3	1:F:170:LEU:HD22	1.98	0.45
1:H:86:GLU:O	1:H:86:GLU:HG2	2.15	0.45
1:J:212:VAL:O	1:J:334:VAL:HG23	2.16	0.45
1:J:251:VAL:CG1	1:J:276:LEU:HD22	2.47	0.45
1:K:206:THR:HG21	1:K:347:ILE:HG23	1.98	0.45
1:L:116:HIS:CE1	1:L:117:PRO:HG2	2.51	0.45
1:L:377:ARG:C	1:L:470:LEU:HD22	2.41	0.45
1:M:206:THR:OG1	1:M:347:ILE:CG2	2.64	0.45
1:M:213:LEU:CD1	1:M:333:PHE:CE2	2.96	0.45
1:M:223:MET:HB3	1:M:282:VAL:HA	1.98	0.45
1:N:209:ILE:HD13	1:N:209:ILE:HG21	1.71	0.45
1:N:233:ALA:CB	1:N:315:LEU:CD2	2.94	0.45
1:N:385:THR:O	1:N:389:LEU:HG	2.16	0.45
1:O:134:LEU:CD1	1:O:393:LEU:CD2	2.93	0.45
1:P:234:LEU:H	1:P:315:LEU:CD2	2.28	0.45
1:A:235:LEU:HB2	1:A:310:LEU:HD21	1.98	0.45
1:A:381:GLY:O	1:A:461:MET:HG3	2.16	0.45
1:C:494:ILE:HB	1:D:48:LEU:CD1	2.46	0.45
1:D:42:LYS:CG	1:D:426:ALA:H	2.28	0.45
1:E:227:VAL:CG1	1:E:260:ASN:HD21	2.29	0.45
1:F:21:GLN:C	1:F:25:ILE:HD12	2.40	0.45
1:F:134:LEU:HD22	1:F:392:LYS:CD	2.47	0.45
1:F:193:ILE:HG23	1:F:343:VAL:CG1	2.44	0.45
1:F:203:ILE:HG13	1:F:203:ILE:O	2.16	0.45
1:G:34:THR:HG22	1:G:35:VAL:CB	2.47	0.45
1:H:174:ILE:HG22	1:H:362:VAL:CB	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:115:VAL:CG2	1:I:403:ARG:HD3	2.46	0.45
1:I:459:GLU:CD	1:I:461:MET:HE1	2.42	0.45
1:J:21:GLN:O	1:J:25:ILE:HG13	2.16	0.45
1:J:22:ARG:HG2	1:J:23:MET:N	2.32	0.45
1:J:477:ILE:HD12	1:J:477:ILE:HG21	1.55	0.45
1:N:149:ILE:HG21	1:N:378:ILE:HD13	1.99	0.45
1:N:459:GLU:HG3	1:N:461:MET:HE3	1.99	0.45
1:O:132:GLN:OE1	1:O:132:GLN:HA	2.17	0.45
1:O:192:LEU:O	1:O:342:ALA:HB1	2.15	0.45
1:P:257:SER:O	1:P:312:ALA:HB3	2.16	0.45
1:A:431:ILE:HD11	1:J:403:ARG:N	2.32	0.45
1:B:99:VAL:CG1	1:B:418:ILE:CD1	2.95	0.45
1:B:268:ILE:CG2	1:B:273:GLN:CG	2.95	0.45
1:C:158:ILE:HB	1:C:361:ALA:CB	2.46	0.45
1:C:206:THR:HG21	1:C:347:ILE:CG2	2.27	0.45
1:C:206:THR:HB	1:C:347:ILE:CG2	2.47	0.45
1:C:431:ILE:HG21	1:L:406:LEU:HD21	1.98	0.45
1:D:14:ARG:HH22	1:E:34:THR:HG23	1.75	0.45
1:E:206:THR:CG2	1:E:348:ARG:H	2.12	0.45
1:F:211:GLY:C	1:F:298:ALA:HB1	2.41	0.45
1:F:461:MET:O	1:F:467:VAL:CG2	2.64	0.45
1:G:383:GLY:O	1:G:387:VAL:HG22	2.17	0.45
1:I:347:ILE:HD11	1:I:359:ALA:HB2	1.98	0.45
1:I:366:VAL:O	1:I:366:VAL:HG12	2.17	0.45
1:J:115:VAL:HG11	1:J:403:ARG:HE	1.82	0.45
1:J:171:ALA:O	1:J:175:VAL:HG23	2.16	0.45
1:K:14:ARG:HG3	1:K:494:ILE:HG12	1.97	0.45
1:L:106:LYS:HE3	1:L:106:LYS:CA	2.47	0.45
1:L:212:VAL:N	1:L:298:ALA:CB	2.79	0.45
1:M:235:LEU:HD11	1:M:310:LEU:CB	2.47	0.45
1:M:296:ALA:HA	1:M:301:ALA:CB	2.37	0.45
1:N:22:ARG:HD2	1:N:23:MET:H	1.80	0.45
1:N:138:ILE:CG1	1:N:139:ALA:N	2.79	0.45
1:O:139:ALA:HB1	1:O:377:ARG:CG	2.46	0.45
1:P:314:ASP:C	1:P:315:LEU:HD23	2.42	0.45
1:A:234:LEU:HD21	1:A:296:ALA:HB2	1.98	0.45
1:A:406:LEU:HD12	1:A:406:LEU:H	1.82	0.45
1:B:208:LEU:HD13	1:B:345:MET:HG3	1.98	0.45
1:B:212:VAL:CG2	1:B:294:LYS:HB3	2.44	0.45
1:B:234:LEU:HD12	1:B:301:ALA:CB	2.46	0.45
1:D:235:LEU:CD2	1:D:310:LEU:CD2	2.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:311:SER:O	1:D:315:LEU:CG	2.64	0.45
1:E:85:GLN:HE21	1:E:85:GLN:HB2	1.20	0.45
1:E:115:VAL:HG21	1:E:403:ARG:CD	2.46	0.45
1:E:134:LEU:HD11	1:E:393:LEU:CD2	2.44	0.45
1:E:153:ILE:HG23	1:E:468:GLU:CA	2.46	0.45
1:E:368:VAL:CG1	1:E:469:PRO:HG3	2.47	0.45
1:F:62:VAL:HG22	1:F:63:THR:N	2.32	0.45
1:F:232:ILE:O	1:F:315:LEU:HD22	2.16	0.45
1:H:36:ARG:CG	1:H:37:SER:N	2.77	0.45
1:H:125:GLN:H	1:H:125:GLN:HG2	1.60	0.45
1:H:406:LEU:HD11	1:I:431:ILE:HG13	1.98	0.45
1:I:178:VAL:CG2	1:I:366:VAL:CG1	2.87	0.45
1:I:362:VAL:O	1:I:362:VAL:HG22	2.17	0.45
1:J:223:MET:HB3	1:J:282:VAL:HG12	1.99	0.45
1:K:115:VAL:HG21	1:K:119:ILE:HG21	1.99	0.45
1:K:219:VAL:HG21	1:K:268:ILE:HG13	1.99	0.45
1:L:254:ILE:CG2	1:L:259:ALA:HB3	2.45	0.45
1:L:351:THR:C	1:L:353:HIS:H	2.25	0.45
1:M:46:LYS:HB3	1:N:492:ASP:OD2	2.17	0.45
1:M:202:SER:OG	1:M:203:ILE:HG12	2.16	0.45
1:M:301:ALA:C	1:M:302:ASN:CG	2.83	0.45
1:M:391:MET:HE2	1:M:438:ARG:HG2	1.97	0.45
1:N:100:ALA:CA	1:N:484:THR:HG21	2.42	0.45
1:N:106:LYS:CE	1:N:109:GLU:CD	2.86	0.45
1:N:263:PHE:CE1	1:N:332:ILE:HG21	2.51	0.45
1:O:81:VAL:CG1	1:O:483:SER:HB3	2.42	0.45
1:O:233:ALA:HA	1:O:315:LEU:HD23	1.98	0.45
1:P:234:LEU:HD11	1:P:296:ALA:HB2	1.98	0.45
1:A:135:LEU:HD12	1:A:389:LEU:HD11	1.99	0.45
1:A:435:VAL:HG11	1:J:401:SER:HB3	1.95	0.45
1:B:63:THR:OG1	1:B:66:ARG:CD	2.64	0.45
1:B:138:ILE:HG13	1:B:379:VAL:HG21	1.97	0.45
1:B:418:ILE:CG2	1:B:422:LEU:CD1	2.95	0.45
1:C:431:ILE:HD11	1:L:402:GLY:C	2.42	0.45
1:D:110:LEU:C	1:D:112:ASP:N	2.73	0.45
1:D:177:ALA:HB2	1:D:208:LEU:CD1	2.46	0.45
1:D:435:VAL:HG11	1:M:401:SER:CB	2.44	0.45
1:D:475:GLN:O	1:D:475:GLN:HG3	2.17	0.45
1:E:135:LEU:CG	1:E:385:THR:CG2	2.95	0.45
1:F:218:ARG:NH1	1:F:282:VAL:CG2	2.79	0.45
1:H:33:GLU:HA	1:H:36:ARG:NE	2.21	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:371:CYS:HA	1:H:471:ARG:HH21	1.81	0.45
1:I:130:LYS:HG3	1:I:393:LEU:HD21	1.98	0.45
1:I:156:THR:CB	1:I:467:VAL:C	2.89	0.45
1:I:459:GLU:CG	1:I:461:MET:HE1	2.46	0.45
1:J:263:PHE:CD2	1:J:295:LEU:HD22	2.51	0.45
1:K:405:GLN:CG	1:K:406:LEU:HG	2.47	0.45
1:K:405:GLN:OE1	1:K:406:LEU:HD21	2.16	0.45
1:L:459:GLU:HG2	1:L:461:MET:CE	2.47	0.45
1:M:42:LYS:CG	1:M:425:ASN:HB2	2.47	0.45
1:M:115:VAL:CG1	1:M:403:ARG:NH1	2.79	0.45
1:N:30:ILE:O	1:N:33:GLU:HB2	2.17	0.45
1:N:116:HIS:HE1	1:N:118:THR:HB	1.82	0.45
1:N:254:ILE:HG23	1:N:259:ALA:HB3	1.98	0.45
1:O:105:ARG:NH1	1:O:106:LYS:HG2	2.32	0.45
1:O:403:ARG:HG3	1:O:403:ARG:HH11	1.81	0.45
1:P:118:THR:O	1:P:118:THR:HG22	2.16	0.45
1:P:158:ILE:HD13	1:P:170:LEU:HB2	1.99	0.45
1:P:197:LYS:HB3	1:P:355:ILE:HG22	1.97	0.45
1:A:25:ILE:HG21	1:A:108:GLU:OE2	2.17	0.45
1:A:118:THR:O	1:A:121:VAL:HG23	2.17	0.45
1:A:219:VAL:HG23	1:A:285:ARG:HB3	1.99	0.45
1:A:276:LEU:HB3	1:A:281:ILE:O	2.17	0.45
1:C:170:LEU:CD2	1:C:358:VAL:CG1	2.88	0.45
1:C:314:ASP:C	1:C:315:LEU:HG	2.42	0.45
1:D:42:LYS:HG3	1:D:426:ALA:N	2.28	0.45
1:E:142:VAL:HG21	1:E:378:ILE:HD13	1.99	0.45
1:E:383:GLY:HA2	1:E:386:GLU:OE2	2.17	0.45
1:E:441:HIS:NE2	1:E:446:ASN:HA	2.31	0.45
1:F:36:ARG:CG	1:F:37:SER:N	2.79	0.45
1:F:99:VAL:O	1:F:103:LEU:HB2	2.16	0.45
1:F:116:HIS:NE2	1:F:117:PRO:HG2	2.31	0.45
1:F:235:LEU:HD22	1:F:262:LEU:CD2	2.43	0.45
1:F:420:ARG:HE	1:F:430:ALA:CB	2.30	0.45
1:G:105:ARG:NH1	1:G:106:LYS:CG	2.80	0.45
1:G:343:VAL:CG1	1:G:343:VAL:O	2.64	0.45
1:H:140:CYS:SG	1:H:447:LYS:HB3	2.56	0.45
1:I:64:ILE:HG21	1:I:64:ILE:HD13	1.78	0.45
1:J:380:SER:OG	1:J:447:LYS:HA	2.16	0.45
1:J:459:GLU:HG2	1:J:461:MET:HE2	1.99	0.45
1:K:345:MET:CE	1:K:362:VAL:HG11	2.46	0.45
1:K:431:ILE:O	1:K:435:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:38:THR:HG23	1:L:46:LYS:CE	2.43	0.45
1:M:441:HIS:CD2	1:M:445:GLY:O	2.70	0.45
1:N:211:GLY:C	1:N:298:ALA:HB2	2.42	0.45
1:N:268:ILE:CB	1:N:273:GLN:HE21	2.28	0.45
1:O:64:ILE:HG22	1:O:65:LEU:HD22	1.98	0.45
1:O:413:ASP:O	1:O:414:ALA:HB2	2.16	0.45
1:P:77:MET:HE2	1:P:77:MET:HB2	1.75	0.45
1:P:299:THR:HG21	1:P:334:VAL:CG1	2.47	0.45
1:P:383:GLY:HA2	1:P:386:GLU:HG2	1.99	0.45
1:P:416:GLU:CD	1:P:434:LEU:HD12	2.42	0.45
1:A:45:ASP:OD1	1:A:45:ASP:N	2.50	0.45
1:A:171:ALA:O	1:A:175:VAL:HG23	2.17	0.45
1:A:193:ILE:HD12	1:A:366:VAL:HG21	1.99	0.45
1:A:380:SER:HB3	1:A:384:SER:CB	2.47	0.45
1:A:391:MET:HE3	1:A:438:ARG:CB	2.43	0.45
1:B:14:ARG:HD2	1:B:494:ILE:HG12	1.99	0.45
1:B:93:THR:O	1:B:97:VAL:HG21	2.16	0.45
1:B:197:LYS:HA	1:B:355:ILE:HD13	1.99	0.45
1:C:206:THR:CB	1:C:347:ILE:HG23	2.47	0.45
1:C:403:ARG:N	1:C:406:LEU:HD22	2.32	0.45
1:D:14:ARG:HH22	1:E:34:THR:CB	2.27	0.45
1:D:177:ALA:CB	1:D:208:LEU:HD11	2.46	0.45
1:D:259:ALA:O	1:D:281:ILE:HD13	2.17	0.45
1:D:310:LEU:HD23	1:D:310:LEU:HA	1.68	0.45
1:E:96:ALA:O	1:E:480:ALA:HB1	2.17	0.45
1:E:118:THR:C	1:E:121:VAL:HG22	2.42	0.45
1:E:346:LEU:CD2	1:E:348:ARG:HG2	2.47	0.45
1:E:448:CYS:O	1:E:449:ALA:HB3	2.17	0.45
1:E:493:VAL:HB	1:F:47:MET:HE2	1.98	0.45
1:F:66:ARG:N	1:F:79:ILE:HD13	2.32	0.45
1:F:174:ILE:CG2	1:F:362:VAL:HG23	2.47	0.45
1:F:190:LYS:H	1:F:190:LYS:HG2	1.23	0.45
1:H:77:MET:CG	1:H:487:LEU:CD2	2.86	0.45
1:I:224:PRO:O	1:I:282:VAL:HG12	2.17	0.45
1:I:234:LEU:HB3	1:I:292:MET:HE3	1.89	0.45
1:J:100:ALA:CB	1:J:484:THR:HG21	2.22	0.45
1:J:134:LEU:CD1	1:J:393:LEU:CG	2.95	0.45
1:J:483:SER:O	1:J:487:LEU:HD12	2.17	0.45
1:K:310:LEU:CD2	1:K:315:LEU:HD21	2.46	0.45
1:M:42:LYS:CE	1:M:426:ALA:CA	2.94	0.45
1:M:117:PRO:O	1:M:120:VAL:CG1	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:150:LEU:CD2	1:M:175:VAL:HG13	2.10	0.45
1:M:156:THR:CG2	1:M:468:GLU:CA	2.91	0.45
1:N:48:LEU:C	1:N:49:VAL:CG2	2.90	0.45
1:N:174:ILE:HG13	1:N:175:VAL:N	2.31	0.45
1:N:377:ARG:NH1	1:N:470:LEU:CD1	2.80	0.45
1:O:48:LEU:C	1:O:49:VAL:CG2	2.90	0.45
1:O:60:ASP:C	1:O:64:ILE:HD12	2.41	0.45
1:O:96:ALA:HB3	1:O:97:VAL:HG13	1.99	0.45
1:O:110:LEU:C	1:O:112:ASP:N	2.74	0.45
1:O:346:LEU:HD23	1:O:347:ILE:H	1.80	0.45
1:P:418:ILE:HB	1:P:419:PRO:CD	2.44	0.45
1:A:96:ALA:O	1:A:480:ALA:HB1	2.16	0.44
1:A:391:MET:HE1	1:A:438:ARG:C	2.42	0.44
1:B:469:PRO:O	1:B:469:PRO:HD2	2.18	0.44
1:E:372:THR:HB	1:E:376:GLY:O	2.18	0.44
1:E:384:SER:CA	1:E:441:HIS:HE1	2.30	0.44
1:F:102:GLU:C	1:F:104:LEU:N	2.75	0.44
1:F:134:LEU:HD12	1:F:393:LEU:HG	1.98	0.44
1:G:428:LEU:HA	1:G:428:LEU:HD23	1.61	0.44
1:H:105:ARG:NH1	1:H:106:LYS:CD	2.80	0.44
1:H:304:ILE:CD1	1:H:310:LEU:CA	2.94	0.44
1:I:153:ILE:HG23	1:I:469:PRO:N	2.32	0.44
1:I:212:VAL:HB	1:I:298:ALA:HB2	1.93	0.44
1:I:488:LEU:HD12	1:I:488:LEU:HA	1.37	0.44
1:J:42:LYS:O	1:J:43:GLY:C	2.60	0.44
1:K:34:THR:HG23	1:L:14:ARG:NH2	2.32	0.44
1:K:82:ALA:HB1	1:K:93:THR:HG23	1.97	0.44
1:K:263:PHE:CZ	1:K:332:ILE:HG21	2.52	0.44
1:L:86:GLU:OE1	1:L:86:GLU:O	2.35	0.44
1:L:344:THR:CG2	1:L:345:MET:N	2.76	0.44
1:M:170:LEU:HD22	1:M:358:VAL:HG11	1.97	0.44
1:M:473:LYS:HA	1:M:473:LYS:HE3	1.99	0.44
1:M:488:LEU:HA	1:M:488:LEU:HD13	1.68	0.44
1:N:195:ILE:H	1:N:195:ILE:HG12	1.64	0.44
1:O:134:LEU:CD1	1:O:393:LEU:HD21	2.46	0.44
1:O:235:LEU:N	1:O:292:MET:HE1	2.32	0.44
1:O:235:LEU:CB	1:O:310:LEU:CD2	2.87	0.44
1:O:262:LEU:HD12	1:O:310:LEU:CD1	2.47	0.44
1:A:197:LYS:C	1:A:355:ILE:HD12	2.43	0.44
1:A:299:THR:HG23	1:A:334:VAL:HG12	1.98	0.44
1:B:35:VAL:HG13	1:B:64:ILE:HG21	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:38:THR:HG22	1:B:59:ASN:HD22	1.81	0.44
1:B:276:LEU:CB	1:B:281:ILE:HG21	2.40	0.44
1:C:405:GLN:O	1:C:409:ARG:HG3	2.16	0.44
1:E:251:VAL:HG11	1:E:276:LEU:HD22	1.98	0.44
1:F:39:LEU:CG	1:F:40:GLY:N	2.80	0.44
1:F:234:LEU:H	1:F:315:LEU:HD11	1.80	0.44
1:F:235:LEU:HD23	1:F:262:LEU:HD21	1.94	0.44
1:F:379:VAL:HG21	1:F:385:THR:OG1	2.17	0.44
1:G:213:LEU:HB3	1:G:344:THR:HG21	1.99	0.44
1:H:98:VAL:C	1:H:100:ALA:H	2.24	0.44
1:H:142:VAL:HG12	1:H:378:ILE:HD11	1.99	0.44
1:I:102:GLU:C	1:I:104:LEU:H	2.25	0.44
1:I:268:ILE:HG21	1:I:273:GLN:CG	2.46	0.44
1:I:413:ASP:O	1:I:416:GLU:HB2	2.18	0.44
1:J:191:ASP:C	1:J:193:ILE:H	2.25	0.44
1:J:197:LYS:HA	1:J:355:ILE:CG2	2.48	0.44
1:K:156:THR:CG2	1:K:468:GLU:HA	2.47	0.44
1:K:362:VAL:O	1:K:366:VAL:HG23	2.18	0.44
1:K:379:VAL:HG11	1:K:385:THR:OG1	2.16	0.44
1:L:100:ALA:HB1	1:L:484:THR:CB	2.45	0.44
1:M:33:GLU:HA	1:M:36:ARG:HE	1.82	0.44
1:M:82:ALA:HB2	1:M:97:VAL:CG2	2.42	0.44
1:M:156:THR:HG21	1:M:468:GLU:N	2.32	0.44
1:N:218:ARG:HH12	1:N:332:ILE:HD13	1.83	0.44
1:N:268:ILE:HG21	1:N:273:GLN:HG2	1.98	0.44
1:O:130:LYS:NZ	1:O:393:LEU:CD2	2.68	0.44
1:O:212:VAL:HG21	1:O:295:LEU:HA	1.98	0.44
1:O:379:VAL:O	1:O:468:GLU:HG3	2.17	0.44
1:O:459:GLU:HB3	1:O:461:MET:HE3	1.93	0.44
1:P:218:ARG:CB	1:P:323:GLU:OE2	2.65	0.44
1:A:62:VAL:O	1:A:66:ARG:HG3	2.17	0.44
1:D:406:LEU:HD23	1:D:406:LEU:N	2.17	0.44
1:D:471:ARG:O	1:D:475:GLN:HB2	2.17	0.44
1:E:227:VAL:CG1	1:E:260:ASN:ND2	2.73	0.44
1:E:437:VAL:HG13	1:E:449:ALA:HB1	1.99	0.44
1:F:218:ARG:CZ	1:F:282:VAL:HG21	2.48	0.44
1:G:89:VAL:CG2	1:G:368:VAL:CG1	2.95	0.44
1:H:397:ALA:HB2	1:H:408:VAL:HG23	2.00	0.44
1:I:254:ILE:HG22	1:I:259:ALA:HB3	1.99	0.44
1:I:383:GLY:O	1:I:387:VAL:HG22	2.17	0.44
1:I:386:GLU:HG3	1:I:419:PRO:HG3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:42:LYS:HB2	1:J:425:ASN:HB3	1.92	0.44
1:K:118:THR:O	1:K:122:LYS:HB2	2.17	0.44
1:K:383:GLY:HA3	1:K:386:GLU:HG2	2.00	0.44
1:L:47:MET:HE2	1:M:493:VAL:CG1	2.42	0.44
1:L:127:ALA:CB	1:L:408:VAL:HG12	2.35	0.44
1:L:394:ARG:NH2	1:L:413:ASP:CG	2.70	0.44
1:L:397:ALA:C	1:L:399:GLY:N	2.74	0.44
1:M:63:THR:O	1:M:63:THR:CG2	2.65	0.44
1:M:130:LYS:CE	1:M:393:LEU:HD23	2.45	0.44
1:N:86:GLU:HA	1:N:90:GLY:HA2	1.98	0.44
1:N:190:LYS:HZ2	1:N:367:GLY:HA3	1.82	0.44
1:O:263:PHE:CE2	1:O:295:LEU:CD2	3.00	0.44
1:P:72:HIS:C	1:P:75:ALA:HB3	2.42	0.44
1:P:105:ARG:O	1:P:105:ARG:HG2	2.03	0.44
1:P:389:LEU:HD13	1:P:415:LEU:HD13	1.99	0.44
1:A:24:ASN:HD22	1:A:24:ASN:HA	1.23	0.44
1:A:36:ARG:HG3	1:A:37:SER:OG	2.17	0.44
1:A:88:GLU:OE1	1:A:475:GLN:CB	2.66	0.44
1:A:153:ILE:HG21	1:A:469:PRO:CA	2.47	0.44
1:B:135:LEU:HD23	1:B:385:THR:CG2	2.47	0.44
1:B:138:ILE:HD11	1:B:385:THR:HG23	1.96	0.44
1:B:235:LEU:CD2	1:B:310:LEU:HG	2.47	0.44
1:B:473:LYS:O	1:B:477:ILE:HG13	2.18	0.44
1:D:30:ILE:C	1:D:32:ALA:N	2.73	0.44
1:D:150:LEU:HB3	1:D:175:VAL:CG2	2.47	0.44
1:D:169:LYS:O	1:D:173:ILE:HG13	2.18	0.44
1:D:379:VAL:CG1	1:D:473:LYS:HG3	2.44	0.44
1:E:39:LEU:CG	1:E:40:GLY:H	2.19	0.44
1:E:134:LEU:HD22	1:E:392:LYS:NZ	2.32	0.44
1:E:153:ILE:HG21	1:E:469:PRO:N	2.32	0.44
1:E:211:GLY:C	1:E:298:ALA:CB	2.90	0.44
1:E:298:ALA:O	1:E:337:CYS:HB3	2.17	0.44
1:E:384:SER:CA	1:E:441:HIS:CE1	3.00	0.44
1:F:118:THR:HG21	1:G:42:LYS:HZ1	1.78	0.44
1:F:431:ILE:C	1:F:431:ILE:HD12	2.43	0.44
1:H:383:GLY:HA2	1:H:386:GLU:OE2	2.17	0.44
1:J:32:ALA:O	1:J:36:ARG:HB3	2.17	0.44
1:J:96:ALA:C	1:J:480:ALA:HB1	2.42	0.44
1:J:107:ALA:O	1:J:111:LEU:HG	2.18	0.44
1:J:405:GLN:O	1:J:409:ARG:HG3	2.18	0.44
1:J:431:ILE:O	1:J:435:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:100:ALA:O	1:K:104:LEU:HG	2.17	0.44
1:M:115:VAL:HG12	1:M:403:ARG:CZ	2.45	0.44
1:M:138:ILE:C	1:M:138:ILE:CD1	2.90	0.44
1:M:239:ILE:HG23	1:M:267:GLY:O	2.17	0.44
1:N:42:LYS:CG	1:N:425:ASN:HB2	2.47	0.44
1:N:62:VAL:HG13	1:N:63:THR:N	2.26	0.44
1:N:64:ILE:HD13	1:N:64:ILE:HG21	1.59	0.44
1:O:152:LYS:HE3	1:O:462:CYS:CA	2.48	0.44
1:O:372:THR:O	1:O:372:THR:HG22	2.18	0.44
1:P:48:LEU:HB3	1:P:49:VAL:H	1.49	0.44
1:P:57:VAL:O	1:P:58:THR:HG23	2.17	0.44
1:P:63:THR:HA	1:P:66:ARG:HB2	1.99	0.44
1:P:170:LEU:HD21	1:P:358:VAL:CG2	2.47	0.44
1:P:232:ILE:HG23	1:P:261:VAL:HG12	2.00	0.44
1:A:121:VAL:HG12	1:A:485:GLU:OE2	2.18	0.44
1:A:156:THR:HG21	1:A:468:GLU:CA	2.48	0.44
1:A:311:SER:O	1:A:315:LEU:HB2	2.17	0.44
1:A:384:SER:CB	1:A:441:HIS:CE1	3.01	0.44
1:B:31:ILE:HG22	1:B:65:LEU:CD2	2.42	0.44
1:B:116:HIS:CE1	1:B:117:PRO:CG	3.00	0.44
1:D:156:THR:HG21	1:D:467:VAL:C	2.42	0.44
1:E:193:ILE:HG23	1:E:343:VAL:HG13	1.99	0.44
1:E:223:MET:HG2	1:E:282:VAL:HA	1.99	0.44
1:E:271:LEU:O	1:E:271:LEU:HD12	2.17	0.44
1:F:239:ILE:HD13	1:F:239:ILE:HG21	1.80	0.44
1:G:177:ALA:HB2	1:G:208:LEU:HD13	1.97	0.44
1:G:369:VAL:O	1:G:373:ILE:HG12	2.17	0.44
1:I:351:THR:O	1:I:355:ILE:HG13	2.17	0.44
1:J:42:LYS:CB	1:J:425:ASN:CB	2.84	0.44
1:J:115:VAL:HG11	1:J:403:ARG:CD	2.48	0.44
1:K:45:ASP:O	1:K:46:LYS:CG	2.66	0.44
1:K:62:VAL:HG13	1:K:63:THR:N	2.33	0.44
1:N:72:HIS:HA	1:N:73:PRO:HD3	1.93	0.44
1:N:211:GLY:C	1:N:298:ALA:CB	2.91	0.44
1:O:48:LEU:HB2	1:O:56:VAL:CG2	2.47	0.44
1:P:123:GLY:HA3	1:P:407:ALA:CB	2.47	0.44
1:P:396:TYR:O	1:P:396:TYR:CG	2.71	0.44
1:A:197:LYS:CB	1:A:355:ILE:CB	2.89	0.44
1:B:416:GLU:O	1:B:420:ARG:HB2	2.18	0.44
1:B:431:ILE:HD13	1:K:403:ARG:HD3	1.99	0.44
1:D:177:ALA:HB2	1:D:208:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:134:LEU:HD22	1:F:392:LYS:HD2	1.99	0.44
1:F:263:PHE:CE1	1:F:332:ILE:HG21	2.52	0.44
1:F:438:ARG:HH12	1:O:405:GLN:HE22	1.65	0.44
1:G:130:LYS:HZ3	1:G:134:LEU:CG	2.31	0.44
1:G:406:LEU:HD12	1:G:406:LEU:N	2.31	0.44
1:H:120:VAL:HG13	1:H:121:VAL:N	2.31	0.44
1:I:387:VAL:HG21	1:I:437:VAL:CG1	2.46	0.44
1:I:396:TYR:CD2	1:I:396:TYR:C	2.94	0.44
1:J:42:LYS:HE2	1:J:426:ALA:CA	2.33	0.44
1:K:138:ILE:N	1:K:139:ALA:HA	2.32	0.44
1:K:420:ARG:HG2	1:K:420:ARG:NH1	2.06	0.44
1:L:17:GLY:HA2	1:L:21:GLN:NE2	2.32	0.44
1:L:151:THR:HA	1:L:154:ALA:HB3	1.99	0.44
1:M:441:HIS:CD2	1:M:449:ALA:CA	2.98	0.44
1:N:24:ASN:N	1:N:24:ASN:ND2	2.65	0.44
1:N:194:LYS:HG2	1:N:195:ILE:N	2.32	0.44
1:N:304:ILE:HD11	1:N:310:LEU:HA	1.98	0.44
1:O:122:LYS:HG3	1:O:125:GLN:NE2	2.33	0.44
1:O:178:VAL:HG22	1:O:193:ILE:HD11	1.99	0.44
1:P:393:LEU:HA	1:P:396:TYR:CB	2.48	0.44
1:P:403:ARG:C	1:P:405:GLN:H	2.26	0.44
1:A:35:VAL:HG12	1:A:64:ILE:HD13	2.00	0.44
1:A:116:HIS:NE2	1:B:425:ASN:HA	2.32	0.44
1:A:380:SER:HB3	1:A:384:SER:HB2	1.99	0.44
1:B:14:ARG:HH12	1:C:34:THR:CB	2.31	0.44
1:B:114:ASN:O	1:B:114:ASN:CG	2.58	0.44
1:B:234:LEU:HD12	1:B:301:ALA:HB1	2.00	0.44
1:C:34:THR:HG22	1:C:35:VAL:CB	2.46	0.44
1:C:156:THR:CG2	1:C:468:GLU:CA	2.96	0.44
1:C:173:ILE:HD11	1:C:206:THR:OG1	2.17	0.44
1:E:37:SER:O	1:E:43:GLY:HA2	2.17	0.44
1:E:153:ILE:HD13	1:E:372:THR:CG2	2.48	0.44
1:E:234:LEU:C	1:E:310:LEU:CD1	2.91	0.44
1:F:114:ASN:O	1:F:115:VAL:C	2.60	0.44
1:F:235:LEU:HD13	1:F:310:LEU:CD2	2.47	0.44
1:G:134:LEU:HB3	1:G:392:LYS:CE	2.41	0.44
1:G:355:ILE:HG21	1:G:355:ILE:HD13	1.64	0.44
1:H:103:LEU:CD2	1:H:411:PHE:CE2	2.94	0.44
1:I:119:ILE:CG1	1:I:403:ARG:HD2	2.44	0.44
1:I:368:VAL:CG2	1:I:469:PRO:CG	2.93	0.44
1:J:115:VAL:CG2	1:J:119:ILE:HB	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:321:VAL:HG12	1:J:321:VAL:O	2.16	0.44
1:J:391:MET:SD	1:J:438:ARG:HB3	2.57	0.44
1:K:139:ALA:HB2	1:K:377:ARG:HG2	2.00	0.44
1:K:178:VAL:HB	1:K:193:ILE:HD11	1.98	0.44
1:K:377:ARG:HB3	1:K:470:LEU:CB	2.47	0.44
1:L:85:GLN:OE1	1:L:476:ALA:HA	2.18	0.44
1:L:257:SER:CB	1:L:311:SER:HA	2.48	0.44
1:M:400:ILE:HD12	1:M:404:GLU:CB	2.48	0.44
1:M:469:PRO:HD2	1:M:472:VAL:CG1	2.47	0.44
1:N:34:THR:HB	1:N:35:VAL:H	1.61	0.44
1:N:138:ILE:CG1	1:N:139:ALA:H	2.28	0.44
1:N:314:ASP:O	1:N:315:LEU:HD23	2.18	0.44
1:N:358:VAL:O	1:N:362:VAL:HG12	2.17	0.44
1:N:391:MET:H	1:N:391:MET:HG2	1.56	0.44
1:P:379:VAL:CG2	1:P:380:SER:N	2.81	0.44
1:A:263:PHE:CD1	1:A:295:LEU:CD1	3.01	0.44
1:A:263:PHE:CD1	1:A:295:LEU:HD11	2.53	0.44
1:B:35:VAL:CG1	1:B:64:ILE:HD13	2.47	0.44
1:B:116:HIS:ND1	1:B:117:PRO:CD	2.67	0.44
1:B:130:LYS:CD	1:B:393:LEU:HD23	2.42	0.44
1:B:391:MET:CE	1:B:438:ARG:O	2.65	0.44
1:B:401:SER:HB2	1:K:435:VAL:HG11	2.00	0.44
1:B:494:ILE:HG21	1:C:48:LEU:HD23	1.99	0.44
1:E:116:HIS:NE2	1:E:117:PRO:HG2	2.32	0.44
1:E:136:LYS:HG2	1:E:377:ARG:NH1	2.33	0.44
1:E:190:LYS:NZ	1:E:367:GLY:HA2	2.33	0.44
1:E:239:ILE:HG23	1:E:239:ILE:O	2.18	0.44
1:E:254:ILE:HG22	1:E:281:ILE:HD13	1.91	0.44
1:E:262:LEU:CD1	1:E:310:LEU:CD2	2.86	0.44
1:E:421:THR:HG22	1:E:425:ASN:HD21	1.82	0.44
1:F:16:MET:CG	1:F:16:MET:O	2.66	0.44
1:F:31:ILE:HG21	1:F:65:LEU:CD2	2.48	0.44
1:F:96:ALA:CB	1:F:480:ALA:CB	2.94	0.44
1:G:195:ILE:CG2	1:G:359:ALA:HB2	2.48	0.44
1:G:345:MET:HB3	1:G:345:MET:HE3	1.56	0.44
1:G:438:ARG:NH1	1:P:405:GLN:HE22	2.16	0.44
1:H:99:VAL:HG12	1:H:418:ILE:HD11	1.98	0.44
1:H:381:GLY:C	1:H:383:GLY:H	2.24	0.44
1:H:383:GLY:O	1:H:387:VAL:HG23	2.18	0.44
1:I:391:MET:SD	1:I:442:ALA:HB2	2.57	0.44
1:J:39:LEU:CD1	1:J:40:GLY:H	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:368:VAL:HB	1:J:469:PRO:HB3	1.99	0.44
1:K:235:LEU:HD12	1:K:262:LEU:HD11	2.00	0.44
1:L:42:LYS:HG3	1:L:426:ALA:N	2.32	0.44
1:L:296:ALA:HA	1:L:301:ALA:HB3	1.99	0.44
1:M:134:LEU:HD12	1:M:393:LEU:CG	2.47	0.44
1:M:234:LEU:N	1:M:315:LEU:HD21	2.30	0.44
1:M:235:LEU:CG	1:M:310:LEU:HG	2.47	0.44
1:N:486:MET:C	1:N:488:LEU:N	2.74	0.44
1:O:106:LYS:CE	1:O:106:LYS:CA	2.95	0.44
1:P:170:LEU:O	1:P:174:ILE:HG23	2.18	0.44
1:A:98:VAL:C	1:A:100:ALA:H	2.26	0.44
1:B:156:THR:CB	1:B:467:VAL:C	2.91	0.44
1:C:24:ASN:HD22	1:C:24:ASN:HA	1.27	0.44
1:C:100:ALA:O	1:C:104:LEU:HG	2.17	0.44
1:C:291:ASP:O	1:C:295:LEU:HG	2.17	0.44
1:C:377:ARG:HB2	1:C:470:LEU:CG	2.46	0.44
1:D:31:ILE:CG2	1:D:65:LEU:CD2	2.91	0.44
1:D:77:MET:HB3	1:D:77:MET:HE2	1.36	0.44
1:D:174:ILE:CD1	1:D:365:ALA:HB1	2.42	0.44
1:E:119:ILE:O	1:E:119:ILE:HG22	2.15	0.44
1:E:158:ILE:CD1	1:E:170:LEU:HB3	2.47	0.44
1:E:177:ALA:CB	1:E:193:ILE:CD1	2.80	0.44
1:E:212:VAL:HG21	1:E:294:LYS:HB3	1.98	0.44
1:E:350:THR:OG1	1:E:354:VAL:HG21	2.18	0.44
1:G:384:SER:OG	1:G:441:HIS:HE1	2.00	0.44
1:H:153:ILE:HA	1:H:467:VAL:O	2.17	0.44
1:I:235:LEU:HD21	1:I:310:LEU:CG	2.46	0.44
1:I:299:THR:HG22	1:I:318:ALA:HB2	1.99	0.44
1:J:346:LEU:HD23	1:J:347:ILE:H	1.83	0.44
1:L:86:GLU:O	1:L:86:GLU:CD	2.60	0.44
1:L:173:ILE:H	1:L:173:ILE:HG12	1.71	0.44
1:L:234:LEU:HD21	1:L:296:ALA:N	2.32	0.44
1:L:263:PHE:CE2	1:L:295:LEU:HD21	2.53	0.44
1:M:348:ARG:HH11	1:M:348:ARG:HD2	1.58	0.44
1:N:102:GLU:C	1:N:104:LEU:H	2.25	0.44
1:N:489:ARG:O	1:N:490:ILE:C	2.57	0.44
1:P:158:ILE:CD1	1:P:170:LEU:HB3	2.48	0.44
1:A:124:TYR:OH	1:A:410:ALA:HB3	2.17	0.43
1:A:233:ALA:HB2	1:A:315:LEU:HG	1.99	0.43
1:B:72:HIS:HB3	1:B:75:ALA:CB	2.48	0.43
1:B:98:VAL:C	1:B:100:ALA:N	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:193:ILE:HD12	1:C:366:VAL:CG2	2.48	0.43
1:C:271:LEU:HG	1:C:271:LEU:O	2.18	0.43
1:C:387:VAL:O	1:C:390:SER:HB3	2.18	0.43
1:D:124:TYR:HE1	1:D:407:ALA:O	1.98	0.43
1:D:377:ARG:O	1:D:470:LEU:HB2	2.18	0.43
1:D:459:GLU:CB	1:D:461:MET:HE2	2.48	0.43
1:F:62:VAL:CG1	1:F:63:THR:H	2.18	0.43
1:G:134:LEU:CD1	1:G:393:LEU:CG	2.96	0.43
1:G:178:VAL:HG21	1:G:366:VAL:HG22	1.92	0.43
1:G:251:VAL:CG1	1:G:276:LEU:HB3	2.48	0.43
1:I:98:VAL:C	1:I:100:ALA:H	2.25	0.43
1:I:263:PHE:CZ	1:I:332:ILE:HG21	2.53	0.43
1:J:77:MET:HB2	1:J:487:LEU:HD21	1.99	0.43
1:J:104:LEU:HD21	1:J:484:THR:O	2.18	0.43
1:J:119:ILE:CG2	1:J:119:ILE:O	2.66	0.43
1:J:155:MET:HB2	1:J:167:LYS:HD3	1.98	0.43
1:K:77:MET:HE2	1:K:487:LEU:HD11	1.99	0.43
1:K:124:TYR:OH	1:K:410:ALA:HB3	2.18	0.43
1:K:154:ALA:HB3	1:K:171:ALA:HB1	1.99	0.43
1:K:346:LEU:HD22	1:K:348:ARG:HG2	1.99	0.43
1:L:152:LYS:HD3	1:L:467:VAL:CG2	2.48	0.43
1:L:384:SER:OG	1:L:441:HIS:HE1	2.00	0.43
1:M:31:ILE:HG21	1:M:65:LEU:HD22	1.97	0.43
1:O:223:MET:HE1	1:O:283:ALA:HB3	2.00	0.43
1:O:380:SER:HA	1:O:384:SER:HB2	1.99	0.43
1:A:190:LYS:H	1:A:190:LYS:HG2	1.66	0.43
1:A:190:LYS:NZ	1:A:367:GLY:HA2	2.32	0.43
1:A:196:GLU:OE2	1:A:197:LYS:CE	2.66	0.43
1:C:99:VAL:O	1:C:103:LEU:HB2	2.18	0.43
1:D:108:GLU:C	1:D:110:LEU:H	2.26	0.43
1:D:494:ILE:HD12	1:D:494:ILE:HG21	1.72	0.43
1:E:72:HIS:CE1	1:E:74:ALA:HB3	2.53	0.43
1:E:135:LEU:HD21	1:E:473:LYS:HD2	2.01	0.43
1:E:209:ILE:HG13	1:E:209:ILE:O	2.18	0.43
1:E:218:ARG:HD3	1:E:282:VAL:HG22	1.99	0.43
1:F:117:PRO:O	1:F:121:VAL:HG13	2.17	0.43
1:F:263:PHE:CE1	1:F:332:ILE:HD13	2.53	0.43
1:F:346:LEU:HD22	1:F:348:ARG:HG2	2.00	0.43
1:F:418:ILE:O	1:F:422:LEU:HG	2.18	0.43
1:G:14:ARG:HH22	1:H:34:THR:CG2	2.30	0.43
1:G:22:ARG:HA	1:G:25:ILE:CG1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:105:ARG:NH1	1:G:106:LYS:HD2	2.28	0.43
1:G:120:VAL:O	1:G:124:TYR:CD1	2.71	0.43
1:G:211:GLY:CA	1:G:298:ALA:HB1	2.49	0.43
1:G:299:THR:HG22	1:G:318:ALA:HB2	2.00	0.43
1:H:368:VAL:HG21	1:H:469:PRO:HG3	1.95	0.43
1:I:138:ILE:HD11	1:I:385:THR:CG2	2.45	0.43
1:I:152:LYS:HD2	1:I:465:GLY:N	2.33	0.43
1:I:304:ILE:HD13	1:I:310:LEU:HA	1.99	0.43
1:I:385:THR:O	1:I:389:LEU:HG	2.17	0.43
1:J:211:GLY:C	1:J:298:ALA:HB1	2.43	0.43
1:J:413:ASP:O	1:J:416:GLU:HB2	2.18	0.43
1:L:48:LEU:HB2	1:L:56:VAL:CG2	2.27	0.43
1:L:115:VAL:CG2	1:L:403:ARG:CD	2.90	0.43
1:L:235:LEU:HD11	1:L:239:ILE:HG22	1.94	0.43
1:L:281:ILE:HG21	1:L:281:ILE:HD13	1.83	0.43
1:M:89:VAL:O	1:M:89:VAL:CG2	2.66	0.43
1:M:170:LEU:O	1:M:174:ILE:HG23	2.18	0.43
1:M:299:THR:HG22	1:M:334:VAL:HG12	2.00	0.43
1:O:156:THR:CG2	1:O:468:GLU:HA	2.48	0.43
1:P:85:GLN:HE22	1:P:476:ALA:N	2.16	0.43
1:P:93:THR:O	1:P:97:VAL:CG2	2.66	0.43
1:P:139:ALA:HA	1:P:379:VAL:HB	1.99	0.43
1:P:153:ILE:CG2	1:P:469:PRO:CD	2.95	0.43
1:B:65:LEU:C	1:B:79:ILE:HD13	2.44	0.43
1:B:102:GLU:OE2	1:B:417:VAL:HG21	2.18	0.43
1:C:101:GLY:O	1:C:102:GLU:C	2.60	0.43
1:D:170:LEU:CD1	1:D:358:VAL:HG13	2.41	0.43
1:D:459:GLU:CG	1:D:461:MET:CE	2.76	0.43
1:E:477:ILE:HD12	1:E:477:ILE:HG21	1.63	0.43
1:G:178:VAL:HG23	1:G:366:VAL:HG22	1.92	0.43
1:G:203:ILE:HG23	1:G:203:ILE:HD13	1.63	0.43
1:G:380:SER:HB2	1:G:384:SER:HB2	2.00	0.43
1:G:486:MET:C	1:G:488:LEU:N	2.76	0.43
1:I:102:GLU:OE2	1:I:417:VAL:CG1	2.60	0.43
1:K:234:LEU:HA	1:K:292:MET:HE1	2.00	0.43
1:M:393:LEU:HD23	1:M:393:LEU:HA	1.86	0.43
1:N:299:THR:HG22	1:N:334:VAL:CG1	2.48	0.43
1:O:171:ALA:HA	1:O:174:ILE:CG1	2.47	0.43
1:P:17:GLY:O	1:P:21:GLN:HG3	2.17	0.43
1:P:130:LYS:HD2	1:P:134:LEU:HG	1.99	0.43
1:P:235:LEU:HB2	1:P:310:LEU:CD2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:191:ASP:O	1:A:294:LYS:HD3	2.18	0.43
1:B:218:ARG:CZ	1:B:282:VAL:HG21	2.48	0.43
