



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 15, 2026 – 01:51 PM UTC

PDB ID : 2R5H / pdb_00002r5h
Title : Pentamer structure of Major Capsid Protein L1 of Human Papilloma Virus type 16
Authors : Bishop, B.; Dasgupta, J.; Chen, X.S.
Deposited on : 2007-09-03
Resolution : 3.70 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

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:

MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

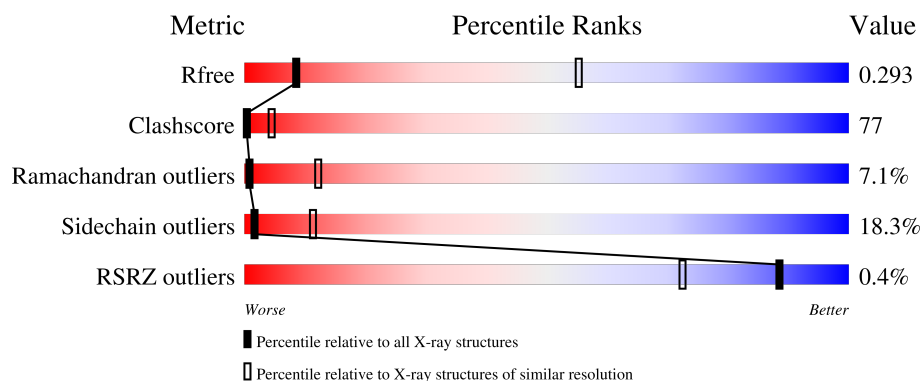
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.70 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1131 (3.80-3.60)
Clashscore	190562	1171 (3.80-3.60)
Ramachandran outliers	187476	1129 (3.80-3.60)
Sidechain outliers	187428	1126 (3.80-3.60)
RSRZ outliers	180081	1130 (3.80-3.60)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	424	
1	B	424	
1	C	424	
1	D	424	
1	E	424	

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Mol	Chain	Length	Quality of chain
1	F	424	
1	G	424	
1	H	424	
1	I	424	
1	J	424	
1	K	424	
1	L	424	
1	M	424	
1	N	424	
1	O	424	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 49650 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Late major capsid protein L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	419	Total	C	N	O	S	0	0	0
			3310	2108	554	628	20			
1	B	419	Total	C	N	O	S	0	0	0
			3310	2108	554	628	20			
1	C	419	Total	C	N	O	S	0	0	0
			3310	2108	554	628	20			
1	D	419	Total	C	N	O	S	0	0	0
			3310	2108	554	628	20			
1	E	419	Total	C	N	O	S	0	0	0
			3310	2108	554	628	20			
1	F	419	Total	C	N	O	S	0	0	0
			3310	2108	554	628	20			
1	G	419	Total	C	N	O	S	0	0	0
			3310	2108	554	628	20			
1	H	419	Total	C	N	O	S	0	0	0
			3310	2108	554	628	20			
1	I	419	Total	C	N	O	S	0	0	0
			3310	2108	554	628	20			
1	J	419	Total	C	N	O	S	0	0	0
			3310	2108	554	628	20			
1	K	419	Total	C	N	O	S	0	0	0
			3310	2108	554	628	20			
1	L	419	Total	C	N	O	S	0	0	0
			3310	2108	554	628	20			
1	M	419	Total	C	N	O	S	0	0	0
			3310	2108	554	628	20			
1	N	419	Total	C	N	O	S	0	0	0
			3310	2108	554	628	20			
1	O	419	Total	C	N	O	S	0	0	0
			3310	2108	554	628	20			

There are 135 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	20	ALA	-	expression tag	UNP Q81007
A	177	GLN	ASN	engineered mutation	UNP Q81007
A	181	GLN	ASN	engineered mutation	UNP Q81007
A	404	GLY	-	linker	UNP Q81007
A	405	GLY	-	linker	UNP Q81007
A	406	SER	-	linker	UNP Q81007
A	407	GLY	-	linker	UNP Q81007
A	408	GLY	-	linker	UNP Q81007
A	472	LEU	-	expression tag	UNP Q81007
B	20	ALA	-	expression tag	UNP Q81007
B	177	GLN	ASN	engineered mutation	UNP Q81007
B	181	GLN	ASN	engineered mutation	UNP Q81007
B	404	GLY	-	linker	UNP Q81007
B	405	GLY	-	linker	UNP Q81007
B	406	SER	-	linker	UNP Q81007
B	407	GLY	-	linker	UNP Q81007
B	408	GLY	-	linker	UNP Q81007
B	472	LEU	-	expression tag	UNP Q81007
C	20	ALA	-	expression tag	UNP Q81007
C	177	GLN	ASN	engineered mutation	UNP Q81007
C	181	GLN	ASN	engineered mutation	UNP Q81007
C	404	GLY	-	linker	UNP Q81007
C	405	GLY	-	linker	UNP Q81007
C	406	SER	-	linker	UNP Q81007
C	407	GLY	-	linker	UNP Q81007
C	408	GLY	-	linker	UNP Q81007
C	472	LEU	-	expression tag	UNP Q81007
D	20	ALA	-	expression tag	UNP Q81007
D	177	GLN	ASN	engineered mutation	UNP Q81007
D	181	GLN	ASN	engineered mutation	UNP Q81007
D	404	GLY	-	linker	UNP Q81007
D	405	GLY	-	linker	UNP Q81007
D	406	SER	-	linker	UNP Q81007
D	407	GLY	-	linker	UNP Q81007
D	408	GLY	-	linker	UNP Q81007
D	472	LEU	-	expression tag	UNP Q81007
E	20	ALA	-	expression tag	UNP Q81007
E	177	GLN	ASN	engineered mutation	UNP Q81007
E	181	GLN	ASN	engineered mutation	UNP Q81007
E	404	GLY	-	linker	UNP Q81007
E	405	GLY	-	linker	UNP Q81007
E	406	SER	-	linker	UNP Q81007
E	407	GLY	-	linker	UNP Q81007

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Chain	Residue	Modelled	Actual	Comment	Reference
E	408	GLY	-	linker	UNP Q81007
E	472	LEU	-	expression tag	UNP Q81007
F	20	ALA	-	expression tag	UNP Q81007
F	177	GLN	ASN	engineered mutation	UNP Q81007
F	181	GLN	ASN	engineered mutation	UNP Q81007
F	404	GLY	-	linker	UNP Q81007
F	405	GLY	-	linker	UNP Q81007
F	406	SER	-	linker	UNP Q81007
F	407	GLY	-	linker	UNP Q81007
F	408	GLY	-	linker	UNP Q81007
F	472	LEU	-	expression tag	UNP Q81007
G	20	ALA	-	expression tag	UNP Q81007
G	177	GLN	ASN	engineered mutation	UNP Q81007
G	181	GLN	ASN	engineered mutation	UNP Q81007
G	404	GLY	-	linker	UNP Q81007
G	405	GLY	-	linker	UNP Q81007
G	406	SER	-	linker	UNP Q81007
G	407	GLY	-	linker	UNP Q81007
G	408	GLY	-	linker	UNP Q81007
G	472	LEU	-	expression tag	UNP Q81007
H	20	ALA	-	expression tag	UNP Q81007
H	177	GLN	ASN	engineered mutation	UNP Q81007
H	181	GLN	ASN	engineered mutation	UNP Q81007
H	404	GLY	-	linker	UNP Q81007
H	405	GLY	-	linker	UNP Q81007
H	406	SER	-	linker	UNP Q81007
H	407	GLY	-	linker	UNP Q81007
H	408	GLY	-	linker	UNP Q81007
H	472	LEU	-	expression tag	UNP Q81007
I	20	ALA	-	expression tag	UNP Q81007
I	177	GLN	ASN	engineered mutation	UNP Q81007
I	181	GLN	ASN	engineered mutation	UNP Q81007
I	404	GLY	-	linker	UNP Q81007
I	405	GLY	-	linker	UNP Q81007
I	406	SER	-	linker	UNP Q81007
I	407	GLY	-	linker	UNP Q81007
I	408	GLY	-	linker	UNP Q81007
I	472	LEU	-	expression tag	UNP Q81007
J	20	ALA	-	expression tag	UNP Q81007
J	177	GLN	ASN	engineered mutation	UNP Q81007
J	181	GLN	ASN	engineered mutation	UNP Q81007
J	404	GLY	-	linker	UNP Q81007

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Chain	Residue	Modelled	Actual	Comment	Reference
J	405	GLY	-	linker	UNP Q81007
J	406	SER	-	linker	UNP Q81007
J	407	GLY	-	linker	UNP Q81007
J	408	GLY	-	linker	UNP Q81007
J	472	LEU	-	expression tag	UNP Q81007
K	20	ALA	-	expression tag	UNP Q81007
K	177	GLN	ASN	engineered mutation	UNP Q81007
K	181	GLN	ASN	engineered mutation	UNP Q81007
K	404	GLY	-	linker	UNP Q81007
K	405	GLY	-	linker	UNP Q81007
K	406	SER	-	linker	UNP Q81007
K	407	GLY	-	linker	UNP Q81007
K	408	GLY	-	linker	UNP Q81007
K	472	LEU	-	expression tag	UNP Q81007
L	20	ALA	-	expression tag	UNP Q81007
L	177	GLN	ASN	engineered mutation	UNP Q81007
L	181	GLN	ASN	engineered mutation	UNP Q81007
L	404	GLY	-	linker	UNP Q81007
L	405	GLY	-	linker	UNP Q81007
L	406	SER	-	linker	UNP Q81007
L	407	GLY	-	linker	UNP Q81007
L	408	GLY	-	linker	UNP Q81007
L	472	LEU	-	expression tag	UNP Q81007
M	20	ALA	-	expression tag	UNP Q81007
M	177	GLN	ASN	engineered mutation	UNP Q81007
M	181	GLN	ASN	engineered mutation	UNP Q81007
M	404	GLY	-	linker	UNP Q81007
M	405	GLY	-	linker	UNP Q81007
M	406	SER	-	linker	UNP Q81007
M	407	GLY	-	linker	UNP Q81007
M	408	GLY	-	linker	UNP Q81007
M	472	LEU	-	expression tag	UNP Q81007
N	20	ALA	-	expression tag	UNP Q81007
N	177	GLN	ASN	engineered mutation	UNP Q81007
N	181	GLN	ASN	engineered mutation	UNP Q81007
N	404	GLY	-	linker	UNP Q81007
N	405	GLY	-	linker	UNP Q81007
N	406	SER	-	linker	UNP Q81007
N	407	GLY	-	linker	UNP Q81007
N	408	GLY	-	linker	UNP Q81007
N	472	LEU	-	expression tag	UNP Q81007
O	20	ALA	-	expression tag	UNP Q81007

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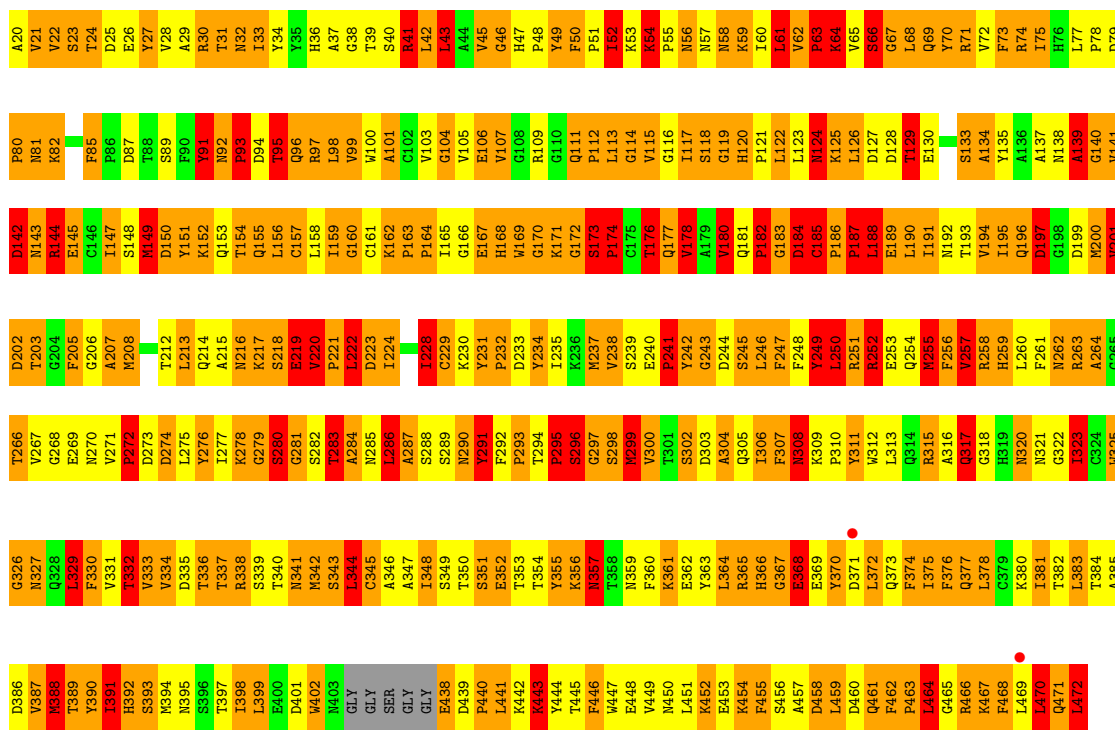
Chain	Residue	Modelled	Actual	Comment	Reference
O	177	GLN	ASN	engineered mutation	UNP Q81007
O	181	GLN	ASN	engineered mutation	UNP Q81007
O	404	GLY	-	linker	UNP Q81007
O	405	GLY	-	linker	UNP Q81007
O	406	SER	-	linker	UNP Q81007
O	407	GLY	-	linker	UNP Q81007
O	408	GLY	-	linker	UNP Q81007
O	472	LEU	-	expression tag	UNP Q81007

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 electron 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 dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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.

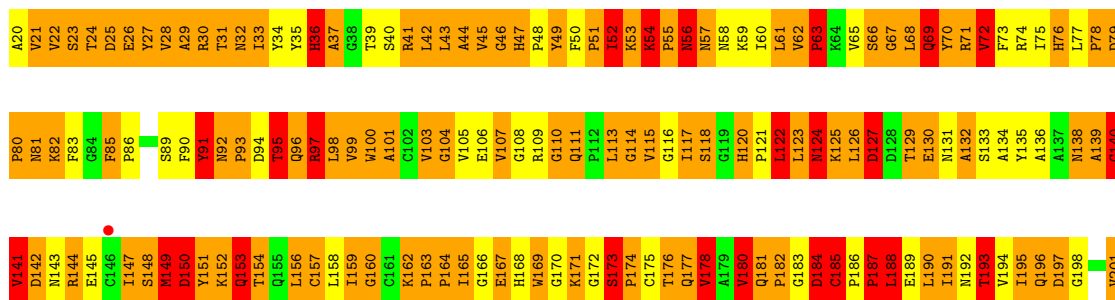
• Molecule 1: Late major capsid protein L1

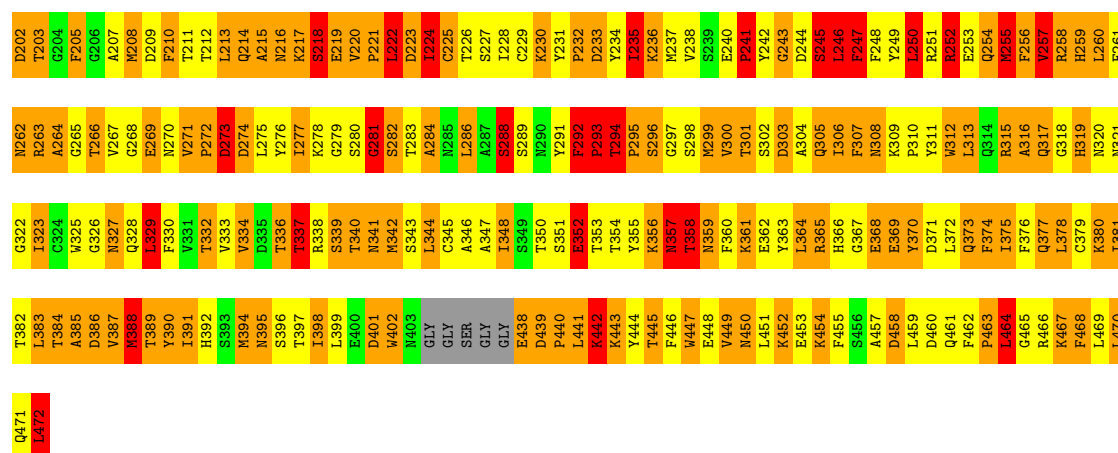
Chain A: 



• Molecule 1: Late major capsid protein L1

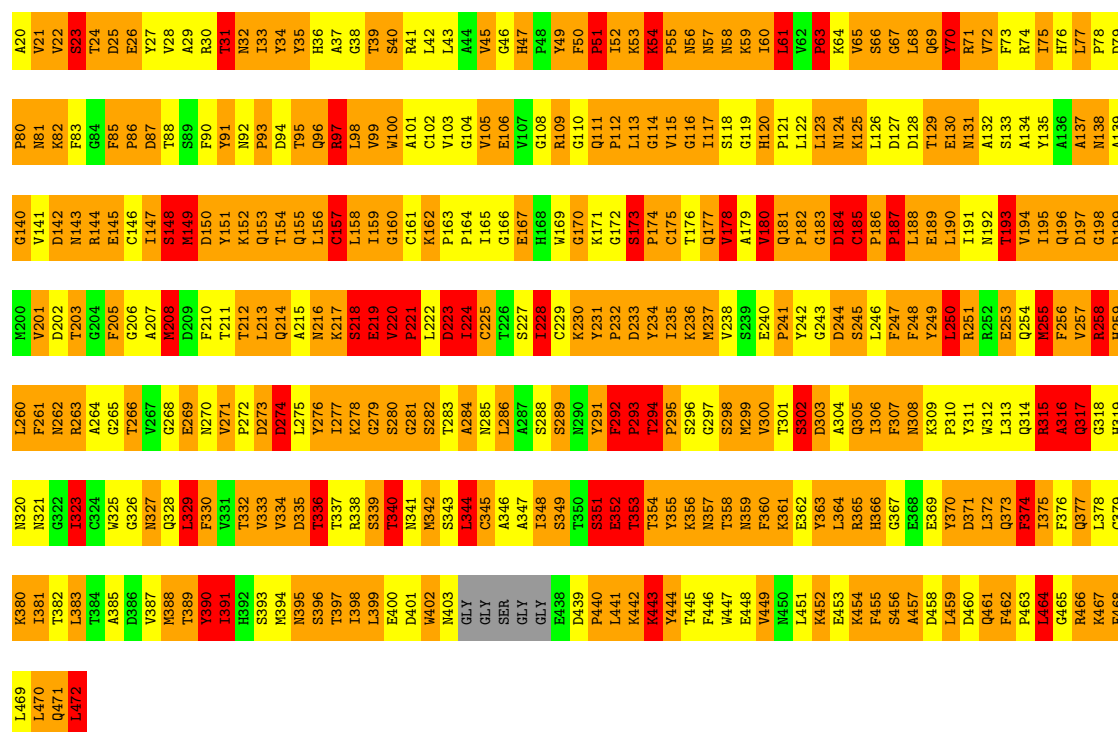
Chain B: 





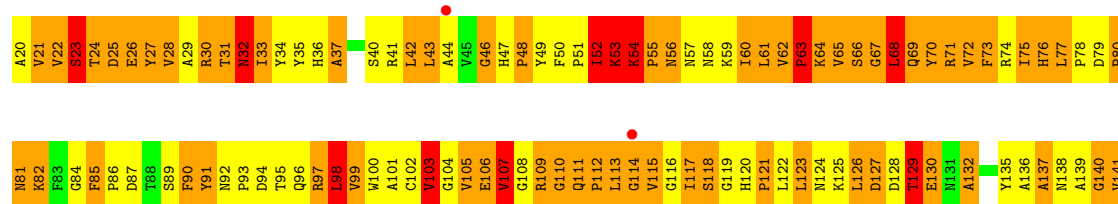
• Molecule 1: Late major capsid protein L1

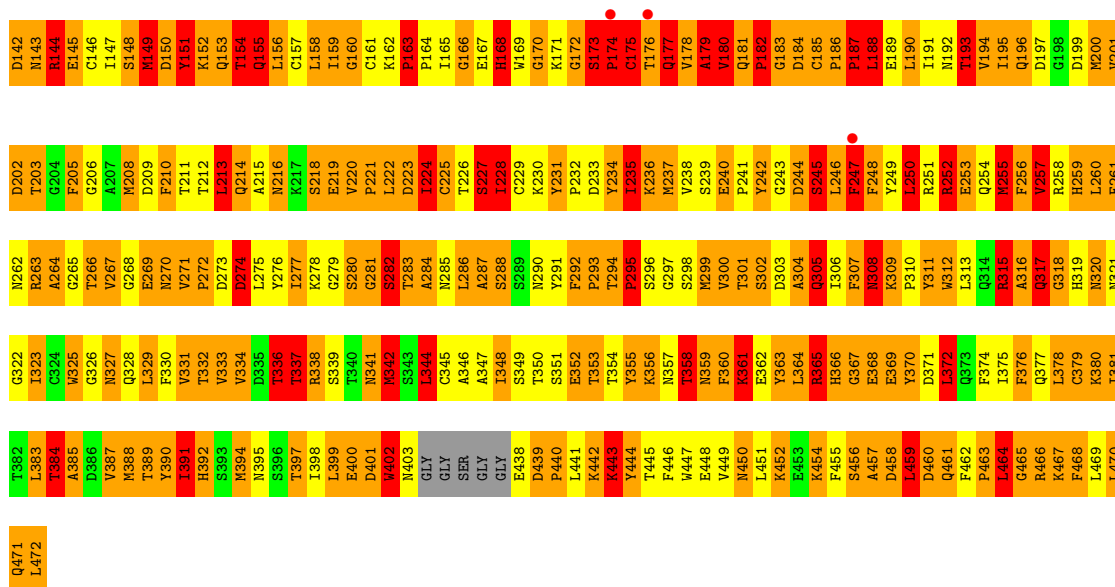
Chain C: 6% 30% 50% 12% .



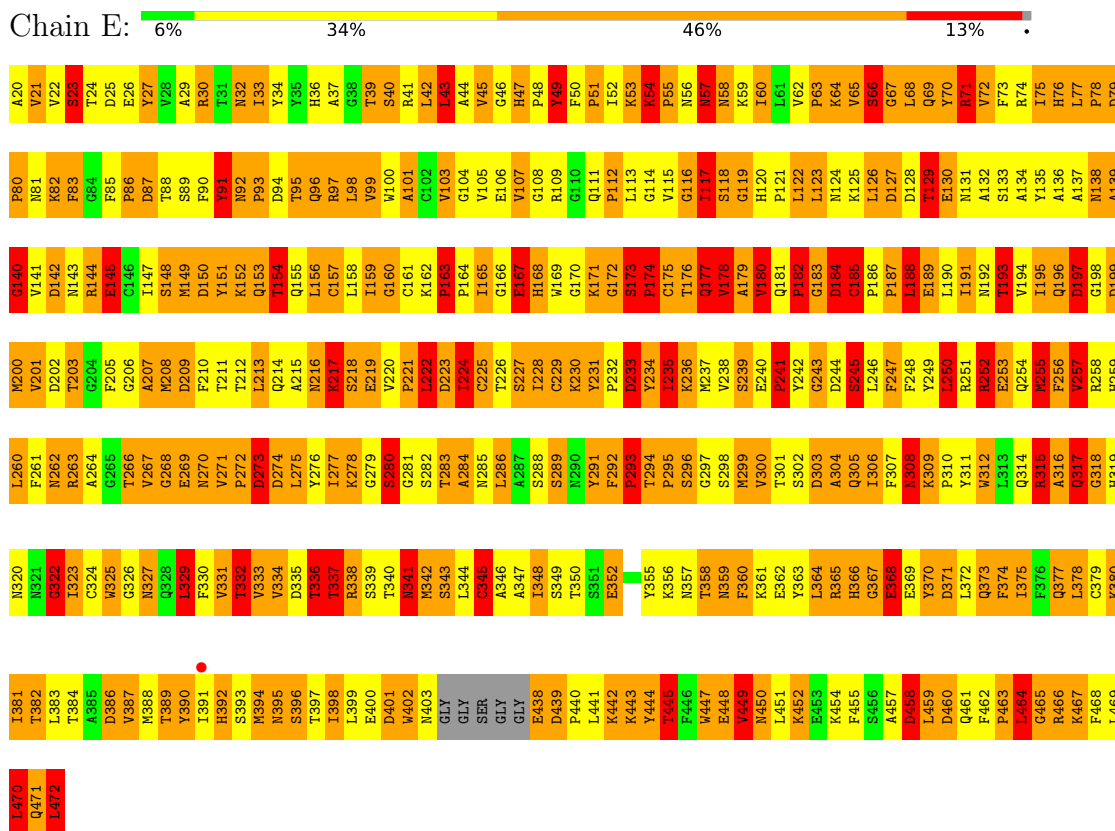
• Molecule 1: Late major capsid protein L1

Chain D: 6% 30% 49% 14% .



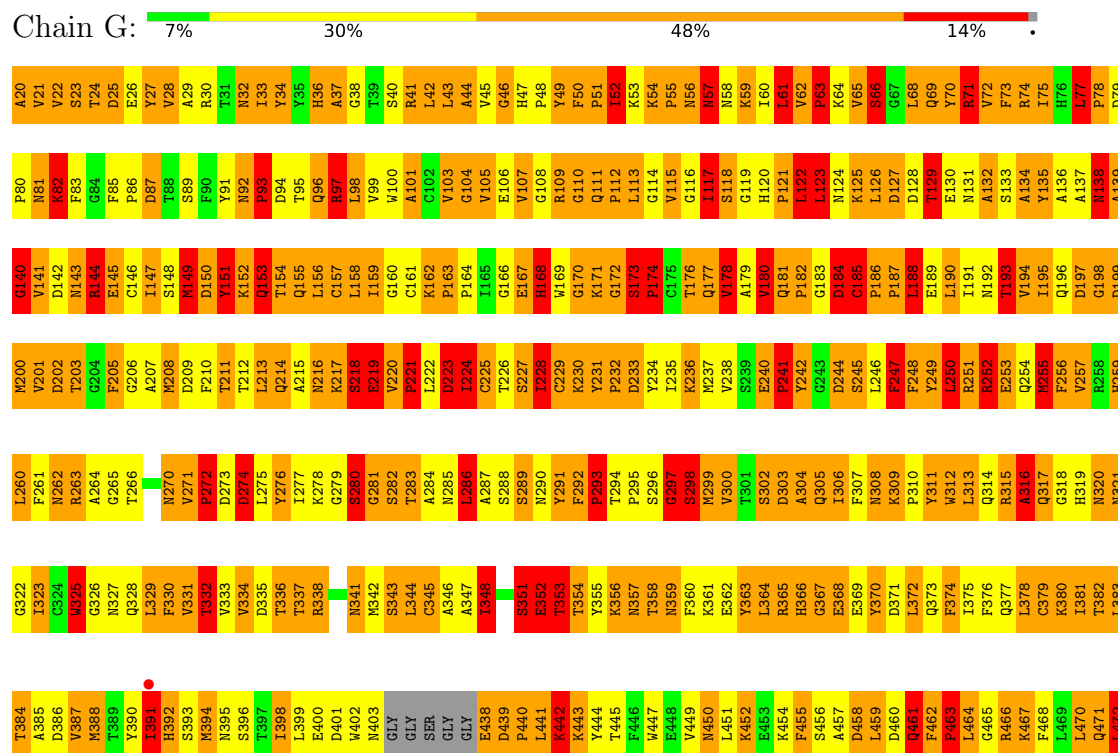
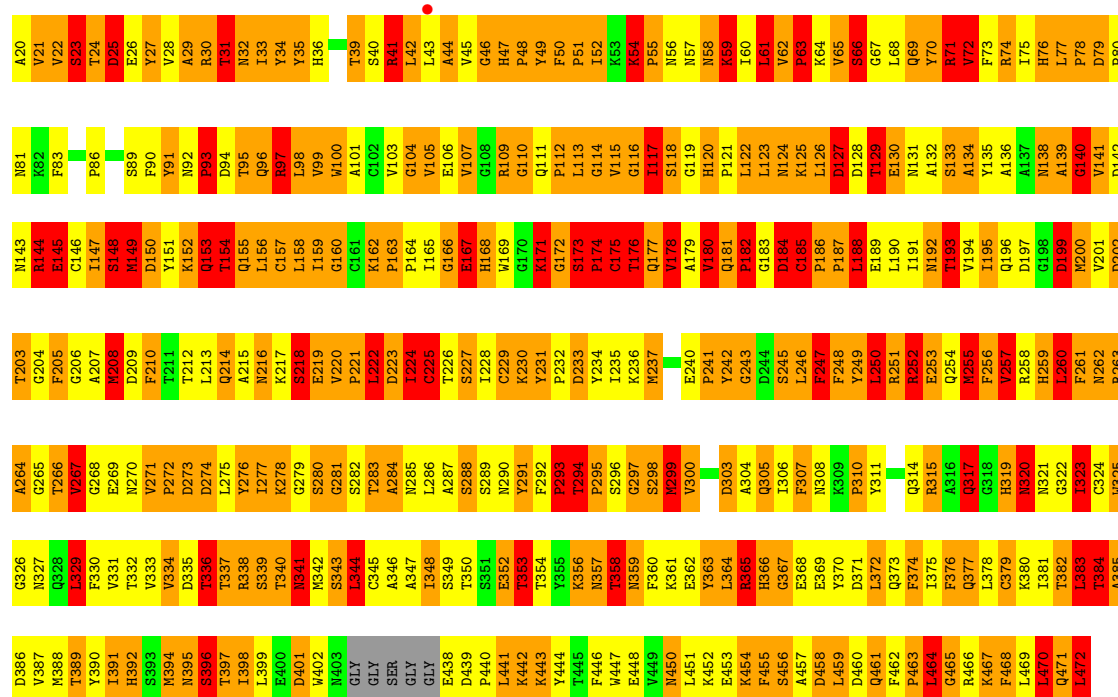


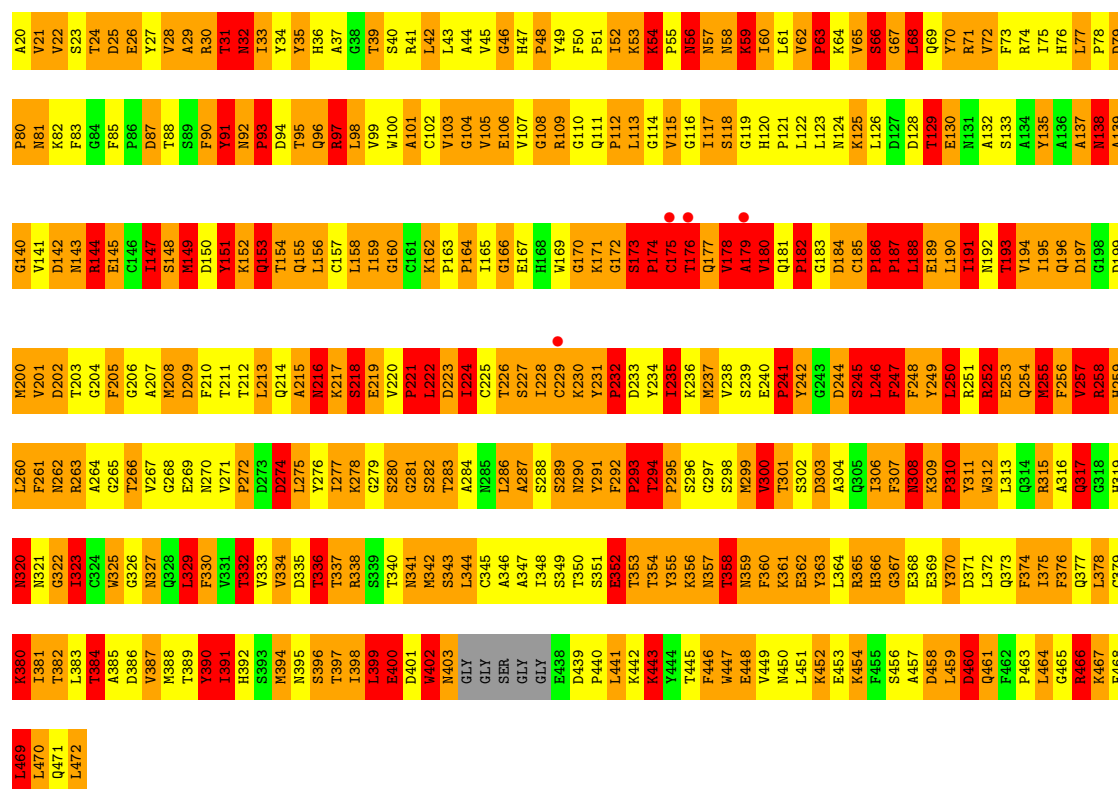
- Molecule 1: Late major capsid protein L1



- Molecule 1: Late major capsid protein L1

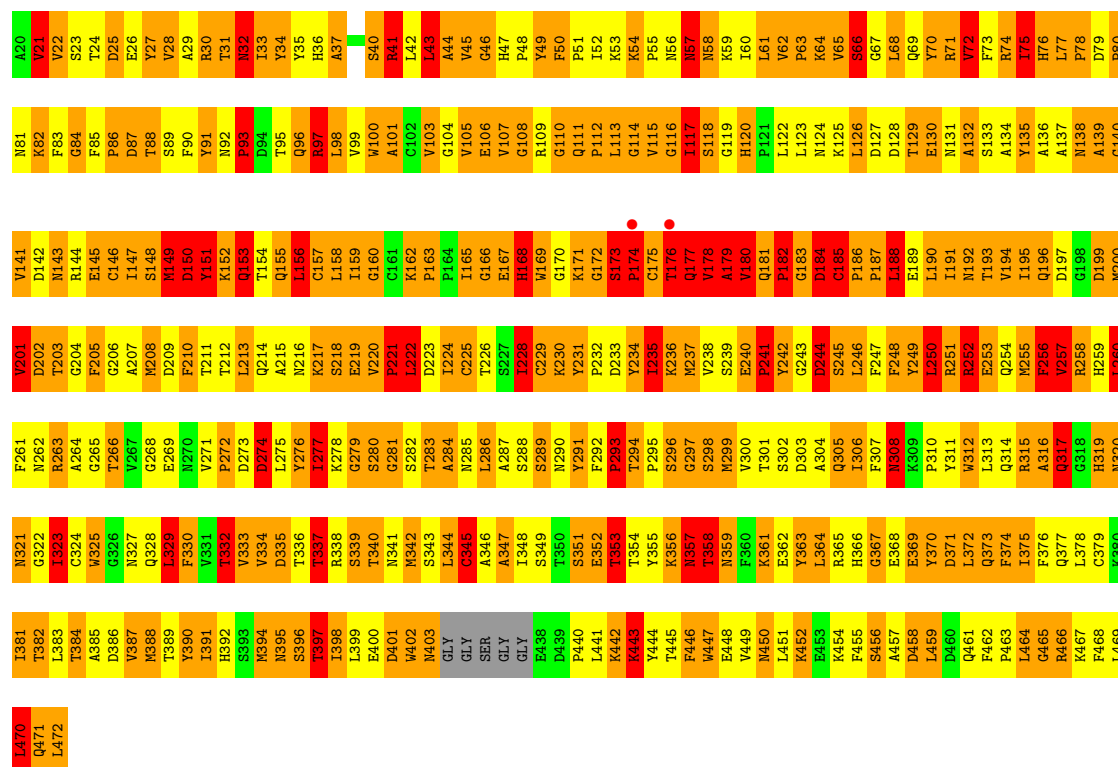






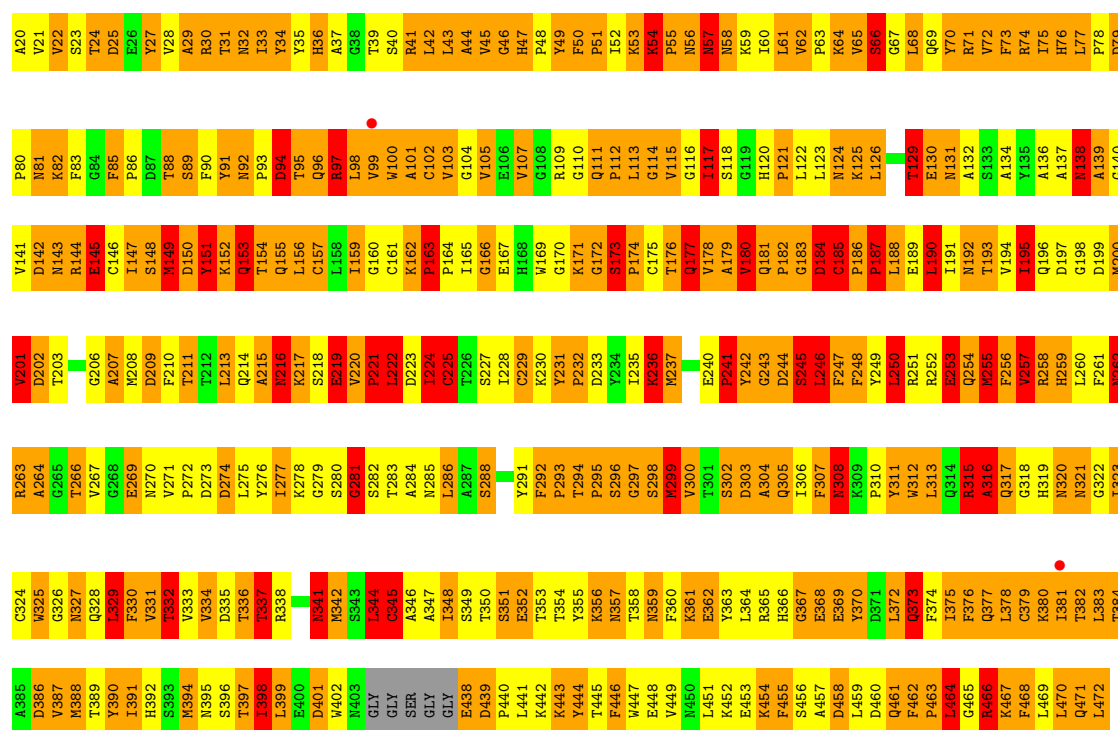
• Molecule 1: Late major capsid protein L1