1:C:59:ASN:C	1:C:59:ASN:ND2	2.76	0.43
1:C:190:LYS:H	1:C:190:LYS:HG2	1.57	0.43
1:C:389:LEU:HD12	1:C:415:LEU:HD13	2.01	0.43
1:C:469:PRO:HG2	1:C:472:VAL:CG1	2.47	0.43
1:D:102:GLU:OE2	1:D:417:VAL:HG11	2.19	0.43
1:D:391:MET:CE	1:D:438:ARG:HG2	2.47	0.43
1:E:96:ALA:CA	1:E:480:ALA:HB2	2.47	0.43
1:E:105:ARG:HH11	1:E:106:LYS:CG	2.31	0.43
1:E:116:HIS:C	1:E:118:THR:N	2.77	0.43
1:E:235:LEU:CD2	1:E:310:LEU:CD2	2.97	0.43
1:E:384:SER:CB	1:E:441:HIS:CE1	2.91	0.43
1:G:197:LYS:HB3	1:G:355:ILE:CG2	2.49	0.43
1:H:234:LEU:N	1:H:315:LEU:HG	2.32	0.43
1:I:34:THR:HA	1:J:14:ARG:NH2	2.33	0.43
1:I:347:ILE:CD1	1:I:359:ALA:HB2	2.48	0.43
1:I:379:VAL:CG1	1:I:473:LYS:HG3	2.47	0.43
1:J:120:VAL:O	1:J:124:TYR:CD2	2.72	0.43
1:J:211:GLY:C	1:J:298:ALA:HB2	2.43	0.43
1:K:200:GLY:O	1:K:348:ARG:HB3	2.18	0.43
1:L:124:TYR:HE1	1:L:407:ALA:CB	2.28	0.43
1:L:130:LYS:HD2	1:L:393:LEU:HD21	1.99	0.43
1:L:391:MET:CE	1:L:438:ARG:O	2.62	0.43
1:M:48:LEU:CB	1:M:56:VAL:HG13	2.47	0.43
1:M:195:ILE:CG1	1:M:359:ALA:HB1	2.49	0.43
1:N:251:VAL:HG12	1:N:276:LEU:HG	1.88	0.43
1:N:347:ILE:HB	1:N:355:ILE:HG22	2.00	0.43
1:O:31:ILE:CG2	1:O:65:LEU:CD2	2.97	0.43
1:P:99:VAL:CG1	1:P:418:ILE:CD1	2.96	0.43
1:P:122:LYS:HG3	1:P:125:GLN:NE2	2.33	0.43
1:P:296:ALA:CB	1:P:301:ALA:O	2.60	0.43
1:A:411:PHE:HZ	1:A:481:ALA:HB2	1.84	0.43
1:A:448:CYS:O	1:A:449:ALA:CB	2.60	0.43
1:B:287:VAL:HG12	1:B:291:ASP:HB2	2.00	0.43
1:C:64:ILE:HG23	1:C:65:LEU:CD2	2.38	0.43
1:C:78:LEU:HD12	1:C:487:LEU:HD11	1.97	0.43
1:C:206:THR:CB	1:C:347:ILE:CG2	2.96	0.43
1:C:212:VAL:CG2	1:C:294:LYS:HB3	2.48	0.43
1:D:72:HIS:CD2	1:D:73:PRO:HD2	2.53	0.43
1:D:105:ARG:HD3	1:D:106:LYS:HG2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:115:VAL:HG12	1:D:403:ARG:NH2	2.34	0.43
1:D:116:HIS:CG	1:D:117:PRO:CD	3.01	0.43
1:D:386:GLU:HB2	1:D:387:VAL:H	1.66	0.43
1:E:36:ARG:CG	1:E:37:SER:N	2.81	0.43
1:E:405:GLN:OE1	1:E:406:LEU:HD23	2.19	0.43
1:G:34:THR:HG22	1:G:35:VAL:CG2	2.47	0.43
1:G:296:ALA:O	1:G:300:GLY:HA2	2.18	0.43
1:H:89:VAL:HG22	1:H:89:VAL:O	2.16	0.43
1:H:310:LEU:CD2	1:H:315:LEU:HD23	2.48	0.43
1:H:346:LEU:HD21	1:H:348:ARG:HD3	2.01	0.43
1:I:34:THR:HG23	1:J:14:ARG:HH22	1.83	0.43
1:I:62:VAL:HG13	1:I:63:THR:N	2.34	0.43
1:I:174:ILE:HD13	1:I:174:ILE:HG21	1.69	0.43
1:I:259:ALA:O	1:I:281:ILE:HD13	2.18	0.43
1:I:291:ASP:O	1:I:295:LEU:HG	2.18	0.43
1:J:22:ARG:O	1:J:26:LEU:HB2	2.18	0.43
1:J:391:MET:HE1	1:J:438:ARG:NE	2.33	0.43
1:K:106:LYS:HA	1:K:106:LYS:CE	2.40	0.43
1:K:150:LEU:HB3	1:K:175:VAL:HG21	2.01	0.43
1:K:263:PHE:HZ	1:K:332:ILE:HG21	1.84	0.43
1:K:469:PRO:CG	1:K:472:VAL:HG21	2.48	0.43
1:L:195:ILE:HG21	1:L:362:VAL:HG13	2.01	0.43
1:L:197:LYS:H	1:L:197:LYS:HG3	1.65	0.43
1:L:384:SER:CA	1:L:441:HIS:CE1	3.02	0.43
1:L:396:TYR:CE2	1:L:400:ILE:HD13	2.53	0.43
1:M:368:VAL:O	1:M:371:CYS:HB2	2.18	0.43
1:M:483:SER:O	1:M:486:MET:HB3	2.17	0.43
1:N:25:ILE:HG22	1:N:26:LEU:N	2.33	0.43
1:N:232:ILE:HG13	1:N:261:VAL:CG1	2.42	0.43
1:N:263:PHE:CG	1:N:295:LEU:CD1	3.02	0.43
1:N:405:GLN:CG	1:N:406:LEU:HG	2.48	0.43
1:P:30:ILE:CG2	1:P:31:ILE:HD13	2.49	0.43
1:P:194:LYS:CG	1:P:195:ILE:N	2.81	0.43
1:P:235:LEU:HD12	1:P:264:CYS:HB3	2.00	0.43
1:B:192:LEU:O	1:B:342:ALA:HB1	2.18	0.43
1:C:192:LEU:CD2	1:C:342:ALA:HB2	2.48	0.43
1:C:281:ILE:HD12	1:C:281:ILE:HG21	1.61	0.43
1:E:42:LYS:CB	1:E:425:ASN:CB	2.78	0.43
1:E:132:GLN:NE2	1:E:132:GLN:CA	2.82	0.43
1:G:212:VAL:N	1:G:298:ALA:HB1	2.34	0.43
1:H:36:ARG:HH11	1:H:36:ARG:HD3	1.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:120:VAL:CG1	1:H:121:VAL:N	2.82	0.43
1:I:102:GLU:OE2	1:I:417:VAL:HG21	2.19	0.43
1:J:119:ILE:O	1:J:119:ILE:HG22	2.18	0.43
1:J:154:ALA:HB1	1:J:174:ILE:HD12	1.94	0.43
1:K:156:THR:CB	1:K:467:VAL:C	2.92	0.43
1:M:115:VAL:CG2	1:M:119:ILE:HB	2.48	0.43
1:M:121:VAL:O	1:M:125:GLN:HG2	2.18	0.43
1:M:368:VAL:CB	1:M:469:PRO:CG	2.75	0.43
1:N:119:ILE:HG21	1:N:403:ARG:HB3	1.94	0.43
1:N:192:LEU:HG	1:N:342:ALA:HB2	2.01	0.43
1:N:209:ILE:HG13	1:N:211:GLY:HA3	1.99	0.43
1:O:102:GLU:OE1	1:O:102:GLU:HA	2.18	0.43
1:P:62:VAL:HG22	1:P:63:THR:N	2.33	0.43
1:B:24:ASN:HD22	1:B:24:ASN:HA	1.40	0.43
1:B:79:ILE:O	1:B:83:LYS:HB2	2.19	0.43
1:B:153:ILE:HD12	1:B:153:ILE:HG21	1.63	0.43
1:B:385:THR:O	1:B:389:LEU:HG	2.19	0.43
1:C:139:ALA:HB1	1:C:377:ARG:HB3	2.01	0.43
1:D:116:HIS:C	1:D:118:THR:N	2.77	0.43
1:E:105:ARG:CZ	1:E:106:LYS:HG2	2.48	0.43
1:E:170:LEU:HD11	1:E:358:VAL:CG1	2.49	0.43
1:E:254:ILE:HG12	1:E:310:LEU:HD22	2.00	0.43
1:F:380:SER:HB2	1:F:384:SER:CB	2.49	0.43
1:F:473:LYS:HE3	1:F:473:LYS:CA	2.46	0.43
1:G:16:MET:HA	1:G:491:ASP:O	2.18	0.43
1:H:132:GLN:NE2	1:H:132:GLN:CA	2.81	0.43
1:H:206:THR:CG2	1:H:348:ARG:N	2.63	0.43
1:I:140:CYS:SG	1:I:378:ILE:HG13	2.58	0.43
1:I:155:MET:HB2	1:I:167:LYS:HB2	1.99	0.43
1:I:156:THR:HG21	1:I:468:GLU:CA	2.48	0.43
1:I:262:LEU:CD1	1:I:310:LEU:CD2	2.97	0.43
1:J:122:LYS:HA	1:J:125:GLN:NE2	2.32	0.43
1:J:232:ILE:O	1:J:315:LEU:HD22	2.19	0.43
1:K:134:LEU:H	1:K:134:LEU:HG	1.56	0.43
1:K:139:ALA:CB	1:K:377:ARG:HG2	2.48	0.43
1:L:100:ALA:CB	1:L:484:THR:CG2	2.69	0.43
1:L:209:ILE:CD1	1:L:213:LEU:HD12	2.49	0.43
1:N:42:LYS:CD	1:O:118:THR:CG2	2.96	0.43
1:N:371:CYS:HB3	1:N:471:ARG:NH1	2.32	0.43
1:O:34:THR:CG2	1:P:14:ARG:NH2	2.74	0.43
1:O:134:LEU:HD22	1:O:392:LYS:HD3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:347:ILE:HD11	1:P:359:ALA:HB2	2.00	0.43
1:A:38:THR:HG23	1:A:46:LYS:HZ1	1.77	0.43
1:A:115:VAL:HG13	1:A:119:ILE:HB	2.00	0.43
1:A:333:PHE:O	1:A:334:VAL:HG22	2.18	0.43
1:B:299:THR:HG22	1:B:334:VAL:HG11	2.01	0.43
1:C:299:THR:CG2	1:C:334:VAL:HG12	2.49	0.43
1:C:431:ILE:HG13	1:L:406:LEU:HD11	2.01	0.43
1:E:32:ALA:O	1:E:33:GLU:C	2.60	0.43
1:E:120:VAL:HG23	1:E:124:TYR:CD2	2.52	0.43
1:E:254:ILE:HG12	1:E:310:LEU:HD23	2.01	0.43
1:F:14:ARG:NE	1:F:494:ILE:HD11	2.32	0.43
1:F:344:THR:HG22	1:F:345:MET:N	2.34	0.43
1:G:447:LYS:O	1:G:448:CYS:CB	2.63	0.43
1:G:468:GLU:HA	1:G:469:PRO:HD3	1.76	0.43
1:H:219:VAL:HG21	1:H:268:ILE:CG1	2.44	0.43
1:H:239:ILE:HG23	1:H:268:ILE:HG23	1.99	0.43
1:I:114:ASN:C	1:I:114:ASN:HD22	2.26	0.43
1:I:235:LEU:CG	1:I:310:LEU:HD22	2.48	0.43
1:I:268:ILE:HB	1:I:273:GLN:NE2	2.19	0.43
1:J:34:THR:HG23	1:K:14:ARG:NH2	2.33	0.43
1:J:62:VAL:HG22	1:J:63:THR:N	2.32	0.43
1:J:151:THR:O	1:J:155:MET:HG3	2.19	0.43
1:J:383:GLY:O	1:J:387:VAL:HG22	2.19	0.43
1:K:166:ALA:HB3	1:K:170:LEU:HG	2.00	0.43
1:L:16:MET:H	1:L:16:MET:HG2	1.16	0.43
1:L:152:LYS:HZ1	1:L:462:CYS:C	2.26	0.43
1:M:98:VAL:C	1:M:100:ALA:H	2.27	0.43
1:M:108:GLU:O	1:M:109:GLU:C	2.59	0.43
1:M:115:VAL:HG21	1:M:119:ILE:HG21	2.00	0.43
1:M:251:VAL:HG11	1:M:276:LEU:CD2	2.35	0.43
1:M:260:ASN:O	1:M:282:VAL:HG22	2.19	0.43
1:N:178:VAL:O	1:N:178:VAL:HG12	2.18	0.43
1:N:233:ALA:HB1	1:N:315:LEU:HD11	2.01	0.43
1:N:346:LEU:CD2	1:N:348:ARG:HG2	2.44	0.43
1:P:31:ILE:CG2	1:P:65:LEU:HG	2.49	0.43
1:P:304:ILE:CD1	1:P:310:LEU:HA	2.48	0.43
1:A:38:THR:CG2	1:A:46:LYS:HZ3	2.29	0.43
1:A:265:GLN:HA	1:A:287:VAL:O	2.19	0.43
1:B:14:ARG:CD	1:B:494:ILE:HG12	2.49	0.43
1:B:362:VAL:O	1:B:366:VAL:HG23	2.19	0.43
1:B:473:LYS:HZ2	1:B:473:LYS:HG2	1.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:493:VAL:CG1	1:D:47:MET:HE2	2.40	0.43
1:D:36:ARG:HE	1:D:36:ARG:HB3	1.52	0.43
1:D:152:LYS:HG2	1:D:465:GLY:C	2.44	0.43
1:D:152:LYS:HB3	1:D:467:VAL:HG23	2.00	0.43
1:D:173:ILE:CD1	1:D:206:THR:OG1	2.62	0.43
1:D:203:ILE:H	1:D:203:ILE:HG12	1.51	0.43
1:E:64:ILE:HD13	1:E:64:ILE:HG21	1.68	0.43
1:E:119:ILE:HD12	1:E:403:ARG:CB	2.49	0.43
1:F:223:MET:HB3	1:F:282:VAL:HA	2.01	0.43
1:G:25:ILE:CD1	1:G:108:GLU:OE2	2.66	0.43
1:H:311:SER:O	1:H:315:LEU:HB2	2.18	0.43
1:J:178:VAL:HA	1:J:181:VAL:HG22	2.01	0.43
1:J:195:ILE:H	1:J:195:ILE:HG12	1.54	0.43
1:L:38:THR:HB	1:L:59:ASN:HD22	1.83	0.43
1:L:119:ILE:HG21	1:L:403:ARG:CG	2.48	0.43
1:M:171:ALA:HA	1:M:174:ILE:HG12	2.00	0.43
1:N:36:ARG:HG2	1:N:37:SER:OG	2.19	0.43
1:N:48:LEU:O	1:N:56:VAL:HG23	2.19	0.43
1:N:64:ILE:HG22	1:N:65:LEU:HG	2.01	0.43
1:N:158:ILE:HD11	1:N:170:LEU:HB3	2.00	0.43
1:O:212:VAL:CG2	1:O:294:LYS:C	2.86	0.43
1:O:216:LYS:CB	1:O:284:ALA:HB1	2.49	0.43
1:O:347:ILE:CG2	1:O:358:VAL:HB	2.42	0.43
1:P:209:ILE:HG21	1:P:209:ILE:HD13	1.71	0.43
1:P:276:LEU:CD2	1:P:281:ILE:HD13	2.48	0.43
1:A:296:ALA:HA	1:A:301:ALA:HB3	2.01	0.43
1:A:405:GLN:O	1:A:409:ARG:HG3	2.19	0.43
1:B:116:HIS:CE1	1:B:117:PRO:HD2	2.47	0.43
1:B:139:ALA:HB2	1:B:470:LEU:HD11	2.01	0.43
1:B:140:CYS:SG	1:B:447:LYS:HD3	2.59	0.43
1:C:82:ALA:HB1	1:C:93:THR:HG22	2.01	0.43
1:C:138:ILE:O	1:C:446:ASN:HB3	2.19	0.43
1:D:197:LYS:C	1:D:355:ILE:HD12	2.39	0.43
1:D:209:ILE:HD11	1:D:213:LEU:HB2	2.00	0.43
1:E:138:ILE:O	1:E:446:ASN:CB	2.66	0.43
1:E:403:ARG:NH1	1:E:403:ARG:HG2	2.25	0.43
1:E:406:LEU:HD11	1:N:431:ILE:CG1	2.48	0.43
1:E:420:ARG:HG3	1:E:430:ALA:HB1	2.01	0.43
1:F:218:ARG:HD3	1:F:282:VAL:HB	2.01	0.43
1:G:402:GLY:C	1:P:431:ILE:CD1	2.92	0.43
1:H:42:LYS:CD	1:H:426:ALA:N	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:116:HIS:CE1	1:H:117:PRO:CG	3.01	0.43
1:I:379:VAL:HG22	1:I:380:SER:N	2.34	0.43
1:J:25:ILE:HG22	1:J:26:LEU:N	2.34	0.43
1:J:152:LYS:HE2	1:J:462:CYS:O	2.18	0.43
1:J:158:ILE:CD1	1:J:170:LEU:HB2	2.43	0.43
1:J:362:VAL:O	1:J:366:VAL:HG23	2.19	0.43
1:K:347:ILE:HD13	1:K:358:VAL:C	2.44	0.43
1:K:448:CYS:O	1:K:449:ALA:CB	2.66	0.43
1:L:99:VAL:O	1:L:103:LEU:HB2	2.18	0.43
1:L:194:LYS:HG2	1:L:195:ILE:H	1.82	0.43
1:L:235:LEU:HD11	1:L:239:ILE:HG23	1.94	0.43
1:M:178:VAL:O	1:M:178:VAL:CG2	2.67	0.43
1:N:130:LYS:HD3	1:N:396:TYR:CG	2.54	0.43
1:P:72:HIS:HB3	1:P:75:ALA:HB2	2.00	0.43
1:P:153:ILE:CD1	1:P:378:ILE:CG2	2.96	0.43
1:P:211:GLY:O	1:P:298:ALA:HB2	2.18	0.43
1:A:135:LEU:HD23	1:A:138:ILE:HD11	1.99	0.42
1:A:175:VAL:CG1	1:A:175:VAL:O	2.62	0.42
1:A:299:THR:CG2	1:A:318:ALA:HB2	2.45	0.42
1:A:343:VAL:O	1:A:343:VAL:HG13	2.19	0.42
1:A:368:VAL:CB	1:A:469:PRO:HG2	2.49	0.42
1:B:14:ARG:NH1	1:C:34:THR:CB	2.82	0.42
1:B:195:ILE:H	1:B:195:ILE:HG12	1.65	0.42
1:C:135:LEU:CD2	1:C:385:THR:CG2	2.97	0.42
1:D:64:ILE:HG22	1:D:65:LEU:N	2.33	0.42
1:D:197:LYS:H	1:D:197:LYS:HG2	1.07	0.42
1:E:135:LEU:HG	1:E:385:THR:CG2	2.49	0.42
1:E:477:ILE:O	1:E:481:ALA:HB2	2.19	0.42
1:G:43:GLY:O	1:G:44:MET:CE	2.67	0.42
1:G:213:LEU:HD22	1:G:333:PHE:CE2	2.54	0.42
1:H:26:LEU:HD23	1:H:26:LEU:HA	1.76	0.42
1:H:233:ALA:HB3	1:H:310:LEU:HD11	2.00	0.42
1:I:152:LYS:HB3	1:I:465:GLY:HA2	2.01	0.42
1:I:235:LEU:CD2	1:I:310:LEU:CB	2.66	0.42
1:J:115:VAL:CG1	1:J:403:ARG:HE	2.31	0.42
1:K:45:ASP:C	1:K:46:LYS:CG	2.92	0.42
1:K:136:LYS:H	1:K:136:LYS:HG3	1.42	0.42
1:K:379:VAL:C	1:K:467:VAL:HG12	2.44	0.42
1:L:276:LEU:HD12	1:L:281:ILE:HG22	1.83	0.42
1:L:355:ILE:HG21	1:L:355:ILE:HD13	1.65	0.42
1:N:17:GLY:O	1:N:21:GLN:HB2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:38:THR:HG21	1:N:59:ASN:O	2.19	0.42
1:N:345:MET:HB3	1:N:345:MET:HE2	1.67	0.42
1:N:389:LEU:O	1:N:393:LEU:HB2	2.19	0.42
1:O:38:THR:HG21	1:O:46:LYS:CE	2.49	0.42
1:P:134:LEU:HB3	1:P:392:LYS:NZ	2.34	0.42
1:A:57:VAL:O	1:A:58:THR:HG23	2.19	0.42
1:A:438:ARG:NH2	1:J:405:GLN:HE22	2.09	0.42
1:B:96:ALA:O	1:B:480:ALA:HB1	2.18	0.42
1:C:135:LEU:HD23	1:C:385:THR:CG2	2.50	0.42
1:C:142:VAL:HG13	1:C:378:ILE:CD1	2.48	0.42
1:C:223:MET:CE	1:C:283:ALA:CB	2.97	0.42
1:C:405:GLN:HE22	1:L:438:ARG:HH12	1.66	0.42
1:D:468:GLU:HB2	1:D:469:PRO:CD	2.49	0.42
1:E:235:LEU:CD1	1:E:310:LEU:CG	2.97	0.42
1:G:95:THR:HG22	1:G:96:ALA:N	2.34	0.42
1:G:152:LYS:HE3	1:G:462:CYS:CA	2.39	0.42
1:G:383:GLY:HA2	1:G:386:GLU:OE2	2.20	0.42
1:G:388:GLU:HB2	1:G:441:HIS:CD2	2.54	0.42
1:G:418:ILE:HD12	1:G:418:ILE:HG23	1.83	0.42
1:H:42:LYS:HB3	1:H:425:ASN:HD22	1.83	0.42
1:H:406:LEU:HD11	1:I:431:ILE:CD1	2.49	0.42
1:I:377:ARG:CD	1:I:470:LEU:HD11	2.28	0.42
1:I:387:VAL:O	1:I:391:MET:HG2	2.19	0.42
1:J:30:ILE:HG22	1:J:31:ILE:CG1	2.49	0.42
1:J:377:ARG:CB	1:J:470:LEU:HD12	2.48	0.42
1:J:486:MET:C	1:J:488:LEU:N	2.77	0.42
1:K:132:GLN:NE2	1:K:132:GLN:CA	2.60	0.42
1:L:39:LEU:CD1	1:L:40:GLY:H	2.32	0.42
1:L:152:LYS:HZ2	1:L:462:CYS:C	2.27	0.42
1:L:155:MET:HB2	1:L:167:LYS:HD3	2.01	0.42
1:M:431:ILE:O	1:M:431:ILE:HG13	2.18	0.42
1:P:99:VAL:HG11	1:P:418:ILE:HD13	2.01	0.42
1:P:190:LYS:HB3	1:P:190:LYS:HE2	1.75	0.42
1:A:88:GLU:CD	1:A:475:GLN:CB	2.92	0.42
1:A:152:LYS:HG2	1:A:465:GLY:O	2.19	0.42
1:B:296:ALA:CA	1:B:301:ALA:HB3	2.49	0.42
1:B:377:ARG:O	1:B:470:LEU:HB2	2.19	0.42
1:D:105:ARG:HH11	1:D:106:LYS:CG	2.32	0.42
1:D:130:LYS:CD	1:D:396:TYR:CG	2.97	0.42
1:D:192:LEU:O	1:D:342:ALA:HB1	2.18	0.42
1:D:262:LEU:CG	1:D:310:LEU:HD11	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:281:ILE:HG21	1:D:281:ILE:HD12	1.68	0.42
1:E:152:LYS:HG2	1:E:465:GLY:C	2.44	0.42
1:F:34:THR:HG22	1:F:35:VAL:CB	2.49	0.42
1:G:130:LYS:HD3	1:G:396:TYR:CD1	2.55	0.42
1:G:192:LEU:N	1:G:192:LEU:HD12	2.35	0.42
1:H:158:ILE:HB	1:H:361:ALA:CB	2.49	0.42
1:H:251:VAL:HG13	1:H:276:LEU:HG	2.01	0.42
1:I:102:GLU:C	1:I:104:LEU:N	2.77	0.42
1:I:107:ALA:O	1:I:111:LEU:HG	2.19	0.42
1:I:233:ALA:HB1	1:I:315:LEU:HD11	2.01	0.42
1:J:105:ARG:CZ	1:J:106:LYS:CD	2.96	0.42
1:J:130:LYS:NZ	1:J:134:LEU:HD11	2.33	0.42
1:J:391:MET:O	1:J:395:GLU:HG3	2.20	0.42
1:K:135:LEU:HD23	1:K:385:THR:CG2	2.44	0.42
1:K:264:CYS:CB	1:K:266:LYS:O	2.65	0.42
1:L:156:THR:CG2	1:L:468:GLU:CB	2.96	0.42
1:L:209:ILE:HD13	1:L:213:LEU:HD12	2.00	0.42
1:M:397:ALA:C	1:M:399:GLY:H	2.27	0.42
1:N:181:VAL:HG11	1:N:193:ILE:CG1	2.50	0.42
1:O:152:LYS:CG	1:O:467:VAL:HG23	2.44	0.42
1:O:387:VAL:C	1:O:390:SER:HB3	2.44	0.42
1:P:346:LEU:CD2	1:P:348:ARG:HD3	2.49	0.42
1:A:108:GLU:O	1:A:109:GLU:C	2.62	0.42
1:A:124:TYR:HD1	1:A:124:TYR:N	2.17	0.42
1:A:153:ILE:CD1	1:A:372:THR:OG1	2.64	0.42
1:A:383:GLY:C	1:A:386:GLU:HG2	2.44	0.42
1:B:347:ILE:HG21	1:B:358:VAL:HG11	2.00	0.42
1:C:192:LEU:CG	1:C:342:ALA:HB2	2.50	0.42
1:D:14:ARG:NH2	1:E:34:THR:CG2	2.75	0.42
1:D:105:ARG:NH1	1:D:106:LYS:CD	2.76	0.42
1:D:154:ALA:HB1	1:D:171:ALA:HA	2.01	0.42
1:D:178:VAL:CG2	1:D:366:VAL:HG22	2.49	0.42
1:E:494:ILE:O	1:F:49:VAL:HG23	2.19	0.42
1:G:116:HIS:C	1:G:118:THR:N	2.77	0.42
1:G:119:ILE:HG21	1:G:403:ARG:HD2	2.02	0.42
1:G:174:ILE:HG21	1:G:174:ILE:HD13	1.64	0.42
1:G:203:ILE:H	1:G:203:ILE:HG12	1.35	0.42
1:G:224:PRO:O	1:G:282:VAL:CG1	2.68	0.42
1:H:30:ILE:O	1:H:30:ILE:CG2	2.59	0.42
1:H:131:ALA:O	1:H:135:LEU:HD12	2.20	0.42
1:I:77:MET:HE2	1:I:77:MET:HB2	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:153:ILE:HD13	1:I:467:VAL:HG22	2.01	0.42
1:J:96:ALA:HA	1:J:480:ALA:CB	2.49	0.42
1:J:224:PRO:O	1:J:282:VAL:HG11	2.18	0.42
1:J:488:LEU:O	1:J:488:LEU:CG	2.63	0.42
1:L:170:LEU:HD21	1:L:358:VAL:HG22	2.00	0.42
1:L:299:THR:CG2	1:L:334:VAL:CG1	2.97	0.42
1:L:404:GLU:O	1:L:408:VAL:HG22	2.19	0.42
1:L:438:ARG:HH11	1:L:438:ARG:HD3	1.29	0.42
1:M:134:LEU:HD12	1:M:393:LEU:CD2	2.42	0.42
1:M:344:THR:HG22	1:M:345:MET:N	2.33	0.42
1:M:441:HIS:CD2	1:M:449:ALA:HB3	2.54	0.42
1:N:121:VAL:C	1:N:123:GLY:N	2.78	0.42
1:N:192:LEU:O	1:N:342:ALA:CA	2.66	0.42
1:O:21:GLN:O	1:O:25:ILE:HG13	2.19	0.42
1:O:122:LYS:C	1:O:125:GLN:HG2	2.44	0.42
1:P:96:ALA:HA	1:P:480:ALA:CB	2.50	0.42
1:P:158:ILE:HD13	1:P:170:LEU:CB	2.49	0.42
1:P:254:ILE:HG22	1:P:259:ALA:HB3	2.01	0.42
1:A:134:LEU:HD22	1:A:392:LYS:HE3	2.00	0.42
1:B:102:GLU:C	1:B:104:LEU:H	2.28	0.42
1:B:178:VAL:HG21	1:B:366:VAL:HG22	1.96	0.42
1:B:486:MET:HG2	1:B:486:MET:O	2.16	0.42
1:C:138:ILE:CD1	1:C:379:VAL:CG2	2.80	0.42
1:C:206:THR:CG2	1:C:347:ILE:CG2	2.93	0.42
1:C:206:THR:HB	1:C:346:LEU:O	2.19	0.42
1:C:233:ALA:HA	1:C:315:LEU:CD1	2.49	0.42
1:D:116:HIS:C	1:D:118:THR:H	2.27	0.42
1:D:212:VAL:HB	1:D:298:ALA:HB3	2.01	0.42
1:D:268:ILE:HG21	1:D:268:ILE:HD13	1.56	0.42
1:D:389:LEU:CD1	1:D:415:LEU:HD21	2.42	0.42
1:G:26:LEU:HD23	1:G:26:LEU:HA	1.70	0.42
1:G:401:SER:OG	1:P:435:VAL:CG1	2.62	0.42
1:G:438:ARG:HH12	1:P:405:GLN:HE22	1.67	0.42
1:H:158:ILE:HD11	1:H:170:LEU:CB	2.49	0.42
1:H:232:ILE:N	1:H:232:ILE:HD12	2.34	0.42
1:H:310:LEU:HD21	1:H:315:LEU:CD2	2.48	0.42
1:J:38:THR:HG21	1:J:59:ASN:O	2.19	0.42
1:J:418:ILE:O	1:J:422:LEU:HG	2.19	0.42
1:K:89:VAL:O	1:K:89:VAL:CG2	2.67	0.42
1:K:124:TYR:CD2	1:K:411:PHE:HD2	2.37	0.42
1:K:485:GLU:O	1:K:485:GLU:HG3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:16:MET:C	1:L:20:ALA:HB2	2.44	0.42
1:L:119:ILE:CG2	1:L:403:ARG:CB	2.83	0.42
1:L:393:LEU:O	1:L:396:TYR:HB3	2.19	0.42
1:L:475:GLN:HE21	1:L:475:GLN:HB2	1.73	0.42
1:M:391:MET:HE1	1:M:438:ARG:O	2.20	0.42
1:N:22:ARG:HD2	1:N:22:ARG:C	2.44	0.42
1:N:234:LEU:N	1:N:234:LEU:HD23	2.34	0.42
1:O:42:LYS:HG3	1:O:426:ALA:N	2.26	0.42
1:O:122:LYS:HA	1:O:125:GLN:NE2	2.33	0.42
1:O:192:LEU:CB	1:O:342:ALA:HB2	2.37	0.42
1:P:203:ILE:O	1:P:203:ILE:HG13	2.19	0.42
1:P:470:LEU:HD23	1:P:470:LEU:HA	2.01	0.42
1:B:124:TYR:CE1	1:B:407:ALA:O	2.72	0.42
1:B:232:ILE:CG1	1:B:261:VAL:HG11	2.49	0.42
1:B:383:GLY:C	1:B:386:GLU:HG2	2.45	0.42
1:C:171:ALA:HA	1:C:174:ILE:CD1	2.49	0.42
1:C:234:LEU:H	1:C:315:LEU:CD2	2.28	0.42
1:C:384:SER:OG	1:C:441:HIS:CE1	2.70	0.42
1:D:132:GLN:NE2	1:D:478:GLN:HG2	2.35	0.42
1:D:268:ILE:HG22	1:D:273:GLN:HG3	2.02	0.42
1:E:158:ILE:HD13	1:E:361:ALA:HB1	2.00	0.42
1:E:235:LEU:HD22	1:E:310:LEU:CD2	2.48	0.42
1:F:139:ALA:HB1	1:F:378:ILE:O	2.19	0.42
1:G:79:ILE:O	1:G:83:LYS:HB2	2.19	0.42
1:G:150:LEU:HB3	1:G:175:VAL:CG2	2.50	0.42
1:H:232:ILE:HD12	1:H:232:ILE:H	1.84	0.42
1:I:190:LYS:NZ	1:I:367:GLY:CA	2.83	0.42
1:I:235:LEU:CD2	1:I:310:LEU:HD22	2.50	0.42
1:I:235:LEU:HD21	1:I:310:LEU:HD22	2.01	0.42
1:J:63:THR:HA	1:J:66:ARG:HB3	2.02	0.42
1:K:16:MET:H	1:K:16:MET:HG2	1.75	0.42
1:K:136:LYS:HE3	1:K:136:LYS:HB2	1.75	0.42
1:K:192:LEU:O	1:K:342:ALA:CB	2.67	0.42
1:K:234:LEU:HD12	1:K:296:ALA:HB2	1.98	0.42
1:L:158:ILE:HD13	1:L:170:LEU:HD23	2.01	0.42
1:L:405:GLN:O	1:L:409:ARG:HG2	2.19	0.42
1:M:195:ILE:HG13	1:M:359:ALA:HB1	2.00	0.42
1:M:251:VAL:HG13	1:M:276:LEU:HD13	2.02	0.42
1:N:170:LEU:O	1:N:174:ILE:HG23	2.19	0.42
1:O:138:ILE:HD12	1:O:385:THR:CB	2.50	0.42
1:O:212:VAL:HG21	1:O:295:LEU:CA	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:471:ARG:O	1:O:475:GLN:HB2	2.19	0.42
1:P:119:ILE:CG1	1:P:403:ARG:HB2	2.48	0.42
1:P:138:ILE:CD1	1:P:385:THR:CG2	2.98	0.42
1:A:14:ARG:NH2	1:B:34:THR:HG23	2.33	0.42
1:B:38:THR:HG22	1:B:44:MET:O	2.19	0.42
1:B:72:HIS:HB3	1:B:75:ALA:HB2	2.01	0.42
1:B:192:LEU:HD13	1:B:192:LEU:H	1.84	0.42
1:B:268:ILE:CG2	1:B:273:GLN:HG2	2.47	0.42
1:D:153:ILE:HG21	1:D:153:ILE:HD13	1.60	0.42
1:D:195:ILE:HG21	1:D:362:VAL:HG13	2.02	0.42
1:D:368:VAL:HA	1:D:371:CYS:SG	2.60	0.42
1:D:391:MET:CE	1:D:438:ARG:HD2	2.49	0.42
1:E:29:ARG:O	1:E:30:ILE:C	2.63	0.42
1:E:116:HIS:CE1	1:E:117:PRO:HG2	2.54	0.42
1:E:139:ALA:CB	1:E:377:ARG:HD2	2.48	0.42
1:F:403:ARG:N	1:O:431:ILE:HD11	2.35	0.42
1:G:138:ILE:HA	1:G:446:ASN:HB3	2.02	0.42
1:H:102:GLU:OE1	1:H:102:GLU:HA	2.19	0.42
1:I:38:THR:HG23	1:I:46:LYS:NZ	2.35	0.42
1:I:345:MET:HB3	1:I:345:MET:HE2	1.39	0.42
1:J:36:ARG:HE	1:J:36:ARG:HB2	1.16	0.42
1:J:38:THR:CG2	1:J:46:LYS:HE2	2.50	0.42
1:J:61:GLY:N	1:J:64:ILE:HD12	2.35	0.42
1:K:391:MET:HE1	1:K:438:ARG:C	2.45	0.42
1:L:48:LEU:CD2	1:M:494:ILE:CD1	2.92	0.42
1:M:174:ILE:HD13	1:M:174:ILE:HG21	1.88	0.42
1:M:468:GLU:HB2	1:M:469:PRO:CD	2.49	0.42
1:N:347:ILE:HB	1:N:355:ILE:CG2	2.49	0.42
1:O:110:LEU:HA	1:O:110:LEU:HD23	1.87	0.42
1:O:431:ILE:O	1:O:431:ILE:HG13	2.20	0.42
1:O:459:GLU:CB	1:O:461:MET:CE	2.89	0.42
1:P:171:ALA:HA	1:P:174:ILE:HD13	2.02	0.42
1:P:171:ALA:C	1:P:174:ILE:HG12	2.45	0.42
1:P:416:GLU:OE2	1:P:434:LEU:HD12	2.19	0.42
1:A:227:VAL:HG11	1:A:260:ASN:ND2	2.34	0.42
1:B:31:ILE:HD13	1:B:31:ILE:HG23	1.72	0.42
1:B:158:ILE:HG21	1:B:170:LEU:HD12	2.01	0.42
1:B:281:ILE:HG23	1:B:281:ILE:HD13	1.81	0.42
1:B:296:ALA:HB1	1:B:301:ALA:O	2.19	0.42
1:C:195:ILE:HB	1:C:359:ALA:CB	2.50	0.42
1:D:97:VAL:O	1:D:100:ALA:HB3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:404:GLU:O	1:D:408:VAL:HG22	2.18	0.42
1:G:36:ARG:HH11	1:G:36:ARG:HD2	1.50	0.42
1:G:166:ALA:CB	1:G:203:ILE:CG2	2.75	0.42
1:G:166:ALA:CB	1:G:203:ILE:HG22	2.45	0.42
1:G:212:VAL:N	1:G:298:ALA:CB	2.82	0.42
1:H:223:MET:SD	1:H:282:VAL:HA	2.60	0.42
1:I:166:ALA:CB	1:I:203:ILE:CG2	2.97	0.42
1:I:208:LEU:CD2	1:I:343:VAL:CG2	2.93	0.42
1:J:138:ILE:O	1:J:446:ASN:CB	2.68	0.42
1:K:85:GLN:NE2	1:K:479:SER:CB	2.82	0.42
1:K:119:ILE:CD1	1:K:403:ARG:HH11	2.32	0.42
1:K:130:LYS:HD2	1:K:396:TYR:CE1	2.54	0.42
1:K:135:LEU:CD2	1:K:385:THR:CG2	2.97	0.42
1:K:203:ILE:H	1:K:203:ILE:HG12	1.48	0.42
1:K:472:VAL:HG12	1:K:473:LYS:N	2.34	0.42
1:L:16:MET:HA	1:L:20:ALA:HB2	2.00	0.42
1:L:400:ILE:HD11	1:L:408:VAL:HG21	2.01	0.42
1:M:311:SER:C	1:M:315:LEU:HD12	2.44	0.42
1:N:31:ILE:H	1:N:31:ILE:CD1	2.31	0.42
1:N:63:THR:O	1:N:63:THR:HG23	2.20	0.42
1:N:140:CYS:SG	1:N:447:LYS:HB3	2.59	0.42
1:O:63:THR:HG23	1:O:63:THR:O	2.20	0.42
1:O:85:GLN:NE2	1:O:479:SER:HB2	2.35	0.42
1:O:262:LEU:CD1	1:O:310:LEU:CD1	2.97	0.42
1:O:377:ARG:O	1:O:470:LEU:HB2	2.20	0.42
1:P:30:ILE:HG22	1:P:31:ILE:CB	2.49	0.42
1:P:213:LEU:HD11	1:P:346:LEU:CD1	2.50	0.42
1:P:418:ILE:CB	1:P:419:PRO:CD	2.98	0.42
1:B:254:ILE:HG22	1:B:281:ILE:HD11	2.02	0.42
1:C:119:ILE:HG21	1:C:403:ARG:HD2	2.00	0.42
1:C:135:LEU:HD21	1:C:385:THR:HG21	2.00	0.42
1:C:136:LYS:H	1:C:136:LYS:HG3	1.67	0.42
1:D:42:LYS:CG	1:D:426:ALA:N	2.82	0.42
1:D:492:ASP:OD2	1:E:46:LYS:HG2	2.20	0.42
1:E:170:LEU:O	1:E:174:ILE:HG23	2.20	0.42
1:E:232:ILE:HG22	1:E:234:LEU:HD23	2.02	0.42
1:E:254:ILE:O	1:E:259:ALA:HB3	2.20	0.42
1:G:155:MET:SD	1:G:167:LYS:HD3	2.60	0.42
1:H:130:LYS:CE	1:H:396:TYR:HB2	2.50	0.42
1:H:386:GLU:H	1:H:386:GLU:HG2	1.32	0.42
1:I:130:LYS:CG	1:I:393:LEU:HD21	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:343:VAL:O	1:I:343:VAL:CG1	2.62	0.42
1:I:475:GLN:O	1:I:479:SER:HB2	2.20	0.42
1:K:174:ILE:HD12	1:K:365:ALA:HB1	2.01	0.42
1:K:345:MET:HE1	1:K:362:VAL:HG11	2.02	0.42
1:L:254:ILE:HG22	1:L:259:ALA:CB	2.45	0.42
1:L:368:VAL:HG21	1:L:469:PRO:HG3	2.02	0.42
1:M:138:ILE:HD13	1:M:385:THR:OG1	2.20	0.42
1:M:177:ALA:CB	1:M:208:LEU:HD13	2.40	0.42
1:N:153:ILE:HG23	1:N:469:PRO:CD	2.49	0.42
1:N:447:LYS:C	1:N:448:CYS:SG	3.02	0.42
1:O:42:LYS:HE2	1:O:426:ALA:N	2.34	0.42
1:O:100:ALA:CB	1:O:484:THR:CG2	2.73	0.42
1:P:178:VAL:HG22	1:P:366:VAL:CG2	2.46	0.42
1:P:299:THR:HG21	1:P:334:VAL:HG11	2.01	0.42
1:A:42:LYS:NZ	1:H:118:THR:HG21	2.35	0.42
1:A:102:GLU:C	1:A:104:LEU:N	2.78	0.42
1:B:154:ALA:O	1:B:158:ILE:HG12	2.20	0.42
1:C:211:GLY:CA	1:C:298:ALA:HB1	2.50	0.42
1:C:448:CYS:O	1:C:449:ALA:HB2	2.20	0.42
1:D:48:LEU:O	1:D:56:VAL:HB	2.20	0.42
1:D:94:THR:HG23	1:D:98:VAL:CG2	2.49	0.42
1:E:212:VAL:HB	1:E:298:ALA:CB	2.49	0.42
1:E:213:LEU:HD11	1:E:333:PHE:CE2	2.54	0.42
1:G:35:VAL:CG1	1:G:64:ILE:HG21	2.50	0.42
1:G:62:VAL:O	1:G:66:ARG:HB2	2.19	0.42
1:G:364:ASP:O	1:G:368:VAL:HG22	2.20	0.42
1:G:391:MET:CE	1:G:438:ARG:CG	2.98	0.42
1:H:389:LEU:CD1	1:H:415:LEU:CD1	2.97	0.42
1:I:98:VAL:C	1:I:100:ALA:N	2.78	0.42
1:I:178:VAL:HG21	1:I:366:VAL:CG2	2.47	0.42
1:J:263:PHE:CE2	1:J:295:LEU:CD2	3.03	0.42
1:K:77:MET:CB	1:K:80:GLU:OE1	2.64	0.42
1:K:291:ASP:O	1:K:295:LEU:HD12	2.20	0.42
1:K:404:GLU:O	1:K:408:VAL:HG13	2.20	0.42
1:L:156:THR:HG21	1:L:468:GLU:HB3	2.00	0.42
1:L:400:ILE:HD13	1:L:400:ILE:HG23	1.82	0.42
1:M:284:ALA:HB2	1:M:332:ILE:CD1	2.50	0.42
1:M:420:ARG:CZ	1:M:430:ALA:HB3	2.49	0.42
1:M:441:HIS:CD2	1:M:449:ALA:CB	3.02	0.42
1:N:362:VAL:O	1:N:362:VAL:HG22	2.20	0.42
1:N:459:GLU:HG3	1:N:459:GLU:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:135:LEU:CD2	1:O:385:THR:CG2	2.98	0.42
1:P:96:ALA:CB	1:P:480:ALA:CB	2.97	0.42
1:P:156:THR:O	1:P:156:THR:HG23	2.20	0.42
1:P:213:LEU:HD12	1:P:346:LEU:HD12	1.97	0.42
1:P:232:ILE:HG13	1:P:261:VAL:CG1	2.48	0.42
1:P:377:ARG:CG	1:P:470:LEU:CD1	2.98	0.42
1:A:152:LYS:HZ1	1:A:465:GLY:N	2.19	0.41
1:A:192:LEU:HG	1:A:342:ALA:CB	2.40	0.41
1:A:223:MET:HG2	1:A:281:ILE:C	2.45	0.41
1:B:30:ILE:CG2	1:B:31:ILE:HG12	2.45	0.41
1:B:35:VAL:HG12	1:B:64:ILE:HD13	2.02	0.41
1:B:119:ILE:HG21	1:B:403:ARG:HD3	2.01	0.41
1:B:134:LEU:CD2	1:B:392:LYS:NZ	2.79	0.41
1:B:212:VAL:N	1:B:298:ALA:CB	2.83	0.41
1:D:139:ALA:HB1	1:D:377:ARG:HG3	2.01	0.41
1:E:91:ASP:OD2	1:E:368:VAL:HG11	2.20	0.41
1:E:124:TYR:CE1	1:E:407:ALA:O	2.71	0.41
1:E:431:ILE:HD11	1:N:403:ARG:CA	2.50	0.41
1:E:466:VAL:H	1:E:466:VAL:HG22	1.55	0.41
1:F:174:ILE:HD12	1:F:365:ALA:HB1	2.02	0.41
1:F:232:ILE:H	1:F:232:ILE:CD1	2.33	0.41
1:G:82:ALA:HB2	1:G:97:VAL:HG21	2.01	0.41
1:G:377:ARG:NE	1:G:470:LEU:HD12	2.35	0.41
1:G:391:MET:HE1	1:G:438:ARG:C	2.39	0.41
1:H:384:SER:OG	1:H:441:HIS:HE1	2.03	0.41
1:H:386:GLU:CD	1:H:386:GLU:N	2.74	0.41
1:I:42:LYS:CE	1:I:426:ALA:CA	2.97	0.41
1:I:171:ALA:O	1:I:175:VAL:HG23	2.20	0.41
1:I:191:ASP:O	1:I:294:LYS:HE3	2.20	0.41
1:I:223:MET:CB	1:I:282:VAL:HA	2.37	0.41