Chain I: 6% 33% 47% 13%

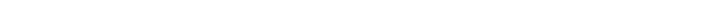


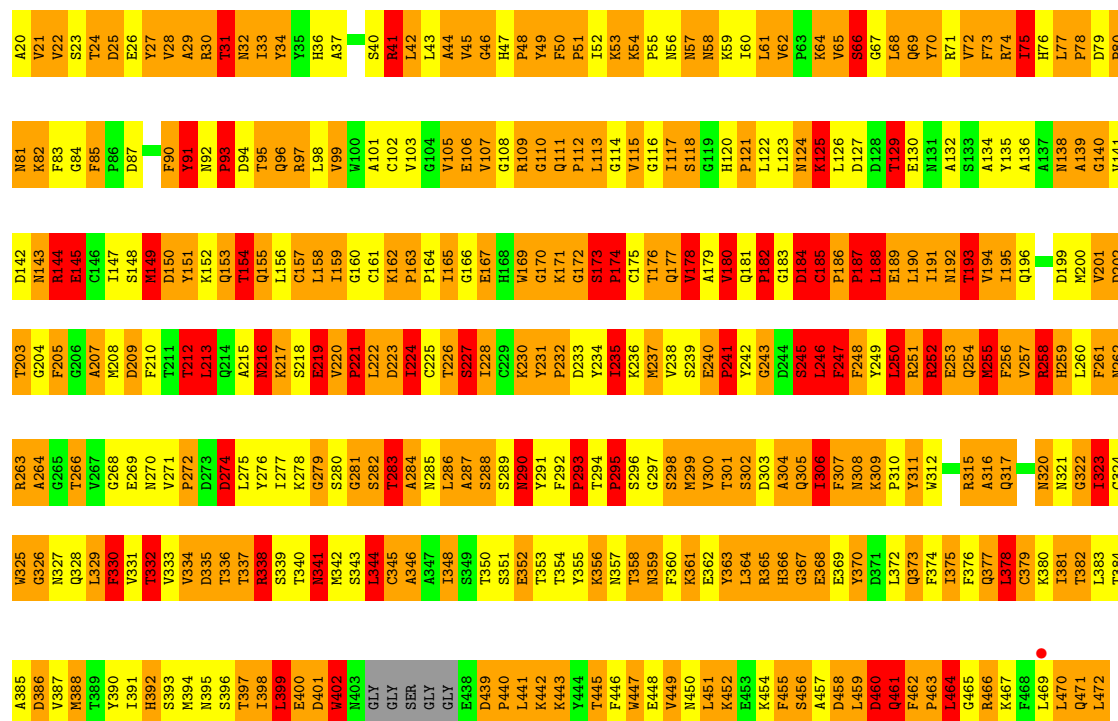
• Molecule 1: Late major capsid protein L1

Chain J:  9% 31% 47% 12%

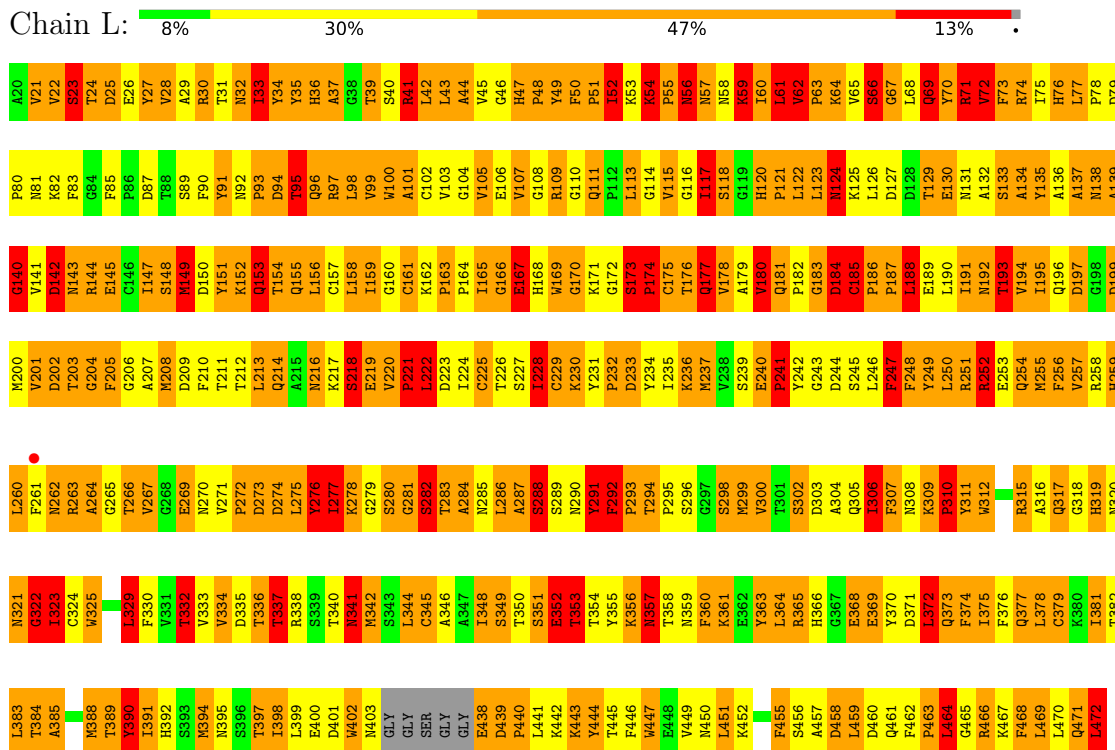


- Molecule 1: Late major capsid protein L1

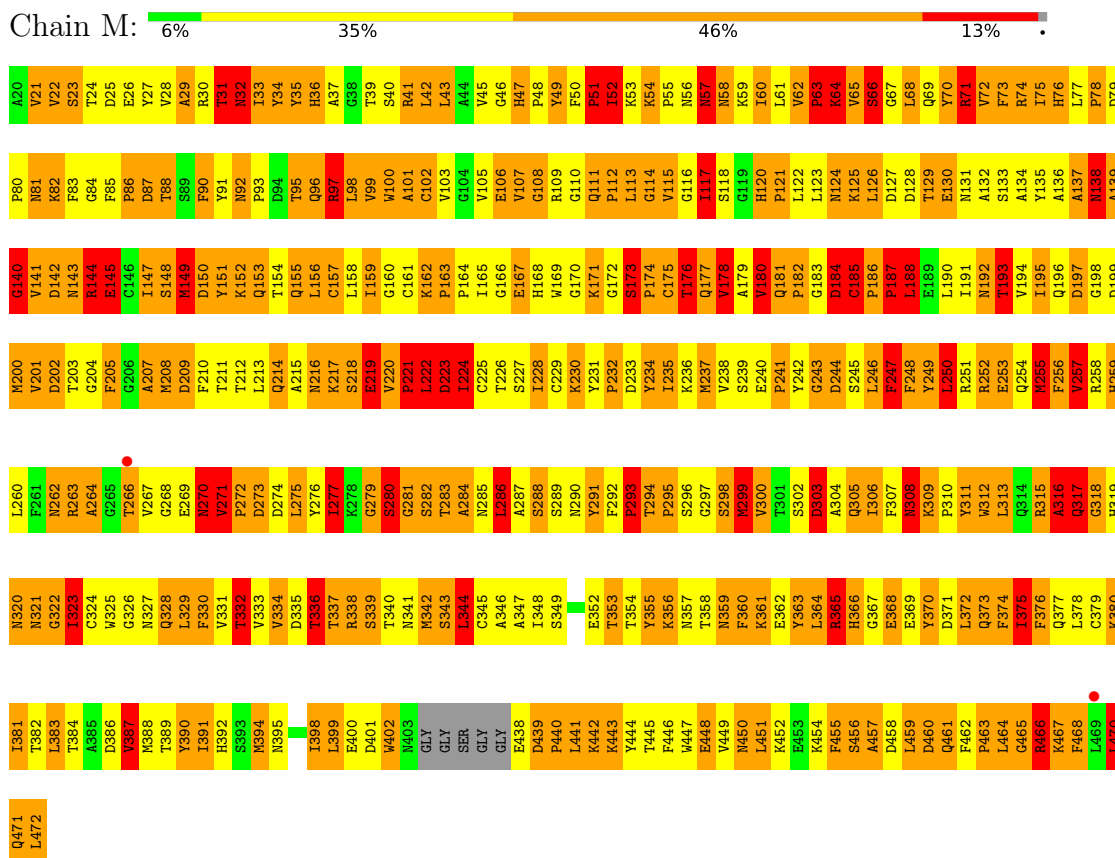
Chain K: 



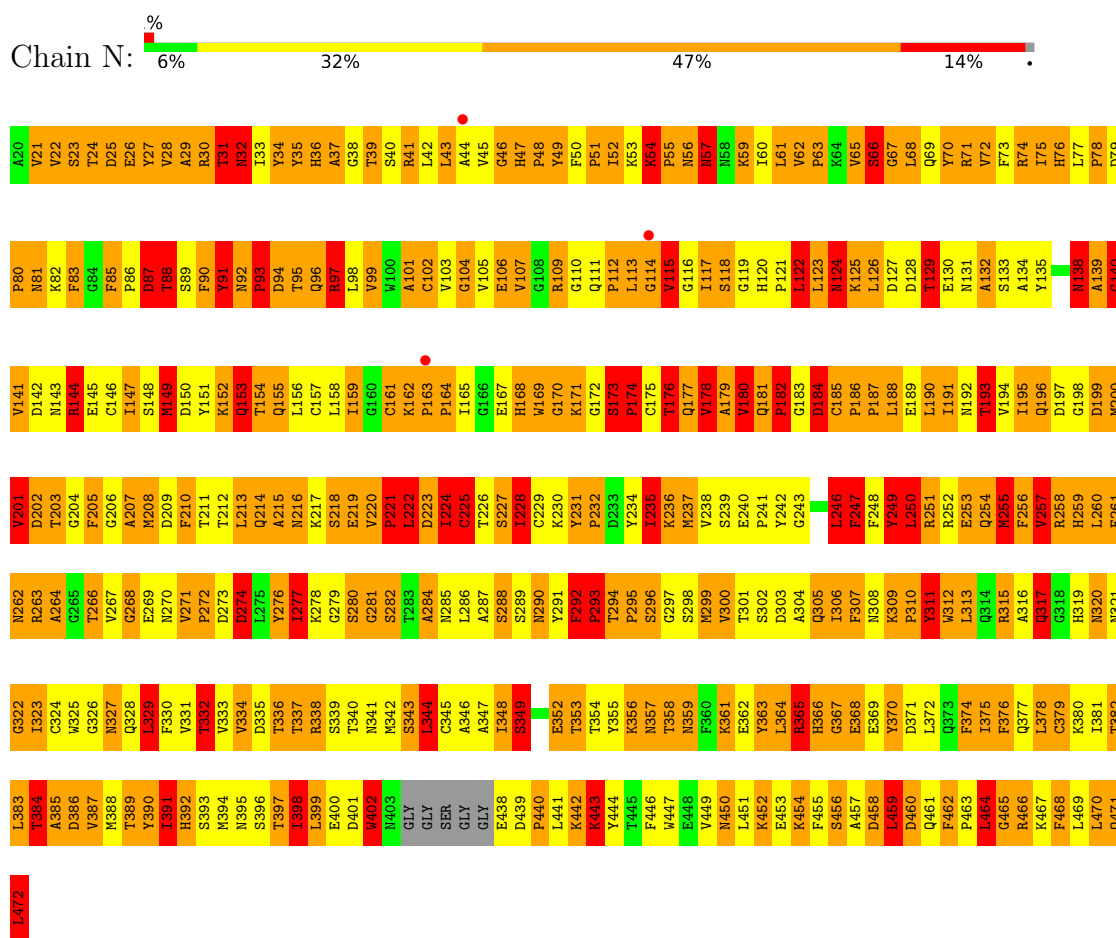
- Molecule 1: Late major capsid protein L1



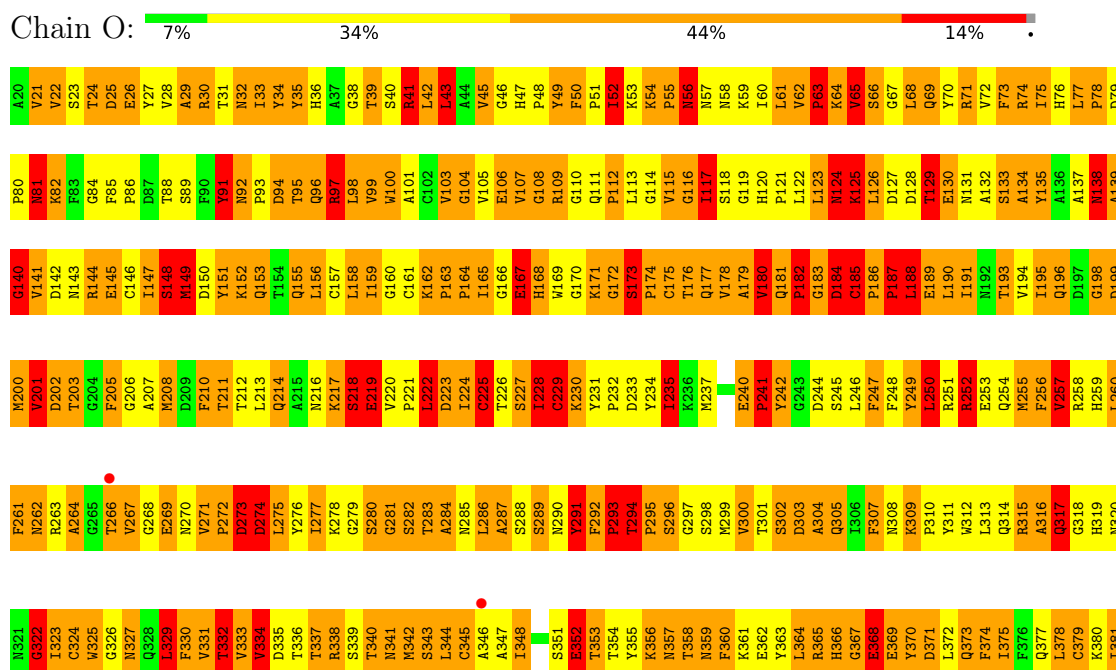
- Molecule 1: Late major capsid protein L1



- Molecule 1: Late major capsid protein L1



• Molecule 1: Late major capsid protein L1



[illegible]

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	105.00Å 159.05Å 413.74Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	15.00 – 3.70 15.00 – 3.70	Depositor EDS
% Data completeness (in resolution range)	80.5 (15.00-3.70) 79.1 (15.00-3.70)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.70 (at 3.66Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.247 , 0.305 0.241 , 0.293	Depositor DCC
R_{free} test set	2971 reflections (4.03%)	wwPDB-VP
Wilson B-factor (Å ²)	92.7	Xtriage
Anisotropy	0.063	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.22 , 56.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	49650	wwPDB-VP
Average B, all atoms (Å ²)	80.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.88% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

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	3.31	410/3395 (12.1%)	2.47	231/4616 (5.0%)
1	B	3.25	384/3395 (11.3%)	2.44	213/4616 (4.6%)
1	C	3.23	401/3395 (11.8%)	2.43	229/4616 (5.0%)
1	D	3.49	459/3395 (13.5%)	2.45	239/4616 (5.2%)
1	E	3.26	400/3395 (11.8%)	2.38	205/4616 (4.4%)
1	F	3.37	419/3395 (12.3%)	2.38	207/4616 (4.5%)
1	G	3.28	410/3395 (12.1%)	2.37	203/4616 (4.4%)
1	H	3.35	416/3395 (12.3%)	2.43	210/4616 (4.5%)
1	I	3.27	392/3395 (11.5%)	2.42	216/4616 (4.7%)
1	J	3.29	402/3395 (11.8%)	2.47	209/4616 (4.5%)
1	K	3.27	407/3395 (12.0%)	2.41	232/4616 (5.0%)
1	L	3.26	401/3395 (11.8%)	2.50	235/4616 (5.1%)
1	M	3.22	375/3395 (11.0%)	2.52	237/4616 (5.1%)
1	N	3.28	393/3395 (11.6%)	2.48	243/4616 (5.3%)
1	O	3.18	368/3395 (10.8%)	2.25	171/4616 (3.7%)
All	All	3.29	6037/50925 (11.9%)	2.43	3280/69240 (4.7%)

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	C	0	3
1	D	0	1
1	E	0	1
1	F	0	1
1	G	0	1
1	L	0	3
1	M	0	1
1	N	0	1
1	O	0	1
All	All	0	13