1:I:386:GLU:CD	1:I:386:GLU:N	2.72	0.41
1:J:391:MET:HE2	1:J:391:MET:HB3	1.94	0.41
1:K:119:ILE:CD1	1:K:403:ARG:NH1	2.82	0.41
1:L:235:LEU:CG	1:L:310:LEU:HD22	2.49	0.41
1:L:391:MET:HE2	1:L:438:ARG:HG2	2.01	0.41
1:N:35:VAL:HG12	1:N:38:THR:OG1	2.19	0.41
1:N:347:ILE:CG2	1:N:355:ILE:HG23	2.49	0.41
1:P:106:LYS:HE3	1:P:106:LYS:HA	2.02	0.41
1:P:123:GLY:HA2	1:P:404:GLU:HB3	2.02	0.41
1:P:232:ILE:CD1	1:P:232:ILE:N	2.82	0.41
1:A:30:ILE:HG21	1:A:31:ILE:HG12	1.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:233:ALA:CB	1:A:310:LEU:HD11	2.31	0.41
1:B:36:ARG:HE	1:B:36:ARG:HB3	1.47	0.41
1:B:99:VAL:O	1:B:103:LEU:HB2	2.20	0.41
1:B:235:LEU:HG	1:B:310:LEU:HD12	1.91	0.41
1:B:263:PHE:CD2	1:B:295:LEU:HD13	2.55	0.41
1:B:431:ILE:CD1	1:K:403:ARG:HD3	2.50	0.41
1:C:130:LYS:O	1:C:134:LEU:HG	2.19	0.41
1:C:368:VAL:HG21	1:C:469:PRO:CG	2.48	0.41
1:D:134:LEU:CD1	1:D:393:LEU:HD21	2.49	0.41
1:D:152:LYS:HG2	1:D:465:GLY:CA	2.47	0.41
1:D:209:ILE:HD13	1:D:209:ILE:HG21	1.84	0.41
1:D:251:VAL:HG11	1:D:276:LEU:HD22	2.01	0.41
1:D:351:THR:O	1:D:352:GLU:C	2.62	0.41
1:D:422:LEU:N	1:D:425:ASN:ND2	2.67	0.41
1:E:170:LEU:O	1:E:174:ILE:HD13	2.20	0.41
1:E:209:ILE:HD13	1:E:209:ILE:HG21	1.87	0.41
1:E:262:LEU:HD11	1:E:310:LEU:HD22	2.00	0.41
1:E:358:VAL:O	1:E:362:VAL:HG12	2.20	0.41
1:E:400:ILE:CD1	1:E:408:VAL:CG1	2.93	0.41
1:F:116:HIS:HD2	1:F:118:THR:OG1	2.03	0.41
1:F:175:VAL:O	1:F:175:VAL:HG12	2.20	0.41
1:F:276:LEU:HB2	1:F:281:ILE:HG13	2.00	0.41
1:G:194:LYS:CG	1:G:195:ILE:N	2.83	0.41
1:G:386:GLU:HG3	1:G:419:PRO:HG3	2.02	0.41
1:H:72:HIS:ND1	1:H:73:PRO:CD	2.83	0.41
1:H:212:VAL:HG23	1:H:298:ALA:HB2	2.02	0.41
1:I:233:ALA:HB2	1:I:315:LEU:HD13	2.02	0.41
1:J:138:ILE:O	1:J:446:ASN:HB2	2.20	0.41
1:J:384:SER:OG	1:J:449:ALA:C	2.63	0.41
1:K:55:VAL:HG11	1:L:73:PRO:HB3	2.02	0.41
1:K:170:LEU:CD1	1:K:358:VAL:HG22	2.50	0.41
1:K:224:PRO:O	1:K:282:VAL:CG1	2.68	0.41
1:K:232:ILE:O	1:K:315:LEU:CG	2.66	0.41
1:L:36:ARG:CG	1:L:37:SER:N	2.80	0.41
1:L:134:LEU:HD23	1:L:134:LEU:HA	1.73	0.41
1:L:385:THR:HG21	1:L:473:LYS:HD2	2.02	0.41
1:M:178:VAL:HB	1:M:193:ILE:CD1	2.49	0.41
1:M:431:ILE:O	1:M:435:VAL:HG23	2.19	0.41
1:N:218:ARG:HH12	1:N:332:ILE:CD1	2.33	0.41
1:O:31:ILE:HG22	1:O:65:LEU:CD2	2.50	0.41
1:O:178:VAL:CG2	1:O:193:ILE:CD1	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:218:ARG:HH22	1:O:321:VAL:HG12	1.84	0.41
1:P:42:LYS:HD3	1:P:426:ALA:N	2.36	0.41
1:P:178:VAL:HG21	1:P:366:VAL:HG13	1.99	0.41
1:P:232:ILE:HA	1:P:261:VAL:HB	2.01	0.41
1:P:233:ALA:CA	1:P:315:LEU:CD1	2.96	0.41
1:P:369:VAL:O	1:P:369:VAL:CG1	2.68	0.41
1:A:389:LEU:HD22	1:A:393:LEU:CD1	2.49	0.41
1:A:441:HIS:HD1	1:A:449:ALA:HB3	1.85	0.41
1:B:120:VAL:O	1:B:124:TYR:CD1	2.73	0.41
1:B:355:ILE:HG21	1:B:355:ILE:HD13	1.73	0.41
1:B:401:SER:CB	1:K:435:VAL:CG1	2.98	0.41
1:B:418:ILE:O	1:B:422:LEU:HD12	2.21	0.41
1:C:98:VAL:C	1:C:100:ALA:N	2.74	0.41
1:C:206:THR:HG22	1:C:348:ARG:N	2.31	0.41
1:D:353:HIS:O	1:D:357:GLU:HB3	2.21	0.41
1:E:62:VAL:HG13	1:E:63:THR:H	1.82	0.41
1:E:254:ILE:CG2	1:E:259:ALA:HB3	2.50	0.41
1:F:441:HIS:CG	1:F:449:ALA:HB3	2.52	0.41
1:G:347:ILE:CD1	1:G:359:ALA:HB3	2.50	0.41
1:G:418:ILE:HG22	1:G:419:PRO:HD3	2.01	0.41
1:I:135:LEU:CD1	1:I:385:THR:HG21	2.50	0.41
1:I:235:LEU:HD12	1:I:262:LEU:CD2	2.48	0.41
1:I:402:GLY:O	1:I:406:LEU:HD21	2.21	0.41
1:J:24:ASN:HD22	1:J:24:ASN:HA	1.36	0.41
1:J:119:ILE:CD1	1:J:403:ARG:HB2	2.33	0.41
1:J:311:SER:O	1:J:315:LEU:HD12	2.20	0.41
1:K:437:VAL:HG13	1:K:449:ALA:O	2.20	0.41
1:M:34:THR:CG2	1:M:35:VAL:CG2	2.76	0.41
1:M:171:ALA:HA	1:M:174:ILE:CD1	2.50	0.41
1:P:209:ILE:HD11	1:P:213:LEU:HB2	2.01	0.41
1:P:232:ILE:N	1:P:232:ILE:HD12	2.35	0.41
1:A:72:HIS:O	1:A:75:ALA:HB3	2.20	0.41
1:A:380:SER:HB3	1:A:384:SER:OG	2.20	0.41
1:B:206:THR:HG22	1:B:348:ARG:N	2.34	0.41
1:B:386:GLU:HG3	1:B:419:PRO:HG3	2.02	0.41
1:B:420:ARG:O	1:B:423:ALA:HB3	2.20	0.41
1:C:235:LEU:O	1:C:264:CYS:HA	2.20	0.41
1:C:254:ILE:HG22	1:C:281:ILE:HD11	2.01	0.41
1:D:42:LYS:HB3	1:D:425:ASN:HB3	1.98	0.41
1:D:232:ILE:HA	1:D:261:VAL:HB	2.02	0.41
1:E:418:ILE:HB	1:E:419:PRO:CD	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:134:LEU:HD22	1:F:392:LYS:NZ	2.36	0.41
1:F:153:ILE:H	1:F:153:ILE:HG13	1.66	0.41
1:F:192:LEU:CB	1:F:342:ALA:CB	2.99	0.41
1:F:263:PHE:HE1	1:F:332:ILE:HD13	1.86	0.41
1:G:347:ILE:CD1	1:G:359:ALA:CB	2.98	0.41
1:G:347:ILE:HB	1:G:355:ILE:HG23	2.02	0.41
1:H:234:LEU:CD1	1:H:301:ALA:HB3	2.50	0.41
1:H:355:ILE:HG21	1:H:355:ILE:HD13	1.87	0.41
1:I:104:LEU:HD21	1:I:484:THR:HB	2.02	0.41
1:I:153:ILE:CD1	1:I:378:ILE:CB	2.93	0.41
1:I:209:ILE:C	1:I:211:GLY:H	2.28	0.41
1:I:369:VAL:C	1:I:371:CYS:N	2.79	0.41
1:J:100:ALA:HB1	1:J:484:THR:CB	2.51	0.41
1:J:223:MET:CE	1:J:283:ALA:HB3	2.42	0.41
1:K:192:LEU:HB2	1:K:342:ALA:CA	2.49	0.41
1:L:400:ILE:HD11	1:L:408:VAL:HG11	2.02	0.41
1:M:105:ARG:HH11	1:M:105:ARG:HD3	1.50	0.41
1:M:170:LEU:HD22	1:M:358:VAL:CG2	2.51	0.41
1:M:315:LEU:HD23	1:M:315:LEU:HA	1.85	0.41
1:M:379:VAL:HG13	1:M:470:LEU:HD21	2.02	0.41
1:N:116:HIS:CE1	1:N:118:THR:HB	2.55	0.41
1:N:389:LEU:O	1:N:393:LEU:CD2	2.68	0.41
1:O:156:THR:HG21	1:O:468:GLU:HA	1.98	0.41
1:O:193:ILE:CD1	1:O:366:VAL:HG11	2.42	0.41
1:P:99:VAL:CG1	1:P:418:ILE:HD11	2.50	0.41
1:A:197:LYS:C	1:A:355:ILE:CD1	2.94	0.41
1:A:206:THR:CB	1:A:347:ILE:HG23	2.50	0.41
1:B:194:LYS:C	1:B:195:ILE:HG23	2.45	0.41
1:B:263:PHE:CG	1:B:295:LEU:HD13	2.56	0.41
1:B:346:LEU:CD2	1:B:348:ARG:HD3	2.50	0.41
1:B:422:LEU:HA	1:B:425:ASN:ND2	2.23	0.41
1:C:377:ARG:NH1	1:C:470:LEU:HD11	2.36	0.41
1:D:403:ARG:CD	1:M:431:ILE:CD1	2.81	0.41
1:E:233:ALA:C	1:E:315:LEU:HD22	2.43	0.41
1:E:299:THR:CG2	1:E:334:VAL:CG1	2.99	0.41
1:E:371:CYS:SG	1:E:471:ARG:CB	3.08	0.41
1:E:469:PRO:CG	1:E:472:VAL:CG1	2.71	0.41
1:F:35:VAL:O	1:F:94:THR:HG21	2.20	0.41
1:F:156:THR:HG23	1:F:156:THR:O	2.20	0.41
1:F:232:ILE:HG23	1:F:261:VAL:HG12	2.02	0.41
1:F:406:LEU:HD13	1:O:431:ILE:HD12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:63:THR:C	1:G:66:ARG:HB3	2.45	0.41
1:I:85:GLN:OE1	1:I:476:ALA:HA	2.21	0.41
1:I:156:THR:HG21	1:I:468:GLU:N	2.36	0.41
1:J:44:MET:HG2	1:K:491:ASP:CG	2.46	0.41
1:J:119:ILE:CG2	1:J:403:ARG:CB	2.74	0.41
1:K:488:LEU:HD12	1:K:488:LEU:HA	1.63	0.41
1:L:138:ILE:HA	1:L:446:ASN:HB3	2.03	0.41
1:M:102:GLU:C	1:M:104:LEU:N	2.78	0.41
1:M:490:ILE:HG21	1:M:490:ILE:HD13	1.78	0.41
1:N:149:ILE:CG2	1:N:378:ILE:HD13	2.51	0.41
1:O:96:ALA:O	1:O:480:ALA:HB1	2.20	0.41
1:O:155:MET:HB2	1:O:167:LYS:HD3	1.99	0.41
1:O:434:LEU:O	1:O:438:ARG:HB2	2.20	0.41
1:A:100:ALA:C	1:A:484:THR:HG21	2.46	0.41
1:A:130:LYS:CD	1:A:393:LEU:HD23	2.38	0.41
1:A:170:LEU:HD12	1:A:358:VAL:HG11	2.03	0.41
1:B:150:LEU:C	1:B:175:VAL:HG21	2.45	0.41
1:C:132:GLN:NE2	1:C:132:GLN:HA	2.36	0.41
1:C:298:ALA:O	1:C:337:CYS:HB3	2.20	0.41
1:C:314:ASP:O	1:C:315:LEU:CB	2.69	0.41
1:D:362:VAL:HA	1:D:365:ALA:HB3	2.02	0.41
1:E:153:ILE:HG21	1:E:469:PRO:HA	2.02	0.41
1:E:177:ALA:HB1	1:E:343:VAL:CG1	2.51	0.41
1:E:345:MET:HE2	1:E:345:MET:HB3	1.34	0.41
1:F:124:TYR:CE1	1:F:407:ALA:C	2.91	0.41
1:F:152:LYS:HA	1:F:155:MET:HE3	2.01	0.41
1:F:232:ILE:HA	1:F:261:VAL:HB	2.02	0.41
1:G:255:LYS:O	1:G:255:LYS:HG3	2.19	0.41
1:H:78:LEU:HD11	1:H:484:THR:CG2	2.49	0.41
1:J:106:LYS:HE2	1:J:106:LYS:HB3	1.33	0.41
1:K:156:THR:CB	1:K:467:VAL:O	2.68	0.41
1:K:355:ILE:HD12	1:K:355:ILE:HG21	1.82	0.41
1:L:38:THR:HB	1:L:59:ASN:ND2	2.35	0.41
1:L:134:LEU:HD13	1:L:392:LYS:HB3	2.02	0.41
1:L:174:ILE:CD1	1:L:365:ALA:CB	2.88	0.41
1:L:212:VAL:N	1:L:298:ALA:HB1	2.36	0.41
1:L:233:ALA:CA	1:L:315:LEU:CD1	2.93	0.41
1:L:384:SER:CA	1:L:441:HIS:HE1	2.33	0.41
1:M:239:ILE:HD12	1:M:254:ILE:HD11	2.03	0.41
1:N:22:ARG:O	1:N:26:LEU:HB2	2.21	0.41
1:N:30:ILE:CG2	1:N:31:ILE:HD13	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:36:ARG:HE	1:N:36:ARG:HB3	1.26	0.41
1:N:207:GLU:OE2	1:N:346:LEU:HD13	2.19	0.41
1:O:227:VAL:HG11	1:O:260:ASN:ND2	2.36	0.41
1:P:116:HIS:C	1:P:118:THR:N	2.78	0.41
1:A:44:MET:HG2	1:H:491:ASP:CG	2.44	0.41
1:B:85:GLN:OE1	1:B:475:GLN:HB3	2.20	0.41
1:B:116:HIS:CG	1:B:117:PRO:CD	3.04	0.41
1:B:350:THR:OG1	1:B:354:VAL:CG2	2.68	0.41
1:B:406:LEU:HD21	1:K:431:ILE:HD13	2.02	0.41
1:C:42:LYS:CG	1:C:425:ASN:C	2.89	0.41
1:C:85:GLN:HE22	1:C:479:SER:HB3	1.84	0.41
1:D:31:ILE:HG21	1:D:65:LEU:CG	2.51	0.41
1:E:130:LYS:HZ2	1:E:396:TYR:CB	2.33	0.41
1:E:153:ILE:HD11	1:E:378:ILE:HG22	2.03	0.41
1:E:178:VAL:CG2	1:E:366:VAL:CG1	2.99	0.41
1:E:347:ILE:HG21	1:E:358:VAL:CB	2.51	0.41
1:E:369:VAL:O	1:E:369:VAL:CG2	2.68	0.41
1:F:235:LEU:HD22	1:F:310:LEU:CD2	2.48	0.41
1:F:255:LYS:O	1:F:255:LYS:HG3	2.19	0.41
1:H:35:VAL:HG13	1:H:46:LYS:HZ2	1.83	0.41
1:H:72:HIS:ND1	1:H:73:PRO:HD2	2.36	0.41
1:I:181:VAL:HB	1:I:192:LEU:HD23	2.03	0.41
1:I:234:LEU:H	1:I:315:LEU:HD22	1.86	0.41
1:I:281:ILE:HG22	1:I:282:VAL:O	2.20	0.41
1:J:78:LEU:HA	1:J:81:VAL:HG23	2.03	0.41
1:J:170:LEU:CD2	1:J:358:VAL:CG2	2.98	0.41
1:L:62:VAL:CG1	1:L:63:THR:N	2.81	0.41
1:L:156:THR:CG2	1:L:467:VAL:C	2.92	0.41
1:M:209:ILE:C	1:M:211:GLY:N	2.78	0.41
1:M:314:ASP:C	1:M:315:LEU:HG	2.46	0.41
1:N:121:VAL:O	1:N:125:GLN:HG2	2.20	0.41
1:N:234:LEU:N	1:N:315:LEU:HD22	2.35	0.41
1:O:56:VAL:O	1:O:56:VAL:CG2	2.68	0.41
1:O:95:THR:C	1:O:97:VAL:H	2.28	0.41
1:P:61:GLY:HA2	1:P:64:ILE:HD12	2.03	0.41
1:A:116:HIS:HE2	1:B:425:ASN:HA	1.85	0.41
1:A:120:VAL:CG1	1:A:121:VAL:H	2.34	0.41
1:A:130:LYS:HG2	1:A:393:LEU:HD22	1.98	0.41
1:A:190:LYS:HZ1	1:A:367:GLY:HA2	1.85	0.41
1:A:233:ALA:CA	1:A:315:LEU:HD11	2.47	0.41
1:B:212:VAL:HG12	1:B:295:LEU:HD23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:406:LEU:HD11	1:K:431:ILE:HD13	2.02	0.41
1:B:438:ARG:HH22	1:K:405:GLN:HE22	1.69	0.41
1:C:223:MET:HE1	1:C:283:ALA:CB	2.45	0.41
1:D:66:ARG:CA	1:D:79:ILE:HD12	2.50	0.41
1:D:296:ALA:CA	1:D:301:ALA:HB3	2.50	0.41
1:D:400:ILE:HG21	1:D:400:ILE:HD13	1.80	0.41
1:E:355:ILE:HG21	1:E:355:ILE:HD13	1.87	0.41
1:F:140:CYS:SG	1:F:140:CYS:O	2.79	0.41
1:G:111:LEU:H	1:G:111:LEU:HG	1.81	0.41
1:G:193:ILE:HD12	1:G:366:VAL:CG2	2.30	0.41
1:G:211:GLY:C	1:G:298:ALA:CB	2.94	0.41
1:H:140:CYS:HB3	1:H:446:ASN:OD1	2.21	0.41
1:H:403:ARG:HA	1:I:431:ILE:CD1	2.50	0.41
1:I:27:ALA:CB	1:I:72:HIS:CD2	2.93	0.41
1:I:32:ALA:O	1:I:36:ARG:HB3	2.21	0.41
1:I:39:LEU:HG	1:I:40:GLY:N	2.35	0.41
1:I:130:LYS:HZ1	1:I:134:LEU:CD1	2.31	0.41
1:I:262:LEU:HD12	1:I:310:LEU:HD21	2.03	0.41
1:I:386:GLU:HB2	1:I:419:PRO:HG2	2.02	0.41
1:J:211:GLY:CA	1:J:298:ALA:HB1	2.51	0.41
1:J:268:ILE:HG21	1:J:268:ILE:HD13	1.71	0.41
1:K:152:LYS:NZ	1:K:462:CYS:CB	2.84	0.41
1:L:115:VAL:O	1:L:117:PRO:CD	2.68	0.41
1:L:158:ILE:HD13	1:L:170:LEU:CD2	2.51	0.41
1:L:174:ILE:HD13	1:L:365:ALA:CB	2.50	0.41
1:L:368:VAL:HB	1:L:469:PRO:CB	2.50	0.41
1:L:383:GLY:CA	1:L:386:GLU:CG	2.81	0.41
1:M:110:LEU:C	1:M:113:GLN:H	2.29	0.41
1:M:194:LYS:HB2	1:M:294:LYS:HD3	2.02	0.41
1:M:212:VAL:CG2	1:M:298:ALA:HB2	2.47	0.41
1:M:235:LEU:O	1:M:264:CYS:CA	2.66	0.41
1:N:26:LEU:O	1:N:30:ILE:HG13	2.21	0.41
1:N:106:LYS:NZ	1:N:109:GLU:CD	2.79	0.41
1:N:384:SER:OG	1:N:441:HIS:CE1	2.68	0.41
1:O:31:ILE:CG2	1:O:65:LEU:CG	2.99	0.41
1:P:101:GLY:HA2	1:P:104:LEU:HD12	2.02	0.41
1:P:223:MET:HG2	1:P:281:ILE:O	2.20	0.41
1:P:257:SER:OG	1:P:312:ALA:N	2.54	0.41
1:P:385:THR:O	1:P:389:LEU:HG	2.21	0.41
1:P:438:ARG:HH11	1:P:438:ARG:HD3	1.46	0.41
1:A:345:MET:HE2	1:A:345:MET:HB3	1.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:366:VAL:O	1:A:366:VAL:HG12	2.20	0.41
1:A:488:LEU:HD12	1:A:488:LEU:HA	1.74	0.41
1:B:123:GLY:HA3	1:B:407:ALA:HB3	2.01	0.41
1:B:154:ALA:HB1	1:B:171:ALA:HA	2.03	0.41
1:B:177:ALA:C	1:B:193:ILE:HD13	2.46	0.41
1:B:383:GLY:HA2	1:B:386:GLU:CG	2.51	0.41
1:B:401:SER:HB2	1:K:435:VAL:CG1	2.51	0.41
1:C:15:TYR:O	1:C:492:ASP:HA	2.21	0.41
1:C:97:VAL:HG23	1:C:97:VAL:H	1.65	0.41
1:C:254:ILE:CG2	1:C:281:ILE:CD1	2.98	0.41
1:D:36:ARG:CG	1:D:37:SER:H	2.32	0.41
1:D:42:LYS:NZ	1:D:426:ALA:CA	2.71	0.41
1:D:351:THR:C	1:D:353:HIS:N	2.79	0.41
1:D:368:VAL:CB	1:D:469:PRO:HG3	2.44	0.41
1:D:381:GLY:O	1:D:461:MET:HG3	2.21	0.41
1:E:42:LYS:CG	1:E:426:ALA:N	2.83	0.41
1:E:209:ILE:C	1:E:211:GLY:N	2.78	0.41
1:E:347:ILE:HG21	1:E:358:VAL:HB	2.02	0.41
1:F:38:THR:HG23	1:F:46:LYS:HE2	2.02	0.41
1:F:77:MET:HB3	1:F:80:GLU:OE1	2.21	0.41
1:F:114:ASN:O	1:F:114:ASN:CG	2.64	0.41
1:F:265:GLN:HA	1:F:287:VAL:O	2.21	0.41
1:F:397:ALA:CB	1:F:408:VAL:HG23	2.47	0.41
1:G:72:HIS:CD2	1:G:73:PRO:HD2	2.55	0.41
1:G:153:ILE:HG23	1:G:153:ILE:HD13	1.50	0.41
1:G:418:ILE:HD13	1:G:418:ILE:HA	1.81	0.41
1:G:477:ILE:O	1:G:477:ILE:CG2	2.69	0.41
1:H:118:THR:O	1:H:118:THR:HG22	2.21	0.41
1:H:138:ILE:CG2	1:H:388:GLU:HG2	2.51	0.41
1:H:257:SER:CB	1:H:311:SER:HA	2.50	0.41
1:I:192:LEU:HG	1:I:342:ALA:CB	2.47	0.41
1:I:333:PHE:O	1:I:334:VAL:HG22	2.21	0.41
1:I:428:LEU:HA	1:I:428:LEU:HD23	1.63	0.41
1:J:178:VAL:HG21	1:J:366:VAL:CG1	2.39	0.41
1:J:195:ILE:HB	1:J:359:ALA:HB1	2.02	0.41
1:J:347:ILE:HG21	1:J:355:ILE:CG2	2.46	0.41
1:J:389:LEU:CD1	1:J:415:LEU:HD13	2.49	0.41
1:K:39:LEU:HG	1:K:40:GLY:H	1.85	0.41
1:K:119:ILE:HG23	1:K:403:ARG:CA	2.51	0.41
1:K:203:ILE:HD13	1:K:203:ILE:HG23	1.68	0.41
1:K:380:SER:HB2	1:K:385:THR:OG1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:66:ARG:N	1:L:79:ILE:HD13	2.36	0.41
1:L:97:VAL:O	1:L:100:ALA:HB3	2.20	0.41
1:L:203:ILE:H	1:L:203:ILE:HG12	1.20	0.41
1:L:239:ILE:HG21	1:L:239:ILE:HD13	1.90	0.41
1:L:351:THR:CG2	1:L:352:GLU:N	2.83	0.41
1:L:356:GLU:O	1:L:359:ALA:HB3	2.21	0.41
1:M:77:MET:CE	1:M:486:MET:CE	2.98	0.41
1:M:121:VAL:C	1:M:123:GLY:N	2.79	0.41
1:M:155:MET:HE1	1:M:167:LYS:HE3	2.03	0.41
1:M:474:THR:O	1:M:478:GLN:HG3	2.21	0.41
1:N:191:ASP:O	1:N:294:LYS:HE2	2.21	0.41
1:N:377:ARG:CD	1:N:470:LEU:HD11	2.40	0.41
1:N:377:ARG:CB	1:N:470:LEU:CD1	2.97	0.41
1:N:377:ARG:HB3	1:N:470:LEU:CD1	2.51	0.41
1:N:431:ILE:O	1:N:431:ILE:HG12	2.21	0.41
1:O:40:GLY:HA3	1:O:41:PRO:HD2	1.68	0.41
1:O:106:LYS:NZ	1:O:109:GLU:CD	2.79	0.41
1:O:152:LYS:HE2	1:O:462:CYS:SG	2.61	0.41
1:O:368:VAL:HB	1:O:469:PRO:CB	2.50	0.41
1:O:368:VAL:CG2	1:O:469:PRO:CG	2.99	0.41
1:O:406:LEU:HD12	1:O:406:LEU:H	1.86	0.41
1:P:166:ALA:O	1:P:170:LEU:HB2	2.21	0.41
1:P:206:THR:CB	1:P:347:ILE:CG2	2.97	0.41
1:P:284:ALA:HB2	1:P:332:ILE:CD1	2.51	0.41
1:A:389:LEU:HD12	1:A:415:LEU:HD23	2.01	0.41
1:B:130:LYS:CD	1:B:393:LEU:CD2	2.87	0.41
1:B:206:THR:CG2	1:B:347:ILE:CG2	2.98	0.41
1:C:178:VAL:HG21	1:C:366:VAL:CG1	2.46	0.41
1:C:254:ILE:O	1:C:259:ALA:HB3	2.21	0.41
1:C:263:PHE:CE1	1:C:332:ILE:HD12	2.56	0.41
1:C:418:ILE:HG23	1:C:418:ILE:HD12	1.71	0.41
1:C:468:GLU:CB	1:C:469:PRO:HD2	2.50	0.41
1:D:239:ILE:HG21	1:D:268:ILE:HG23	2.01	0.41
1:D:377:ARG:HB3	1:D:470:LEU:CB	2.51	0.41
1:D:380:SER:CB	1:D:384:SER:HB2	2.38	0.41
1:E:344:THR:CG2	1:E:345:MET:N	2.84	0.41
1:F:31:ILE:HG21	1:F:65:LEU:HD22	2.01	0.41
1:F:96:ALA:HA	1:F:480:ALA:HB3	2.03	0.41
1:F:116:HIS:CD2	1:F:117:PRO:HG2	2.56	0.41
1:G:96:ALA:HB3	1:G:97:VAL:HG13	2.02	0.41
1:G:209:ILE:C	1:G:211:GLY:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:116:HIS:CG	1:H:117:PRO:HG2	2.56	0.41
1:H:138:ILE:HD13	1:H:385:THR:CB	2.50	0.41
1:I:268:ILE:HD12	1:I:273:GLN:HG2	2.02	0.41
1:I:400:ILE:CD1	1:I:408:VAL:HG11	2.51	0.41
1:J:21:GLN:O	1:J:25:ILE:CG1	2.69	0.41
1:J:232:ILE:HD11	1:J:321:VAL:HG21	2.03	0.41
1:J:368:VAL:CG1	1:J:469:PRO:HB3	2.51	0.41
1:K:134:LEU:HD22	1:K:392:LYS:NZ	2.36	0.41
1:L:102:GLU:C	1:L:104:LEU:H	2.29	0.41
1:M:171:ALA:HA	1:M:174:ILE:HD11	2.03	0.41
1:N:42:LYS:HD2	1:N:425:ASN:C	2.45	0.41
1:N:171:ALA:C	1:N:174:ILE:HG12	2.46	0.41
1:N:428:LEU:HD23	1:N:428:LEU:HA	1.87	0.41
1:O:135:LEU:CD2	1:O:385:THR:HG21	2.51	0.41
1:O:235:LEU:HD13	1:O:262:LEU:CD2	2.47	0.41
1:O:281:ILE:HD13	1:O:281:ILE:HG21	1.86	0.41
1:P:77:MET:SD	1:P:487:LEU:HG	2.61	0.41
1:A:116:HIS:CB	1:A:117:PRO:CD	2.95	0.40
1:A:383:GLY:HA2	1:A:386:GLU:CD	2.45	0.40
1:B:194:LYS:HG2	1:B:195:ILE:N	2.36	0.40
1:B:218:ARG:HB2	1:B:323:GLU:OE1	2.21	0.40
1:D:81:VAL:HG11	1:D:483:SER:HB3	1.93	0.40
1:D:391:MET:SD	1:D:442:ALA:HB2	2.61	0.40
1:E:82:ALA:HB2	1:E:97:VAL:CG2	2.37	0.40
1:E:150:LEU:HB3	1:E:175:VAL:HG21	2.03	0.40
1:E:379:VAL:CG1	1:E:470:LEU:HD21	2.51	0.40
1:F:192:LEU:CG	1:F:342:ALA:CB	2.88	0.40
1:F:438:ARG:NH1	1:O:405:GLN:HE22	2.19	0.40
1:G:150:LEU:CD2	1:G:175:VAL:CG1	2.77	0.40
1:G:192:LEU:O	1:G:342:ALA:HB1	2.21	0.40
1:H:85:GLN:NE2	1:H:475:GLN:C	2.78	0.40
1:H:111:LEU:HD22	1:H:117:PRO:HB3	2.03	0.40
1:I:211:GLY:C	1:I:298:ALA:HB2	2.45	0.40
1:I:254:ILE:HG21	1:I:262:LEU:CD1	2.51	0.40
1:I:368:VAL:HG11	1:I:469:PRO:CG	2.49	0.40
1:I:437:VAL:HG13	1:I:449:ALA:O	2.21	0.40
1:J:43:GLY:O	1:J:44:MET:HE3	2.21	0.40
1:J:115:VAL:HG11	1:J:403:ARG:HD2	2.02	0.40
1:K:254:ILE:CD1	1:K:276:LEU:HD11	2.51	0.40
1:K:371:CYS:HB3	1:K:471:ARG:HD2	2.02	0.40
1:N:178:VAL:HG13	1:N:181:VAL:HG22	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:233:ALA:CA	1:N:315:LEU:CG	2.99	0.40
1:O:276:LEU:HB3	1:O:281:ILE:HD12	2.02	0.40
1:P:63:THR:O	1:P:63:THR:HG22	2.22	0.40
1:P:81:VAL:CG2	1:P:483:SER:OG	2.69	0.40
1:P:158:ILE:CD1	1:P:170:LEU:CB	2.99	0.40
1:P:209:ILE:O	1:P:211:GLY:N	2.54	0.40
1:P:213:LEU:CD1	1:P:346:LEU:CD1	2.96	0.40
1:A:166:ALA:O	1:A:170:LEU:HB2	2.21	0.40
1:A:178:VAL:HG22	1:A:193:ILE:HD13	2.00	0.40
1:A:212:VAL:CB	1:A:298:ALA:HB2	2.51	0.40
1:B:178:VAL:CG2	1:B:366:VAL:CG1	2.97	0.40
1:C:158:ILE:HD13	1:C:170:LEU:HB3	1.97	0.40
1:C:171:ALA:C	1:C:174:ILE:HG12	2.46	0.40
1:C:389:LEU:CD1	1:C:415:LEU:HD13	2.51	0.40
1:E:106:LYS:CE	1:E:109:GLU:CD	2.94	0.40
1:E:116:HIS:CE1	1:E:117:PRO:CG	3.05	0.40
1:E:124:TYR:CZ	1:E:407:ALA:HA	2.56	0.40
1:E:223:MET:HB3	1:E:282:VAL:HA	2.03	0.40
1:E:281:ILE:HD13	1:E:281:ILE:HG23	1.83	0.40
1:E:371:CYS:SG	1:E:471:ARG:HB2	2.61	0.40
1:E:435:VAL:HG11	1:N:401:SER:HB2	2.03	0.40
1:E:486:MET:CG	1:E:487:LEU:N	2.78	0.40
1:G:264:CYS:SG	1:G:268:ILE:HD11	2.61	0.40
1:H:24:ASN:HD22	1:H:24:ASN:HA	1.11	0.40
1:H:158:ILE:HB	1:H:361:ALA:HB1	2.03	0.40
1:H:218:ARG:HG3	1:H:323:GLU:HG3	2.02	0.40
1:H:234:LEU:H	1:H:315:LEU:HD21	1.84	0.40
1:I:35:VAL:HG23	1:I:38:THR:OG1	2.21	0.40
1:I:136:LYS:HB2	1:I:136:LYS:HE2	1.78	0.40
1:I:412:ALA:C	1:I:414:ALA:N	2.77	0.40
1:I:468:GLU:HB2	1:I:469:PRO:HD2	2.01	0.40
1:J:25:ILE:HG21	1:J:108:GLU:OE2	2.22	0.40
1:J:82:ALA:HB1	1:J:93:THR:HG23	1.89	0.40
1:K:301:ALA:C	1:K:302:ASN:CG	2.89	0.40
1:L:276:LEU:O	1:L:281:ILE:HB	2.20	0.40
1:L:441:HIS:O	1:L:442:ALA:C	2.64	0.40
1:M:135:LEU:HD22	1:M:473:LYS:HG3	2.02	0.40
1:N:25:ILE:HD13	1:N:108:GLU:CD	2.45	0.40
1:N:117:PRO:C	1:N:119:ILE:H	2.30	0.40
1:N:120:VAL:CG1	1:N:121:VAL:N	2.85	0.40
1:N:466:VAL:O	1:N:466:VAL:HG23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:152:LYS:HE3	1:O:462:CYS:HA	2.03	0.40
1:P:223:MET:HB3	1:P:282:VAL:HA	2.02	0.40
1:P:477:ILE:HG21	1:P:477:ILE:HD12	1.78	0.40
1:B:31:ILE:HG21	1:B:65:LEU:CD2	2.34	0.40
1:B:96:ALA:CA	1:B:480:ALA:CB	3.00	0.40
1:B:105:ARG:HH12	1:B:106:LYS:CD	2.28	0.40
1:C:14:ARG:HG3	1:C:494:ILE:HG12	2.03	0.40
1:C:89:VAL:O	1:C:89:VAL:HG23	2.14	0.40
1:C:134:LEU:HD22	1:C:392:LYS:HZ2	1.86	0.40
1:C:332:ILE:HG21	1:C:332:ILE:HD13	1.63	0.40
1:D:120:VAL:O	1:D:124:TYR:CD2	2.74	0.40
1:D:379:VAL:CG2	1:D:380:SER:N	2.82	0.40
1:D:420:ARG:HG3	1:D:430:ALA:HB1	2.03	0.40
1:D:431:ILE:O	1:D:435:VAL:HG23	2.21	0.40
1:E:55:VAL:C	1:E:56:VAL:CG2	2.94	0.40
1:E:174:ILE:HD12	1:E:365:ALA:CB	2.51	0.40
1:F:72:HIS:CD2	1:F:73:PRO:HD2	2.46	0.40
1:F:304:ILE:HD11	1:F:310:LEU:HA	2.03	0.40
1:F:428:LEU:HD13	1:F:428:LEU:HA	1.56	0.40
1:F:494:ILE:HD13	1:F:494:ILE:HG21	1.65	0.40
1:G:38:THR:HG23	1:G:44:MET:O	2.22	0.40
1:H:31:ILE:CG2	1:H:65:LEU:HD21	2.51	0.40
1:I:109:GLU:C	1:I:110:LEU:HD23	2.47	0.40
1:J:171:ALA:C	1:J:174:ILE:HG12	2.47	0.40
1:J:192:LEU:O	1:J:342:ALA:HA	2.21	0.40
1:K:130:LYS:C	1:K:133:GLU:H	2.29	0.40
1:K:152:LYS:HD3	1:K:465:GLY:HA2	2.04	0.40
1:K:235:LEU:CD1	1:K:310:LEU:HG	2.51	0.40
1:L:134:LEU:HD22	1:L:392:LYS:CD	2.51	0.40
1:L:448:CYS:O	1:L:449:ALA:CB	2.67	0.40
1:M:223:MET:HE2	1:M:281:ILE:HG22	2.03	0.40
1:M:333:PHE:HE2	1:M:346:LEU:HD12	1.86	0.40
1:M:347:ILE:HG21	1:M:358:VAL:HG11	2.02	0.40
1:N:177:ALA:O	1:N:181:VAL:HG13	2.22	0.40
1:O:116:HIS:C	1:O:118:THR:N	2.79	0.40
1:O:348:ARG:HH11	1:O:348:ARG:HD2	1.31	0.40
1:O:401:SER:HB2	1:O:402:GLY:H	1.65	0.40
1:P:24:ASN:HD22	1:P:24:ASN:HA	1.59	0.40
1:P:153:ILE:HD11	1:P:372:THR:HG21	2.04	0.40
1:P:281:ILE:HG21	1:P:281:ILE:HD13	1.61	0.40
1:P:358:VAL:O	1:P:362:VAL:HG12	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:441:HIS:NE2	1:P:446:ASN:HA	2.36	0.40
1:A:34:THR:HA	1:H:14:ARG:CZ	2.47	0.40
1:A:110:LEU:C	1:A:112:ASP:N	2.74	0.40
1:A:166:ALA:CB	1:A:170:LEU:CD2	2.92	0.40
1:A:348:ARG:HH11	1:A:348:ARG:HD2	1.50	0.40
1:B:93:THR:O	1:B:97:VAL:CG2	2.69	0.40
1:B:115:VAL:HB	1:B:403:ARG:CD	2.51	0.40
1:B:115:VAL:HG12	1:B:403:ARG:HE	1.84	0.40
1:C:17:GLY:O	1:C:21:GLN:CD	2.64	0.40
1:C:36:ARG:HG3	1:C:37:SER:OG	2.21	0.40
1:C:138:ILE:O	1:C:446:ASN:HB2	2.21	0.40
1:C:156:THR:OG1	1:C:467:VAL:N	2.55	0.40
1:C:473:LYS:O	1:C:477:ILE:HG13	2.21	0.40
1:D:46:LYS:HD3	1:D:64:ILE:CD1	2.51	0.40
1:D:192:LEU:CB	1:D:342:ALA:HB2	2.50	0.40
1:E:96:ALA:HA	1:E:480:ALA:HB3	2.02	0.40
1:E:138:ILE:HG12	1:E:385:THR:HG23	2.02	0.40
1:E:211:GLY:O	1:E:298:ALA:HB2	2.22	0.40
1:E:402:GLY:O	1:E:406:LEU:HD11	2.22	0.40
1:G:64:ILE:HG21	1:G:64:ILE:HD13	1.67	0.40
1:G:82:ALA:HB1	1:G:93:THR:HG22	2.03	0.40
1:G:134:LEU:HD11	1:G:393:LEU:CG	2.50	0.40
1:G:151:THR:HA	1:G:154:ALA:HB3	2.02	0.40
1:H:391:MET:HE2	1:H:438:ARG:HD2	2.02	0.40
1:I:47:MET:HE2	1:J:493:VAL:CG1	2.52	0.40
1:I:64:ILE:HG23	1:I:65:LEU:HD22	2.02	0.40
1:I:206:THR:HB	1:I:347:ILE:HA	2.03	0.40
1:J:135:LEU:HD13	1:J:138:ILE:HD11	2.03	0.40
1:J:218:ARG:NH1	1:J:282:VAL:HG21	2.36	0.40
1:J:368:VAL:CB	1:J:469:PRO:CB	2.97	0.40
1:J:422:LEU:HA	1:J:422:LEU:HD23	1.88	0.40
1:J:425:ASN:C	1:J:427:GLY:H	2.29	0.40
1:K:276:LEU:HD12	1:K:281:ILE:CD1	2.49	0.40
1:M:206:THR:OG1	1:M:347:ILE:HG23	2.21	0.40
1:N:212:VAL:HG21	1:N:294:LYS:CB	2.51	0.40
1:N:254:ILE:HD12	1:N:276:LEU:HD21	2.03	0.40
1:N:287:VAL:CG1	1:N:291:ASP:HB2	2.50	0.40
1:O:108:GLU:O	1:O:109:GLU:C	2.64	0.40
1:O:190:LYS:HZ3	1:O:367:GLY:CA	2.34	0.40
1:O:209:ILE:HD13	1:O:209:ILE:HG21	1.82	0.40
1:P:31:ILE:CG2	1:P:65:LEU:CD1	2.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:34:THR:HG23	1:P:46:LYS:HZ2	1.86	0.40
1:P:48:LEU:C	1:P:49:VAL:CG2	2.94	0.40
1:P:135:LEU:HD21	1:P:389:LEU:HD21	2.03	0.40
1:P:251:VAL:CG1	1:P:276:LEU:CG	2.87	0.40
1:A:42:LYS:CE	1:A:426:ALA:CA	2.70	0.40
1:B:254:ILE:HG21	1:B:262:LEU:HD13	2.03	0.40
1:C:116:HIS:CD2	1:D:425:ASN:O	2.75	0.40
1:C:124:TYR:CE1	1:C:407:ALA:C	3.00	0.40
1:C:491:ASP:OD1	1:C:491:ASP:C	2.65	0.40
1:D:119:ILE:HG23	1:D:403:ARG:HB2	1.98	0.40
1:D:212:VAL:CG2	1:D:298:ALA:HB2	2.51	0.40
1:D:218:ARG:HG3	1:D:323:GLU:HB2	2.02	0.40
1:E:435:VAL:HG22	1:N:405:GLN:HE22	1.86	0.40
1:F:234:LEU:HD11	1:F:296:ALA:CA	2.51	0.40
1:G:43:GLY:O	1:G:44:MET:HE2	2.22	0.40
1:G:130:LYS:HZ3	1:G:134:LEU:CD1	2.34	0.40
1:G:406:LEU:CD2	1:P:431:ILE:HG13	2.52	0.40
1:H:396:TYR:CG	1:H:396:TYR:O	2.74	0.40
1:J:130:LYS:HE2	1:J:134:LEU:CD2	2.49	0.40
1:J:134:LEU:HD13	1:J:393:LEU:HG	2.03	0.40
1:J:209:ILE:C	1:J:211:GLY:N	2.79	0.40
1:K:372:THR:HG22	1:K:377:ARG:O	2.21	0.40
1:L:31:ILE:HG21	1:L:65:LEU:CD2	2.51	0.40
1:L:85:GLN:CD	1:L:476:ALA:HA	2.46	0.40
1:L:138:ILE:HD12	1:L:385:THR:CG2	2.45	0.40
1:M:36:ARG:HG2	1:M:37:SER:H	1.80	0.40
1:M:135:LEU:CD2	1:M:385:THR:HG21	2.49	0.40
1:M:190:LYS:H	1:M:190:LYS:HG2	0.97	0.40
1:N:120:VAL:O	1:N:124:TYR:CD1	2.74	0.40
1:N:393:LEU:HD13	1:N:393:LEU:HA	1.98	0.40
1:O:47:MET:CE	1:P:493:VAL:HG21	2.47	0.40
1:O:234:LEU:CD2	1:O:296:ALA:HB2	2.51	0.40
1:O:234:LEU:HB2	1:O:315:LEU:HD11	2.04	0.40
1:O:235:LEU:CD2	1:O:264:CYS:HB3	2.52	0.40
1:O:359:ALA:HA	1:O:362:VAL:HG12	2.04	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	A	489/521 (94%)	345 (71%)	78 (16%)	66 (14%)	0	4
1	B	489/521 (94%)	343 (70%)	85 (17%)	61 (12%)	0	4
1	C	489/521 (94%)	346 (71%)	68 (14%)	75 (15%)	0	3
1	D	489/521 (94%)	339 (69%)	80 (16%)	70 (14%)	0	3
1	E	489/521 (94%)	339 (69%)	80 (16%)	70 (14%)	0	3
1	F	489/521 (94%)	345 (71%)	74 (15%)	70 (14%)	0	3
1	G	489/521 (94%)	347 (71%)	77 (16%)	65 (13%)	0	4
1	H	489/521 (94%)	334 (68%)	84 (17%)	71 (14%)	0	3
1	I	489/521 (94%)	343 (70%)	78 (16%)	68 (14%)	0	3
1	J	489/521 (94%)	350 (72%)	71 (14%)	68 (14%)	0	3
1	K	489/521 (94%)	353 (72%)	81 (17%)	55 (11%)	0	5
1	L	489/521 (94%)	337 (69%)	89 (18%)	63 (13%)	0	4
1	M	489/521 (94%)	352 (72%)	76 (16%)	61 (12%)	0	4
1	N	489/521 (94%)	348 (71%)	72 (15%)	69 (14%)	0	3
1	O	489/521 (94%)	343 (70%)	73 (15%)	73 (15%)	0	3
1	P	489/521 (94%)	339 (69%)	80 (16%)	70 (14%)	0	3
All	All	7824/8336 (94%)	5503 (70%)	1246 (16%)	1075 (14%)	0	4

All (1075) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	8	LEU
1	A	9	PRO
1	A	10	GLU
1	A	16	MET
1	A	62	VAL
1	A	63	THR

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Mol	Chain	Res	Type
1	A	68	MET
1	A	69	SER
1	A	84	THR
1	A	88	GLU
1	A	96	ALA
1	A	111	LEU
1	A	113	GLN
1	A	114	ASN
1	A	163	ALA
1	A	185	GLU
1	A	187	LYS
1	A	201	ALA
1	A	210	LYS
1	A	219	VAL
1	A	226	LYS
1	A	228	THR
1	A	238	ALA
1	A	243	ALA
1	A	245	GLU
1	A	286	ARG
1	A	314	ASP
1	A	319	GLY
1	A	350	THR
1	A	352	GLU
1	A	356	GLU
1	A	386	GLU
1	A	401	SER
1	A	428	LEU
1	A	446	ASN
1	A	472	VAL
1	A	486	MET
1	A	487	LEU
1	A	489	ARG
1	A	490	ILE
1	A	496	ALA
1	B	10	GLU
1	B	11	ASN
1	B	12	MET
1	B	16	MET
1	B	19	ASP
1	B	69	SER
1	B	97	VAL

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Mol	Chain	Res	Type
1	B	103	LEU
1	B	113	GLN
1	B	114	ASN
1	B	185	GLU
1	B	201	ALA
1	B	210	LYS
1	B	219	VAL
1	B	226	LYS
1	B	228	THR
1	B	238	ALA
1	B	244	SER
1	B	267	GLY
1	B	286	ARG
1	B	289	LYS
1	B	290	SER
1	B	305	THR
1	B	328	GLY
1	B	356	GLU
1	B	365	ALA
1	B	449	ALA
1	B	472	VAL
1	B	490	ILE
1	C	10	GLU
1	C	22	ARG
1	C	23	MET
1	C	42	LYS
1	C	43	GLY
1	C	62	VAL
1	C	68	MET
1	C	69	SER
1	C	70	VAL
1	C	87	LYS
1	C	115	VAL
1	C	118	THR
1	C	136	LYS
1	C	141	GLU
1	C	142	VAL
1	C	163	ALA
1	C	199	SER
1	C	201	ALA
1	C	219	VAL
1	C	222	GLN