All (6037) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	471	GLN	CA-C	20.37	1.65	1.52
1	H	139	ALA	CA-CB	19.73	1.78	1.53
1	H	178	VAL	C-O	19.33	1.47	1.24
1	K	245	SER	CB-OG	19.26	1.80	1.42
1	F	139	ALA	CA-CB	19.14	1.79	1.52
1	M	117	ILE	CA-CB	-18.34	1.31	1.54
1	F	125	LYS	C-O	17.81	1.44	1.24
1	M	457	ALA	CA-CB	-17.61	1.25	1.53
1	M	86	PRO	CA-C	17.54	1.77	1.52
1	J	206	GLY	C-O	17.48	1.40	1.23
1	L	402	TRP	C-O	17.46	1.45	1.23
1	J	457	ALA	CA-CB	-17.30	1.26	1.53
1	J	96	GLN	CA-C	17.02	1.76	1.53
1	K	163	PRO	CA-CB	-16.49	1.39	1.54
1	A	320	ASN	C-O	-16.46	1.03	1.23
1	I	179	ALA	CA-CB	16.45	1.81	1.53
1	F	163	PRO	C-O	16.11	1.42	1.24
1	N	186	PRO	C-O	-16.10	1.06	1.24
1	D	176	THR	C-O	15.93	1.44	1.24
1	J	356	LYS	C-O	-15.88	1.06	1.24
1	M	137	ALA	CA-CB	15.54	1.77	1.53
1	J	163	PRO	CA-C	15.44	1.62	1.52
1	F	207	ALA	CA-CB	-15.36	1.25	1.53
1	O	333	VAL	C-O	15.26	1.39	1.24
1	K	107	VAL	C-O	-15.25	1.05	1.24
1	F	139	ALA	CA-C	15.24	1.73	1.52
1	J	117	ILE	CA-CB	-15.18	1.36	1.54
1	D	159	ILE	CA-CB	-15.13	1.35	1.54
1	N	354	THR	C-O	15.10	1.42	1.23
1	D	402	TRP	C-O	14.98	1.41	1.24
1	N	207	ALA	CA-CB	-14.97	1.26	1.53
1	K	47	HIS	C-O	-14.92	1.07	1.24
1	C	207	ALA	CA-CB	-14.91	1.30	1.53
1	D	68	LEU	CA-C	-14.90	1.35	1.53
1	D	176	THR	CA-CB	14.79	1.78	1.53
1	H	320	ASN	C-O	-14.79	1.04	1.23
1	D	257	VAL	CA-CB	14.70	1.70	1.53
1	G	176	THR	CA-CB	14.62	1.72	1.52
1	F	138	ASN	C-O	14.59	1.41	1.23
1	H	216	ASN	C-O	14.44	1.42	1.24
1	D	137	ALA	CA-CB	14.40	1.77	1.53
1	I	63	PRO	C-O	14.36	1.42	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	346	ALA	CA-CB	14.34	1.75	1.53
1	G	333	VAL	C-O	14.24	1.39	1.24
1	G	62	VAL	C-O	14.15	1.34	1.24
1	A	43	LEU	C-O	-14.14	1.07	1.23
1	I	356	LYS	CE-NZ	14.14	1.91	1.49
1	G	207	ALA	CA-CB	-14.11	1.33	1.53
1	I	178	VAL	CA-CB	14.11	1.73	1.54
1	F	220	VAL	C-O	-14.10	1.06	1.24
1	E	178	VAL	C-O	14.02	1.40	1.24
1	H	179	ALA	C-O	13.98	1.41	1.24
1	G	180	VAL	C-O	13.96	1.40	1.24
1	G	64	LYS	C-O	13.90	1.40	1.24
1	D	320	ASN	C-O	-13.90	1.05	1.23
1	G	113	LEU	C-O	13.83	1.40	1.23
1	K	114	GLY	N-CA	13.82	1.60	1.45
1	F	197	ASP	C-O	-13.63	1.07	1.23
1	C	196	GLN	C-O	-13.63	1.06	1.23
1	B	132	ALA	CA-CB	-13.62	1.33	1.53
1	D	165	ILE	CA-CB	-13.52	1.38	1.53
1	M	72	VAL	C-O	-13.49	1.08	1.24
1	I	387	VAL	CA-CB	13.48	1.69	1.54
1	E	209	ASP	C-O	13.44	1.39	1.24
1	A	369	GLU	CA-C	-13.43	1.36	1.52
1	D	177	GLN	C-O	13.40	1.40	1.24
1	N	139	ALA	CA-CB	13.36	1.72	1.52
1	H	356	LYS	C-O	-13.28	1.09	1.23
1	A	264	ALA	CA-CB	-13.26	1.32	1.53
1	E	72	VAL	CA-CB	-13.21	1.38	1.54
1	L	375	ILE	C-O	13.20	1.37	1.24
1	L	195	ILE	C-O	-13.19	1.08	1.24
1	E	176	THR	C-O	13.17	1.39	1.23
1	G	138	ASN	C-O	13.15	1.40	1.24
1	F	31	THR	CA-C	-13.13	1.35	1.53
1	M	207	ALA	CA-CB	-13.11	1.35	1.53
1	I	375	ILE	C-O	13.10	1.37	1.24
1	D	285	ASN	C-O	13.09	1.39	1.23
1	N	257	VAL	CA-CB	13.07	1.69	1.54
1	H	217	LYS	CE-NZ	13.02	1.88	1.49
1	C	137	ALA	CA-CB	13.02	1.73	1.53
1	A	63	PRO	C-O	13.00	1.40	1.24
1	E	449	VAL	CA-CB	12.99	1.70	1.54
1	H	361	LYS	CG-CD	12.96	1.91	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	295	PRO	CA-C	-12.93	1.40	1.53
1	D	181	GLN	C-O	12.88	1.36	1.25
1	L	37	ALA	CA-CB	-12.84	1.33	1.53
1	H	201	VAL	CA-C	-12.83	1.36	1.52
1	C	457	ALA	CA-CB	-12.82	1.32	1.53
1	L	139	ALA	CA-CB	12.78	1.71	1.53
1	O	159	ILE	CA-CB	-12.79	1.38	1.54
1	G	362	GLU	C-O	12.77	1.39	1.23
1	N	165	ILE	CA-CB	-12.76	1.37	1.53
1	K	139	ALA	CA-CB	12.75	1.69	1.53
1	C	115	VAL	C-O	12.74	1.39	1.24
1	I	114	GLY	N-CA	12.70	1.60	1.45
1	B	306	ILE	C-O	-12.69	1.11	1.24
1	C	471	GLN	C-O	12.69	1.40	1.24
1	L	267	VAL	CA-CB	-12.68	1.37	1.54
1	B	216	ASN	C-O	-12.67	1.08	1.24
1	J	171	LYS	C-O	12.63	1.39	1.24
1	J	68	LEU	CA-C	-12.58	1.37	1.53
1	H	301	THR	CB-CG2	12.55	1.94	1.52
1	L	114	GLY	N-CA	12.54	1.60	1.45
1	L	469	LEU	C-O	-12.54	1.09	1.24
1	I	206	GLY	C-O	12.54	1.39	1.23
1	F	384	THR	N-CA	12.51	1.62	1.45
1	B	347	ALA	C-O	12.50	1.39	1.23
1	F	206	GLY	C-O	12.49	1.37	1.24
1	G	226	THR	CA-CB	-12.49	1.35	1.53
1	K	341	ASN	CA-C	-12.48	1.37	1.52
1	A	342	MET	SD-CE	12.48	2.10	1.79
1	H	323	ILE	C-O	12.48	1.35	1.23
1	H	219	GLU	N-CA	12.47	1.57	1.46
1	I	113	LEU	C-O	12.46	1.38	1.23
1	B	83	PHE	C-O	12.45	1.39	1.23
1	I	287	ALA	C-O	12.43	1.38	1.23
1	D	188	LEU	C-O	-12.41	1.06	1.23
1	A	30	ARG	C-O	-12.38	1.09	1.24
1	A	237	MET	CA-C	12.38	1.69	1.52
1	L	132	ALA	CA-CB	-12.35	1.35	1.53
1	B	203	THR	CA-CB	-12.34	1.34	1.54
1	H	333	VAL	C-O	12.33	1.37	1.24
1	H	179	ALA	CA-C	12.33	1.69	1.52
1	N	88	THR	CA-CB	12.32	1.71	1.54
1	C	362	GLU	C-O	12.29	1.38	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	316	ALA	CA-CB	12.29	1.74	1.53
1	I	170	GLY	N-CA	12.29	1.61	1.45
1	I	280	SER	C-O	12.27	1.37	1.23
1	A	30	ARG	CA-C	-12.25	1.37	1.52
1	H	391	ILE	CA-CB	-12.24	1.37	1.54
1	J	163	PRO	C-O	12.24	1.35	1.24
1	N	293	PRO	CA-CB	-12.23	1.36	1.53
1	K	278	LYS	C-O	12.21	1.39	1.23
1	H	311	TYR	C-O	12.17	1.38	1.24
1	C	295	PRO	CA-C	-12.17	1.39	1.53
1	H	249	TYR	N-CA	12.16	1.60	1.46
1	G	186	PRO	CA-C	12.15	1.58	1.51
1	A	161	CYS	C-O	12.14	1.40	1.24
1	J	116	GLY	C-O	12.14	1.40	1.23
1	N	272	PRO	CA-C	-12.14	1.38	1.52
1	A	356	LYS	CA-C	-12.13	1.39	1.52
1	N	346	ALA	CA-CB	12.11	1.72	1.53
1	O	459	LEU	C-O	-12.08	1.08	1.24
1	B	60	ILE	C-O	-12.07	1.12	1.23
1	I	456	SER	C-O	12.07	1.38	1.23
1	D	139	ALA	CA-CB	12.04	1.68	1.53
1	B	168	HIS	C-O	-12.01	1.09	1.23
1	M	230	LYS	CE-NZ	11.99	1.85	1.49
1	N	126	LEU	C-O	11.97	1.33	1.23
1	D	438	GLU	CD-OE2	11.97	1.48	1.25
1	G	336	THR	C-O	-11.97	1.08	1.24
1	L	262	ASN	C-O	-11.96	1.09	1.23
1	H	116	GLY	C-O	11.91	1.39	1.23
1	F	28	VAL	C-O	11.91	1.37	1.24
1	J	139	ALA	CA-C	11.81	1.67	1.52
1	C	265	GLY	C-O	11.77	1.36	1.23
1	B	187	PRO	CA-C	-11.75	1.41	1.52
1	I	138	ASN	C-O	11.72	1.38	1.24
1	E	335	ASP	C-O	11.71	1.38	1.23
1	O	179	ALA	C-O	11.69	1.38	1.24
1	H	310	PRO	C-O	-11.66	1.11	1.23
1	K	231	TYR	CA-C	-11.65	1.40	1.52
1	C	316	ALA	CA-CB	11.64	1.73	1.53
1	K	43	LEU	C-O	-11.64	1.09	1.23
1	B	250	LEU	N-CA	11.63	1.60	1.46
1	O	346	ALA	CA-C	-11.62	1.38	1.52
1	J	399	LEU	N-CA	11.61	1.59	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	178	VAL	CA-C	11.60	1.67	1.52
1	F	117	ILE	CA-CB	-11.59	1.37	1.55
1	O	139	ALA	CA-CB	11.58	1.69	1.53
1	N	27	TYR	CA-C	11.58	1.69	1.52
1	G	69	GLN	C-O	11.56	1.37	1.24
1	E	69	GLN	CA-C	11.56	1.67	1.52
1	D	116	GLY	C-O	11.54	1.39	1.23
1	O	347	ALA	CA-CB	11.54	1.72	1.53
1	F	467	LYS	CG-CD	11.53	1.87	1.52
1	J	264	ALA	CA-CB	-11.51	1.34	1.53
1	E	191	ILE	CA-CB	-11.50	1.40	1.54
1	K	165	ILE	C-O	11.50	1.37	1.24
1	E	333	VAL	C-O	11.48	1.35	1.24
1	E	270	ASN	CA-C	-11.45	1.39	1.52
1	G	107	VAL	CA-CB	-11.44	1.40	1.53
1	K	348	ILE	CA-CB	-11.44	1.39	1.54
1	I	199	ASP	CG-OD2	11.44	1.47	1.25
1	E	375	ILE	C-O	11.43	1.36	1.24
1	N	72	VAL	CA-CB	11.42	1.65	1.53
1	D	369	GLU	C-O	-11.40	1.09	1.23
1	B	264	ALA	CA-CB	11.40	1.72	1.53
1	M	68	LEU	CA-C	-11.40	1.40	1.52
1	N	203	THR	N-CA	11.38	1.61	1.45
1	M	293	PRO	C-O	-11.37	1.09	1.24
1	D	272	PRO	C-O	-11.37	1.11	1.23
1	O	335	ASP	C-O	11.36	1.37	1.23
1	B	258	ARG	C-O	11.36	1.37	1.24
1	L	100	TRP	CA-C	-11.35	1.38	1.52
1	N	72	VAL	N-CA	11.35	1.60	1.46
1	L	456	SER	C-O	11.34	1.37	1.23
1	E	176	THR	CA-CB	11.33	1.66	1.52
1	D	176	THR	N-CA	11.32	1.60	1.46
1	F	323	ILE	CA-C	-11.32	1.41	1.53
1	I	364	LEU	C-O	11.32	1.37	1.24
1	F	442	LYS	C-O	11.32	1.37	1.24
1	H	265	GLY	C-O	11.31	1.36	1.23
1	N	125	LYS	C-O	11.30	1.36	1.24
1	H	248	PHE	C-O	11.30	1.37	1.24
1	I	117	ILE	CA-CB	-11.28	1.38	1.54
1	D	361	LYS	CG-CD	11.27	1.86	1.52
1	F	225	CYS	N-CA	11.27	1.60	1.46
1	F	107	VAL	CA-C	11.25	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	280	SER	CA-C	-11.24	1.38	1.52
1	B	381	ILE	C-O	-11.24	1.11	1.24
1	K	165	ILE	CA-C	11.23	1.65	1.52
1	D	378	LEU	C-O	-11.22	1.10	1.24
1	B	284	ALA	CA-CB	-11.21	1.35	1.53
1	D	115	VAL	C-O	11.20	1.37	1.23
1	K	311	TYR	C-O	11.19	1.37	1.24
1	I	185	CYS	C-O	11.19	1.38	1.24
1	B	271	VAL	N-CA	-11.18	1.35	1.46
1	F	95	THR	CA-CB	-11.18	1.37	1.54
1	J	382	THR	C-O	11.17	1.37	1.24
1	A	117	ILE	CA-CB	-11.16	1.40	1.54
1	B	252	ARG	CA-C	-11.16	1.41	1.53
1	O	344	LEU	C-O	11.15	1.37	1.23
1	N	46	GLY	C-O	11.13	1.39	1.23
1	J	357	ASN	C-O	11.12	1.38	1.24
1	F	49	TYR	C-O	11.11	1.39	1.24
1	L	40	SER	CA-C	11.11	1.67	1.52
1	L	166	GLY	N-CA	-11.10	1.32	1.45
1	C	142	ASP	CA-C	11.09	1.64	1.53
1	A	64	LYS	CD-CE	11.09	1.85	1.52
1	C	86	PRO	CA-C	11.08	1.68	1.52
1	D	32	ASN	CB-CG	11.08	1.79	1.52
1	J	74	ARG	CG-CD	11.06	1.85	1.52
1	O	212	THR	CA-CB	-11.04	1.38	1.54
1	A	206	GLY	C-O	11.04	1.36	1.23
1	J	375	ILE	C-O	10.96	1.36	1.24
1	B	375	ILE	C-O	10.96	1.34	1.24
1	J	356	LYS	CA-C	-10.96	1.39	1.52
1	N	320	ASN	C-O	-10.94	1.09	1.23
1	B	195	ILE	N-CA	-10.94	1.32	1.46
1	F	107	VAL	CA-CB	-10.92	1.41	1.53
1	K	300	VAL	CA-CB	-10.92	1.42	1.54
1	D	181	GLN	CG-CD	10.91	1.79	1.52
1	G	178	VAL	CA-C	10.91	1.66	1.52
1	E	296	SER	C-O	-10.89	1.12	1.23
1	G	227	SER	C-O	10.87	1.38	1.23
1	J	179	ALA	CA-CB	10.87	1.71	1.53
1	M	372	LEU	C-O	-10.84	1.10	1.23
1	K	150	ASP	C-O	-10.84	1.10	1.23
1	H	137	ALA	CA-CB	10.82	1.68	1.53
1	G	22	VAL	CA-CB	-10.81	1.36	1.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	216	ASN	CG-OD1	10.79	1.44	1.23
1	F	115	VAL	CA-C	-10.79	1.39	1.52
1	O	33	ILE	C-O	10.79	1.35	1.24
1	E	382	THR	C-O	10.78	1.37	1.23
1	C	296	SER	CA-C	10.78	1.64	1.53
1	K	375	ILE	C-O	10.78	1.35	1.24
1	B	117	ILE	CA-CB	-10.77	1.38	1.55
1	I	174	PRO	C-O	10.77	1.38	1.24
1	J	54	LYS	C-O	10.77	1.37	1.23
1	J	249	TYR	C-O	-10.76	1.10	1.23
1	D	297	GLY	C-O	10.76	1.38	1.23
1	F	70	TYR	C-O	-10.76	1.10	1.23
1	I	346	ALA	CA-CB	10.76	1.69	1.53
1	L	59	LYS	CE-NZ	10.74	1.81	1.49
1	A	356	LYS	C-O	-10.74	1.11	1.23
1	B	201	VAL	CA-CB	-10.73	1.39	1.54
1	H	254	GLN	C-O	10.73	1.36	1.23
1	D	178	VAL	CB-CG2	10.73	1.88	1.52
1	K	203	THR	CA-CB	-10.72	1.37	1.54
1	E	396	SER	CA-C	10.72	1.67	1.52
1	N	138	ASN	C-O	10.70	1.37	1.24
1	E	177	GLN	CG-CD	10.65	1.78	1.52
1	E	280	SER	C-O	10.65	1.36	1.23
1	D	197	ASP	C-O	-10.65	1.10	1.24
1	E	280	SER	CA-C	10.65	1.64	1.53
1	E	341	ASN	C-O	-10.65	1.11	1.24
1	A	194	VAL	CA-CB	-10.64	1.40	1.54
1	E	396	SER	C-O	10.64	1.36	1.24
1	D	438	GLU	CD-OE1	10.64	1.45	1.25
1	F	126	LEU	C-O	10.64	1.37	1.24
1	N	24	THR	CA-CB	-10.62	1.34	1.53
1	A	191	ILE	CA-CB	-10.61	1.41	1.54
1	A	176	THR	CA-C	10.61	1.65	1.53
1	N	306	ILE	C-O	-10.61	1.10	1.24
1	E	280	SER	CB-OG	10.60	1.63	1.42
1	B	22	VAL	C-O	10.59	1.34	1.23
1	O	471	GLN	CA-C	10.58	1.57	1.52
1	A	105	VAL	CA-CB	-10.58	1.40	1.54
1	L	103	VAL	CA-CB	-10.57	1.41	1.54
1	D	211	THR	C-O	-10.57	1.10	1.24
1	O	71	ARG	CZ-NH1	10.56	1.47	1.32
1	H	156	LEU	C-O	10.56	1.36	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	220	VAL	CA-C	-10.55	1.40	1.52
1	D	206	GLY	C-O	10.54	1.37	1.23
1	E	160	GLY	C-O	10.54	1.34	1.23
1	E	160	GLY	N-CA	10.53	1.56	1.45
1	E	347	ALA	C-O	10.53	1.38	1.23
1	M	200	MET	C-O	10.52	1.36	1.24
1	O	172	GLY	C-O	10.52	1.38	1.23