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Mol	Chain	Res	Type
1	C	238	ALA
1	C	245	GLU
1	C	246	MET
1	C	267	GLY
1	C	271	LEU
1	C	352	GLU
1	C	368	VAL
1	C	378	ILE
1	C	381	GLY
1	C	400	ILE
1	C	405	GLN
1	C	406	LEU
1	C	415	LEU
1	C	446	ASN
1	C	461	MET
1	C	462	CYS
1	C	489	ARG
1	C	490	ILE
1	D	8	LEU
1	D	9	PRO
1	D	10	GLU
1	D	11	ASN
1	D	27	ALA
1	D	28	GLY
1	D	69	SER
1	D	93	THR
1	D	94	THR
1	D	120	VAL
1	D	190	LYS
1	D	201	ALA
1	D	210	LYS
1	D	219	VAL
1	D	224	PRO
1	D	228	THR
1	D	243	ALA
1	D	245	GLU
1	D	285	ARG
1	D	286	ARG
1	D	298	ALA
1	D	299	THR
1	D	305	THR
1	D	309	ASP

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Mol	Chain	Res	Type
1	D	310	LEU
1	D	313	GLN
1	D	314	ASP
1	D	341	LYS
1	D	352	GLU
1	D	404	GLU
1	D	406	LEU
1	D	422	LEU
1	D	426	ALA
1	D	466	VAL
1	D	476	ALA
1	D	477	ILE
1	E	23	MET
1	E	30	ILE
1	E	56	VAL
1	E	69	SER
1	E	88	GLU
1	E	94	THR
1	E	111	LEU
1	E	115	VAL
1	E	139	ALA
1	E	163	ALA
1	E	201	ALA
1	E	218	ARG
1	E	219	VAL
1	E	222	GLN
1	E	226	LYS
1	E	238	ALA
1	E	243	ALA
1	E	245	GLU
1	E	259	ALA
1	E	286	ARG
1	E	301	ALA
1	E	307	ILE
1	E	308	LYS
1	E	314	ASP
1	E	315	LEU
1	E	369	VAL
1	E	410	ALA
1	E	417	VAL
1	E	447	LYS
1	E	472	VAL

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Mol	Chain	Res	Type
1	E	478	GLN
1	E	488	LEU
1	E	490	ILE
1	F	10	GLU
1	F	69	SER
1	F	111	LEU
1	F	114	ASN
1	F	115	VAL
1	F	144	ALA
1	F	190	LYS
1	F	199	SER
1	F	204	ASP
1	F	205	ASP
1	F	209	ILE
1	F	210	LYS
1	F	222	GLN
1	F	226	LYS
1	F	243	ALA
1	F	244	SER
1	F	245	GLU
1	F	281	ILE
1	F	311	SER
1	F	314	ASP
1	F	341	LYS
1	F	352	GLU
1	F	380	SER
1	F	415	LEU
1	F	472	VAL
1	F	489	ARG
1	F	490	ILE
1	G	9	PRO
1	G	11	ASN
1	G	36	ARG
1	G	51	ASP
1	G	69	SER
1	G	70	VAL
1	G	96	ALA
1	G	111	LEU
1	G	120	VAL
1	G	142	VAL
1	G	163	ALA
1	G	164	GLU

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Mol	Chain	Res	Type
1	G	190	LYS
1	G	192	LEU
1	G	201	ALA
1	G	210	LYS
1	G	226	LYS
1	G	245	GLU
1	G	246	MET
1	G	247	LEU
1	G	291	ASP
1	G	305	THR
1	G	306	ASN
1	G	336	GLU
1	G	401	SER
1	G	415	LEU
1	G	429	ASP
1	G	449	ALA
1	G	451	LEU
1	G	465	GLY
1	G	466	VAL
1	G	484	THR
1	H	10	GLU
1	H	13	LYS
1	H	21	GLN
1	H	31	ILE
1	H	51	ASP
1	H	61	GLY
1	H	68	MET
1	H	71	GLU
1	H	89	VAL
1	H	139	ALA
1	H	142	VAL
1	H	163	ALA
1	H	164	GLU
1	H	188	VAL
1	H	201	ALA
1	H	204	ASP
1	H	205	ASP
1	H	210	LYS
1	H	224	PRO
1	H	244	SER
1	H	254	ILE
1	H	257	SER

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Mol	Chain	Res	Type
1	H	270	ASP
1	H	298	ALA
1	H	306	ASN
1	H	307	ILE
1	H	308	LYS
1	H	364	ASP
1	H	399	GLY
1	H	415	LEU
1	H	430	ALA
1	H	449	ALA
1	I	8	LEU
1	I	10	GLU
1	I	11	ASN
1	I	45	ASP
1	I	68	MET
1	I	69	SER
1	I	70	VAL
1	I	129	GLN
1	I	130	LYS
1	I	144	ALA
1	I	152	LYS
1	I	167	LYS
1	I	201	ALA
1	I	203	ILE
1	I	210	LYS
1	I	225	LYS
1	I	238	ALA
1	I	243	ALA
1	I	257	SER
1	I	270	ASP
1	I	298	ALA
1	I	299	THR
1	I	305	THR
1	I	314	ASP
1	I	329	ASP
1	I	417	VAL
1	I	422	LEU
1	I	449	ALA
1	I	489	ARG
1	J	31	ILE
1	J	34	THR
1	J	51	ASP

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Mol	Chain	Res	Type
1	J	68	MET
1	J	86	GLU
1	J	120	VAL
1	J	134	LEU
1	J	185	GLU
1	J	192	LEU
1	J	201	ALA
1	J	210	LYS
1	J	219	VAL
1	J	226	LYS
1	J	228	THR
1	J	243	ALA
1	J	245	GLU
1	J	266	LYS
1	J	269	ASP
1	J	286	ARG
1	J	289	LYS
1	J	305	THR
1	J	307	ILE
1	J	337	CYS
1	J	342	ALA
1	J	352	GLU
1	J	417	VAL
1	J	466	VAL
1	J	489	ARG
1	K	13	LYS
1	K	68	MET
1	K	69	SER
1	K	75	ALA
1	K	91	ASP
1	K	94	THR
1	K	117	PRO
1	K	122	LYS
1	K	142	VAL
1	K	201	ALA
1	K	210	LYS
1	K	226	LYS
1	K	243	ALA
1	K	301	ALA
1	K	308	LYS
1	K	313	GLN
1	K	314	ASP

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Mol	Chain	Res	Type
1	K	356	GLU
1	K	383	GLY
1	K	401	SER
1	K	472	VAL
1	K	490	ILE
1	L	10	GLU
1	L	13	LYS
1	L	31	ILE
1	L	37	SER
1	L	69	SER
1	L	91	ASP
1	L	103	LEU
1	L	117	PRO
1	L	118	THR
1	L	120	VAL
1	L	148	GLU
1	L	162	GLY
1	L	164	GLU
1	L	185	GLU
1	L	201	ALA
1	L	210	LYS
1	L	226	LYS
1	L	243	ALA
1	L	245	GLU
1	L	260	ASN
1	L	298	ALA
1	L	314	ASP
1	L	342	ALA
1	L	374	GLU
1	L	381	GLY
1	L	405	GLN
1	L	406	LEU
1	L	417	VAL
1	L	462	CYS
1	L	472	VAL
1	M	9	PRO
1	M	19	ASP
1	M	30	ILE
1	M	69	SER
1	M	70	VAL
1	M	80	GLU
1	M	93	THR

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Mol	Chain	Res	Type
1	M	94	THR
1	M	103	LEU
1	M	115	VAL
1	M	164	GLU
1	M	191	ASP
1	M	201	ALA
1	M	219	VAL
1	M	226	LYS
1	M	243	ALA
1	M	245	GLU
1	M	298	ALA
1	M	305	THR
1	M	314	ASP
1	M	336	GLU
1	M	368	VAL
1	M	381	GLY
1	M	384	SER
1	M	401	SER
1	M	447	LYS
1	M	449	ALA
1	M	466	VAL
1	M	496	ALA
1	N	10	GLU
1	N	30	ILE
1	N	31	ILE
1	N	34	THR
1	N	60	ASP
1	N	68	MET
1	N	69	SER
1	N	108	GLU
1	N	109	GLU
1	N	133	GLU
1	N	141	GLU
1	N	142	VAL
1	N	144	ALA
1	N	158	ILE
1	N	181	VAL
1	N	185	GLU
1	N	201	ALA
1	N	205	ASP
1	N	218	ARG
1	N	224	PRO

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Mol	Chain	Res	Type
1	N	226	LYS
1	N	228	THR
1	N	244	SER
1	N	267	GLY
1	N	301	ALA
1	N	307	ILE
1	N	314	ASP
1	N	383	GLY
1	N	426	ALA
1	N	430	ALA
1	N	447	LYS
1	N	466	VAL
1	N	487	LEU
1	O	19	ASP
1	O	30	ILE
1	O	51	ASP
1	O	69	SER
1	O	71	GLU
1	O	96	ALA
1	O	109	GLU
1	O	131	ALA
1	O	143	GLY
1	O	210	LYS
1	O	219	VAL
1	O	243	ALA
1	O	257	SER
1	O	270	ASP
1	O	276	LEU
1	O	286	ARG
1	O	296	ALA
1	O	299	THR
1	O	308	LYS
1	O	404	GLU
1	O	426	ALA
1	O	465	GLY
1	O	478	GLN
1	O	489	ARG
1	O	490	ILE
1	O	496	ALA
1	P	36	ARG
1	P	48	LEU
1	P	49	VAL

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Mol	Chain	Res	Type
1	P	69	SER
1	P	75	ALA
1	P	87	LYS
1	P	88	GLU
1	P	110	LEU
1	P	111	LEU
1	P	124	TYR
1	P	129	GLN
1	P	142	VAL
1	P	143	GLY
1	P	201	ALA
1	P	210	LYS
1	P	221	ALA
1	P	226	LYS
1	P	238	ALA
1	P	243	ALA
1	P	245	GLU
1	P	265	GLN
1	P	270	ASP
1	P	286	ARG
1	P	290	SER
1	P	298	ALA
1	P	299	THR
1	P	305	THR
1	P	309	ASP
1	P	313	GLN
1	P	406	LEU
1	P	415	LEU
1	P	490	ILE
1	P	496	ALA
1	A	60	ASP
1	A	64	ILE
1	A	139	ALA
1	A	224	PRO
1	A	290	SER
1	A	298	ALA
1	A	307	ILE
1	A	310	LEU
1	A	334	VAL
1	A	460	ASP
1	B	37	SER
1	B	51	ASP

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Mol	Chain	Res	Type
1	B	96	ALA
1	B	126	ALA
1	B	139	ALA
1	B	155	MET
1	B	163	ALA
1	B	229	ASP
1	B	243	ALA
1	B	245	GLU
1	B	256	ALA
1	B	307	ILE
1	B	350	THR
1	B	382	GLY
1	C	12	MET
1	C	34	THR
1	C	63	THR
1	C	103	LEU
1	C	111	LEU
1	C	139	ALA
1	C	179	SER
1	C	185	GLU
1	C	190	LYS
1	C	226	LYS
1	C	244	SER
1	C	303	VAL
1	C	308	LYS
1	C	314	ASP
1	C	336	GLU
1	C	376	GLY
1	C	380	SER
1	C	401	SER
1	C	430	ALA
1	C	469	PRO
1	D	88	GLU
1	D	165	LYS
1	D	238	ALA
1	D	400	ILE
1	D	405	GLN
1	D	428	LEU
1	D	486	MET
1	E	12	MET
1	E	64	ILE
1	E	68	MET

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Mol	Chain	Res	Type
1	E	155	MET
1	E	160	GLY
1	E	164	GLU
1	E	185	GLU
1	E	190	LYS
1	E	209	ILE
1	E	305	THR
1	E	368	VAL
1	E	380	SER
1	E	381	GLY
1	E	382	GLY
1	E	449	ALA
1	E	466	VAL
1	F	54	ASP
1	F	59	ASN
1	F	68	MET
1	F	71	GLU
1	F	74	ALA
1	F	75	ALA
1	F	99	VAL
1	F	103	LEU
1	F	143	GLY
1	F	184	ASP
1	F	185	GLU
1	F	201	ALA
1	F	291	ASP
1	F	298	ALA
1	F	308	LYS
1	F	377	ARG
1	F	381	GLY
1	F	427	GLY
1	F	442	ALA
1	F	456	GLY
1	G	8	LEU
1	G	45	ASP
1	G	63	THR
1	G	71	GLU
1	G	94	THR
1	G	139	ALA
1	G	185	GLU
1	G	219	VAL
1	G	238	ALA

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Mol	Chain	Res	Type
1	G	254	ILE
1	G	266	LYS
1	G	290	SER
1	G	307	ILE
1	G	376	GLY
1	H	69	SER
1	H	77	MET
1	H	113	GLN
1	H	185	GLU
1	H	186	GLY
1	H	226	LYS
1	H	228	THR
1	H	238	ALA
1	H	305	THR
1	H	343	VAL
1	H	354	VAL
1	H	421	THR
1	H	456	GLY
1	H	487	LEU
1	I	75	ALA
1	I	96	ALA
1	I	114	ASN
1	I	139	ALA
1	I	185	GLU
1	I	271	LEU
1	I	308	LYS
1	I	313	GLN
1	I	328	GLY
1	I	354	VAL
1	I	370	GLY
1	I	406	LEU
1	I	407	ALA
1	I	471	ARG
1	I	490	ILE
1	I	496	ALA
1	J	69	SER
1	J	75	ALA
1	J	111	LEU
1	J	139	ALA
1	J	191	ASP
1	J	238	ALA
1	J	239	ILE

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Mol	Chain	Res	Type
1	J	254	ILE
1	J	267	GLY
1	J	343	VAL
1	J	353	HIS
1	J	354	VAL
1	J	371	CYS
1	J	381	GLY
1	J	384	SER
1	J	430	ALA
1	K	12	MET
1	K	37	SER
1	K	106	LYS
1	K	114	ASN
1	K	164	GLU
1	K	185	GLU
1	K	238	ALA
1	K	244	SER
1	K	352	GLU
1	K	355	ILE
1	K	382	GLY
1	K	430	ALA
1	K	449	ALA
1	K	489	ARG
1	K	496	ALA
1	L	11	ASN
1	L	62	VAL
1	L	75	ALA
1	L	114	ASN
1	L	219	VAL
1	L	238	ALA
1	L	244	SER
1	L	257	SER
1	L	271	LEU
1	L	337	CYS
1	L	350	THR
1	L	356	GLU
1	L	382	GLY
1	L	460	ASP
1	M	11	ASN
1	M	12	MET
1	M	51	ASP
1	M	68	MET

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Mol	Chain	Res	Type
1	M	88	GLU
1	M	114	ASN
1	M	139	ALA
1	M	148	GLU
1	M	185	GLU
1	M	210	LYS
1	M	267	GLY
1	M	291	ASP
1	M	301	ALA
1	M	350	THR
1	M	382	GLY
1	N	19	ASP
1	N	21	GLN
1	N	51	ASP
1	N	62	VAL
1	N	85	GLN
1	N	88	GLU
1	N	94	THR
1	N	139	ALA
1	N	221	ALA
1	N	238	ALA
1	N	239	ILE
1	N	243	ALA
1	N	305	THR
1	N	328	GLY
1	N	352	GLU
1	N	384	SER
1	N	415	LEU
1	N	449	ALA
1	N	456	GLY
1	O	11	ASN
1	O	20	ALA
1	O	21	GLN
1	O	34	THR
1	O	95	THR
1	O	139	ALA
1	O	185	GLU
1	O	191	ASP
1	O	228	THR
1	O	245	GLU
1	O	271	LEU
1	O	295	LEU

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Mol	Chain	Res	Type
1	O	298	ALA
1	O	352	GLU
1	O	354	VAL
1	O	370	GLY
1	O	373	ILE
1	O	401	SER
1	O	434	LEU
1	O	479	SER
1	O	487	LEU
1	P	62	VAL
1	P	80	GLU
1	P	123	GLY
1	P	158	ILE
1	P	185	GLU
1	P	199	SER
1	P	203	ILE
1	P	204	ASP
1	P	230	ALA
1	P	267	GLY
1	P	307	ILE
1	P	380	SER
1	P	397	ALA
1	P	405	GLN
1	P	449	ALA
1	P	472	VAL
1	A	18	ARG
1	A	289	LYS
1	A	311	SER
1	A	346	LEU
1	A	365	ALA
1	A	457	ALA
1	A	471	ARG
1	B	258	GLY
1	B	306	ASN
1	B	313	GLN
1	B	334	VAL
1	B	355	ILE
1	B	380	SER
1	B	401	SER
1	B	460	ASP
1	C	99	VAL
1	C	164	GLU

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Mol	Chain	Res	Type
1	C	258	GLY
1	C	323	GLU
1	C	340	PRO
1	D	37	SER
1	D	139	ALA
1	D	164	GLU
1	D	185	GLU
1	D	191	ASP
1	D	258	GLY
1	D	431	ILE
1	D	490	ILE
1	E	11	ASN
1	E	54	ASP
1	E	66	ARG
1	E	166	ALA
1	E	210	LYS
1	E	244	SER
1	E	274	HIS
1	E	289	LYS
1	E	461	MET
1	E	489	ARG
1	F	17	GLY
1	F	102	GLU
1	F	158	ILE
1	F	162	GLY
1	F	182	VAL
1	F	273	GLN
1	F	457	ALA
1	F	462	CYS
1	F	496	ALA
1	G	34	THR
1	G	62	VAL
1	G	109	GLU
1	G	114	ASN
1	G	430	ALA
1	H	87	LYS
1	H	91	ASP
1	H	166	ALA
1	H	237	CYS
1	H	252	ALA
1	H	336	GLU
1	H	377	ARG

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Mol	Chain	Res	Type
1	H	403	ARG
1	H	462	CYS
1	H	478	GLN
1	I	19	ASP
1	I	66	ARG
1	I	117	PRO
1	I	245	GLU
1	I	415	LEU
1	J	11	ASN
1	J	77	MET
1	J	186	GLY
1	J	260	ASN
1	J	401	SER
1	J	459	GLU
1	J	487	LEU
1	K	9	PRO
1	K	11	ASN
1	K	111	LEU
1	K	116	HIS
1	K	257	SER
1	K	258	GLY
1	K	305	THR
1	K	398	GLU
1	L	34	THR
1	L	139	ALA
1	L	165	LYS
1	L	246	MET
1	L	268	ILE
1	L	352	GLU
1	L	415	LEU
1	L	479	SER
1	M	34	THR
1	M	118	THR
1	M	238	ALA
1	M	258	GLY
1	M	390	SER
1	M	420	ARG
1	M	453	VAL
1	N	59	ASN
1	N	67	GLU
1	N	99	VAL
1	N	257	SER

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Mol	Chain	Res	Type
1	N	290	SER
1	N	311	SER
1	O	23	MET
1	O	68	MET
1	O	77	MET
1	O	114	ASN
1	O	118	THR
1	O	201	ALA
1	O	275	TYR
1	O	311	SER
1	P	10	GLU
1	P	51	ASP
1	P	244	SER
1	P	249	ASP
1	P	314	ASP
1	P	426	ALA
1	P	460	ASP
1	A	34	THR
1	A	61	GLY
1	B	116	HIS
1	B	181	VAL
1	B	311	SER
1	B	325	LYS
1	C	116	HIS
1	C	287	VAL
1	C	290	SER
1	D	226	LYS
1	D	290	SER
1	D	427	GLY
1	D	457	ALA
1	E	17	GLY
1	E	51	ASP
1	E	258	GLY
1	E	311	SER
1	E	409	ARG
1	F	31	ILE
1	F	60	ASP
1	F	62	VAL
1	F	303	VAL
1	F	370	GLY
1	F	383	GLY
1	G	72	HIS

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Mol	Chain	Res	Type
1	G	103	LEU
1	G	243	ALA
1	G	268	ILE
1	G	310	LEU
1	G	380	SER
1	H	11	ASN
1	H	12	MET
1	H	41	PRO
1	H	115	VAL
1	H	165	LYS
1	H	342	ALA
1	H	472	VAL
1	I	9	PRO
1	I	244	SER
1	I	258	GLY
1	I	307	ILE
1	I	315	LEU
1	I	401	SER
1	I	453	VAL
1	J	66	ARG
1	J	148	GLU
1	J	274	HIS
1	J	298	ALA
1	J	449	ALA
1	J	472	VAL
1	K	21	GLN
1	K	102	GLU
1	K	113	GLN
1	K	187	LYS
1	K	224	PRO
1	L	30	ILE
1	L	188	VAL
1	M	66	ARG
1	M	228	THR
1	N	120	VAL
1	N	313	GLN
1	O	142	VAL
1	O	158	ILE
1	O	238	ALA
1	O	301	ALA
1	O	343	VAL
1	O	449	ALA

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Mol	Chain	Res	Type
1	P	128	ALA
1	P	184	ASP
1	P	228	THR
1	P	311	SER
1	P	401	SER
1	P	469	PRO
1	P	487	LEU
1	P	493	VAL
1	A	95	THR
1	B	259	ALA
1	B	314	ASP
1	C	61	GLY
1	C	286	ARG
1	C	305	THR
1	D	116	HIS
1	D	124	TYR
1	D	239	ILE
1	D	287	VAL
1	D	336	GLU
1	D	399	GLY
1	D	401	SER
1	E	367	GLY
1	F	80	GLU
1	F	117	PRO
1	F	167	LYS
1	F	446	ASN
1	G	12	MET
1	G	54	ASP
1	G	478	GLN
1	H	363	ASP
1	H	382	GLY
1	H	401	SER
1	I	37	SER
1	I	163	ALA
1	I	182	VAL
1	I	226	LYS
1	J	18	ARG
1	J	35	VAL
1	J	39	LEU
1	J	45	ASP
1	J	115	VAL
1	J	163	ALA

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Mol	Chain	Res	Type
1	J	258	GLY
1	J	334	VAL
1	J	340	PRO
1	K	86	GLU
1	K	228	THR
1	K	371	CYS
1	K	432	GLU
1	L	223	MET
1	L	258	GLY
1	L	293	GLU
1	L	401	SER
1	L	457	ALA
1	M	8	LEU
1	M	75	ALA
1	M	356	GLU
1	N	66	ARG
1	N	210	LYS
1	N	258	GLY
1	N	310	LEU
1	N	329	ASP
1	O	72	HIS
1	O	130	LYS
1	O	224	PRO
1	O	310	LEU
1	O	350	THR
1	O	446	ASN
1	P	144	ALA
1	P	258	GLY
1	A	186	GLY
1	C	457	ALA
1	D	31	ILE
1	D	62	VAL
1	D	343	VAL
1	E	224	PRO
1	E	229	ASP
1	E	329	ASP
1	E	401	SER
1	F	329	ASP
1	G	21	GLN
1	G	102	GLU
1	H	314	ASP
1	H	334	VAL

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Mol	Chain	Res	Type
1	I	33	GLU
1	I	219	VAL
1	I	286	ARG
1	K	245	GLU
1	L	228	THR
1	N	340	PRO
1	O	226	LYS
1	O	429	ASP
1	A	142	VAL
1	B	72	HIS
1	B	188	VAL
1	C	307	ILE
1	D	123	GLY
1	D	142	VAL
1	D	268	ILE
1	D	334	VAL
1	G	116	HIS
1	H	99	VAL
1	J	62	VAL
1	L	334	VAL
1	L	355	ILE
1	N	339	HIS
1	O	117	PRO
1	O	173	ILE
1	P	465	GLY
1	A	116	HIS
1	A	303	VAL
1	B	417	VAL
1	C	9	PRO
1	C	343	VAL
1	F	72	HIS
1	L	209	ILE
1	M	72	HIS
1	N	117	PRO
1	O	9	PRO
1	P	117	PRO
1	C	334	VAL
1	E	287	VAL
1	F	30	ILE
1	F	334	VAL
1	G	490	ILE
1	H	62	VAL

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Mol	Chain	Res	Type
1	H	319	GLY
1	O	115	VAL
1	A	355	ILE
1	I	31	ILE
1	I	142	VAL
1	I	158	ILE
1	I	334	VAL
1	J	224	PRO
1	M	73	PRO
1	M	472	VAL
1	P	30	ILE
1	P	239	ILE
1	B	120	VAL
1	C	399	GLY
1	D	267	GLY
1	G	35	VAL
1	M	116	HIS
1	M	400	ILE
1	N	219	VAL