1	N	316	ALA	N-CA	10.51	1.58	1.46
1	N	331	VAL	C-O	10.51	1.34	1.24
1	N	89	SER	C-O	10.50	1.37	1.24
1	D	469	LEU	CA-C	10.50	1.66	1.52
1	D	195	ILE	C-O	-10.50	1.11	1.24
1	I	147	ILE	C-O	10.49	1.37	1.24
1	F	59	LYS	CE-NZ	10.48	1.80	1.49
1	G	359	ASN	CA-C	10.48	1.67	1.52
1	K	472	LEU	N-CA	10.47	1.66	1.46
1	N	89	SER	CA-C	10.46	1.67	1.52
1	D	270	ASN	C-O	-10.46	1.11	1.23
1	M	347	ALA	C-O	10.46	1.37	1.23
1	E	177	GLN	CA-CB	10.46	1.71	1.53
1	O	195	ILE	C-O	-10.46	1.12	1.23
1	M	380	LYS	C-O	-10.43	1.11	1.23
1	B	358	THR	CA-C	-10.41	1.39	1.53
1	M	287	ALA	CA-CB	10.41	1.70	1.53
1	I	334	VAL	C-O	10.40	1.34	1.24
1	F	265	GLY	N-CA	10.40	1.56	1.45
1	J	124	ASN	C-O	-10.39	1.12	1.23
1	M	373	GLN	CA-C	-10.39	1.40	1.52
1	L	282	SER	C-O	10.39	1.36	1.24
1	I	37	ALA	CA-CB	10.38	1.70	1.53
1	N	27	TYR	C-O	10.38	1.37	1.24
1	M	138	ASN	C-O	10.37	1.37	1.24
1	B	271	VAL	C-O	-10.37	1.10	1.24
1	M	139	ALA	C-O	10.36	1.36	1.24
1	A	446	PHE	CA-C	-10.35	1.40	1.52
1	E	66	SER	C-O	10.34	1.37	1.23
1	M	112	PRO	CA-C	10.34	1.65	1.52
1	M	131	ASN	C-O	-10.33	1.10	1.24
1	E	342	MET	SD-CE	10.32	2.05	1.79
1	G	128	ASP	C-O	10.32	1.36	1.24
1	K	343	SER	C-O	10.32	1.36	1.23
1	K	196	GLN	C-O	-10.32	1.10	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	292	PHE	C-O	-10.32	1.11	1.24
1	O	398	ILE	CA-CB	10.31	1.65	1.54
1	A	463	PRO	CA-C	-10.30	1.37	1.52
1	D	292	PHE	C-O	-10.30	1.13	1.24
1	F	365	ARG	CG-CD	10.30	1.83	1.52
1	G	202	ASP	N-CA	-10.30	1.33	1.46
1	C	75	ILE	CA-CB	-10.29	1.41	1.54
1	J	57	ASN	CA-C	10.29	1.67	1.53
1	D	356	LYS	N-CA	-10.27	1.34	1.46
1	J	388	MET	SD-CE	10.27	2.05	1.79
1	K	356	LYS	C-O	-10.26	1.11	1.23
1	M	144	ARG	CB-CG	10.26	1.83	1.52
1	C	344	LEU	C-O	10.25	1.36	1.23
1	J	101	ALA	C-O	10.25	1.36	1.23
1	D	342	MET	SD-CE	10.23	2.05	1.79
1	O	379	CYS	C-O	10.23	1.36	1.24
1	D	60	ILE	CG1-CD1	10.22	1.91	1.51
1	B	303	ASP	C-O	-10.20	1.11	1.24
1	D	190	LEU	C-O	10.20	1.36	1.24
1	K	162	LYS	C-O	-10.20	1.13	1.24
1	L	30	ARG	CA-C	-10.20	1.39	1.52
1	H	178	VAL	CB-CG1	10.20	1.86	1.52
1	A	235	ILE	CA-C	-10.19	1.39	1.52
1	H	96	GLN	CA-C	10.19	1.64	1.52
1	F	178	VAL	CA-CB	10.17	1.68	1.54
1	E	196	GLN	CA-C	-10.17	1.40	1.52
1	F	204	GLY	C-O	-10.17	1.10	1.23
1	K	30	ARG	C-O	-10.16	1.11	1.24
1	N	87	ASP	CG-OD2	10.16	1.44	1.25
1	L	139	ALA	C-O	10.15	1.35	1.24
1	G	178	VAL	CB-CG1	10.15	1.86	1.52
1	L	177	GLN	C-O	10.15	1.36	1.24
1	O	194	VAL	C-O	10.14	1.34	1.24
1	H	32	ASN	CB-CG	10.13	1.77	1.52
1	H	347	ALA	C-O	10.13	1.38	1.23
1	E	459	LEU	C-O	-10.13	1.10	1.24
1	G	75	ILE	C-O	10.12	1.36	1.24
1	O	49	TYR	C-O	10.12	1.36	1.24
1	G	216	ASN	C-O	-10.12	1.11	1.24
1	M	52	ILE	CA-CB	10.12	1.64	1.53
1	O	202	ASP	N-CA	-10.11	1.33	1.46
1	M	195	ILE	CA-C	-10.11	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	241	PRO	N-CA	10.10	1.60	1.47
1	A	164	PRO	C-O	-10.10	1.12	1.23
1	J	75	ILE	CA-CB	-10.10	1.41	1.54
1	G	178	VAL	C-O	10.09	1.36	1.24
1	D	209	ASP	C-O	10.09	1.35	1.24
1	G	173	SER	CA-CB	10.08	1.69	1.53
1	J	370	TYR	C-O	10.07	1.37	1.23
1	C	348	ILE	C-O	10.07	1.34	1.24
1	E	165	ILE	C-O	10.05	1.35	1.24
1	A	114	GLY	C-O	10.05	1.34	1.23
1	E	199	ASP	C-O	-10.05	1.11	1.23
1	L	156	LEU	C-O	10.05	1.36	1.23
1	D	268	GLY	C-O	10.05	1.36	1.23
1	I	96	GLN	CA-C	10.05	1.64	1.52
1	N	272	PRO	C-O	-10.04	1.11	1.23
1	L	351	SER	C-O	10.04	1.36	1.24
1	A	208	MET	C-O	10.03	1.36	1.24
1	L	271	VAL	CA-C	-10.02	1.43	1.52
1	K	185	CYS	C-O	10.01	1.37	1.24
1	C	383	LEU	CA-C	-10.01	1.40	1.53
1	D	450	ASN	C-O	10.00	1.35	1.24
1	O	41	ARG	CZ-NH1	10.00	1.46	1.32
1	D	68	LEU	C-O	-9.99	1.13	1.24
1	F	398	ILE	CA-CB	9.99	1.64	1.54
1	M	317	GLN	N-CA	9.98	1.59	1.46
1	L	341	ASN	C-O	9.97	1.35	1.24
1	A	166	GLY	N-CA	9.96	1.54	1.44
1	B	211	THR	C-O	-9.97	1.11	1.24
1	C	179	ALA	CA-CB	9.97	1.64	1.52
1	L	277	ILE	C-O	-9.97	1.14	1.24
1	L	165	ILE	CG1-CD1	9.96	1.90	1.51
1	J	253	GLU	C-O	-9.96	1.11	1.23
1	N	96	GLN	N-CA	-9.96	1.34	1.45
1	M	284	ALA	CA-C	-9.94	1.39	1.52
1	E	172	GLY	C-O	9.94	1.37	1.23
1	I	202	ASP	N-CA	-9.92	1.33	1.46
1	M	164	PRO	CA-CB	9.92	1.66	1.53
1	J	184	ASP	C-O	9.91	1.36	1.24
1	B	306	ILE	N-CA	-9.91	1.35	1.46
1	H	114	GLY	N-CA	9.90	1.56	1.45
1	C	115	VAL	CA-CB	-9.89	1.41	1.54
1	M	129	THR	CA-CB	-9.89	1.39	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	162	LYS	C-O	9.88	1.34	1.23
1	L	348	ILE	CA-CB	-9.88	1.42	1.54
1	J	243	GLY	C-O	9.88	1.35	1.24
1	F	203	THR	CA-CB	-9.87	1.39	1.54
1	G	306	ILE	CA-CB	-9.86	1.41	1.54
1	E	337	THR	C-O	9.85	1.36	1.24
1	C	51	PRO	CA-C	9.85	1.64	1.52
1	D	347	ALA	C-O	9.85	1.39	1.23
1	N	51	PRO	C-O	9.85	1.34	1.23
1	A	285	ASN	C-O	9.84	1.35	1.24
1	H	235	ILE	CA-CB	-9.83	1.41	1.54
1	L	159	ILE	CG1-CD1	9.81	1.90	1.51
1	C	82	LYS	CE-NZ	9.81	1.78	1.49
1	D	267	VAL	C-O	-9.81	1.12	1.24
1	A	398	ILE	CA-CB	-9.81	1.41	1.54
1	K	175	CYS	C-O	9.81	1.35	1.24
1	J	361	LYS	CA-C	9.80	1.65	1.52
1	M	32	ASN	CB-CG	9.78	1.76	1.52
1	M	271	VAL	CA-CB	-9.77	1.41	1.54
1	A	347	ALA	CA-CB	9.76	1.69	1.53
1	O	388	MET	C-O	9.76	1.36	1.24
1	C	124	ASN	C-O	-9.75	1.13	1.23
1	O	280	SER	CB-OG	9.75	1.61	1.42
1	M	356	LYS	CA-C	-9.75	1.41	1.52
1	D	60	ILE	CA-CB	-9.75	1.42	1.53
1	A	459	LEU	C-O	-9.74	1.11	1.24
1	N	139	ALA	CA-C	9.74	1.64	1.53
1	A	348	ILE	CA-CB	-9.73	1.42	1.54
1	C	178	VAL	C-O	9.73	1.35	1.24
1	E	173	SER	C-O	9.73	1.36	1.24
1	D	301	THR	C-O	9.73	1.35	1.24
1	H	144	ARG	CD-NE	-9.73	1.32	1.46
1	I	46	GLY	C-O	9.73	1.37	1.23
1	E	442	LYS	C-O	9.72	1.36	1.24
1	H	58	ASN	C-O	9.72	1.36	1.24
1	M	87	ASP	CA-C	9.72	1.65	1.52
1	N	147	ILE	CA-CB	9.72	1.70	1.54
1	I	152	LYS	C-O	9.72	1.35	1.24
1	G	194	VAL	C-O	9.71	1.34	1.24
1	B	300	VAL	CA-CB	9.71	1.65	1.54
1	A	458	ASP	CA-C	9.70	1.65	1.52
1	E	152	LYS	CD-CE	9.70	1.81	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	309	LYS	C-O	9.69	1.35	1.24
1	G	139	ALA	CA-CB	9.69	1.65	1.53
1	J	243	GLY	CA-C	9.69	1.61	1.51
1	O	173	SER	CA-C	9.69	1.65	1.52
1	C	271	VAL	CA-CB	-9.68	1.41	1.54
1	M	259	HIS	C-O	9.67	1.36	1.23
1	K	68	LEU	CA-C	-9.67	1.41	1.53
1	N	296	SER	C-O	9.65	1.35	1.24
1	D	160	GLY	CA-C	9.65	1.60	1.52
1	O	131	ASN	CA-C	-9.64	1.39	1.52
1	C	452	LYS	CE-NZ	9.63	1.78	1.49
1	D	115	VAL	CA-CB	-9.63	1.39	1.54
1	I	382	THR	C-O	9.61	1.35	1.23
1	H	237	MET	C-O	9.61	1.36	1.24
1	D	199	ASP	C-O	-9.60	1.12	1.23
1	H	258	ARG	CA-C	-9.59	1.40	1.52
1	H	175	CYS	N-CA	9.59	1.57	1.46
1	K	30	ARG	N-CA	-9.59	1.34	1.46
1	H	310	PRO	N-CA	-9.58	1.35	1.47
1	B	56	ASN	C-O	9.58	1.36	1.23
1	E	255	MET	C-O	-9.58	1.12	1.23
1	B	303	ASP	CA-C	-9.58	1.40	1.52
1	C	464	LEU	CG-CD1	9.57	1.84	1.52
1	G	164	PRO	C-O	9.57	1.35	1.23
1	C	114	GLY	C-O	-9.56	1.13	1.23
1	A	45	VAL	C-O	9.56	1.33	1.24
1	I	272	PRO	CA-C	-9.55	1.40	1.52
1	A	297	GLY	N-CA	9.55	1.57	1.44
1	B	176	THR	CB-CG2	9.55	1.84	1.52
1	K	95	THR	CA-C	9.55	1.64	1.52
1	N	328	GLN	CA-C	9.55	1.64	1.52
1	O	86	PRO	C-O	9.54	1.37	1.24
1	E	276	TYR	CA-CB	-9.54	1.40	1.53
1	I	40	SER	C-O	9.54	1.36	1.24
1	G	180	VAL	CA-CB	9.53	1.67	1.54
1	D	213	LEU	C-O	9.53	1.36	1.24
1	G	304	ALA	CA-C	-9.53	1.40	1.52
1	K	48	PRO	C-O	9.52	1.37	1.24
1	L	142	ASP	CA-C	-9.52	1.40	1.52
1	F	114	GLY	C-O	9.52	1.34	1.24
1	N	299	MET	C-O	9.51	1.35	1.24
1	E	116	GLY	C-O	9.51	1.36	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	87	ASP	C-O	9.51	1.35	1.23
1	D	312	TRP	CA-CB	-9.50	1.39	1.53
1	O	195	ILE	CA-CB	-9.50	1.43	1.53
1	F	230	LYS	CA-C	9.49	1.64	1.52
1	D	163	PRO	CA-C	9.49	1.60	1.52
1	D	369	GLU	CA-C	-9.49	1.40	1.53
1	L	228	ILE	CG1-CD1	9.49	1.88	1.51
1	M	457	ALA	C-O	-9.49	1.13	1.24
1	G	56	ASN	C-O	9.48	1.34	1.24
1	M	333	VAL	C-O	9.48	1.33	1.24
1	A	98	LEU	C-O	9.48	1.35	1.23
1	E	185	CYS	C-N	9.48	1.41	1.33
1	L	111	GLN	CA-C	-9.47	1.43	1.52
1	J	466	ARG	C-O	9.47	1.35	1.24
1	B	316	ALA	N-CA	9.47	1.58	1.46
1	G	216	ASN	CA-C	-9.47	1.40	1.52
1	G	77	LEU	C-O	9.46	1.38	1.24
1	J	257	VAL	CA-CB	-9.46	1.42	1.53
1	N	178	VAL	N-CA	9.46	1.58	1.46
1	N	449	VAL	N-CA	9.46	1.57	1.46
1	D	46	GLY	C-O	9.46	1.36	1.23
1	G	83	PHE	C-O	9.46	1.35	1.23
1	K	103	VAL	N-CA	-9.45	1.38	1.46
1	I	194	VAL	CA-C	9.45	1.63	1.52
1	A	64	LYS	CE-NZ	9.45	1.77	1.49
1	I	176	THR	N-CA	9.44	1.58	1.46
1	J	85	PHE	C-O	9.44	1.36	1.24
1	I	179	ALA	N-CA	9.44	1.58	1.46
1	D	138	ASN	CG-ND2	9.43	1.53	1.33
1	N	276	TYR	C-O	9.43	1.33	1.24
1	C	467	LYS	CG-CD	9.42	1.80	1.52
1	B	123	LEU	CG-CD2	9.42	1.83	1.52
1	L	206	GLY	N-CA	9.42	1.53	1.45
1	I	469	LEU	C-O	-9.42	1.12	1.24
1	A	296	SER	C-N	9.41	1.38	1.33
1	L	45	VAL	C-O	9.41	1.33	1.24
1	D	98	LEU	C-O	9.40	1.35	1.23
1	H	118	SER	C-O	9.39	1.36	1.23
1	M	87	ASP	N-CA	9.39	1.57	1.46
1	A	339	SER	N-CA	9.38	1.58	1.46
1	B	110	GLY	C-O	9.38	1.36	1.23
1	B	288	SER	C-O	-9.38	1.12	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	375	ILE	C-O	9.38	1.35	1.24
1	O	388	MET	CA-C	9.38	1.65	1.52
1	C	441	LEU	CG-CD2	9.38	1.83	1.52
1	E	236	LYS	CE-NZ	9.38	1.77	1.49
1	F	157	CYS	C-O	-9.38	1.12	1.23
1	O	176	THR	N-CA	9.38	1.58	1.46
1	I	88	THR	C-O	9.37	1.34	1.24
1	B	201	VAL	CA-C	-9.37	1.40	1.52
1	D	170	GLY	C-O	9.37	1.33	1.23
1	L	275	LEU	CG-CD2	9.37	1.83	1.52
1	C	448	GLU	C-O	9.36	1.35	1.23
1	B	207	ALA	CA-CB	-9.36	1.40	1.53
1	N	343	SER	C-O	9.36	1.34	1.23
1	D	346	ALA	C-O	9.35	1.35	1.24
1	G	22	VAL	C-O	9.35	1.33	1.23
1	K	170	GLY	C-O	9.35	1.32	1.23
1	C	150	ASP	C-O	-9.35	1.11	1.23
1	A	205	PHE	N-CA	-9.35	1.35	1.46
1	D	53	LYS	CA-C	-9.34	1.40	1.53
1	C	356	LYS	CA-C	-9.34	1.41	1.52
1	L	272	PRO	CB-CG	9.34	1.96	1.49
1	B	139	ALA	CA-CB	9.33	1.65	1.53
1	O	176	THR	CA-CB	9.33	1.69	1.53
1	E	103	VAL	C-O	9.32	1.33	1.23
1	G	299	MET	N-CA	9.32	1.58	1.46
1	O	152	LYS	C-O	9.32	1.35	1.23
1	K	362	GLU	CA-C	-9.32	1.41	1.52
1	B	126	LEU	CA-C	-9.32	1.44	1.53
1	I	150	ASP	N-CA	9.31	1.57	1.46
1	A	378	LEU	C-O	-9.30	1.12	1.24
1	G	345	CYS	C-O	-9.30	1.13	1.23
1	B	241	PRO	N-CA	9.29	1.59	1.47
1	C	347	ALA	C-O	9.29	1.36	1.23
1	A	285	ASN	CA-C	9.29	1.64	1.52
1	B	207	ALA	CA-C	-9.29	1.41	1.52
1	D	304	ALA	CA-CB	-9.29	1.39	1.54
1	N	472	LEU	N-CA	9.29	1.63	1.46
1	J	159	ILE	CA-CB	-9.28	1.42	1.54
1	C	373	GLN	C-O	9.28	1.34	1.23
1	I	458	ASP	CG-OD2	9.28	1.43	1.25
1	N	311	TYR	C-O	9.28	1.35	1.24
1	E	173	SER	CA-CB	9.27	1.68	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	141	VAL	CA-CB	-9.27	1.42	1.54
1	M	64	LYS	CB-CG	9.26	1.80	1.52
1	M	82	LYS	CE-NZ	9.26	1.77	1.49
1	C	285	ASN	CA-C	9.25	1.64	1.52
1	B	51	PRO	CA-CB	-9.25	1.42	1.53
1	G	114	GLY	C-O	-9.25	1.12	1.23
1	J	96	GLN	N-CA	9.25	1.58	1.45
1	C	460	ASP	CA-C	-9.24	1.39	1.52
1	F	140	GLY	C-O	9.24	1.36	1.23
1	O	112	PRO	CA-C	9.24	1.63	1.52
1	B	472	LEU	N-CA	9.24	1.63	1.46
1	H	300	VAL	C-O	9.23	1.36	1.24
1	D	89	SER	C-O	9.22	1.35	1.24
1	E	401	ASP	C-O	9.22	1.34	1.24
1	M	101	ALA	CA-CB	-9.22	1.30	1.54
1	E	457	ALA	CA-CB	-9.22	1.39	1.53
1	M	320	ASN	C-O	-9.22	1.12	1.23
1	G	220	VAL	C-O	-9.21	1.17	1.24
1	I	337	THR	C-O	9.20	1.35	1.24
1	O	329	LEU	C-O	9.20	1.34	1.23
1	B	249	TYR	C-O	9.20	1.35	1.23
1	C	292	PHE	CA-C	9.19	1.64	1.52
1	J	103	VAL	C-O	9.20	1.35	1.24
1	M	273	ASP	N-CA	9.19	1.59	1.46
1	A	371	ASP	N-CA	9.19	1.58	1.46
1	G	44	ALA	CA-CB	9.19	1.68	1.53
1	G	285	ASN	C-O	9.18	1.34	1.23
1	E	402	TRP	C-O	9.18	1.34	1.24
1	F	129	THR	CA-CB	-9.17	1.39	1.53
1	O	109	ARG	C-O	9.17	1.35	1.24
1	A	216	ASN	C-O	-9.16	1.12	1.24
1	F	55	PRO	C-O	9.16	1.35	1.24
1	F	259	HIS	CA-CB	-9.16	1.38	1.54
1	J	207	ALA	CA-C	-9.16	1.41	1.52
1	N	70	TYR	C-O	-9.16	1.12	1.24
1	N	332	THR	CA-CB	9.16	1.66	1.53
1	H	72	VAL	CA-CB	9.16	1.63	1.53
1	F	172	GLY	C-O	9.15	1.36	1.23
1	K	51	PRO	C-O	9.15	1.32	1.23
1	K	345	CYS	CA-C	-9.15	1.41	1.52
1	L	21	VAL	CA-C	-9.15	1.41	1.52
1	K	362	GLU	CA-CB	-9.15	1.39	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	21	VAL	CA-CB	-9.14	1.42	1.54
1	B	271	VAL	CA-C	-9.14	1.45	1.53
1	E	207	ALA	CA-CB	9.14	1.65	1.53
1	D	132	ALA	CA-CB	-9.14	1.39	1.53
1	M	280	SER	CA-C	9.14	1.63	1.52
1	H	350	THR	CA-CB	9.13	1.70	1.53
1	N	87	ASP	CG-OD1	9.14	1.42	1.25
1	B	350	THR	CA-CB	9.13	1.68	1.53
1	N	255	MET	SD-CE	9.13	2.02	1.79
1	H	59	LYS	CE-NZ	9.11	1.76	1.49
1	J	92	ASN	CA-CB	9.11	1.64	1.53
1	I	320	ASN	C-O	-9.11	1.12	1.23
1	H	297	GLY	C-O	9.11	1.36	1.23
1	I	56	ASN	CA-C	9.11	1.64	1.53
1	A	235	ILE	CA-CB	-9.11	1.43	1.54
1	O	359	ASN	CA-C	9.11	1.65	1.52
1	F	347	ALA	C-O	9.10	1.36	1.23
1	C	60	ILE	CG1-CD1	9.10	1.87	1.51
1	L	40	SER	C-O	9.10	1.35	1.24
1	H	242	TYR	C-O	9.09	1.35	1.24
1	C	146	CYS	N-CA	-9.09	1.35	1.46
1	J	299	MET	N-CA	9.09	1.57	1.46
1	K	162	LYS	CD-CE	9.08	1.79	1.52
1	E	76	HIS	C-O	9.07	1.34	1.23
1	M	316	ALA	N-CA	9.07	1.57	1.46
1	I	315	ARG	CA-C	-9.07	1.40	1.52
1	A	176	THR	CA-CB	9.06	1.66	1.52
1	O	107	VAL	C-O	9.06	1.36	1.23
1	B	348	ILE	CA-CB	-9.06	1.42	1.54
1	K	300	VAL	CA-C	-9.06	1.42	1.52
1	K	299	MET	N-CA	9.05	1.57	1.46
1	A	348	ILE	N-CA	-9.05	1.35	1.46
1	D	203	THR	CA-CB	-9.04	1.39	1.54
1	F	158	LEU	CA-C	9.05	1.63	1.52
1	G	219	GLU	CD-OE2	9.04	1.42	1.25
1	H	390	TYR	N-CA	9.04	1.57	1.46
1	I	458	ASP	CG-OD1	9.04	1.42	1.25
1	N	123	LEU	CG-CD2	9.04	1.82	1.52
1	H	347	ALA	CA-CB	9.04	1.67	1.53
1	O	395	ASN	C-O	9.04	1.34	1.23
1	A	139	ALA	CA-C	9.04	1.64	1.52
1	J	236	LYS	CG-CD	9.04	1.79	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	21	VAL	CA-CB	-9.04	1.42	1.54
1	M	82	LYS	C-O	-9.04	1.12	1.24
1	F	467	LYS	CD-CE	9.03	1.79	1.52
1	L	152	LYS	CD-CE	9.03	1.79	1.52
1	G	364	LEU	C-O	9.03	1.34	1.24
1	E	359	ASN	CA-C	9.03	1.64	1.52
1	H	186	PRO	C-N	9.03	1.43	1.33
1	A	33	ILE	C-O	9.03	1.33	1.24
1	H	341	ASN	N-CA	9.03	1.57	1.46
1	O	296	SER	CA-C	-9.02	1.43	1.53
1	C	99	VAL	CA-CB	9.02	1.67	1.54
1	E	316	ALA	CA-CB	-9.02	1.38	1.53
1	I	207	ALA	CA-C	-9.02	1.41	1.52
1	A	48	PRO	C-O	9.02	1.35	1.24
1	M	147	ILE	CG1-CD1	9.02	1.86	1.51
1	E	390	TYR	CE2-CZ	9.01	1.59	1.38
1	K	235	ILE	CA-CB	-9.01	1.42	1.54
1	O	381	ILE	C-O	9.01	1.33	1.24
1	N	89	SER	N-CA	9.01	1.57	1.46
1	G	337	THR	C-O	9.00	1.35	1.24
1	I	294	THR	CB-CG2	-9.00	1.22	1.52
1	I	82	LYS	CD-CE	9.00	1.79	1.52
1	I	113	LEU	C-N	8.99	1.42	1.33
1	G	114	GLY	N-CA	8.99	1.55	1.45
1	N	32	ASN	CB-CG	8.99	1.74	1.52
1	J	215	ALA	CA-CB	8.99	1.67	1.53
1	M	316	ALA	CA-C	-8.99	1.40	1.52
1	B	342	MET	C-O	8.98	1.34	1.23
1	O	347	ALA	C-O	8.98	1.35	1.23
1	A	24	THR	CA-CB	-8.97	1.37	1.53
1	M	269	GLU	C-O	8.97	1.35	1.23
1	A	464	LEU	CG-CD2	-8.97	1.23	1.52
1	C	116	GLY	CA-C	-8.97	1.44	1.52
1	N	134	ALA	C-O	8.97	1.34	1.23
1	C	103	VAL	N-CA	-8.96	1.38	1.46
1	C	367	GLY	N-CA	8.96	1.54	1.44
1	L	145	GLU	CB-CG	-8.96	1.25	1.52
1	I	452	LYS	C-O	8.95	1.34	1.24
1	A	124	ASN	C-O	-8.95	1.12	1.24
1	D	200	MET	C-O	8.95	1.34	1.24
1	E	257	VAL	CA-CB	-8.95	1.43	1.54
1	O	345	CYS	C-O	-8.95	1.14	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	370	TYR	CA-CB	-8.95	1.40	1.53
1	H	467	LYS	C-O	-8.95	1.13	1.24
1	D	245	SER	C-O	8.95	1.35	1.24
1	F	123	LEU	C-O	-8.95	1.12	1.23
1	I	115	VAL	CA-C	-8.95	1.42	1.52
1	K	452	LYS	CD-CE	8.94	1.79	1.52
1	K	458	ASP	CA-C	8.94	1.64	1.52
1	N	86	PRO	CA-C	8.94	1.65	1.52
1	F	273	ASP	C-O	8.94	1.35	1.24
1	O	442	LYS	CE-NZ	8.92	1.76	1.49
1	A	241	PRO	N-CA	8.92	1.58	1.47
1	J	215	ALA	N-CA	8.92	1.56	1.46
1	B	467	LYS	CG-CD	8.91	1.79	1.52
1	J	163	PRO	CA-CB	-8.91	1.46	1.54
1	O	177	GLN	C-O	8.90	1.33	1.23
1	N	250	LEU	C-O	8.89	1.34	1.23
1	F	66	SER	N-CA	8.89	1.56	1.45
1	I	310	PRO	CA-C	-8.89	1.42	1.52
1	N	95	THR	N-CA	8.89	1.57	1.46
1	F	176	THR	C-O	8.89	1.35	1.24
1	F	266	THR	CA-C	-8.89	1.41	1.52
1	B	123	LEU	C-O	-8.89	1.13	1.24
1	A	316	ALA	CA-C	-8.88	1.40	1.52
1	A	471	GLN	CA-CB	-8.88	1.40	1.53
1	O	452	LYS	CE-NZ	8.88	1.75	1.49
1	E	30	ARG	CZ-NH1	8.88	1.45	1.32
1	L	175	CYS	C-O	8.87	1.34	1.23
1	N	181	GLN	CG-CD	8.87	1.74	1.52
1	L	354	THR	C-O	8.87	1.35	1.23
1	C	160	GLY	C-O	8.87	1.33	1.23
1	C	359	ASN	CA-C	8.86	1.65	1.52
1	J	214	GLN	N-CA	-8.86	1.36	1.46
1	D	376	PHE	N-CA	-8.86	1.35	1.46
1	J	155	GLN	CA-C	-8.86	1.42	1.52
1	E	304	ALA	N-CA	-8.86	1.37	1.46
1	K	312	TRP	CA-CB	-8.85	1.40	1.53
1	K	255	MET	N-CA	8.85	1.56	1.46
1	A	85	PHE	C-O	8.85	1.35	1.24
1	B	225	CYS	N-CA	8.84	1.57	1.46
1	D	159	ILE	CA-C	8.84	1.64	1.52
1	F	323	ILE	CA-CB	-8.84	1.43	1.53
1	N	28	VAL	C-O	8.84	1.36	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	236	LYS	CB-CG	8.84	1.78	1.52
1	O	180	VAL	C-O	8.83	1.34	1.24
1	F	139	ALA	C-N	8.83	1.46	1.33
1	J	129	THR	CA-C	-8.83	1.40	1.52
1	K	76	HIS	C-O	-8.83	1.13	1.24
1	L	302	SER	N-CA	-8.83	1.35	1.46
1	I	370	TYR	CA-CB	-8.83	1.40	1.53
1	C	20	ALA	N-CA	8.82	1.63	1.46
1	H	106	GLU	CA-C	-8.82	1.42	1.53
1	M	64	LYS	C-O	8.82	1.34	1.24
1	F	394	MET	SD-CE	-8.82	1.57	1.79
1	G	450	ASN	CG-ND2	8.82	1.51	1.33
1	H	235	ILE	C-O	8.81	1.34	1.24
1	H	238	VAL	CA-C	-8.81	1.41	1.52
1	I	101	ALA	CA-CB	-8.81	1.36	1.53
1	H	21	VAL	C-O	-8.81	1.14	1.24
1	G	138	ASN	CA-C	8.81	1.64	1.52
1	F	265	GLY	C-O	8.80	1.32	1.23
1	G	461	GLN	CA-C	8.80	1.64	1.52
1	D	130	GLU	C-O	8.80	1.34	1.24
1	N	277	ILE	CA-CB	-8.80	1.43	1.54
1	C	121	PRO	C-O	-8.80	1.12	1.24
1	D	110	GLY	C-O	-8.79	1.12	1.23
1	F	278	LYS	CA-CB	8.78	1.67	1.53
1	N	88	THR	CA-C	8.78	1.63	1.52
1	N	223	ASP	C-O	8.78	1.34	1.24
1	G	135	TYR	C-O	-8.78	1.13	1.23
1	A	472	LEU	N-CA	8.78	1.62	1.46
1	D	310	PRO	CA-C	-8.78	1.43	1.52
1	I	33	ILE	CA-CB	8.78	1.65	1.54
1	L	161	CYS	CB-SG	8.78	2.10	1.81
1	I	235	ILE	C-O	-8.77	1.13	1.24
1	K	287	ALA	CA-CB	8.77	1.68	1.53
1	C	263	ARG	CZ-NH2	-8.77	1.22	1.33
1	L	283	THR	C-O	-8.77	1.12	1.24
1	D	187	PRO	N-CA	8.76	1.56	1.47
1	C	232	PRO	CG-CD	-8.76	1.21	1.50
1	G	201	VAL	CA-C	-8.76	1.41	1.52
1	N	35	TYR	C-O	8.76	1.34	1.23
1	B	165	ILE	CG1-CD1	8.75	1.85	1.51
1	J	304	ALA	CA-CB	-8.75	1.38	1.53
1	D	172	GLY	C-O	8.75	1.35	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	252	ARG	CA-C	-8.75	1.45	1.53
1	N	319	HIS	CA-CB	-8.75	1.39	1.53
1	D	202	ASP	N-CA	-8.74	1.34	1.45
1	F	78	PRO	CA-CB	8.74	1.65	1.53
1	I	361	LYS	CE-NZ	8.74	1.75	1.49
1	B	272	PRO	CA-C	-8.74	1.40	1.52
1	C	208	MET	SD-CE	8.74	2.01	1.79
1	I	84	GLY	C-O	8.74	1.35	1.23
1	E	156	LEU	C-O	8.73	1.34	1.23
1	H	137	ALA	C-O	8.73	1.34	1.24
1	I	21	VAL	CA-CB	-8.73	1.43	1.54
1	M	21	VAL	C-O	-8.73	1.13	1.24
1	A	341	ASN	C-O	8.72	1.34	1.23
1	G	58	ASN	C-O	8.72	1.35	1.24
1	O	299	MET	SD-CE	8.72	2.01	1.79
1	B	118	SER	CA-C	-8.72	1.41	1.52
1	J	358	THR	CA-C	-8.71	1.41	1.52
1	D	106	GLU	C-O	8.71	1.34	1.23
1	B	306	ILE	CA-CB	-8.71	1.44	1.54
1	D	174	PRO	CA-CB	8.71	1.66	1.53
1	F	304	ALA	C-O	-8.71	1.12	1.24
1	G	20	ALA	CA-CB	8.71	1.81	1.52
1	G	455	PHE	C-O	8.71	1.34	1.23
1	I	334	VAL	CA-CB	-8.71	1.43	1.54
1	N	266	THR	CA-C	-8.71	1.41	1.53
1	N	313	LEU	CG-CD2	8.70	1.81	1.52
1	O	449	VAL	CA-CB	8.70	1.65	1.54
1	E	270	ASN	N-CA	-8.70	1.35	1.45
1	D	365	ARG	C-O	8.70	1.34	1.23
1	N	309	LYS	CA-C	8.70	1.64	1.52
1	G	118	SER	CA-C	8.70	1.63	1.52
1	N	263	ARG	C-O	8.69	1.34	1.24
1	O	128	ASP	C-O	8.69	1.34	1.24
1	H	216	ASN	CA-C	8.69	1.64	1.52
1	L	195	ILE	CG1-CD1	-8.69	1.17	1.51
1	E	340	THR	C-O	8.69	1.34	1.24
1	H	148	SER	C-O	8.69	1.33	1.23
1	K	294	THR	CB-CG2	-8.69	1.23	1.52
1	N	178	VAL	CA-C	8.69	1.63	1.52
1	O	176	THR	C-O	8.69	1.34	1.24
1	D	300	VAL	C-O	8.68	1.34	1.24
1	H	237	MET	CG-SD	8.68	2.02	1.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	263	ARG	CZ-NH2	-8.68	1.22	1.33
1	O	163	PRO	CA-CB	-8.68	1.46	1.54
1	H	105	VAL	CA-C	-8.67	1.41	1.52
1	L	271	VAL	C-O	-8.67	1.13	1.24
1	D	311	TYR	C-O	8.67	1.34	1.24
1	J	376	PHE	C-O	8.67	1.34	1.24
1	K	230	LYS	CG-CD	8.66	1.78	1.52
1	F	130	GLU	C-O	8.66	1.34	1.24
1	F	267	VAL	N-CA	8.66	1.57	1.46
1	B	127	ASP	N-CA	8.66	1.58	1.46
1	G	265	GLY	C-O	8.66	1.31	1.23
1	D	300	VAL	CA-CB	-8.65	1.43	1.54
1	F	324	CYS	CA-C	8.65	1.63	1.53
1	H	171	LYS	C-O	8.64	1.34	1.24
1	K	401	ASP	C-O	8.64	1.34	1.24
1	D	139	ALA	C-O	8.63	1.34	1.24
1	F	207	ALA	N-CA	-8.63	1.35	1.46
1	F	160	GLY	C-O	-8.63	1.13	1.23
1	I	84	GLY	CA-C	8.63	1.64	1.51
1	B	163	PRO	CA-CB	-8.63	1.46	1.54
1	M	356	LYS	CE-NZ	8.63	1.75	1.49
1	I	291	TYR	CE2-CZ	-8.62	1.17	1.38
1	G	381	ILE	C-O	8.62	1.33	1.24
1	E	43	LEU	C-O	-8.62	1.13	1.23
1	F	294	THR	C-O	-8.62	1.12	1.23
1	F	50	PHE	CA-CB	-8.61	1.42	1.53
1	B	142	ASP	N-CA	8.61	1.58	1.46
1	G	131	ASN	CA-C	-8.61	1.41	1.52
1	O	73	PHE	CA-C	8.61	1.63	1.52
1	K	336	THR	CA-CB	-8.61	1.40	1.53
1	J	147	ILE	CG1-CD1	8.60	1.85	1.51
1	C	217	LYS	CD-CE	8.60	1.78	1.52
1	F	40	SER	CB-OG	8.60	1.59	1.42
1	M	324	CYS	C-O	-8.60	1.14	1.23
1	E	39	THR	N-CA	8.59	1.57	1.46
1	O	391	ILE	C-O	8.59	1.34	1.24
1	H	109	ARG	NE-CZ	8.59	1.42	1.33
1	K	332	THR	CA-CB	8.59	1.63	1.52
1	L	26	GLU	C-O	-8.59	1.13	1.24
1	A	270	ASN	CA-C	-8.58	1.41	1.52
1	H	370	TYR	CA-C	8.58	1.63	1.52
1	B	370	TYR	CA-C	-8.58	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	163	PRO	C-O	-8.58	1.14	1.24
1	J	257	VAL	C-O	-8.57	1.15	1.24
1	E	274	ASP	C-O	8.57	1.35	1.24
1	J	139	ALA	CA-CB	8.57	1.65	1.53
1	A	348	ILE	C-O	-8.57	1.15	1.24
1	L	306	ILE	CA-CB	-8.57	1.43	1.54
1	I	214	GLN	CA-C	8.56	1.64	1.53
1	M	51	PRO	CA-C	8.56	1.62	1.52
1	A	304	ALA	N-CA	-8.55	1.38	1.46
1	L	318	GLY	C-O	-8.56	1.10	1.23
1	M	76	HIS	CA-C	-8.56	1.42	1.52
1	O	252	ARG	N-CA	-8.55	1.35	1.46
1	F	272	PRO	C-O	-8.55	1.13	1.23
1	L	69	GLN	C-O	-8.55	1.13	1.24
1	L	349	SER	C-O	8.55	1.34	1.24
1	C	232	PRO	N-CA	-8.55	1.36	1.47
1	G	331	VAL	CA-CB	-8.55	1.44	1.54
1	M	34	TYR	C-O	-8.55	1.14	1.24
1	F	30	ARG	C-O	-8.54	1.13	1.24
1	M	253	GLU	C-O	-8.54	1.13	1.23
1	F	184	ASP	CG-OD2	8.54	1.41	1.25
1	K	448	GLU	C-O	8.54	1.34	1.24
1	C	261	PHE	CA-C	-8.53	1.41	1.52
1	E	465	GLY	C-O	-8.53	1.12	1.23
1	J	471	GLN	C-O	8.54	1.34	1.24
1	M	216	ASN	C-O	-8.54	1.13	1.24
1	C	51	PRO	CB-CG	8.53	1.92	1.49
1	H	469	LEU	CG-CD2	8.53	1.80	1.52
1	B	259	HIS	CA-CB	-8.53	1.40	1.53
1	J	220	VAL	CA-CB	-8.53	1.43	1.54
1	H	342	MET	SD-CE	8.53	2.00	1.79
1	B	149	MET	CA-CB	-8.52	1.42	1.54
1	E	137	ALA	CA-CB	8.52	1.66	1.53
1	K	24	THR	CA-CB	-8.52	1.38	1.53
1	M	78	PRO	N-CA	-8.52	1.37	1.47
1	B	104	GLY	C-O	8.52	1.34	1.23
1	F	268	GLY	CA-C	8.51	1.61	1.52
1	G	291	TYR	CA-C	-8.51	1.41	1.53
1	H	87	ASP	CA-C	8.51	1.63	1.52
1	D	104	GLY	N-CA	-8.51	1.37	1.45