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	393/413 (95%)	243 (62%)	150 (38%)	0	1
1	B	393/413 (95%)	229 (58%)	164 (42%)	0	0
1	C	393/413 (95%)	246 (63%)	147 (37%)	0	1
1	D	393/413 (95%)	228 (58%)	165 (42%)	0	0
1	E	393/413 (95%)	231 (59%)	162 (41%)	0	0
1	F	393/413 (95%)	222 (56%)	171 (44%)	0	0
1	G	393/413 (95%)	245 (62%)	148 (38%)	0	1
1	H	393/413 (95%)	221 (56%)	172 (44%)	0	0
1	I	393/413 (95%)	234 (60%)	159 (40%)	0	0

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	J	393/413 (95%)	236 (60%)	157 (40%)	0	1
1	K	393/413 (95%)	239 (61%)	154 (39%)	0	1
1	L	393/413 (95%)	241 (61%)	152 (39%)	0	1
1	M	393/413 (95%)	229 (58%)	164 (42%)	0	0
1	N	393/413 (95%)	237 (60%)	156 (40%)	0	1
1	O	393/413 (95%)	221 (56%)	172 (44%)	0	0
1	P	393/413 (95%)	216 (55%)	177 (45%)	0	0
All	All	6288/6608 (95%)	3718 (59%)	2570 (41%)	0	0

All (2570) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	VAL
1	A	8	LEU
1	A	10	GLU
1	A	12	MET
1	A	18	ARG
1	A	19	ASP
1	A	23	MET
1	A	26	LEU
1	A	30	ILE
1	A	31	ILE
1	A	35	VAL
1	A	37	SER
1	A	39	LEU
1	A	44	MET
1	A	48	LEU
1	A	55	VAL
1	A	57	VAL
1	A	69	SER
1	A	70	VAL
1	A	73	PRO
1	A	76	LYS
1	A	77	MET
1	A	80	GLU
1	A	81	VAL
1	A	83	LYS
1	A	85	GLN
1	A	89	VAL
1	A	94	THR

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Mol	Chain	Res	Type
1	A	97	VAL
1	A	102	GLU
1	A	105	ARG
1	A	106	LYS
1	A	111	LEU
1	A	112	ASP
1	A	113	GLN
1	A	114	ASN
1	A	115	VAL
1	A	119	ILE
1	A	121	VAL
1	A	122	LYS
1	A	129	GLN
1	A	130	LYS
1	A	135	LEU
1	A	138	ILE
1	A	141	GLU
1	A	145	GLN
1	A	148	GLU
1	A	149	ILE
1	A	150	LEU
1	A	157	SER
1	A	159	THR
1	A	161	LYS
1	A	164	GLU
1	A	167	LYS
1	A	169	LYS
1	A	170	LEU
1	A	173	ILE
1	A	178	VAL
1	A	181	VAL
1	A	183	ASP
1	A	190	LYS
1	A	191	ASP
1	A	197	LYS
1	A	198	LYS
1	A	204	ASP
1	A	205	ASP
1	A	218	ARG
1	A	222	GLN
1	A	226	LYS
1	A	228	THR

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Mol	Chain	Res	Type
1	A	231	LYS
1	A	234	LEU
1	A	235	LEU
1	A	236	ASN
1	A	239	ILE
1	A	242	THR
1	A	244	SER
1	A	247	LEU
1	A	255	LYS
1	A	257	SER
1	A	260	ASN
1	A	268	ILE
1	A	271	LEU
1	A	273	GLN
1	A	276	LEU
1	A	278	LYS
1	A	282	VAL
1	A	286	ARG
1	A	289	LYS
1	A	290	SER
1	A	293	GLU
1	A	294	LYS
1	A	297	LYS
1	A	303	VAL
1	A	307	ILE
1	A	308	LYS
1	A	309	ASP
1	A	310	LEU
1	A	313	GLN
1	A	315	LEU
1	A	317	ASP
1	A	320	LEU
1	A	336	GLU
1	A	338	LYS
1	A	341	LYS
1	A	346	LEU
1	A	347	ILE
1	A	348	ARG
1	A	351	THR
1	A	352	GLU
1	A	355	ILE
1	A	356	GLU

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Mol	Chain	Res	Type
1	A	366	VAL
1	A	372	THR
1	A	377	ARG
1	A	379	VAL
1	A	385	THR
1	A	386	GLU
1	A	390	SER
1	A	403	ARG
1	A	406	LEU
1	A	415	LEU
1	A	416	GLU
1	A	418	ILE
1	A	420	ARG
1	A	424	GLU
1	A	425	ASN
1	A	428	LEU
1	A	431	ILE
1	A	441	HIS
1	A	446	ASN
1	A	447	LYS
1	A	448	CYS
1	A	453	VAL
1	A	458	VAL
1	A	459	GLU
1	A	461	MET
1	A	462	CYS
1	A	464	ASN
1	A	467	VAL
1	A	468	GLU
1	A	470	LEU
1	A	471	ARG
1	A	472	VAL
1	A	473	LYS
1	A	477	ILE
1	A	483	SER
1	A	485	GLU
1	A	486	MET
1	A	492	ASP
1	B	7	VAL
1	B	12	MET
1	B	13	LYS
1	B	18	ARG

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Mol	Chain	Res	Type
1	B	19	ASP
1	B	21	GLN
1	B	24	ASN
1	B	31	ILE
1	B	35	VAL
1	B	37	SER
1	B	39	LEU
1	B	42	LYS
1	B	51	ASP
1	B	60	ASP
1	B	62	VAL
1	B	63	THR
1	B	68	MET
1	B	70	VAL
1	B	72	HIS
1	B	73	PRO
1	B	76	LYS
1	B	78	LEU
1	B	87	LYS
1	B	88	GLU
1	B	91	ASP
1	B	97	VAL
1	B	103	LEU
1	B	105	ARG
1	B	110	LEU
1	B	112	ASP
1	B	113	GLN
1	B	115	VAL
1	B	116	HIS
1	B	118	THR
1	B	120	VAL
1	B	122	LYS
1	B	129	GLN
1	B	132	GLN
1	B	134	LEU
1	B	135	LEU
1	B	136	LYS
1	B	138	ILE
1	B	140	CYS
1	B	141	GLU
1	B	150	LEU
1	B	153	ILE

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Mol	Chain	Res	Type
1	B	155	MET
1	B	157	SER
1	B	158	ILE
1	B	164	GLU
1	B	165	LYS
1	B	167	LYS
1	B	168	GLU
1	B	172	GLU
1	B	178	VAL
1	B	187	LYS
1	B	188	VAL
1	B	191	ASP
1	B	192	LEU
1	B	193	ILE
1	B	195	ILE
1	B	197	LYS
1	B	198	LYS
1	B	199	SER
1	B	203	ILE
1	B	204	ASP
1	B	205	ASP
1	B	210	LYS
1	B	215	ASP
1	B	219	VAL
1	B	225	LYS
1	B	228	THR
1	B	231	LYS
1	B	232	ILE
1	B	235	LEU
1	B	236	ASN
1	B	239	ILE
1	B	240	GLU
1	B	244	SER
1	B	246	MET
1	B	247	LEU
1	B	249	ASP
1	B	251	VAL
1	B	255	LYS
1	B	257	SER
1	B	260	ASN
1	B	266	LYS
1	B	271	LEU

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Mol	Chain	Res	Type
1	B	273	GLN
1	B	281	ILE
1	B	285	ARG
1	B	286	ARG
1	B	288	LYS
1	B	289	LYS
1	B	290	SER
1	B	293	GLU
1	B	299	THR
1	B	302	ASN
1	B	303	VAL
1	B	304	ILE
1	B	307	ILE
1	B	308	LYS
1	B	309	ASP
1	B	311	SER
1	B	313	GLN
1	B	315	LEU
1	B	320	LEU
1	B	327	SER
1	B	329	ASP
1	B	330	SER
1	B	334	VAL
1	B	336	GLU
1	B	338	LYS
1	B	340	PRO
1	B	341	LYS
1	B	343	VAL
1	B	345	MET
1	B	346	LEU
1	B	347	ILE
1	B	348	ARG
1	B	350	THR
1	B	351	THR
1	B	354	VAL
1	B	380	SER
1	B	386	GLU
1	B	395	GLU
1	B	400	ILE
1	B	401	SER
1	B	403	ARG
1	B	404	GLU

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Mol	Chain	Res	Type
1	B	406	LEU
1	B	413	ASP
1	B	415	LEU
1	B	418	ILE
1	B	420	ARG
1	B	421	THR
1	B	428	LEU
1	B	431	ILE
1	B	433	ILE
1	B	438	ARG
1	B	441	HIS
1	B	443	SER
1	B	446	ASN
1	B	447	LYS
1	B	451	LEU
1	B	453	VAL
1	B	455	THR
1	B	461	MET
1	B	463	GLU
1	B	464	ASN
1	B	467	VAL
1	B	468	GLU
1	B	470	LEU
1	B	471	ARG
1	B	473	LYS
1	B	475	GLN
1	B	477	ILE
1	B	482	GLU
1	B	483	SER
1	B	486	MET
1	B	487	LEU
1	B	488	LEU
1	B	491	ASP
1	B	497	GLU
1	C	8	LEU
1	C	10	GLU
1	C	12	MET
1	C	16	MET
1	C	18	ARG
1	C	22	ARG
1	C	23	MET
1	C	30	ILE

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Mol	Chain	Res	Type
1	C	31	ILE
1	C	38	THR
1	C	42	LYS
1	C	44	MET
1	C	49	VAL
1	C	52	LEU
1	C	57	VAL
1	C	59	ASN
1	C	60	ASP
1	C	65	LEU
1	C	68	MET
1	C	69	SER
1	C	70	VAL
1	C	72	HIS
1	C	77	MET
1	C	78	LEU
1	C	79	ILE
1	C	81	VAL
1	C	83	LYS
1	C	85	GLN
1	C	87	LYS
1	C	88	GLU
1	C	97	VAL
1	C	99	VAL
1	C	106	LYS
1	C	111	LEU
1	C	113	GLN
1	C	114	ASN
1	C	115	VAL
1	C	118	THR
1	C	124	TYR
1	C	130	LYS
1	C	136	LYS
1	C	138	ILE
1	C	140	CYS
1	C	146	ASP
1	C	147	LYS
1	C	156	THR
1	C	157	SER
1	C	158	ILE
1	C	161	LYS
1	C	164	GLU

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Mol	Chain	Res	Type
1	C	167	LYS
1	C	170	LEU
1	C	181	VAL
1	C	183	ASP
1	C	185	GLU
1	C	188	VAL
1	C	189	ASP
1	C	190	LYS
1	C	191	ASP
1	C	195	ILE
1	C	197	LYS
1	C	198	LYS
1	C	203	ILE
1	C	205	ASP
1	C	206	THR
1	C	213	LEU
1	C	215	ASP
1	C	218	ARG
1	C	219	VAL
1	C	224	PRO
1	C	226	LYS
1	C	228	THR
1	C	231	LYS
1	C	235	LEU
1	C	236	ASN
1	C	242	THR
1	C	244	SER
1	C	257	SER
1	C	268	ILE
1	C	271	LEU
1	C	273	GLN
1	C	278	LYS
1	C	281	ILE
1	C	285	ARG
1	C	286	ARG
1	C	289	LYS
1	C	290	SER
1	C	292	MET
1	C	297	LYS
1	C	302	ASN
1	C	303	VAL
1	C	305	THR

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Mol	Chain	Res	Type
1	C	308	LYS
1	C	309	ASP
1	C	313	GLN
1	C	315	LEU
1	C	320	LEU
1	C	325	LYS
1	C	327	SER
1	C	330	SER
1	C	331	MET
1	C	336	GLU
1	C	341	LYS
1	C	345	MET
1	C	346	LEU
1	C	347	ILE
1	C	348	ARG
1	C	351	THR
1	C	352	GLU
1	C	353	HIS
1	C	355	ILE
1	C	363	ASP
1	C	368	VAL
1	C	373	ILE
1	C	377	ARG
1	C	379	VAL
1	C	384	SER
1	C	386	GLU
1	C	400	ILE
1	C	403	ARG
1	C	406	LEU
1	C	411	PHE
1	C	413	ASP
1	C	420	ARG
1	C	421	THR
1	C	428	LEU
1	C	431	ILE
1	C	438	ARG
1	C	441	HIS
1	C	446	ASN
1	C	448	CYS
1	C	455	THR
1	C	461	MET
1	C	463	GLU

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Mol	Chain	Res	Type
1	C	468	GLU
1	C	470	LEU
1	C	472	VAL
1	C	473	LYS
1	C	477	ILE
1	C	479	SER
1	C	485	GLU
1	C	487	LEU
1	C	489	ARG
1	C	491	ASP
1	C	493	VAL
1	C	494	ILE
1	C	497	GLU
1	D	8	LEU
1	D	9	PRO
1	D	12	MET
1	D	19	ASP
1	D	21	GLN
1	D	22	ARG
1	D	23	MET
1	D	25	ILE
1	D	26	LEU
1	D	31	ILE
1	D	33	GLU
1	D	34	THR
1	D	35	VAL
1	D	37	SER
1	D	39	LEU
1	D	41	PRO
1	D	42	LYS
1	D	44	MET
1	D	46	LYS
1	D	48	LEU
1	D	49	VAL
1	D	51	ASP
1	D	52	LEU
1	D	56	VAL
1	D	58	THR
1	D	59	ASN
1	D	63	THR
1	D	65	LEU
1	D	66	ARG

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Mol	Chain	Res	Type
1	D	70	VAL
1	D	71	GLU
1	D	72	HIS
1	D	73	PRO
1	D	77	MET
1	D	78	LEU
1	D	81	VAL
1	D	89	VAL
1	D	94	THR
1	D	104	LEU
1	D	105	ARG
1	D	106	LYS
1	D	108	GLU
1	D	110	LEU
1	D	111	LEU
1	D	112	ASP
1	D	113	GLN
1	D	114	ASN
1	D	116	HIS
1	D	119	ILE
1	D	120	VAL
1	D	134	LEU
1	D	135	LEU
1	D	136	LYS
1	D	138	ILE
1	D	141	GLU
1	D	145	GLN
1	D	150	LEU
1	D	153	ILE
1	D	156	THR
1	D	158	ILE
1	D	159	THR
1	D	161	LYS
1	D	164	GLU
1	D	170	LEU
1	D	172	GLU
1	D	173	ILE
1	D	182	VAL
1	D	188	VAL
1	D	190	LYS
1	D	191	ASP
1	D	192	LEU

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Mol	Chain	Res	Type
1	D	193	ILE
1	D	195	ILE
1	D	199	SER
1	D	203	ILE
1	D	205	ASP
1	D	212	VAL
1	D	215	ASP
1	D	216	LYS
1	D	217	GLU
1	D	218	ARG
1	D	225	LYS
1	D	226	LYS
1	D	227	VAL
1	D	229	ASP
1	D	231	LYS
1	D	235	LEU
1	D	236	ASN
1	D	239	ILE
1	D	240	GLU
1	D	247	LEU
1	D	257	SER
1	D	260	ASN
1	D	270	ASP
1	D	271	LEU
1	D	273	GLN
1	D	276	LEU
1	D	281	ILE
1	D	285	ARG
1	D	286	ARG
1	D	288	LYS
1	D	289	LYS
1	D	292	MET
1	D	303	VAL
1	D	307	ILE
1	D	308	LYS
1	D	309	ASP
1	D	310	LEU
1	D	313	GLN
1	D	315	LEU
1	D	320	LEU
1	D	326	ILE
1	D	327	SER

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Mol	Chain	Res	Type
1	D	332	ILE
1	D	334	VAL
1	D	336	GLU
1	D	339	HIS
1	D	341	LYS
1	D	343	VAL
1	D	346	LEU
1	D	347	ILE
1	D	348	ARG
1	D	351	THR
1	D	352	GLU
1	D	354	VAL
1	D	355	ILE
1	D	356	GLU
1	D	358	VAL
1	D	369	VAL
1	D	372	THR
1	D	377	ARG
1	D	379	VAL
1	D	386	GLU
1	D	403	ARG
1	D	404	GLU
1	D	406	LEU
1	D	411	PHE
1	D	413	ASP
1	D	415	LEU
1	D	416	GLU
1	D	418	ILE
1	D	422	LEU
1	D	431	ILE
1	D	433	ILE
1	D	434	LEU
1	D	441	HIS
1	D	446	ASN
1	D	447	LYS
1	D	448	CYS
1	D	451	LEU
1	D	464	ASN
1	D	467	VAL
1	D	468	GLU
1	D	470	LEU
1	D	472	VAL

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Mol	Chain	Res	Type
1	D	473	LYS
1	D	477	ILE
1	D	478	GLN
1	D	485	GLU
1	D	488	LEU
1	D	489	ARG
1	D	490	ILE
1	D	491	ASP
1	D	494	ILE
1	D	497	GLU
1	E	7	VAL
1	E	8	LEU
1	E	12	MET
1	E	18	ARG
1	E	21	GLN
1	E	23	MET
1	E	24	ASN
1	E	26	LEU
1	E	31	ILE
1	E	35	VAL
1	E	37	SER
1	E	38	THR
1	E	42	LYS
1	E	54	ASP
1	E	56	VAL
1	E	60	ASP
1	E	63	THR
1	E	65	LEU
1	E	68	MET
1	E	70	VAL
1	E	71	GLU
1	E	72	HIS
1	E	77	MET
1	E	78	LEU
1	E	80	GLU
1	E	84	THR
1	E	85	GLN
1	E	88	GLU
1	E	93	THR
1	E	95	THR
1	E	105	ARG
1	E	106	LYS

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Mol	Chain	Res	Type
1	E	110	LEU
1	E	113	GLN
1	E	115	VAL
1	E	118	THR
1	E	119	ILE
1	E	120	VAL
1	E	122	LYS
1	E	130	LYS
1	E	133	GLU
1	E	135	LEU
1	E	138	ILE
1	E	142	VAL
1	E	145	GLN
1	E	153	ILE
1	E	157	SER
1	E	158	ILE
1	E	164	GLU
1	E	167	LYS
1	E	170	LEU
1	E	182	VAL
1	E	185	GLU
1	E	187	LYS
1	E	190	LYS
1	E	191	ASP
1	E	192	LEU
1	E	193	ILE
1	E	195	ILE
1	E	197	LYS
1	E	198	LYS
1	E	199	SER
1	E	203	ILE
1	E	204	ASP
1	E	205	ASP
1	E	208	LEU
1	E	210	LYS
1	E	212	VAL
1	E	213	LEU
1	E	216	LYS
1	E	217	GLU
1	E	218	ARG
1	E	222	GLN
1	E	224	PRO

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Mol	Chain	Res	Type
1	E	227	VAL
1	E	228	THR
1	E	229	ASP
1	E	231	LYS
1	E	235	LEU
1	E	236	ASN
1	E	237	CYS
1	E	239	ILE
1	E	240	GLU
1	E	244	SER
1	E	245	GLU
1	E	247	LEU
1	E	251	VAL
1	E	253	GLU
1	E	255	LYS
1	E	257	SER
1	E	260	ASN
1	E	262	LEU
1	E	266	LYS
1	E	273	GLN
1	E	276	LEU
1	E	281	ILE
1	E	285	ARG
1	E	286	ARG
1	E	289	LYS
1	E	293	GLU
1	E	295	LEU
1	E	303	VAL
1	E	304	ILE
1	E	308	LYS
1	E	309	ASP
1	E	310	LEU
1	E	313	GLN
1	E	315	LEU
1	E	325	LYS
1	E	334	VAL
1	E	337	CYS
1	E	341	LYS
1	E	346	LEU
1	E	347	ILE
1	E	348	ARG
1	E	350	THR

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Mol	Chain	Res	Type
1	E	351	THR
1	E	352	GLU
1	E	353	HIS
1	E	354	VAL
1	E	355	ILE
1	E	356	GLU
1	E	357	GLU
1	E	364	ASP
1	E	366	VAL
1	E	368	VAL
1	E	372	THR
1	E	373	ILE
1	E	377	ARG
1	E	379	VAL
1	E	380	SER
1	E	384	SER
1	E	386	GLU
1	E	391	MET
1	E	393	LEU
1	E	403	ARG
1	E	406	LEU
1	E	411	PHE
1	E	416	GLU
1	E	418	ILE
1	E	420	ARG
1	E	431	ILE
1	E	432	GLU
1	E	434	LEU
1	E	446	ASN
1	E	447	LYS
1	E	453	VAL
1	E	455	THR
1	E	461	MET
1	E	464	ASN
1	E	470	LEU
1	E	471	ARG
1	E	472	VAL
1	E	473	LYS
1	E	477	ILE
1	E	479	SER
1	E	483	SER
1	E	489	ARG

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Mol	Chain	Res	Type
1	E	490	ILE
1	E	493	VAL
1	E	494	ILE
1	E	497	GLU
1	F	8	LEU
1	F	9	PRO
1	F	10	GLU
1	F	12	MET
1	F	22	ARG
1	F	25	ILE
1	F	26	LEU
1	F	30	ILE
1	F	31	ILE
1	F	35	VAL
1	F	36	ARG
1	F	37	SER
1	F	38	THR
1	F	39	LEU
1	F	41	PRO
1	F	42	LYS
1	F	45	ASP
1	F	46	LYS
1	F	48	LEU
1	F	50	ASP
1	F	54	ASP
1	F	55	VAL
1	F	57	VAL
1	F	59	ASN
1	F	66	ARG
1	F	68	MET
1	F	69	SER
1	F	73	PRO
1	F	76	LYS
1	F	77	MET
1	F	78	LEU
1	F	79	ILE
1	F	81	VAL
1	F	83	LYS
1	F	85	GLN
1	F	94	THR
1	F	97	VAL
1	F	99	VAL

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Mol	Chain	Res	Type
1	F	106	LYS
1	F	111	LEU
1	F	113	GLN
1	F	114	ASN
1	F	115	VAL
1	F	118	THR
1	F	119	ILE
1	F	120	VAL
1	F	122	LYS
1	F	130	LYS
1	F	140	CYS
1	F	141	GLU
1	F	145	GLN
1	F	147	LYS
1	F	149	ILE
1	F	153	ILE
1	F	155	MET
1	F	156	THR
1	F	157	SER
1	F	159	THR
1	F	164	GLU
1	F	165	LYS
1	F	167	LYS
1	F	168	GLU
1	F	170	LEU
1	F	173	ILE
1	F	178	VAL
1	F	188	VAL
1	F	189	ASP
1	F	190	LYS
1	F	191	ASP
1	F	193	ILE
1	F	197	LYS
1	F	199	SER
1	F	203	ILE
1	F	205	ASP
1	F	210	LYS
1	F	215	ASP
1	F	222	GLN
1	F	224	PRO
1	F	225	LYS
1	F	228	THR

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Mol	Chain	Res	Type
1	F	229	ASP
1	F	231	LYS
1	F	232	ILE
1	F	235	LEU
1	F	236	ASN
1	F	237	CYS
1	F	239	ILE
1	F	240	GLU
1	F	244	SER
1	F	251	VAL
1	F	255	LYS
1	F	257	SER
1	F	268	ILE
1	F	270	ASP
1	F	273	GLN
1	F	276	LEU
1	F	279	GLU
1	F	282	VAL
1	F	285	ARG
1	F	286	ARG
1	F	289	LYS
1	F	290	SER
1	F	291	ASP
1	F	293	GLU
1	F	294	LYS
1	F	295	LEU
1	F	299	THR
1	F	303	VAL
1	F	307	ILE
1	F	308	LYS
1	F	311	SER
1	F	313	GLN
1	F	320	LEU
1	F	327	SER
1	F	330	SER
1	F	336	GLU
1	F	338	LYS
1	F	341	LYS
1	F	343	VAL
1	F	346	LEU
1	F	347	ILE
1	F	348	ARG

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Mol	Chain	Res	Type
1	F	350	THR
1	F	351	THR
1	F	352	GLU
1	F	354	VAL
1	F	355	ILE
1	F	360	ARG
1	F	362	VAL
1	F	368	VAL
1	F	373	ILE
1	F	374	GLU
1	F	375	ASP
1	F	377	ARG
1	F	378	ILE
1	F	379	VAL
1	F	380	SER
1	F	386	GLU
1	F	387	VAL
1	F	391	MET
1	F	403	ARG
1	F	411	PHE
1	F	415	LEU
1	F	416	GLU
1	F	417	VAL
1	F	428	LEU
1	F	431	ILE
1	F	432	GLU
1	F	435	VAL
1	F	438	ARG
1	F	441	HIS
1	F	446	ASN
1	F	447	LYS
1	F	451	LEU
1	F	455	THR
1	F	458	VAL
1	F	461	MET
1	F	463	GLU
1	F	467	VAL
1	F	468	GLU
1	F	469	PRO
1	F	470	LEU
1	F	471	ARG
1	F	473	LYS

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Mol	Chain	Res	Type
1	F	474	THR
1	F	475	GLN
1	F	477	ILE
1	F	479	SER
1	F	482	GLU
1	F	488	LEU
1	F	493	VAL
1	G	7	VAL
1	G	8	LEU
1	G	10	GLU
1	G	11	ASN
1	G	14	ARG
1	G	22	ARG
1	G	31	ILE
1	G	36	ARG
1	G	38	THR
1	G	39	LEU
1	G	42	LYS
1	G	44	MET
1	G	51	ASP
1	G	58	THR
1	G	60	ASP
1	G	63	THR
1	G	64	ILE
1	G	65	LEU
1	G	68	MET
1	G	69	SER
1	G	70	VAL
1	G	72	HIS
1	G	73	PRO
1	G	76	LYS
1	G	77	MET
1	G	78	LEU
1	G	79	ILE
1	G	81	VAL
1	G	85	GLN
1	G	88	GLU
1	G	93	THR
1	G	97	VAL
1	G	99	VAL
1	G	106	LYS
1	G	111	LEU

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Mol	Chain	Res	Type
1	G	113	GLN
1	G	114	ASN
1	G	115	VAL
1	G	124	TYR
1	G	134	LEU
1	G	135	LEU
1	G	136	LYS
1	G	140	CYS
1	G	141	GLU
1	G	145	GLN
1	G	147	LYS
1	G	150	LEU
1	G	153	ILE
1	G	155	MET
1	G	156	THR
1	G	157	SER
1	G	164	GLU
1	G	165	LYS
1	G	167	LYS
1	G	185	GLU
1	G	188	VAL
1	G	189	ASP
1	G	190	LYS
1	G	191	ASP
1	G	192	LEU
1	G	193	ILE
1	G	195	ILE
1	G	199	SER
1	G	203	ILE
1	G	204	ASP
1	G	213	LEU
1	G	215	ASP
1	G	217	GLU
1	G	219	VAL
1	G	222	GLN
1	G	226	LYS
1	G	227	VAL
1	G	228	THR
1	G	229	ASP
1	G	231	LYS
1	G	234	LEU
1	G	242	THR

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Mol	Chain	Res	Type
1	G	244	SER
1	G	250	MET
1	G	254	ILE
1	G	255	LYS
1	G	266	LYS
1	G	268	ILE
1	G	271	LEU
1	G	276	LEU
1	G	278	LYS
1	G	279	GLU
1	G	281	ILE
1	G	285	ARG
1	G	286	ARG
1	G	289	LYS
1	G	292	MET
1	G	293	GLU
1	G	294	LYS
1	G	295	LEU
1	G	303	VAL
1	G	304	ILE
1	G	307	ILE
1	G	308	LYS
1	G	309	ASP
1	G	313	GLN
1	G	315	LEU
1	G	317	ASP
1	G	320	LEU
1	G	325	LYS
1	G	327	SER
1	G	336	GLU
1	G	341	LYS
1	G	345	MET
1	G	346	LEU
1	G	352	GLU
1	G	362	VAL
1	G	378	ILE
1	G	379	VAL
1	G	380	SER
1	G	384	SER
1	G	386	GLU
1	G	388	GLU
1	G	389	LEU

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Mol	Chain	Res	Type
1	G	390	SER
1	G	391	MET
1	G	394	ARG
1	G	395	GLU
1	G	401	SER
1	G	403	ARG
1	G	408	VAL
1	G	413	ASP
1	G	421	THR
1	G	425	ASN
1	G	431	ILE
1	G	448	CYS
1	G	451	LEU
1	G	453	VAL
1	G	455	THR
1	G	459	GLU
1	G	466	VAL
1	G	467	VAL
1	G	470	LEU
1	G	472	VAL
1	G	473	LYS
1	G	477	ILE
1	G	479	SER
1	G	484	THR
1	G	486	MET
1	G	488	LEU
1	G	491	ASP
1	G	494	ILE
1	G	497	GLU
1	H	7	VAL
1	H	10	GLU
1	H	11	ASN
1	H	12	MET
1	H	14	ARG
1	H	16	MET
1	H	18	ARG
1	H	19	ASP
1	H	23	MET
1	H	24	ASN
1	H	25	ILE
1	H	26	LEU
1	H	31	ILE

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Mol	Chain	Res	Type
1	H	35	VAL
1	H	37	SER
1	H	44	MET
1	H	45	ASP
1	H	54	ASP
1	H	55	VAL
1	H	64	ILE
1	H	68	MET
1	H	69	SER
1	H	70	VAL
1	H	71	GLU
1	H	76	LYS
1	H	78	LEU
1	H	79	ILE
1	H	80	GLU
1	H	81	VAL
1	H	97	VAL
1	H	99	VAL
1	H	105	ARG
1	H	106	LYS
1	H	111	LEU
1	H	112	ASP
1	H	113	GLN
1	H	115	VAL
1	H	116	HIS
1	H	119	ILE
1	H	122	LYS
1	H	124	TYR
1	H	129	GLN
1	H	132	GLN
1	H	134	LEU
1	H	135	LEU
1	H	138	ILE
1	H	142	VAL
1	H	147	LYS
1	H	148	GLU
1	H	149	ILE
1	H	150	LEU
1	H	156	THR
1	H	158	ILE
1	H	159	THR
1	H	165	LYS

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Mol	Chain	Res	Type
1	H	167	LYS
1	H	170	LEU
1	H	172	GLU
1	H	173	ILE
1	H	178	VAL
1	H	187	LYS
1	H	188	VAL
1	H	189	ASP
1	H	190	LYS
1	H	192	LEU
1	H	193	ILE
1	H	195	ILE
1	H	197	LYS
1	H	199	SER
1	H	203	ILE
1	H	205	ASP
1	H	213	LEU
1	H	215	ASP
1	H	219	VAL
1	H	222	GLN
1	H	225	LYS
1	H	226	LYS
1	H	227	VAL
1	H	228	THR
1	H	231	LYS
1	H	235	LEU
1	H	236	ASN
1	H	239	ILE
1	H	240	GLU
1	H	247	LEU
1	H	251	VAL
1	H	254	ILE
1	H	257	SER
1	H	266	LYS
1	H	268	ILE
1	H	270	ASP
1	H	271	LEU
1	H	273	GLN
1	H	276	LEU
1	H	278	LYS
1	H	279	GLU
1	H	285	ARG

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Mol	Chain	Res	Type
1	H	286	ARG
1	H	288	LYS
1	H	293	GLU
1	H	294	LYS
1	H	297	LYS
1	H	302	ASN
1	H	303	VAL
1	H	305	THR
1	H	306	ASN
1	H	308	LYS
1	H	309	ASP
1	H	310	LEU
1	H	315	LEU
1	H	317	ASP
1	H	320	LEU
1	H	323	GLU
1	H	325	LYS
1	H	327	SER
1	H	330	SER
1	H	332	ILE
1	H	334	VAL
1	H	335	GLU
1	H	337	CYS
1	H	338	LYS
1	H	341	LYS
1	H	347	ILE
1	H	348	ARG
1	H	351	THR
1	H	352	GLU
1	H	355	ILE
1	H	357	GLU
1	H	364	ASP
1	H	368	VAL
1	H	377	ARG
1	H	378	ILE
1	H	379	VAL
1	H	380	SER
1	H	384	SER
1	H	386	GLU
1	H	387	VAL
1	H	388	GLU
1	H	391	MET

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Mol	Chain	Res	Type
1	H	394	ARG
1	H	398	GLU
1	H	403	ARG
1	H	406	LEU
1	H	411	PHE
1	H	415	LEU
1	H	416	GLU
1	H	417	VAL
1	H	418	ILE
1	H	420	ARG
1	H	421	THR
1	H	422	LEU
1	H	424	GLU
1	H	425	ASN
1	H	431	ILE
1	H	432	GLU
1	H	434	LEU
1	H	435	VAL
1	H	446	ASN
1	H	453	VAL
1	H	455	THR
1	H	462	CYS
1	H	464	ASN
1	H	467	VAL
1	H	468	GLU
1	H	470	LEU
1	H	473	LYS
1	H	478	GLN
1	H	485	GLU
1	H	487	LEU
1	H	488	LEU
1	H	489	ARG
1	H	497	GLU
1	I	8	LEU
1	I	11	ASN
1	I	12	MET
1	I	18	ARG
1	I	19	ASP
1	I	22	ARG
1	I	25	ILE
1	I	26	LEU
1	I	31	ILE