1	F	178	VAL	CA-C	8.51	1.63	1.52
1	G	78	PRO	C-O	8.50	1.33	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	241	PRO	CB-CG	8.50	1.92	1.49
1	O	133	SER	C-O	8.50	1.35	1.24
1	H	54	LYS	CE-NZ	8.50	1.74	1.49
1	F	266	THR	CA-CB	-8.50	1.40	1.53
1	E	393	SER	C-O	8.50	1.35	1.24
1	G	316	ALA	N-CA	8.50	1.57	1.46
1	F	197	ASP	CG-OD1	8.49	1.41	1.25
1	M	328	GLN	N-CA	8.49	1.56	1.46
1	N	202	ASP	CG-OD2	8.49	1.41	1.25
1	C	135	TYR	CA-C	-8.49	1.41	1.52
1	E	392	HIS	C-O	8.49	1.35	1.23
1	D	117	ILE	C-O	8.48	1.32	1.24
1	H	181	GLN	CG-CD	8.48	1.73	1.52
1	L	323	ILE	CA-C	-8.48	1.44	1.53
1	G	222	LEU	CA-C	8.48	1.64	1.52
1	K	30	ARG	CA-C	-8.48	1.42	1.52
1	G	167	GLU	N-CA	-8.47	1.35	1.45
1	O	290	ASN	C-O	8.47	1.35	1.23
1	D	325	TRP	CA-C	8.47	1.63	1.52
1	C	59	LYS	CD-CE	8.47	1.77	1.52
1	A	21	VAL	CA-C	-8.46	1.42	1.52
1	D	30	ARG	N-CA	-8.46	1.35	1.46
1	H	251	ARG	CA-C	8.46	1.64	1.52
1	H	361	LYS	CB-CG	8.46	1.77	1.52
1	J	285	ASN	C-O	8.46	1.34	1.23
1	K	457	ALA	CA-CB	-8.46	1.39	1.53
1	O	173	SER	CA-CB	8.45	1.66	1.53
1	D	168	HIS	C-O	8.45	1.34	1.24
1	B	441	LEU	CG-CD2	8.44	1.80	1.52
1	N	32	ASN	CG-OD1	8.44	1.39	1.23
1	E	65	VAL	CA-C	-8.44	1.42	1.52
1	I	346	ALA	C-O	8.44	1.33	1.24
1	C	396	SER	CA-C	8.44	1.64	1.52
1	F	154	THR	CA-C	-8.44	1.42	1.52
1	J	148	SER	N-CA	8.44	1.56	1.45
1	J	237	MET	CA-C	8.44	1.64	1.52
1	J	86	PRO	CA-C	8.44	1.64	1.52
1	A	268	GLY	C-O	8.43	1.35	1.23
1	C	109	ARG	CA-C	-8.43	1.42	1.52
1	F	255	MET	N-CA	8.43	1.55	1.46
1	N	114	GLY	N-CA	8.43	1.54	1.45
1	D	456	SER	N-CA	8.43	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	47	HIS	C-N	-8.43	1.25	1.34
1	K	308	ASN	CA-C	-8.43	1.41	1.52
1	A	73	PHE	CA-C	8.42	1.63	1.52
1	J	75	ILE	C-O	8.42	1.34	1.24
1	N	391	ILE	C-O	8.42	1.34	1.24
1	D	368	GLU	CA-C	8.42	1.61	1.52
1	O	314	GLN	C-O	8.42	1.33	1.24
1	G	55	PRO	CA-C	8.41	1.64	1.52
1	O	312	TRP	C-O	8.41	1.34	1.24
1	J	31	THR	C-O	-8.41	1.12	1.23
1	G	233	ASP	C-O	8.41	1.35	1.23
1	B	40	SER	C-O	8.40	1.33	1.24
1	F	114	GLY	N-CA	8.40	1.57	1.45
1	L	71	ARG	C-O	8.40	1.33	1.23
1	F	55	PRO	CA-C	8.40	1.64	1.52
1	I	163	PRO	CA-CB	-8.40	1.46	1.54
1	G	380	LYS	N-CA	-8.39	1.36	1.46
1	I	153	GLN	N-CA	8.39	1.56	1.46
1	A	147	ILE	N-CA	-8.39	1.37	1.46
1	D	32	ASN	CG-OD1	8.39	1.39	1.23
1	J	136	ALA	C-O	8.39	1.34	1.23
1	D	380	LYS	CD-CE	8.38	1.77	1.52
1	H	312	TRP	CA-CB	-8.38	1.42	1.53
1	J	219	GLU	C-O	-8.38	1.12	1.24
1	K	195	ILE	CA-C	-8.38	1.45	1.53
1	O	200	MET	SD-CE	8.38	2.00	1.79
1	B	323	ILE	C-O	8.38	1.35	1.23
1	I	204	GLY	C-O	8.38	1.35	1.23
1	G	287	ALA	C-O	8.37	1.34	1.23
1	B	114	GLY	N-CA	8.37	1.55	1.45
1	H	101	ALA	C-O	8.37	1.34	1.23
1	N	356	LYS	C-O	-8.36	1.13	1.23
1	L	117	ILE	CG1-CD1	8.36	1.84	1.51
1	N	355	TYR	C-O	8.36	1.34	1.23
1	B	67	GLY	CA-C	8.35	1.63	1.51
1	G	55	PRO	C-O	8.35	1.34	1.24
1	H	312	TRP	C-O	-8.35	1.13	1.24
1	J	88	THR	CB-CG2	8.35	1.80	1.52
1	O	173	SER	C-O	8.35	1.34	1.24
1	F	20	ALA	N-CA	8.34	1.62	1.46
1	J	86	PRO	C-O	8.34	1.34	1.24
1	J	149	MET	C-O	-8.34	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	299	MET	C-O	-8.33	1.13	1.24
1	A	290	ASN	C-O	8.33	1.34	1.23
1	D	305	GLN	CG-CD	8.32	1.72	1.52
1	H	367	GLY	N-CA	8.32	1.54	1.45
1	I	172	GLY	C-O	8.32	1.35	1.23
1	E	398	ILE	C-O	8.32	1.33	1.24
1	J	224	ILE	C-O	-8.32	1.16	1.24
1	K	21	VAL	N-CA	-8.32	1.35	1.46
1	C	178	VAL	CB-CG1	8.31	1.79	1.52
1	F	119	GLY	C-O	-8.31	1.15	1.23
1	D	362	GLU	C-O	8.31	1.34	1.24
1	G	96	GLN	C-O	8.31	1.33	1.23
1	H	208	MET	N-CA	-8.31	1.35	1.46
1	D	109	ARG	CD-NE	8.30	1.57	1.46
1	O	398	ILE	CG1-CD1	8.30	1.84	1.51
1	E	375	ILE	CA-CB	-8.30	1.43	1.54
1	N	269	GLU	CA-C	-8.30	1.42	1.52
1	O	307	PHE	C-O	8.30	1.34	1.23
1	H	142	ASP	C-O	8.30	1.34	1.24
1	A	171	LYS	CA-C	-8.30	1.42	1.52
1	B	177	GLN	CD-OE1	8.30	1.39	1.23
1	L	63	PRO	C-O	8.30	1.34	1.24
1	F	277	ILE	N-CA	-8.29	1.36	1.46
1	G	280	SER	CB-OG	8.29	1.58	1.42
1	I	242	TYR	N-CA	-8.29	1.35	1.46
1	G	310	PRO	C-O	8.29	1.32	1.23
1	H	46	GLY	N-CA	8.29	1.54	1.44
1	B	70	TYR	CG-CD2	-8.29	1.22	1.39
1	O	38	GLY	C-O	8.29	1.35	1.23
1	H	30	ARG	N-CA	-8.28	1.36	1.46
1	I	199	ASP	CG-OD1	8.28	1.41	1.25
1	K	284	ALA	CA-CB	-8.28	1.39	1.53
1	N	367	GLY	N-CA	8.28	1.53	1.44
1	C	158	LEU	C-O	8.28	1.34	1.23
1	D	146	CYS	C-O	8.28	1.33	1.24
1	G	222	LEU	C-O	8.28	1.34	1.24
1	J	174	PRO	C-O	8.28	1.34	1.24
1	O	255	MET	SD-CE	8.28	2.00	1.79
1	M	187	PRO	CA-C	-8.27	1.44	1.52
1	H	363	TYR	C-O	8.27	1.33	1.23
1	D	153	GLN	CA-CB	8.27	1.62	1.52
1	M	175	CYS	C-O	8.27	1.33	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	449	VAL	C-O	8.27	1.32	1.24
1	C	156	LEU	CA-C	8.27	1.62	1.52
1	C	345	CYS	CA-C	-8.27	1.42	1.52
1	G	467	LYS	CE-NZ	8.27	1.74	1.49
1	L	270	ASN	CA-C	-8.26	1.42	1.52
1	A	197	ASP	C-O	-8.26	1.13	1.23
1	L	177	GLN	CD-OE1	8.26	1.39	1.23
1	E	188	LEU	C-O	-8.25	1.12	1.23
1	G	216	ASN	CG-ND2	8.25	1.50	1.33
1	O	374	PHE	CA-C	8.24	1.62	1.52
1	B	359	ASN	CA-C	8.24	1.63	1.52
1	D	151	TYR	C-O	8.24	1.34	1.24
1	G	98	LEU	CA-C	8.24	1.63	1.52
1	H	145	GLU	C-O	8.24	1.34	1.23
1	D	173	SER	C-O	8.24	1.34	1.24
1	D	381	ILE	CG1-CD1	8.24	1.83	1.51
1	K	165	ILE	CG1-CD1	8.24	1.83	1.51
1	O	230	LYS	CE-NZ	8.24	1.74	1.49
1	N	247	PHE	N-CA	-8.23	1.35	1.45
1	F	269	GLU	C-O	-8.23	1.13	1.23
1	B	361	LYS	C-O	8.22	1.33	1.23
1	N	83	PHE	C-O	8.22	1.33	1.23
1	N	368	GLU	C-O	8.22	1.34	1.23
1	M	187	PRO	N-CA	8.22	1.55	1.47
1	G	49	TYR	C-O	8.22	1.35	1.23
1	F	158	LEU	C-O	8.21	1.34	1.24
1	F	465	GLY	C-O	-8.21	1.14	1.23
1	H	270	ASN	C-O	-8.21	1.13	1.23
1	M	140	GLY	N-CA	8.21	1.57	1.45
1	F	277	ILE	C-O	-8.21	1.14	1.23
1	A	75	ILE	C-O	8.21	1.33	1.24
1	L	130	GLU	CA-C	-8.21	1.42	1.52
1	J	315	ARG	C-O	8.20	1.36	1.23
1	L	105	VAL	CA-C	-8.20	1.42	1.52
1	L	200	MET	CA-C	-8.20	1.42	1.52
1	N	446	PHE	CA-C	-8.20	1.42	1.52
1	D	55	PRO	CA-C	8.20	1.64	1.52
1	K	353	THR	C-O	8.20	1.34	1.24
1	M	132	ALA	CA-CB	8.20	1.68	1.54
1	A	356	LYS	CE-NZ	8.20	1.74	1.49
1	A	186	PRO	CA-C	8.20	1.59	1.52
1	B	213	LEU	CA-CB	-8.20	1.42	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	315	ARG	CZ-NH2	8.19	1.44	1.33
1	H	149	MET	CA-C	-8.19	1.43	1.53
1	I	63	PRO	N-CD	8.19	1.59	1.47
1	K	293	PRO	CA-C	-8.19	1.40	1.52
1	G	44	ALA	N-CA	8.19	1.56	1.46
1	J	97	ARG	NE-CZ	8.19	1.42	1.33
1	E	228	ILE	CG1-CD1	8.19	1.83	1.51
1	J	98	LEU	C-O	8.19	1.33	1.23
1	J	147	ILE	CA-CB	-8.19	1.42	1.55
1	K	463	PRO	C-O	-8.19	1.13	1.24
1	M	215	ALA	CA-CB	8.19	1.66	1.53
1	A	263	ARG	N-CA	8.19	1.56	1.46
1	E	88	THR	C-O	8.19	1.32	1.24
1	F	23	SER	N-CA	8.19	1.56	1.46
1	L	282	SER	CA-C	8.19	1.63	1.52
1	N	281	GLY	CA-C	8.19	1.62	1.51
1	D	220	VAL	C-O	-8.18	1.14	1.24
1	F	45	VAL	N-CA	8.18	1.56	1.46
1	L	204	GLY	C-O	-8.18	1.12	1.24
1	H	402	TRP	C-O	8.18	1.33	1.23
1	M	295	PRO	C-O	-8.18	1.13	1.24
1	M	323	ILE	CA-C	-8.18	1.45	1.53
1	A	67	GLY	CA-C	8.17	1.63	1.51
1	G	292	PHE	CA-C	8.17	1.60	1.52
1	H	109	ARG	CD-NE	8.17	1.57	1.46
1	E	139	ALA	CA-CB	8.17	1.63	1.53
1	N	452	LYS	N-CA	-8.16	1.36	1.46
1	O	32	ASN	C-O	8.16	1.34	1.24
1	M	64	LYS	N-CA	-8.16	1.35	1.46
1	F	22	VAL	C-O	8.15	1.32	1.23
1	G	208	MET	C-O	8.15	1.34	1.24
1	H	293	PRO	N-CA	-8.15	1.36	1.47
1	A	168	HIS	N-CA	8.15	1.56	1.46
1	G	141	VAL	C-O	8.15	1.32	1.24
1	K	367	GLY	N-CA	8.15	1.52	1.44
1	M	71	ARG	C-O	-8.15	1.12	1.23
1	M	157	CYS	C-O	-8.15	1.14	1.23
1	N	93	PRO	CA-CB	8.15	1.65	1.53
1	C	263	ARG	NE-CZ	-8.14	1.24	1.33
1	N	91	TYR	C-O	8.14	1.34	1.23
1	C	55	PRO	CA-C	8.14	1.64	1.52
1	L	105	VAL	N-CA	-8.14	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	370	TYR	N-CA	8.13	1.55	1.45
1	C	225	CYS	C-O	8.13	1.34	1.24
1	K	138	ASN	C-O	8.12	1.34	1.24
1	C	396	SER	C-O	8.12	1.33	1.24
1	G	225	CYS	C-O	8.12	1.34	1.24
1	I	150	ASP	C-O	8.12	1.33	1.24
1	F	86	PRO	CA-C	8.11	1.64	1.52
1	L	365	ARG	CZ-NH2	-8.11	1.23	1.33
1	B	70	TYR	C-O	-8.11	1.14	1.23
1	J	25	ASP	CG-OD2	8.11	1.40	1.25
1	J	398	ILE	CA-CB	-8.11	1.43	1.54
1	N	376	PHE	C-O	8.11	1.33	1.24
1	F	262	ASN	C-O	8.10	1.33	1.24
1	O	179	ALA	CA-C	8.10	1.63	1.52
1	H	28	VAL	C-O	8.10	1.34	1.23
1	A	159	ILE	C-O	8.10	1.32	1.24
1	E	460	ASP	C-O	-8.09	1.13	1.24
1	E	227	SER	C-O	8.09	1.34	1.23
1	M	139	ALA	C-N	8.09	1.45	1.33
1	O	256	PHE	CB-CG	8.09	1.69	1.50
1	C	54	LYS	CE-NZ	8.09	1.73	1.49
1	E	117	ILE	CG1-CD1	8.09	1.83	1.51
1	D	104	GLY	CA-C	-8.09	1.44	1.51
1	D	389	THR	N-CA	8.09	1.56	1.46
1	H	103	VAL	C-O	8.09	1.34	1.24
1	A	310	PRO	CA-CB	-8.08	1.43	1.53
1	H	385	ALA	CA-CB	8.08	1.63	1.53
1	J	332	THR	C-O	-8.08	1.14	1.24
1	J	132	ALA	CA-CB	8.08	1.66	1.53
1	M	201	VAL	CA-CB	-8.08	1.43	1.54
1	K	186	PRO	C-O	-8.08	1.15	1.24
1	E	228	ILE	CA-CB	-8.08	1.44	1.54
1	M	23	SER	C-O	-8.08	1.14	1.23
1	J	115	VAL	CA-CB	-8.08	1.44	1.54
1	D	64	LYS	CB-CG	8.07	1.76	1.52
1	E	199	ASP	CG-OD2	8.07	1.40	1.25
1	J	35	TYR	C-O	8.07	1.34	1.23
1	B	138	ASN	C-O	8.07	1.34	1.24
1	F	471	GLN	C-O	8.07	1.34	1.24
1	H	277	ILE	CG1-CD1	8.07	1.83	1.51
1	F	49	TYR	N-CA	-8.07	1.36	1.46
1	K	385	ALA	CA-CB	8.07	1.66	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	216	ASN	N-CA	-8.06	1.36	1.46
1	N	279	GLY	C-O	-8.06	1.13	1.23
1	B	156	LEU	CA-C	-8.06	1.42	1.52
1	D	271	VAL	C-O	-8.06	1.14	1.24
1	B	390	TYR	N-CA	8.06	1.55	1.46
1	H	346	ALA	CA-CB	8.06	1.67	1.53
1	A	183	GLY	C-O	8.06	1.34	1.23
1	N	115	VAL	C-O	-8.06	1.15	1.24
1	O	194	VAL	CA-CB	-8.05	1.44	1.54
1	D	381	ILE	CA-CB	-8.05	1.43	1.54
1	I	34	TYR	C-O	8.05	1.33	1.23
1	N	112	PRO	CG-CD	8.05	1.78	1.50
1	F	34	TYR	C-O	8.05	1.33	1.24
1	M	138	ASN	N-CA	8.05	1.56	1.46
1	C	77	LEU	CG-CD2	8.05	1.79	1.52
1	I	277	ILE	CA-CB	-8.04	1.41	1.55
1	J	91	TYR	C-O	8.04	1.33	1.23
1	J	256	PHE	CA-C	-8.04	1.43	1.52
1	B	395	ASN	CA-C	-8.04	1.45	1.53
1	E	121	PRO	C-O	-8.04	1.14	1.24
1	I	369	GLU	CB-CG	8.04	1.76	1.52
1	N	59	LYS	C-O	8.04	1.33	1.24
1	F	472	LEU	N-CA	8.04	1.61	1.46
1	A	445	THR	C-O	8.04	1.33	1.23
1	B	224	ILE	CA-CB	8.03	1.65	1.54
1	J	95	THR	N-CA	8.04	1.56	1.46
1	J	255	MET	N-CA	8.03	1.56	1.46
1	B	163	PRO	C-O	8.03	1.31	1.24
1	B	294	THR	N-CA	-8.03	1.34	1.45
1	B	394	MET	SD-CE	8.03	1.99	1.79
1	K	356	LYS	N-CA	-8.02	1.36	1.46
1	K	452	LYS	CG-CD	8.02	1.76	1.52
1	B	159	ILE	CA-CB	-8.02	1.44	1.54
1	G	250	LEU	C-O	8.02	1.33	1.23
1	I	150	ASP	CG-OD2	8.02	1.40	1.25
1	K	31	THR	CA-CB	-8.02	1.41	1.53
1	F	146	CYS	C-O	-8.01	1.13	1.23
1	G	265	GLY	N-CA	8.01	1.54	1.45
1	H	87	ASP	C-O	8.01	1.33	1.23
1	F	230	LYS	C-O	8.01	1.33	1.24
1	I	116	GLY	C-O	8.01	1.36	1.23
1	F	43	LEU	C-O	8.01	1.34	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	60	ILE	CA-CB	8.00	1.62	1.53
1	L	116	GLY	C-O	8.00	1.35	1.23
1	L	471	GLN	CB-CG	-8.00	1.28	1.52
1	L	394	MET	SD-CE	8.00	1.99	1.79
1	G	202	ASP	CG-OD1	8.00	1.40	1.25
1	G	51	PRO	CB-CG	7.99	1.89	1.49
1	H	349	SER	CA-C	-7.99	1.42	1.52
1	N	261	PHE	N-CA	-7.99	1.35	1.45
1	K	332	THR	C-O	-7.99	1.13	1.23
1	O	156	LEU	C-O	7.99	1.33	1.23
1	E	323	ILE	N-CA	-7.98	1.36	1.46
1	N	468	PHE	C-O	7.98	1.34	1.24
1	I	190	LEU	C-O	-7.98	1.14	1.24
1	M	366	HIS	CA-C	-7.98	1.42	1.52
1	C	467	LYS	CE-NZ	7.98	1.73	1.49
1	E	138	ASN	C-O	7.98	1.34	1.24