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Mol	Chain	Res	Type
1	I	33	GLU
1	I	37	SER
1	I	44	MET
1	I	48	LEU
1	I	51	ASP
1	I	57	VAL
1	I	63	THR
1	I	65	LEU
1	I	66	ARG
1	I	68	MET
1	I	69	SER
1	I	70	VAL
1	I	71	GLU
1	I	77	MET
1	I	78	LEU
1	I	81	VAL
1	I	85	GLN
1	I	88	GLU
1	I	91	ASP
1	I	95	THR
1	I	98	VAL
1	I	99	VAL
1	I	105	ARG
1	I	106	LYS
1	I	110	LEU
1	I	112	ASP
1	I	113	GLN
1	I	114	ASN
1	I	115	VAL
1	I	116	HIS
1	I	124	TYR
1	I	129	GLN
1	I	130	LYS
1	I	132	GLN
1	I	134	LEU
1	I	135	LEU
1	I	141	GLU
1	I	145	GLN
1	I	147	LYS
1	I	148	GLU
1	I	152	LYS
1	I	153	ILE

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Mol	Chain	Res	Type
1	I	157	SER
1	I	164	GLU
1	I	167	LYS
1	I	170	LEU
1	I	172	GLU
1	I	173	ILE
1	I	179	SER
1	I	181	VAL
1	I	188	VAL
1	I	190	LYS
1	I	191	ASP
1	I	195	ILE
1	I	197	LYS
1	I	203	ILE
1	I	208	LEU
1	I	209	ILE
1	I	213	LEU
1	I	216	LYS
1	I	218	ARG
1	I	222	GLN
1	I	225	LYS
1	I	226	LYS
1	I	228	THR
1	I	231	LYS
1	I	234	LEU
1	I	236	ASN
1	I	239	ILE
1	I	246	MET
1	I	257	SER
1	I	260	ASN
1	I	266	LYS
1	I	268	ILE
1	I	270	ASP
1	I	278	LYS
1	I	281	ILE
1	I	285	ARG
1	I	288	LYS
1	I	290	SER
1	I	293	GLU
1	I	294	LYS
1	I	295	LEU
1	I	299	THR

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Mol	Chain	Res	Type
1	I	303	VAL
1	I	305	THR
1	I	307	ILE
1	I	308	LYS
1	I	309	ASP
1	I	311	SER
1	I	313	GLN
1	I	315	LEU
1	I	317	ASP
1	I	320	LEU
1	I	325	LYS
1	I	326	ILE
1	I	327	SER
1	I	334	VAL
1	I	336	GLU
1	I	340	PRO
1	I	341	LYS
1	I	346	LEU
1	I	347	ILE
1	I	350	THR
1	I	354	VAL
1	I	356	GLU
1	I	357	GLU
1	I	368	VAL
1	I	371	CYS
1	I	373	ILE
1	I	374	GLU
1	I	377	ARG
1	I	379	VAL
1	I	380	SER
1	I	386	GLU
1	I	394	ARG
1	I	406	LEU
1	I	408	VAL
1	I	411	PHE
1	I	415	LEU
1	I	416	GLU
1	I	417	VAL
1	I	420	ARG
1	I	421	THR
1	I	422	LEU
1	I	424	GLU

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Mol	Chain	Res	Type
1	I	431	ILE
1	I	433	ILE
1	I	435	VAL
1	I	441	HIS
1	I	444	ASN
1	I	446	ASN
1	I	447	LYS
1	I	453	VAL
1	I	455	THR
1	I	459	GLU
1	I	461	MET
1	I	466	VAL
1	I	467	VAL
1	I	470	LEU
1	I	472	VAL
1	I	473	LYS
1	I	477	ILE
1	I	479	SER
1	I	484	THR
1	I	487	LEU
1	I	489	ARG
1	I	491	ASP
1	I	493	VAL
1	I	497	GLU
1	J	7	VAL
1	J	8	LEU
1	J	10	GLU
1	J	12	MET
1	J	14	ARG
1	J	18	ARG
1	J	19	ASP
1	J	22	ARG
1	J	25	ILE
1	J	26	LEU
1	J	30	ILE
1	J	31	ILE
1	J	34	THR
1	J	35	VAL
1	J	36	ARG
1	J	38	THR
1	J	39	LEU
1	J	42	LYS

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Mol	Chain	Res	Type
1	J	44	MET
1	J	54	ASP
1	J	55	VAL
1	J	56	VAL
1	J	57	VAL
1	J	65	LEU
1	J	66	ARG
1	J	70	VAL
1	J	76	LYS
1	J	77	MET
1	J	81	VAL
1	J	85	GLN
1	J	87	LYS
1	J	89	VAL
1	J	91	ASP
1	J	97	VAL
1	J	106	LYS
1	J	111	LEU
1	J	113	GLN
1	J	114	ASN
1	J	115	VAL
1	J	119	ILE
1	J	120	VAL
1	J	121	VAL
1	J	122	LYS
1	J	129	GLN
1	J	133	GLU
1	J	134	LEU
1	J	135	LEU
1	J	136	LYS
1	J	140	CYS
1	J	141	GLU
1	J	142	VAL
1	J	148	GLU
1	J	149	ILE
1	J	150	LEU
1	J	155	MET
1	J	156	THR
1	J	157	SER
1	J	164	GLU
1	J	167	LYS
1	J	172	GLU

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Mol	Chain	Res	Type
1	J	182	VAL
1	J	183	ASP
1	J	185	GLU
1	J	187	LYS
1	J	189	ASP
1	J	190	LYS
1	J	192	LEU
1	J	194	LYS
1	J	195	ILE
1	J	197	LYS
1	J	198	LYS
1	J	203	ILE
1	J	210	LYS
1	J	215	ASP
1	J	218	ARG
1	J	219	VAL
1	J	224	PRO
1	J	225	LYS
1	J	226	LYS
1	J	227	VAL
1	J	228	THR
1	J	231	LYS
1	J	232	ILE
1	J	234	LEU
1	J	236	ASN
1	J	237	CYS
1	J	239	ILE
1	J	240	GLU
1	J	242	THR
1	J	247	LEU
1	J	251	VAL
1	J	253	GLU
1	J	254	ILE
1	J	255	LYS
1	J	260	ASN
1	J	266	LYS
1	J	269	ASP
1	J	270	ASP
1	J	271	LEU
1	J	273	GLN
1	J	276	LEU
1	J	281	ILE

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Mol	Chain	Res	Type
1	J	285	ARG
1	J	286	ARG
1	J	293	GLU
1	J	295	LEU
1	J	297	LYS
1	J	302	ASN
1	J	303	VAL
1	J	307	ILE
1	J	308	LYS
1	J	309	ASP
1	J	310	LEU
1	J	315	LEU
1	J	320	LEU
1	J	327	SER
1	J	334	VAL
1	J	336	GLU
1	J	338	LYS
1	J	341	LYS
1	J	343	VAL
1	J	346	LEU
1	J	348	ARG
1	J	352	GLU
1	J	354	VAL
1	J	371	CYS
1	J	372	THR
1	J	377	ARG
1	J	379	VAL
1	J	385	THR
1	J	386	GLU
1	J	395	GLU
1	J	401	SER
1	J	403	ARG
1	J	411	PHE
1	J	413	ASP
1	J	416	GLU
1	J	418	ILE
1	J	424	GLU
1	J	425	ASN
1	J	431	ILE
1	J	433	ILE
1	J	435	VAL
1	J	436	LYS

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Mol	Chain	Res	Type
1	J	446	ASN
1	J	447	LYS
1	J	455	THR
1	J	459	GLU
1	J	470	LEU
1	J	471	ARG
1	J	473	LYS
1	J	474	THR
1	J	477	ILE
1	J	485	GLU
1	J	486	MET
1	J	488	LEU
1	J	497	GLU
1	K	7	VAL
1	K	8	LEU
1	K	10	GLU
1	K	11	ASN
1	K	12	MET
1	K	13	LYS
1	K	14	ARG
1	K	21	GLN
1	K	23	MET
1	K	25	ILE
1	K	26	LEU
1	K	30	ILE
1	K	31	ILE
1	K	35	VAL
1	K	37	SER
1	K	44	MET
1	K	63	THR
1	K	68	MET
1	K	71	GLU
1	K	72	HIS
1	K	77	MET
1	K	78	LEU
1	K	79	ILE
1	K	81	VAL
1	K	83	LYS
1	K	84	THR
1	K	86	GLU
1	K	87	LYS
1	K	94	THR

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Mol	Chain	Res	Type
1	K	97	VAL
1	K	98	VAL
1	K	106	LYS
1	K	110	LEU
1	K	111	LEU
1	K	113	GLN
1	K	115	VAL
1	K	116	HIS
1	K	119	ILE
1	K	122	LYS
1	K	124	TYR
1	K	130	LYS
1	K	134	LEU
1	K	136	LYS
1	K	140	CYS
1	K	141	GLU
1	K	142	VAL
1	K	145	GLN
1	K	147	LYS
1	K	149	ILE
1	K	150	LEU
1	K	153	ILE
1	K	156	THR
1	K	157	SER
1	K	159	THR
1	K	164	GLU
1	K	167	LYS
1	K	173	ILE
1	K	178	VAL
1	K	179	SER
1	K	188	VAL
1	K	189	ASP
1	K	192	LEU
1	K	195	ILE
1	K	197	LYS
1	K	199	SER
1	K	203	ILE
1	K	205	ASP
1	K	210	LYS
1	K	213	LEU
1	K	217	GLU
1	K	224	PRO

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Mol	Chain	Res	Type
1	K	227	VAL
1	K	229	ASP
1	K	231	LYS
1	K	232	ILE
1	K	236	ASN
1	K	239	ILE
1	K	240	GLU
1	K	255	LYS
1	K	260	ASN
1	K	266	LYS
1	K	268	ILE
1	K	273	GLN
1	K	278	LYS
1	K	285	ARG
1	K	289	LYS
1	K	291	ASP
1	K	292	MET
1	K	294	LYS
1	K	295	LEU
1	K	302	ASN
1	K	307	ILE
1	K	308	LYS
1	K	309	ASP
1	K	310	LEU
1	K	313	GLN
1	K	315	LEU
1	K	320	LEU
1	K	327	SER
1	K	330	SER
1	K	336	GLU
1	K	337	CYS
1	K	341	LYS
1	K	343	VAL
1	K	348	ARG
1	K	351	THR
1	K	354	VAL
1	K	356	GLU
1	K	360	ARG
1	K	368	VAL
1	K	373	ILE
1	K	374	GLU
1	K	377	ARG

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Mol	Chain	Res	Type
1	K	378	ILE
1	K	379	VAL
1	K	380	SER
1	K	384	SER
1	K	386	GLU
1	K	387	VAL
1	K	401	SER
1	K	403	ARG
1	K	406	LEU
1	K	413	ASP
1	K	415	LEU
1	K	416	GLU
1	K	417	VAL
1	K	418	ILE
1	K	420	ARG
1	K	428	LEU
1	K	429	ASP
1	K	431	ILE
1	K	434	LEU
1	K	443	SER
1	K	446	ASN
1	K	448	CYS
1	K	453	VAL
1	K	455	THR
1	K	459	GLU
1	K	460	ASP
1	K	461	MET
1	K	466	VAL
1	K	467	VAL
1	K	468	GLU
1	K	469	PRO
1	K	470	LEU
1	K	473	LYS
1	K	475	GLN
1	K	477	ILE
1	K	479	SER
1	K	485	GLU
1	K	486	MET
1	K	487	LEU
1	K	489	ARG
1	K	490	ILE
1	L	10	GLU

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Mol	Chain	Res	Type
1	L	11	ASN
1	L	13	LYS
1	L	18	ARG
1	L	26	LEU
1	L	31	ILE
1	L	35	VAL
1	L	37	SER
1	L	39	LEU
1	L	42	LYS
1	L	44	MET
1	L	48	LEU
1	L	49	VAL
1	L	51	ASP
1	L	52	LEU
1	L	56	VAL
1	L	57	VAL
1	L	63	THR
1	L	65	LEU
1	L	68	MET
1	L	69	SER
1	L	70	VAL
1	L	77	MET
1	L	78	LEU
1	L	88	GLU
1	L	93	THR
1	L	94	THR
1	L	98	VAL
1	L	99	VAL
1	L	102	GLU
1	L	103	LEU
1	L	105	ARG
1	L	106	LYS
1	L	111	LEU
1	L	114	ASN
1	L	115	VAL
1	L	119	ILE
1	L	120	VAL
1	L	122	LYS
1	L	130	LYS
1	L	135	LEU
1	L	136	LYS
1	L	137	THR

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Mol	Chain	Res	Type
1	L	140	CYS
1	L	142	VAL
1	L	145	GLN
1	L	149	ILE
1	L	153	ILE
1	L	155	MET
1	L	157	SER
1	L	164	GLU
1	L	167	LYS
1	L	169	LYS
1	L	170	LEU
1	L	172	GLU
1	L	173	ILE
1	L	183	ASP
1	L	187	LYS
1	L	188	VAL
1	L	190	LYS
1	L	195	ILE
1	L	197	LYS
1	L	199	SER
1	L	203	ILE
1	L	206	THR
1	L	212	VAL
1	L	216	LYS
1	L	219	VAL
1	L	224	PRO
1	L	227	VAL
1	L	228	THR
1	L	229	ASP
1	L	231	LYS
1	L	234	LEU
1	L	235	LEU
1	L	239	ILE
1	L	250	MET
1	L	251	VAL
1	L	253	GLU
1	L	255	LYS
1	L	257	SER
1	L	260	ASN
1	L	266	LYS
1	L	268	ILE
1	L	270	ASP

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Mol	Chain	Res	Type
1	L	273	GLN
1	L	276	LEU
1	L	278	LYS
1	L	285	ARG
1	L	289	LYS
1	L	290	SER
1	L	291	ASP
1	L	292	MET
1	L	295	LEU
1	L	303	VAL
1	L	304	ILE
1	L	305	THR
1	L	308	LYS
1	L	309	ASP
1	L	310	LEU
1	L	313	GLN
1	L	315	LEU
1	L	320	LEU
1	L	323	GLU
1	L	325	LYS
1	L	327	SER
1	L	336	GLU
1	L	337	CYS
1	L	340	PRO
1	L	341	LYS
1	L	345	MET
1	L	347	ILE
1	L	348	ARG
1	L	351	THR
1	L	352	GLU
1	L	353	HIS
1	L	354	VAL
1	L	357	GLU
1	L	363	ASP
1	L	364	ASP
1	L	371	CYS
1	L	373	ILE
1	L	374	GLU
1	L	375	ASP
1	L	386	GLU
1	L	387	VAL
1	L	392	LYS

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Mol	Chain	Res	Type
1	L	394	ARG
1	L	400	ILE
1	L	403	ARG
1	L	404	GLU
1	L	409	ARG
1	L	415	LEU
1	L	417	VAL
1	L	431	ILE
1	L	434	LEU
1	L	438	ARG
1	L	443	SER
1	L	453	VAL
1	L	455	THR
1	L	462	CYS
1	L	468	GLU
1	L	470	LEU
1	L	473	LYS
1	L	483	SER
1	L	486	MET
1	L	487	LEU
1	L	488	LEU
1	L	489	ARG
1	L	490	ILE
1	L	491	ASP
1	L	494	ILE
1	M	7	VAL
1	M	8	LEU
1	M	9	PRO
1	M	11	ASN
1	M	12	MET
1	M	13	LYS
1	M	16	MET
1	M	22	ARG
1	M	24	ASN
1	M	26	LEU
1	M	31	ILE
1	M	34	THR
1	M	36	ARG
1	M	37	SER
1	M	39	LEU
1	M	42	LYS
1	M	44	MET

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Mol	Chain	Res	Type
1	M	45	ASP
1	M	47	MET
1	M	48	LEU
1	M	52	LEU
1	M	55	VAL
1	M	56	VAL
1	M	57	VAL
1	M	59	ASN
1	M	65	LEU
1	M	66	ARG
1	M	69	SER
1	M	70	VAL
1	M	72	HIS
1	M	77	MET
1	M	78	LEU
1	M	83	LYS
1	M	87	LYS
1	M	88	GLU
1	M	94	THR
1	M	95	THR
1	M	98	VAL
1	M	102	GLU
1	M	103	LEU
1	M	105	ARG
1	M	106	LYS
1	M	110	LEU
1	M	112	ASP
1	M	113	GLN
1	M	114	ASN
1	M	115	VAL
1	M	122	LYS
1	M	124	TYR
1	M	130	LYS
1	M	132	GLN
1	M	133	GLU
1	M	134	LEU
1	M	136	LYS
1	M	138	ILE
1	M	147	LYS
1	M	148	GLU
1	M	150	LEU
1	M	155	MET

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Mol	Chain	Res	Type
1	M	156	THR
1	M	158	ILE
1	M	164	GLU
1	M	170	LEU
1	M	173	ILE
1	M	178	VAL
1	M	188	VAL
1	M	190	LYS
1	M	191	ASP
1	M	192	LEU
1	M	195	ILE
1	M	197	LYS
1	M	198	LYS
1	M	199	SER
1	M	203	ILE
1	M	204	ASP
1	M	206	THR
1	M	210	LYS
1	M	217	GLU
1	M	219	VAL
1	M	222	GLN
1	M	224	PRO
1	M	225	LYS
1	M	227	VAL
1	M	228	THR
1	M	231	LYS
1	M	232	ILE
1	M	236	ASN
1	M	242	THR
1	M	244	SER
1	M	247	LEU
1	M	250	MET
1	M	251	VAL
1	M	255	LYS
1	M	260	ASN
1	M	264	CYS
1	M	268	ILE
1	M	270	ASP
1	M	271	LEU
1	M	278	LYS
1	M	279	GLU
1	M	281	ILE

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Mol	Chain	Res	Type
1	M	288	LYS
1	M	289	LYS
1	M	290	SER
1	M	302	ASN
1	M	303	VAL
1	M	306	ASN
1	M	307	ILE
1	M	310	LEU
1	M	313	GLN
1	M	320	LEU
1	M	326	ILE
1	M	327	SER
1	M	334	VAL
1	M	341	LYS
1	M	345	MET
1	M	346	LEU
1	M	347	ILE
1	M	348	ARG
1	M	351	THR
1	M	353	HIS
1	M	355	ILE
1	M	368	VAL
1	M	373	ILE
1	M	377	ARG
1	M	378	ILE
1	M	380	SER
1	M	403	ARG
1	M	406	LEU
1	M	411	PHE
1	M	413	ASP
1	M	417	VAL
1	M	418	ILE
1	M	420	ARG
1	M	428	LEU
1	M	429	ASP
1	M	431	ILE
1	M	433	ILE
1	M	434	LEU
1	M	435	VAL
1	M	436	LYS
1	M	441	HIS
1	M	446	ASN

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Mol	Chain	Res	Type
1	M	447	LYS
1	M	448	CYS
1	M	451	LEU
1	M	453	VAL
1	M	455	THR
1	M	458	VAL
1	M	459	GLU
1	M	462	CYS
1	M	464	ASN
1	M	467	VAL
1	M	470	LEU
1	M	471	ARG
1	M	472	VAL
1	M	473	LYS
1	M	477	ILE
1	M	478	GLN
1	M	483	SER
1	M	487	LEU
1	M	488	LEU
1	M	489	ARG
1	M	494	ILE
1	N	7	VAL
1	N	8	LEU
1	N	10	GLU
1	N	11	ASN
1	N	12	MET
1	N	16	MET
1	N	18	ARG
1	N	19	ASP
1	N	22	ARG
1	N	26	LEU
1	N	31	ILE
1	N	34	THR
1	N	35	VAL
1	N	36	ARG
1	N	38	THR
1	N	39	LEU
1	N	41	PRO
1	N	42	LYS
1	N	58	THR
1	N	59	ASN
1	N	60	ASP

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Mol	Chain	Res	Type
1	N	62	VAL
1	N	64	ILE
1	N	68	MET
1	N	70	VAL
1	N	72	HIS
1	N	78	LEU
1	N	85	GLN
1	N	88	GLU
1	N	93	THR
1	N	94	THR
1	N	98	VAL
1	N	99	VAL
1	N	105	ARG
1	N	106	LYS
1	N	110	LEU
1	N	113	GLN
1	N	114	ASN
1	N	115	VAL
1	N	119	ILE
1	N	120	VAL
1	N	124	TYR
1	N	129	GLN
1	N	133	GLU
1	N	134	LEU
1	N	136	LYS
1	N	141	GLU
1	N	142	VAL
1	N	145	GLN
1	N	147	LYS
1	N	149	ILE
1	N	153	ILE
1	N	156	THR
1	N	157	SER
1	N	158	ILE
1	N	161	LYS
1	N	165	LYS
1	N	167	LYS
1	N	179	SER
1	N	181	VAL
1	N	187	LYS
1	N	188	VAL
1	N	192	LEU

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Mol	Chain	Res	Type
1	N	195	ILE
1	N	197	LYS
1	N	199	SER
1	N	203	ILE
1	N	205	ASP
1	N	212	VAL
1	N	215	ASP
1	N	216	LYS
1	N	217	GLU
1	N	218	ARG
1	N	219	VAL
1	N	225	LYS
1	N	228	THR
1	N	231	LYS
1	N	232	ILE
1	N	234	LEU
1	N	236	ASN
1	N	239	ILE
1	N	241	GLU
1	N	242	THR
1	N	245	GLU
1	N	251	VAL
1	N	254	ILE
1	N	260	ASN
1	N	266	LYS
1	N	268	ILE
1	N	270	ASP
1	N	271	LEU
1	N	273	GLN
1	N	278	LYS
1	N	282	VAL
1	N	285	ARG
1	N	286	ARG
1	N	290	SER
1	N	292	MET
1	N	297	LYS
1	N	302	ASN
1	N	303	VAL
1	N	305	THR
1	N	307	ILE
1	N	308	LYS
1	N	309	ASP

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Mol	Chain	Res	Type
1	N	310	LEU
1	N	311	SER
1	N	314	ASP
1	N	317	ASP
1	N	320	LEU
1	N	325	LYS
1	N	330	SER
1	N	334	VAL
1	N	336	GLU
1	N	338	LYS
1	N	341	LYS
1	N	348	ARG
1	N	351	THR
1	N	352	GLU
1	N	355	ILE
1	N	356	GLU
1	N	357	GLU
1	N	360	ARG
1	N	368	VAL
1	N	372	THR
1	N	373	ILE
1	N	377	ARG
1	N	379	VAL
1	N	385	THR
1	N	386	GLU
1	N	394	ARG
1	N	403	ARG
1	N	418	ILE
1	N	419	PRO
1	N	420	ARG
1	N	431	ILE
1	N	432	GLU
1	N	434	LEU
1	N	435	VAL
1	N	438	ARG
1	N	441	HIS
1	N	446	ASN
1	N	447	LYS
1	N	455	THR
1	N	458	VAL
1	N	461	MET
1	N	467	VAL

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Mol	Chain	Res	Type
1	N	470	LEU
1	N	471	ARG
1	N	472	VAL
1	N	473	LYS
1	N	486	MET
1	N	488	LEU
1	N	489	ARG
1	N	491	ASP
1	N	494	ILE
1	O	11	ASN
1	O	12	MET
1	O	18	ARG
1	O	19	ASP
1	O	26	LEU
1	O	29	ARG
1	O	30	ILE
1	O	31	ILE
1	O	37	SER
1	O	39	LEU
1	O	44	MET
1	O	48	LEU
1	O	54	ASP
1	O	59	ASN
1	O	62	VAL
1	O	63	THR
1	O	64	ILE
1	O	65	LEU
1	O	66	ARG
1	O	68	MET
1	O	70	VAL
1	O	71	GLU
1	O	72	HIS
1	O	77	MET
1	O	78	LEU
1	O	81	VAL
1	O	84	THR
1	O	93	THR
1	O	97	VAL
1	O	98	VAL
1	O	106	LYS
1	O	111	LEU
1	O	112	ASP

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Mol	Chain	Res	Type
1	O	113	GLN
1	O	115	VAL
1	O	116	HIS
1	O	119	ILE
1	O	122	LYS
1	O	129	GLN
1	O	130	LYS
1	O	134	LEU
1	O	136	LYS
1	O	138	ILE
1	O	141	GLU
1	O	147	LYS
1	O	149	ILE
1	O	150	LEU
1	O	152	LYS
1	O	155	MET
1	O	156	THR
1	O	157	SER
1	O	159	THR
1	O	164	GLU
1	O	167	LYS
1	O	169	LYS
1	O	173	ILE
1	O	181	VAL
1	O	183	ASP
1	O	187	LYS
1	O	190	LYS
1	O	191	ASP
1	O	192	LEU
1	O	195	ILE
1	O	197	LYS
1	O	198	LYS
1	O	199	SER
1	O	203	ILE
1	O	204	ASP
1	O	213	LEU
1	O	216	LYS
1	O	217	GLU
1	O	218	ARG
1	O	219	VAL
1	O	222	GLN
1	O	224	PRO

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Mol	Chain	Res	Type
1	O	225	LYS
1	O	226	LYS
1	O	227	VAL
1	O	228	THR
1	O	231	LYS
1	O	235	LEU
1	O	236	ASN
1	O	237	CYS
1	O	239	ILE
1	O	240	GLU
1	O	246	MET
1	O	250	MET
1	O	251	VAL
1	O	253	GLU
1	O	254	ILE
1	O	257	SER
1	O	268	ILE
1	O	270	ASP
1	O	271	LEU
1	O	273	GLN
1	O	276	LEU
1	O	281	ILE
1	O	285	ARG
1	O	286	ARG
1	O	288	LYS
1	O	290	SER
1	O	291	ASP
1	O	292	MET
1	O	293	GLU
1	O	294	LYS
1	O	302	ASN
1	O	303	VAL
1	O	305	THR
1	O	308	LYS
1	O	309	ASP
1	O	310	LEU
1	O	311	SER
1	O	313	GLN
1	O	315	LEU
1	O	320	LEU
1	O	327	SER
1	O	330	SER

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Mol	Chain	Res	Type
1	O	336	GLU
1	O	338	LYS
1	O	341	LYS
1	O	346	LEU
1	O	348	ARG
1	O	350	THR
1	O	352	GLU
1	O	354	VAL
1	O	355	ILE
1	O	357	GLU
1	O	364	ASP
1	O	372	THR
1	O	373	ILE
1	O	375	ASP
1	O	377	ARG
1	O	379	VAL
1	O	384	SER
1	O	385	THR
1	O	386	GLU
1	O	391	MET
1	O	395	GLU
1	O	398	GLU
1	O	401	SER
1	O	403	ARG
1	O	404	GLU
1	O	405	GLN
1	O	416	GLU
1	O	418	ILE
1	O	421	THR
1	O	424	GLU
1	O	429	ASP
1	O	431	ILE
1	O	433	ILE
1	O	434	LEU
1	O	438	ARG
1	O	441	HIS
1	O	446	ASN
1	O	447	LYS
1	O	453	VAL
1	O	455	THR
1	O	459	GLU
1	O	461	MET

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Mol	Chain	Res	Type
1	O	467	VAL
1	O	468	GLU
1	O	471	ARG
1	O	472	VAL
1	O	473	LYS
1	O	475	GLN
1	O	477	ILE
1	O	478	GLN
1	O	484	THR
1	O	487	LEU
1	O	488	LEU
1	O	489	ARG
1	O	494	ILE
1	P	7	VAL
1	P	8	LEU
1	P	9	PRO
1	P	16	MET
1	P	18	ARG
1	P	19	ASP
1	P	22	ARG
1	P	23	MET
1	P	26	LEU
1	P	30	ILE
1	P	31	ILE
1	P	34	THR
1	P	35	VAL
1	P	39	LEU
1	P	42	LYS
1	P	44	MET
1	P	48	LEU
1	P	49	VAL
1	P	52	LEU
1	P	54	ASP
1	P	56	VAL
1	P	65	LEU
1	P	68	MET
1	P	69	SER
1	P	72	HIS
1	P	76	LYS
1	P	77	MET
1	P	78	LEU
1	P	80	GLU

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Mol	Chain	Res	Type
1	P	83	LYS
1	P	84	THR
1	P	85	GLN
1	P	88	GLU
1	P	93	THR
1	P	94	THR
1	P	99	VAL
1	P	105	ARG
1	P	106	LYS
1	P	108	GLU
1	P	109	GLU
1	P	110	LEU
1	P	111	LEU
1	P	113	GLN
1	P	114	ASN
1	P	118	THR
1	P	119	ILE
1	P	122	LYS
1	P	129	GLN
1	P	130	LYS
1	P	133	GLU
1	P	134	LEU
1	P	136	LYS
1	P	138	ILE
1	P	141	GLU
1	P	142	VAL
1	P	145	GLN
1	P	153	ILE
1	P	155	MET
1	P	156	THR
1	P	157	SER
1	P	158	ILE
1	P	159	THR
1	P	164	GLU
1	P	165	LYS
1	P	167	LYS
1	P	170	LEU
1	P	172	GLU
1	P	173	ILE
1	P	174	ILE
1	P	178	VAL
1	P	181	VAL

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Mol	Chain	Res	Type
1	P	182	VAL
1	P	184	ASP
1	P	187	LYS
1	P	188	VAL
1	P	191	ASP
1	P	195	ILE
1	P	197	LYS
1	P	199	SER
1	P	203	ILE
1	P	204	ASP
1	P	208	LEU
1	P	209	ILE
1	P	213	LEU
1	P	215	ASP
1	P	224	PRO
1	P	227	VAL
1	P	228	THR
1	P	229	ASP
1	P	231	LYS
1	P	232	ILE
1	P	235	LEU
1	P	236	ASN
1	P	239	ILE
1	P	240	GLU
1	P	244	SER
1	P	247	LEU
1	P	260	ASN
1	P	266	LYS
1	P	268	ILE
1	P	271	LEU
1	P	273	GLN
1	P	276	LEU
1	P	278	LYS
1	P	282	VAL
1	P	288	LYS
1	P	290	SER
1	P	292	MET
1	P	297	LYS
1	P	299	THR
1	P	303	VAL
1	P	304	ILE
1	P	308	LYS

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Mol	Chain	Res	Type
1	P	310	LEU
1	P	311	SER
1	P	313	GLN
1	P	317	ASP
1	P	320	LEU
1	P	325	LYS
1	P	327	SER
1	P	330	SER
1	P	336	GLU
1	P	339	HIS
1	P	341	LYS
1	P	343	VAL
1	P	346	LEU
1	P	347	ILE
1	P	348	ARG
1	P	350	THR
1	P	351	THR
1	P	354	VAL
1	P	357	GLU
1	P	368	VAL
1	P	373	ILE
1	P	377	ARG
1	P	379	VAL
1	P	380	SER
1	P	384	SER
1	P	385	THR
1	P	386	GLU
1	P	392	LYS
1	P	400	ILE
1	P	403	ARG
1	P	404	GLU
1	P	406	LEU
1	P	416	GLU
1	P	418	ILE
1	P	420	ARG
1	P	421	THR
1	P	424	GLU
1	P	431	ILE
1	P	432	GLU
1	P	434	LEU
1	P	443	SER
1	P	446	ASN

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Mol	Chain	Res	Type
1	P	448	CYS
1	P	451	LEU
1	P	452	ASN
1	P	458	VAL
1	P	462	CYS
1	P	464	ASN
1	P	467	VAL
1	P	468	GLU
1	P	469	PRO
1	P	470	LEU
1	P	473	LYS
1	P	475	GLN
1	P	477	ILE
1	P	479	SER
1	P	486	MET
1	P	487	LEU
1	P	489	ARG
1	P	490	ILE
1	P	492	ASP
1	P	493	VAL
1	P	494	ILE
1	P	497	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (204) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	24	ASN
1	A	72	HIS
1	A	125	GLN
1	A	132	GLN
1	A	222	GLN
1	A	425	ASN
1	A	441	HIS
1	A	452	ASN
1	A	464	ASN
1	B	24	ASN
1	B	59	ASN
1	B	72	HIS
1	B	113	GLN
1	B	116	HIS
1	B	125	GLN
1	B	425	ASN

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Mol	Chain	Res	Type
1	B	441	HIS
1	B	444	ASN
1	B	452	ASN
1	C	21	GLN
1	C	24	ASN
1	C	125	GLN
1	C	132	GLN
1	C	302	ASN
1	C	339	HIS
1	C	405	GLN
1	C	441	HIS
1	C	452	ASN
1	C	464	ASN
1	C	478	GLN
1	D	11	ASN
1	D	24	ASN
1	D	59	ASN
1	D	72	HIS
1	D	113	GLN
1	D	116	HIS
1	D	125	GLN
1	D	132	GLN
1	D	236	ASN
1	D	273	GLN
1	D	306	ASN
1	D	313	GLN
1	D	405	GLN
1	D	425	ASN
1	D	441	HIS
1	D	452	ASN
1	D	475	GLN
1	D	478	GLN
1	E	24	ASN
1	E	59	ASN
1	E	116	HIS
1	E	125	GLN
1	E	132	GLN
1	E	236	ASN
1	E	260	ASN
1	E	339	HIS
1	E	425	ASN
1	E	441	HIS

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Mol	Chain	Res	Type
1	E	452	ASN
1	E	464	ASN
1	E	475	GLN
1	F	24	ASN
1	F	72	HIS
1	F	85	GLN
1	F	113	GLN
1	F	116	HIS
1	F	125	GLN
1	F	145	GLN
1	F	222	GLN
1	F	236	ASN
1	F	313	GLN
1	F	339	HIS
1	F	441	HIS
1	F	452	ASN
1	G	11	ASN
1	G	24	ASN
1	G	59	ASN
1	G	72	HIS
1	G	113	GLN
1	G	125	GLN
1	G	222	GLN
1	G	236	ASN
1	G	260	ASN
1	G	273	GLN
1	G	425	ASN
1	G	441	HIS
1	G	444	ASN
1	G	464	ASN
1	G	478	GLN
1	H	24	ASN
1	H	113	GLN
1	H	125	GLN
1	H	132	GLN
1	H	236	ASN
1	H	273	GLN
1	H	339	HIS
1	H	425	ASN
1	H	441	HIS
1	H	452	ASN
1	H	464	ASN

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Mol	Chain	Res	Type
1	H	475	GLN
1	H	478	GLN
1	I	24	ASN
1	I	59	ASN
1	I	72	HIS
1	I	113	GLN
1	I	114	ASN
1	I	129	GLN
1	I	132	GLN
1	I	236	ASN
1	I	273	GLN
1	I	339	HIS
1	I	441	HIS
1	I	444	ASN
1	I	464	ASN
1	J	24	ASN
1	J	72	HIS
1	J	113	GLN
1	J	116	HIS
1	J	125	GLN
1	J	129	GLN
1	J	236	ASN
1	J	260	ASN
1	J	302	ASN
1	J	339	HIS
1	J	405	GLN
1	J	444	ASN
1	J	464	ASN
1	J	475	GLN
1	J	478	GLN
1	K	24	ASN
1	K	113	GLN
1	K	114	ASN
1	K	125	GLN
1	K	129	GLN
1	K	132	GLN
1	K	260	ASN
1	K	265	GLN
1	K	339	HIS
1	K	444	ASN
1	K	464	ASN
1	L	21	GLN

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Mol	Chain	Res	Type
1	L	24	ASN
1	L	59	ASN
1	L	116	HIS
1	L	265	GLN
1	L	302	ASN
1	L	306	ASN
1	L	313	GLN
1	L	339	HIS
1	L	441	HIS
1	L	446	ASN
1	L	452	ASN
1	L	464	ASN
1	L	475	GLN
1	M	24	ASN
1	M	72	HIS
1	M	125	GLN
1	M	260	ASN
1	M	273	GLN
1	M	274	HIS
1	M	313	GLN
1	M	339	HIS
1	M	405	GLN
1	M	441	HIS
1	M	452	ASN
1	N	24	ASN
1	N	85	GLN
1	N	113	GLN
1	N	125	GLN
1	N	129	GLN
1	N	132	GLN
1	N	222	GLN
1	N	273	GLN
1	N	339	HIS
1	N	405	GLN
1	N	441	HIS
1	N	475	GLN
1	O	114	ASN
1	O	116	HIS
1	O	125	GLN
1	O	129	GLN
1	O	260	ASN
1	O	265	GLN

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Mol	Chain	Res	Type
1	O	273	GLN
1	O	339	HIS
1	O	405	GLN
1	O	441	HIS
1	O	452	ASN
1	O	478	GLN
1	P	24	ASN
1	P	59	ASN
1	P	85	GLN
1	P	113	GLN
1	P	114	ASN
1	P	125	GLN
1	P	132	GLN
1	P	265	GLN
1	P	274	HIS
1	P	339	HIS
1	P	405	GLN
1	P	444	ASN
1	P	452	ASN
1	P	478	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

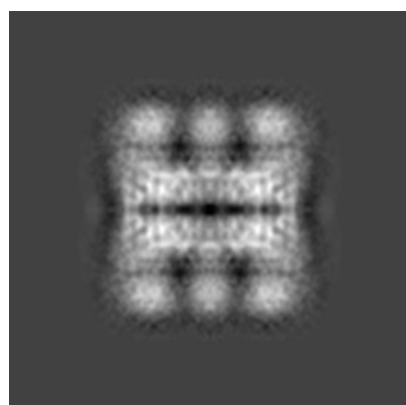
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-5140. These allow visual inspection of the internal detail of the map and identification of artifacts.

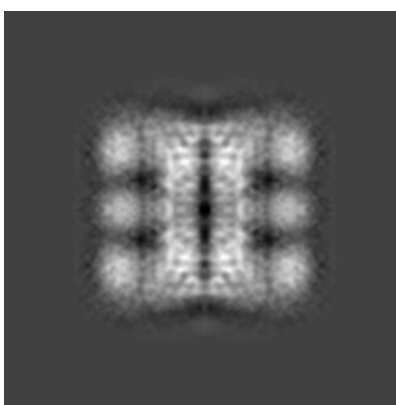
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

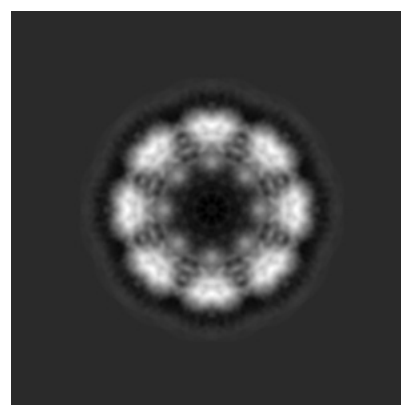
6.1.1 Primary map



X



Y

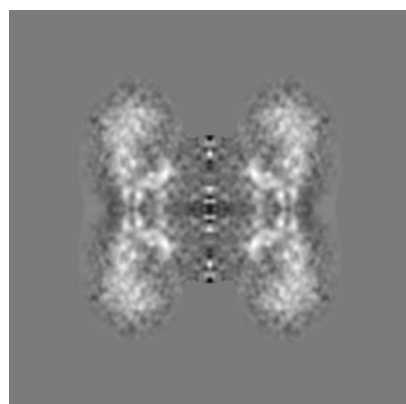


Z

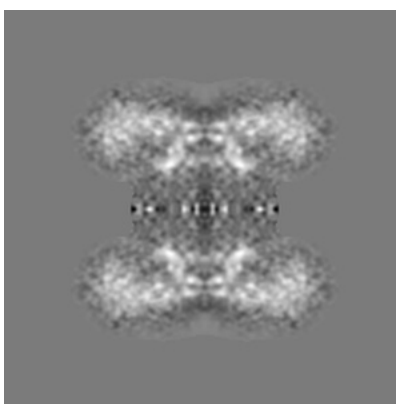
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

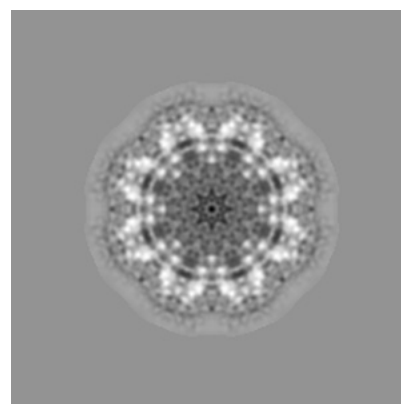
6.2.1 Primary map



X Index: 120



Y Index: 120

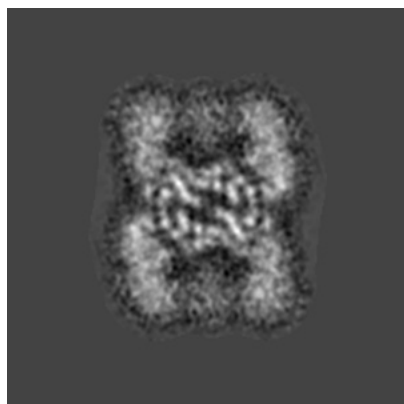


Z Index: 120

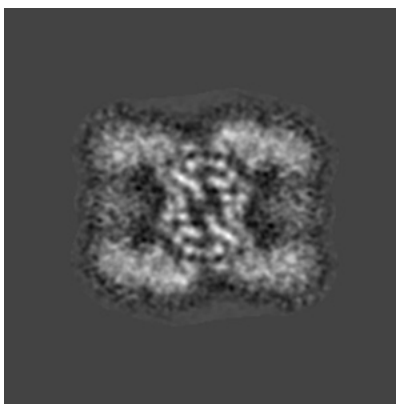
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

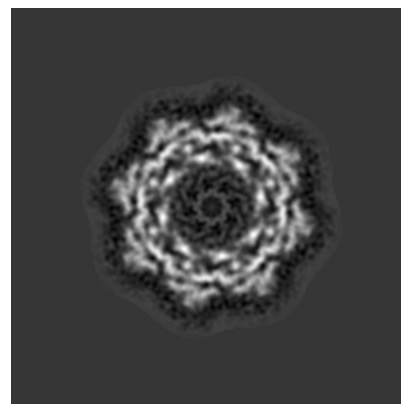
6.3.1 Primary map



X Index: 85



Y Index: 155

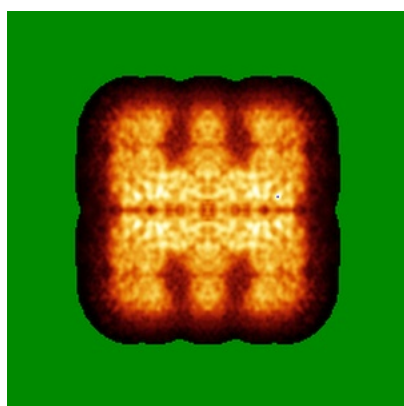


Z Index: 129

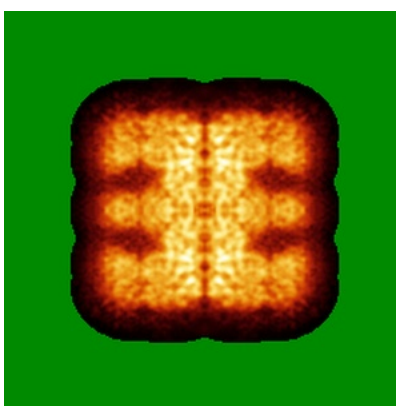
The images above show the largest variance slices of the map in three orthogonal directions.

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

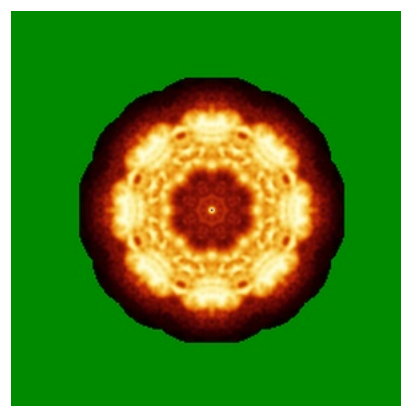
6.4.1 Primary map



X



Y

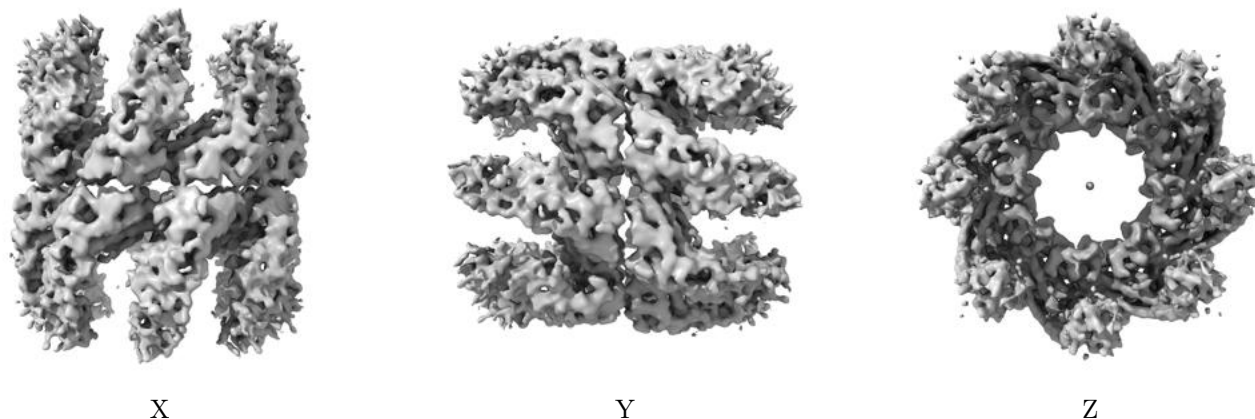


Z

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 0.95. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

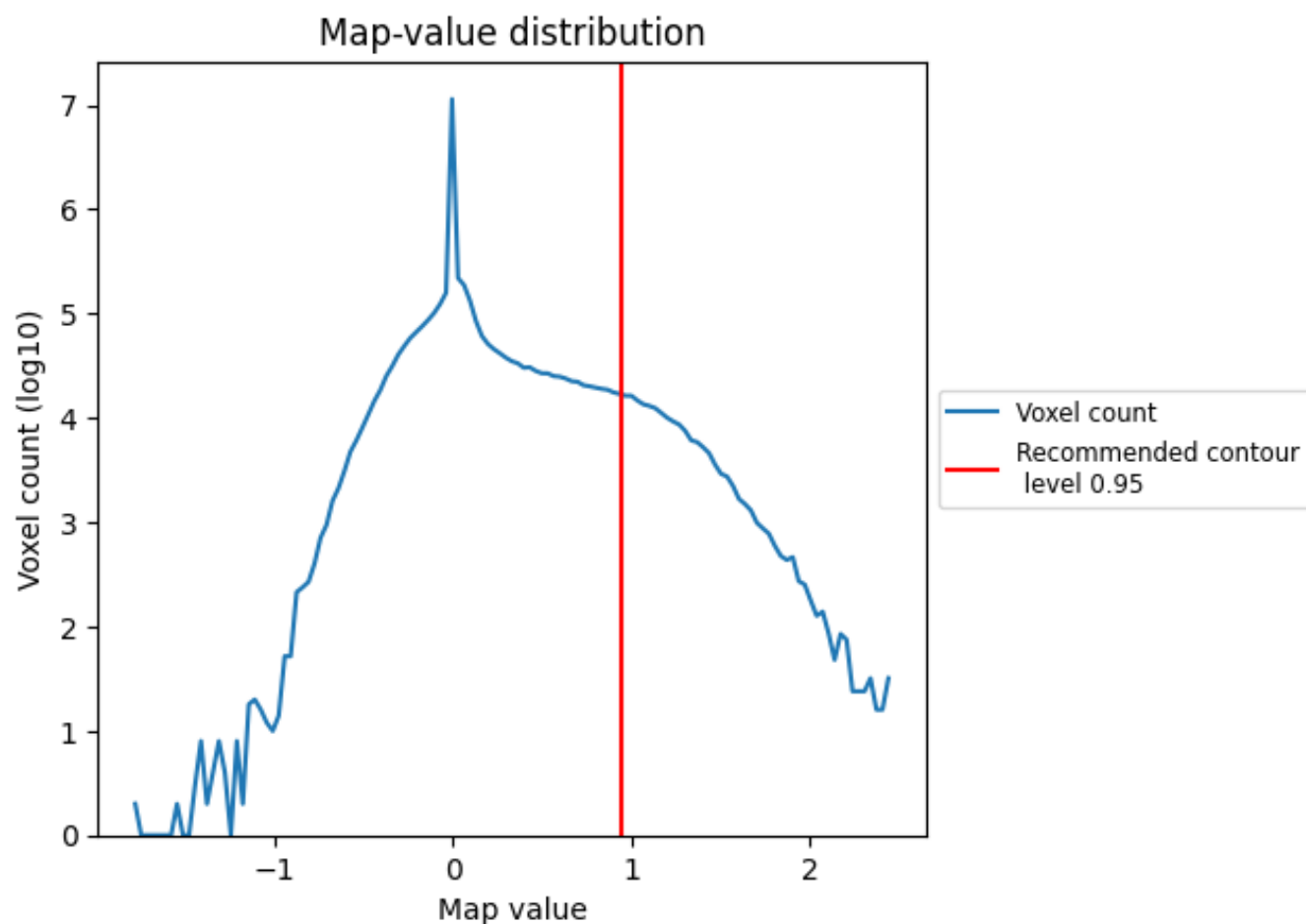
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

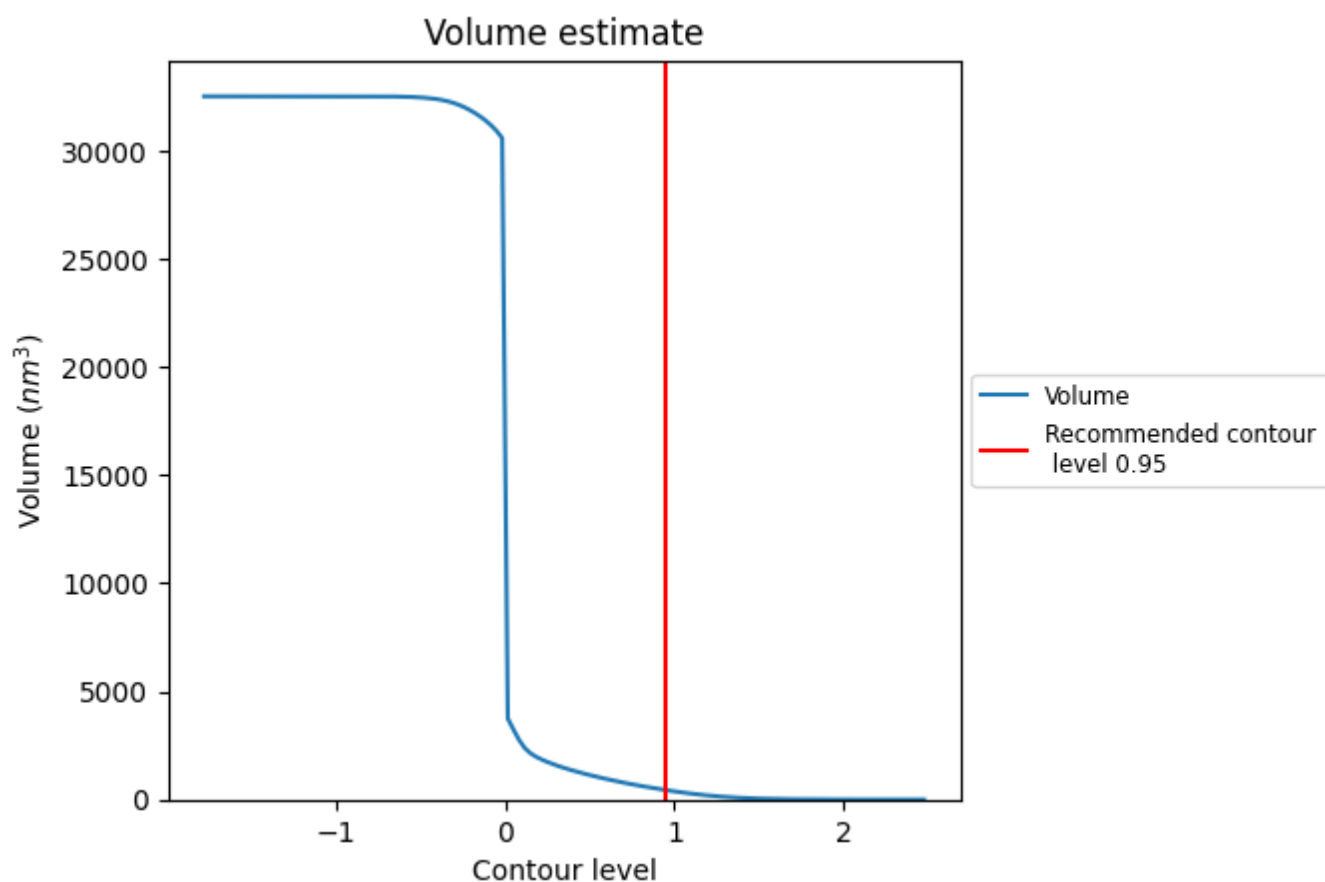
This section contains the results of statistical analysis of the map.

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.

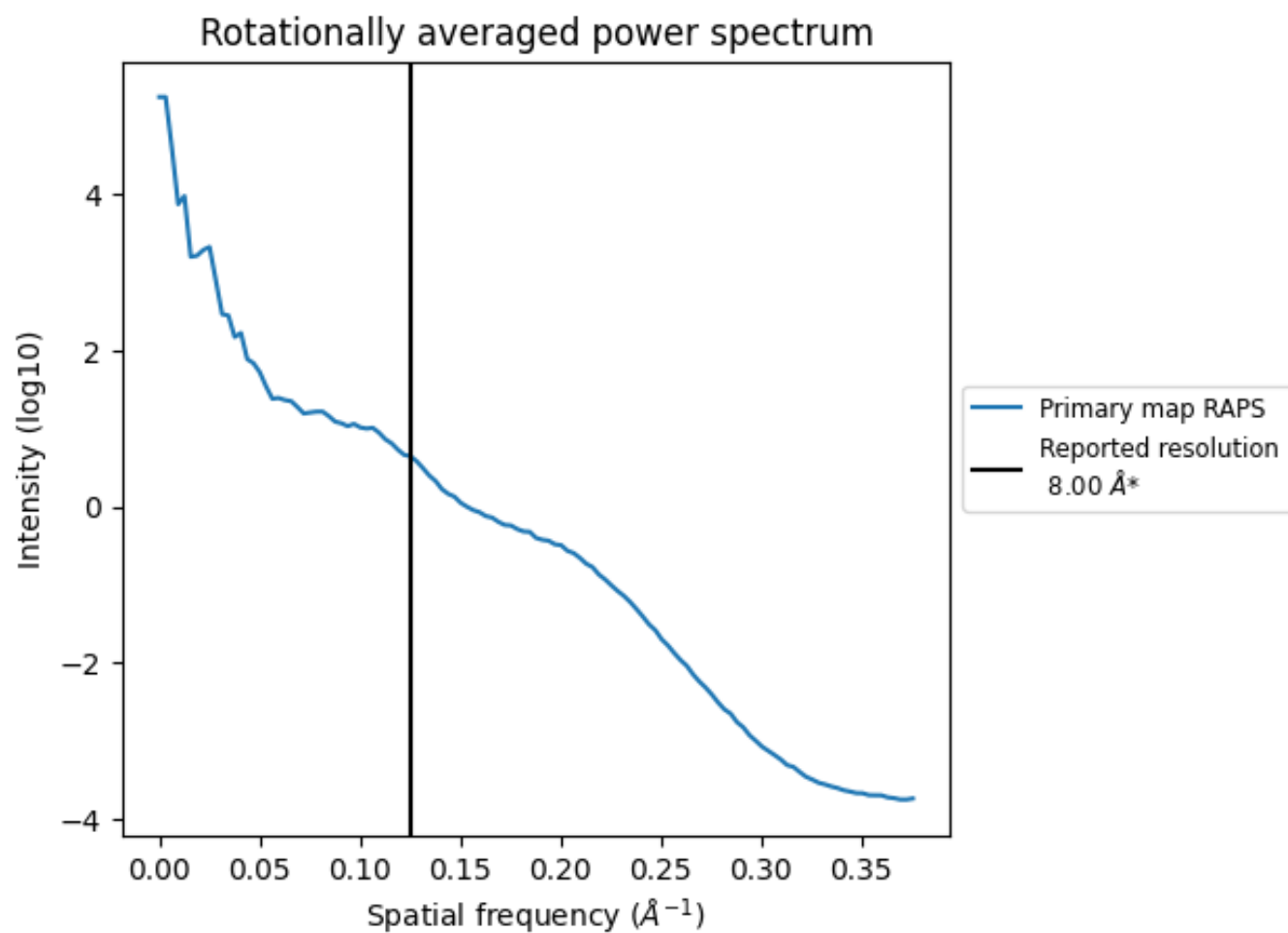
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 437 nm³; this corresponds to an approximate mass of 395 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 0.125 Å⁻¹

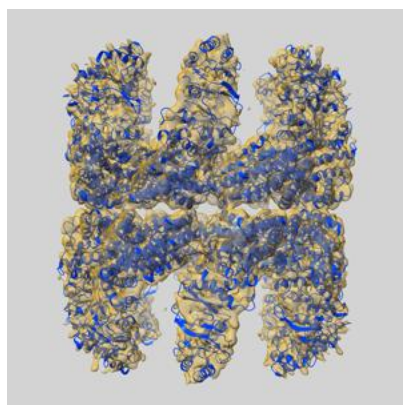
8 Fourier-Shell correlation

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

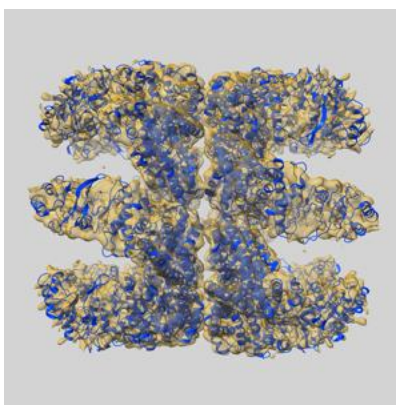
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-5140 and PDB model 3IYF. Per-residue inclusion information can be found in section [3](#) on page [7](#).

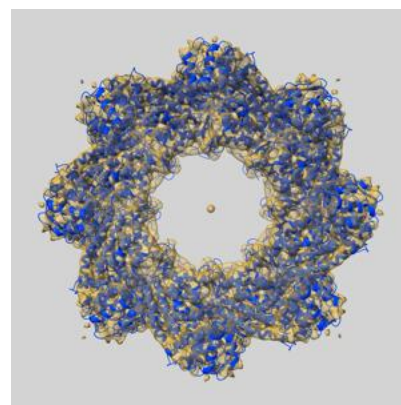
9.1 Map-model overlay [i](#)



X



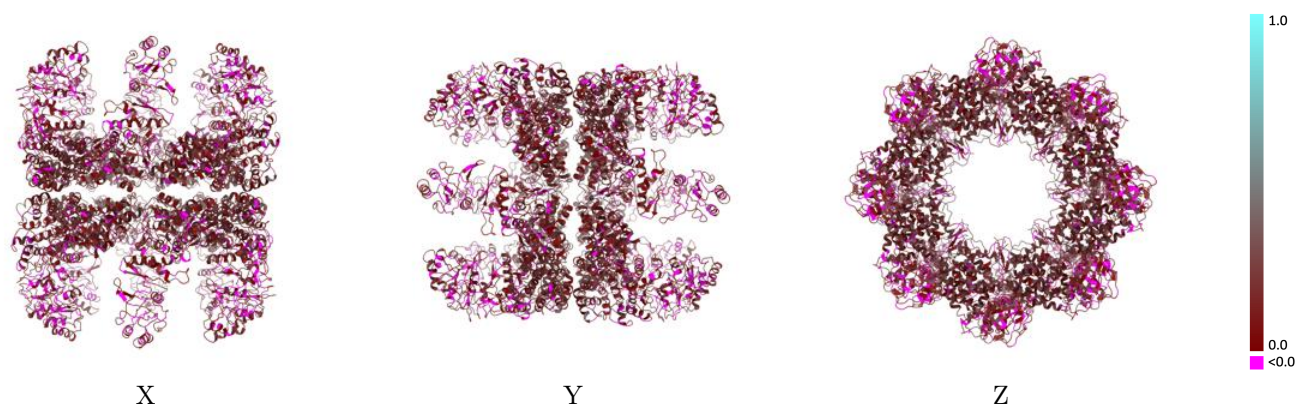
Y



Z

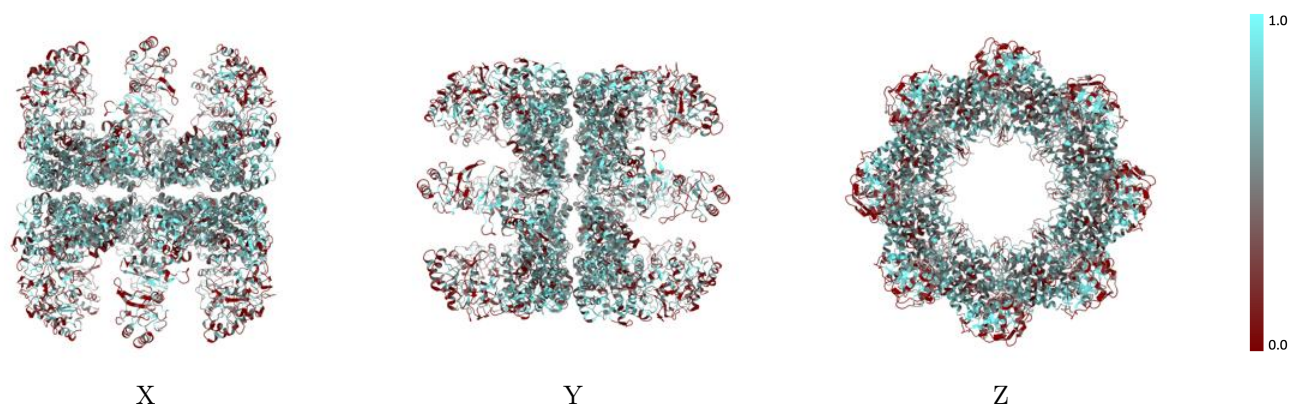
The images above show the 3D surface view of the map at the recommended contour level 0.95 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



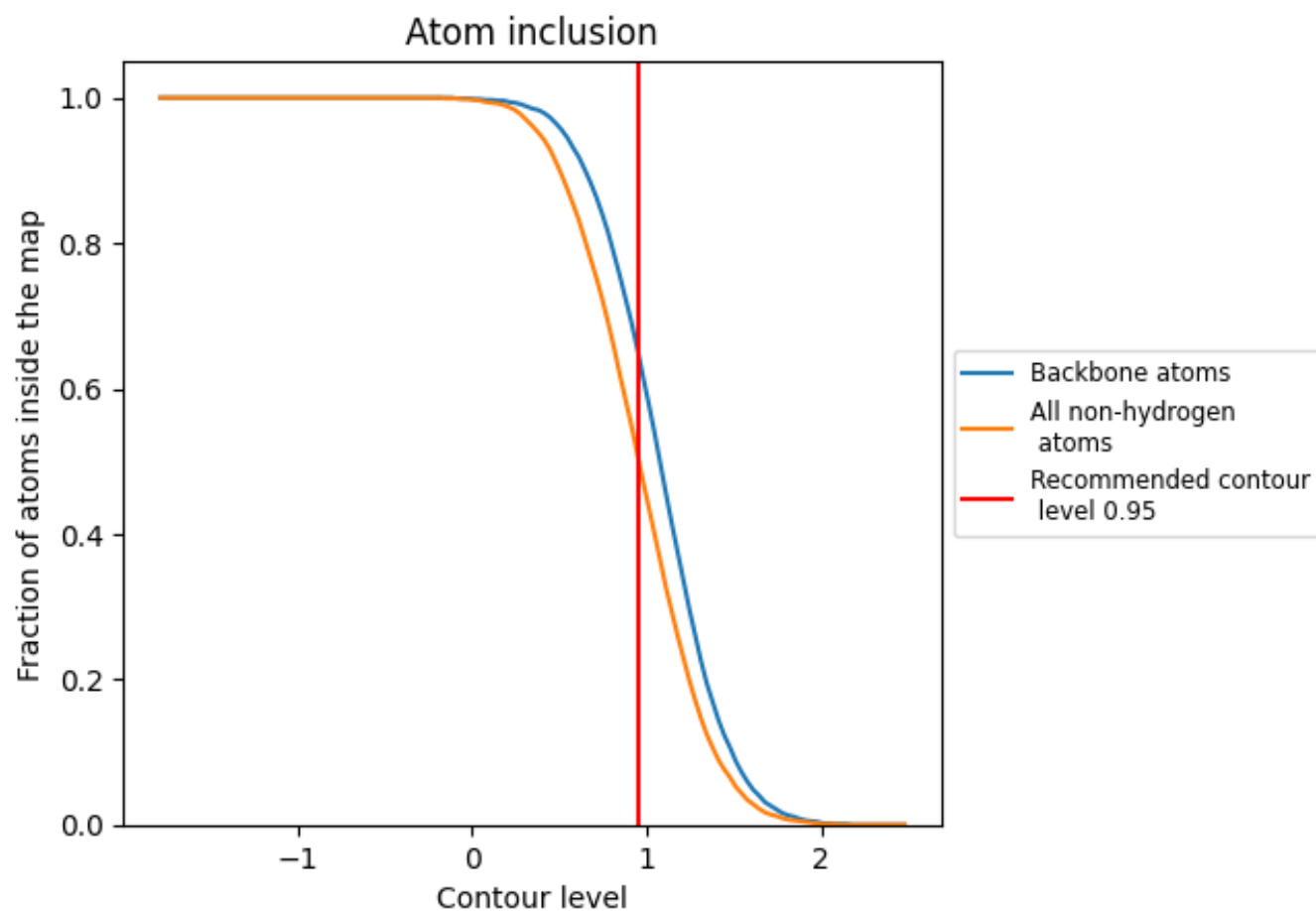
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.95).

9.4 Atom inclusion [i](#)



At the recommended contour level, 65% of all backbone atoms, 51% 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 (0.95) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5070	0.1510
A	0.5090	0.1500
B	0.5100	0.1480
C	0.5120	0.1510
D	0.5080	0.1520
E	0.5070	0.1550
F	0.5030	0.1500
G	0.4980	0.1500
H	0.5090	0.1520
I	0.5030	0.1510
J	0.5070	0.1510
K	0.5060	0.1510
L	0.5090	0.1490
M	0.5100	0.1540
N	0.5040	0.1530
O	0.5080	0.1490
P	0.5080	0.1530

1.0

0.0

<0.0