1	H	59	LYS	CD-CE	7.98	1.76	1.52
1	J	211	THR	CA-CB	-7.98	1.39	1.53
1	H	164	PRO	C-O	-7.97	1.14	1.23
1	B	214	GLN	CA-CB	7.97	1.65	1.53
1	B	378	LEU	CA-C	-7.97	1.42	1.52
1	F	272	PRO	CA-C	-7.97	1.42	1.52
1	I	251	ARG	CA-C	7.97	1.62	1.52
1	L	342	MET	SD-CE	7.97	1.99	1.79
1	E	343	SER	CA-C	-7.96	1.42	1.52
1	G	352	GLU	C-O	7.96	1.34	1.24
1	I	21	VAL	CA-C	-7.96	1.42	1.52
1	J	472	LEU	N-CA	7.96	1.61	1.46
1	G	333	VAL	CB-CG2	-7.96	1.26	1.52
1	H	343	SER	C-O	7.96	1.33	1.23
1	I	181	GLN	C-O	7.96	1.32	1.24
1	N	398	ILE	CA-CB	7.96	1.65	1.54
1	L	235	ILE	CA-C	-7.96	1.42	1.52
1	A	243	GLY	C-O	7.95	1.33	1.24
1	O	249	TYR	CA-C	7.95	1.62	1.52
1	C	208	MET	C-O	7.95	1.33	1.24
1	I	115	VAL	N-CA	-7.95	1.36	1.46
1	J	180	VAL	CB-CG2	7.95	1.78	1.52
1	F	248	PHE	C-O	7.94	1.32	1.23
1	N	264	ALA	CA-CB	-7.94	1.41	1.53
1	N	63	PRO	C-O	7.94	1.34	1.24
1	J	464	LEU	C-O	-7.94	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	30	ARG	C-O	-7.93	1.14	1.24
1	J	293	PRO	CA-C	-7.93	1.41	1.52
1	L	168	HIS	C-O	-7.93	1.14	1.24
1	I	201	VAL	CB-CG1	-7.93	1.26	1.52
1	K	132	ALA	CA-CB	-7.93	1.38	1.53
1	K	295	PRO	N-CA	-7.93	1.37	1.47
1	C	162	LYS	C-O	7.93	1.32	1.23
1	H	190	LEU	CA-C	-7.93	1.42	1.52
1	K	247	PHE	CA-C	-7.93	1.42	1.52
1	L	144	ARG	CD-NE	-7.93	1.35	1.46
1	C	181	GLN	CD-OE1	7.93	1.38	1.23
1	K	178	VAL	C-O	7.93	1.33	1.24
1	N	267	VAL	C-O	-7.93	1.15	1.24
1	F	383	LEU	CG-CD2	7.92	1.78	1.52
1	K	192	ASN	CA-C	-7.92	1.42	1.52
1	B	55	PRO	C-O	7.92	1.34	1.24
1	C	285	ASN	N-CA	-7.92	1.36	1.46
1	L	129	THR	N-CA	-7.91	1.35	1.46
1	L	235	ILE	C-O	-7.91	1.14	1.24
1	G	121	PRO	C-O	-7.91	1.15	1.24
1	I	132	ALA	CA-CB	-7.91	1.42	1.53
1	K	282	SER	C-O	7.91	1.33	1.24
1	H	224	ILE	C-O	7.91	1.33	1.24
1	H	179	ALA	CA-CB	7.91	1.66	1.53
1	J	181	GLN	C-O	7.91	1.33	1.24
1	G	72	VAL	CA-C	7.90	1.61	1.53
1	I	255	MET	SD-CE	7.90	1.99	1.79
1	O	141	VAL	C-O	7.90	1.31	1.24
1	H	151	TYR	N-CA	-7.90	1.35	1.46
1	J	300	VAL	CB-CG1	7.90	1.78	1.52
1	A	387	VAL	C-O	7.89	1.33	1.24
1	D	100	TRP	CG-CD1	-7.89	1.17	1.36
1	F	184	ASP	CG-OD1	7.89	1.40	1.25
1	L	371	ASP	C-O	-7.89	1.14	1.23
1	A	392	HIS	C-O	7.89	1.34	1.24
1	B	43	LEU	CA-C	-7.89	1.42	1.52
1	D	376	PHE	CA-CB	-7.89	1.39	1.53
1	I	217	LYS	CE-NZ	7.89	1.73	1.49
1	K	178	VAL	CA-CB	7.89	1.65	1.54
1	K	472	LEU	C-OXT	7.89	1.39	1.23
1	A	178	VAL	CB-CG2	7.89	1.78	1.52
1	N	356	LYS	CE-NZ	7.88	1.73	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	237	MET	C-O	7.88	1.34	1.24
1	G	45	VAL	CA-CB	-7.88	1.44	1.54
1	B	22	VAL	N-CA	7.88	1.56	1.46
1	B	262	ASN	CA-C	7.88	1.62	1.52
1	N	105	VAL	CA-CB	-7.87	1.44	1.54
1	B	194	VAL	C-O	7.87	1.32	1.24
1	G	176	THR	N-CA	7.87	1.56	1.46
1	L	241	PRO	N-CA	7.87	1.57	1.47
1	A	280	SER	C-O	7.86	1.32	1.23
1	C	355	TYR	N-CA	-7.86	1.36	1.46
1	M	36	HIS	N-CA	7.86	1.55	1.46
1	A	160	GLY	CA-C	7.86	1.60	1.51
1	F	164	PRO	CG-CD	-7.86	1.24	1.50
1	O	288	SER	C-O	-7.86	1.14	1.24
1	G	332	THR	CB-OG1	7.86	1.56	1.43
1	L	42	LEU	CA-C	-7.86	1.43	1.52
1	B	140	GLY	CA-C	7.85	1.62	1.51
1	I	363	TYR	C-O	7.85	1.33	1.23
1	L	115	VAL	C-O	-7.85	1.16	1.24
1	D	336	THR	N-CA	-7.85	1.36	1.46
1	H	365	ARG	C-O	7.85	1.33	1.23
1	K	140	GLY	N-CA	7.85	1.56	1.45
1	I	66	SER	C-O	7.84	1.33	1.23
1	B	185	CYS	C-O	-7.84	1.14	1.24
1	B	334	VAL	CB-CG1	-7.84	1.26	1.52
1	B	462	PHE	CA-C	-7.84	1.43	1.52
1	I	363	TYR	CA-C	7.84	1.62	1.52
1	L	220	VAL	C-O	-7.84	1.14	1.24
1	O	112	PRO	C-O	7.84	1.33	1.23
1	K	96	GLN	CA-C	7.83	1.63	1.52
1	B	450	ASN	C-O	7.83	1.32	1.24
1	I	160	GLY	N-CA	7.83	1.53	1.45
1	L	201	VAL	CA-CB	-7.83	1.43	1.54
1	E	358	THR	CA-C	-7.83	1.43	1.53
1	G	343	SER	CA-C	-7.83	1.43	1.52
1	K	377	GLN	CA-C	-7.83	1.43	1.52
1	B	263	ARG	CZ-NH2	-7.82	1.23	1.33
1	D	463	PRO	N-CA	-7.82	1.37	1.47
1	H	378	LEU	CA-C	-7.82	1.42	1.52
1	F	188	LEU	C-O	-7.82	1.13	1.23
1	A	255	MET	N-CA	7.82	1.55	1.46
1	D	203	THR	C-O	7.82	1.34	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	162	LYS	CE-NZ	7.82	1.72	1.49
1	H	294	THR	C-O	7.82	1.33	1.24
1	H	201	VAL	C-O	-7.81	1.14	1.24
1	N	382	THR	CB-CG2	7.81	1.78	1.52
1	H	157	CYS	C-O	7.81	1.33	1.23
1	E	250	LEU	C-O	7.81	1.33	1.23
1	K	102	CYS	CA-C	-7.81	1.43	1.52
1	K	277	ILE	C-O	-7.81	1.16	1.24
1	C	335	ASP	C-O	-7.81	1.14	1.24
1	H	81	ASN	C-O	-7.81	1.12	1.24
1	H	380	LYS	CD-CE	7.81	1.75	1.52
1	M	272	PRO	N-CA	-7.80	1.37	1.47
1	K	68	LEU	C-O	-7.80	1.15	1.24
1	A	150	ASP	CA-C	-7.80	1.44	1.53
1	K	463	PRO	CA-C	-7.80	1.40	1.52
1	B	96	GLN	CA-C	7.79	1.61	1.52
1	D	258	ARG	C-O	-7.79	1.14	1.24
1	J	32	ASN	CA-C	-7.79	1.42	1.52
1	K	248	PHE	N-CA	7.79	1.55	1.45
1	O	235	ILE	CG1-CD1	7.79	1.82	1.51
1	E	217	LYS	C-O	7.78	1.33	1.24
1	G	98	LEU	CG-CD1	7.78	1.78	1.52
1	N	442	LYS	C-O	7.78	1.34	1.24
1	A	391	ILE	C-O	-7.78	1.14	1.24
1	G	105	VAL	CB-CG2	7.78	1.78	1.52
1	K	111	GLN	C-O	-7.78	1.14	1.24
1	A	242	TYR	CZ-OH	-7.77	1.21	1.38
1	B	257	VAL	N-CA	-7.77	1.37	1.46
1	L	221	PRO	C-O	-7.77	1.13	1.24
1	E	277	ILE	C-O	-7.77	1.15	1.24
1	F	215	ALA	CA-CB	-7.77	1.40	1.53
1	H	209	ASP	CG-OD2	7.77	1.40	1.25
1	L	439	ASP	C-N	7.77	1.43	1.34
1	D	139	ALA	C-N	7.77	1.44	1.33
1	A	159	ILE	CA-CB	-7.76	1.45	1.54
1	C	63	PRO	C-O	7.76	1.34	1.24
1	N	191	ILE	CA-CB	-7.76	1.44	1.54
1	F	218	SER	C-O	7.76	1.33	1.24
1	I	323	ILE	N-CA	-7.75	1.36	1.46
1	K	328	GLN	C-O	7.75	1.33	1.23
1	O	164	PRO	CG-CD	7.75	1.77	1.50
1	A	64	LYS	CB-CG	7.75	1.75	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	180	VAL	CA-C	-7.75	1.43	1.52
1	D	213	LEU	CA-C	7.75	1.63	1.52
1	J	138	ASN	N-CA	7.75	1.56	1.46
1	L	142	ASP	C-O	-7.75	1.14	1.24
1	H	268	GLY	C-O	7.75	1.34	1.23
1	H	197	ASP	C-O	-7.75	1.14	1.23
1	L	247	PHE	CE2-CZ	-7.75	1.15	1.38
1	L	451	LEU	CA-C	-7.75	1.41	1.52
1	C	208	MET	CA-C	7.75	1.63	1.52
1	F	293	PRO	CA-CB	-7.75	1.42	1.53
1	K	296	SER	CA-C	7.75	1.61	1.53
1	A	266	THR	CA-C	-7.75	1.42	1.53
1	A	304	ALA	CA-CB	-7.75	1.32	1.54
1	B	319	HIS	C-O	-7.74	1.15	1.24
1	A	308	ASN	CA-CB	7.74	1.64	1.53
1	B	134	ALA	C-O	-7.74	1.14	1.23
1	F	66	SER	C-O	7.74	1.33	1.23
1	N	181	GLN	CD-OE1	7.74	1.38	1.23
1	I	64	LYS	C-O	7.74	1.33	1.24
1	J	259	HIS	N-CA	7.74	1.55	1.45
1	A	349	SER	CA-C	-7.74	1.42	1.52
1	C	112	PRO	CA-C	7.73	1.62	1.52
1	O	177	GLN	CG-CD	7.73	1.71	1.52
1	K	56	ASN	CA-C	7.73	1.60	1.52
1	C	22	VAL	CA-CB	-7.73	1.44	1.55
1	F	266	THR	C-O	-7.73	1.14	1.23
1	O	375	ILE	C-O	7.73	1.32	1.24
1	G	127	ASP	C-O	7.72	1.33	1.23
1	K	354	THR	CA-CB	-7.72	1.39	1.53
1	M	306	ILE	CA-CB	-7.72	1.45	1.54
1	O	177	GLN	CD-OE1	7.72	1.38	1.23
1	D	362	GLU	CA-CB	-7.72	1.41	1.53
1	G	163	PRO	CA-C	7.72	1.56	1.51
1	L	244	ASP	N-CA	7.72	1.56	1.46
1	L	73	PHE	CE1-CZ	7.72	1.61	1.38
1	L	290	ASN	CG-OD1	-7.72	1.08	1.23
1	D	258	ARG	CZ-NH2	-7.72	1.23	1.33
1	H	250	LEU	C-O	7.72	1.33	1.23
1	E	272	PRO	N-CA	-7.71	1.38	1.47
1	F	99	VAL	N-CA	7.71	1.54	1.46
1	F	220	VAL	CA-C	-7.71	1.44	1.52
1	L	76	HIS	N-CA	-7.70	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	455	PHE	C-O	-7.70	1.14	1.23
1	N	113	LEU	C-O	7.70	1.34	1.23
1	A	344	LEU	CA-C	-7.70	1.42	1.52
1	N	173	SER	CA-C	7.70	1.62	1.52
1	E	368	GLU	CD-OE1	7.69	1.40	1.25
1	J	362	GLU	C-O	7.69	1.33	1.24
1	D	384	THR	CA-CB	7.69	1.65	1.53
1	H	200	MET	SD-CE	7.69	1.98	1.79
1	A	91	TYR	C-O	7.69	1.33	1.23
1	E	165	ILE	CG1-CD1	7.68	1.81	1.51
1	H	152	LYS	CE-NZ	7.68	1.72	1.49
1	L	44	ALA	CA-C	7.68	1.61	1.52
1	O	107	VAL	N-CA	7.68	1.55	1.46
1	A	390	TYR	C-O	7.68	1.32	1.24
1	D	282	SER	CA-C	7.68	1.63	1.52
1	E	65	VAL	C-O	-7.68	1.15	1.24
1	C	454	LYS	C-O	7.68	1.34	1.23
1	D	228	ILE	C-O	7.68	1.32	1.24
1	B	205	PHE	N-CA	-7.68	1.37	1.46
1	D	181	GLN	CD-OE1	7.68	1.38	1.23
1	L	372	LEU	CB-CG	7.68	1.68	1.53
1	B	272	PRO	C-O	-7.67	1.15	1.23
1	D	293	PRO	CA-CB	-7.67	1.42	1.53
1	F	154	THR	CB-CG2	7.67	1.77	1.52
1	M	362	GLU	C-O	7.67	1.33	1.24
1	N	203	THR	CA-CB	-7.67	1.42	1.54
1	N	319	HIS	N-CA	-7.67	1.37	1.46
1	O	450	ASN	N-CA	7.67	1.56	1.46
1	B	165	ILE	CA-CB	-7.67	1.43	1.54
1	E	439	ASP	CA-C	7.67	1.61	1.52
1	F	271	VAL	N-CA	-7.67	1.37	1.47
1	A	360	PHE	C-O	-7.66	1.14	1.23
1	G	172	GLY	N-CA	7.66	1.56	1.45
1	O	81	ASN	CG-ND2	7.66	1.49	1.33
1	E	55	PRO	CA-C	7.66	1.63	1.52
1	A	206	GLY	N-CA	7.66	1.52	1.45
1	D	53	LYS	CB-CG	7.66	1.75	1.52
1	A	142	ASP	CA-C	7.66	1.63	1.52
1	H	57	ASN	C-O	7.66	1.34	1.23
1	I	163	PRO	CA-C	7.66	1.57	1.52
1	N	338	ARG	CG-CD	7.66	1.75	1.52
1	H	157	CYS	CB-SG	-7.65	1.55	1.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	178	VAL	CB-CG1	7.65	1.77	1.52
1	M	180	VAL	C-O	7.65	1.33	1.24
1	N	317	GLN	CG-CD	7.65	1.71	1.52
1	C	314	GLN	CD-OE1	7.64	1.38	1.23
1	D	31	THR	CA-C	-7.64	1.43	1.53
1	D	320	ASN	CA-C	-7.64	1.42	1.53
1	J	219	GLU	CD-OE1	7.64	1.39	1.25
1	D	47	HIS	C-O	-7.64	1.15	1.24
1	I	115	VAL	C-O	-7.64	1.15	1.24
1	L	155	GLN	CB-CG	-7.64	1.29	1.52
1	L	309	LYS	CD-CE	7.64	1.75	1.52
1	C	130	GLU	CA-C	7.63	1.63	1.52
1	A	311	TYR	C-O	-7.63	1.15	1.24
1	L	24	THR	C-O	7.62	1.33	1.24
1	J	439	ASP	C-N	7.62	1.43	1.33
1	E	154	THR	C-O	7.62	1.32	1.23
1	J	241	PRO	C-O	7.62	1.33	1.24
1	M	113	LEU	C-N	-7.62	1.25	1.33
1	M	75	ILE	C-O	7.62	1.33	1.24
1	F	165	ILE	CA-CB	-7.62	1.45	1.54
1	H	466	ARG	NE-CZ	7.62	1.41	1.33
1	D	362	GLU	N-CA	-7.61	1.36	1.46
1	L	251	ARG	C-O	7.61	1.33	1.23
1	E	95	THR	CA-CB	7.61	1.66	1.53
1	A	373	GLN	C-O	-7.61	1.15	1.24
1	F	32	ASN	CB-CG	7.61	1.71	1.52
1	K	178	VAL	CB-CG1	7.61	1.77	1.52
1	B	300	VAL	C-O	-7.60	1.16	1.24
1	M	152	LYS	C-O	-7.60	1.15	1.23
1	G	471	GLN	CA-C	7.60	1.56	1.52
1	J	262	ASN	N-CA	-7.60	1.37	1.46
1	L	272	PRO	N-CD	7.60	1.58	1.47
1	N	38	GLY	C-O	7.60	1.34	1.23
1	L	291	TYR	CG-CD2	-7.60	1.23	1.39
1	G	219	GLU	CD-OE1	7.60	1.39	1.25
1	O	149	MET	CG-SD	7.60	1.99	1.80
1	A	334	VAL	C-O	-7.59	1.16	1.24
1	F	140	GLY	CA-C	7.59	1.62	1.51
1	H	292	PHE	C-O	-7.59	1.16	1.24
1	O	48	PRO	CG-CD	-7.59	1.25	1.50
1	D	80	PRO	CG-CD	7.59	1.76	1.50
1	J	92	ASN	CB-CG	7.58	1.71	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	286	LEU	CA-C	7.58	1.62	1.52
1	B	52	ILE	CA-CB	7.58	1.63	1.53
1	A	344	LEU	N-CA	-7.58	1.36	1.46
1	O	364	LEU	CA-C	7.58	1.62	1.52
1	F	214	GLN	C-O	7.58	1.32	1.23
1	J	28	VAL	CA-C	-7.57	1.43	1.52
1	J	105	VAL	CB-CG2	7.57	1.77	1.52
1	J	155	GLN	N-CA	7.57	1.55	1.46
1	L	333	VAL	CB-CG1	-7.57	1.27	1.52
1	B	61	LEU	CG-CD1	7.57	1.77	1.52
1	F	139	ALA	C-O	7.57	1.34	1.23
1	G	328	GLN	C-O	7.57	1.33	1.23
1	A	381	ILE	CB-CG2	7.57	1.77	1.52
1	M	270	ASN	C-O	-7.57	1.14	1.23
1	N	258	ARG	N-CA	7.57	1.55	1.46
1	M	95	THR	CA-C	-7.57	1.42	1.52
1	E	364	LEU	C-O	7.56	1.33	1.24
1	A	118	SER	CA-C	-7.56	1.43	1.52
1	D	350	THR	N-CA	7.56	1.55	1.46
1	O	322	GLY	N-CA	7.56	1.56	1.45
1	B	82	LYS	CB-CG	7.56	1.75	1.52
1	C	262	ASN	C-O	-7.56	1.15	1.24
1	D	24	THR	CA-CB	-7.55	1.40	1.53
1	D	370	TYR	CA-C	7.55	1.63	1.53
1	G	270	ASN	CA-C	-7.55	1.43	1.52
1	K	78	PRO	CA-C	-7.55	1.43	1.52
1	N	152	LYS	CE-NZ	-7.55	1.26	1.49
1	B	255	MET	CA-C	7.55	1.61	1.52
1	D	250	LEU	C-O	7.55	1.32	1.23
1	B	215	ALA	N-CA	7.55	1.56	1.46
1	D	159	ILE	CB-CG2	-7.55	1.27	1.52
1	C	295	PRO	C-O	-7.55	1.11	1.23
1	J	330	PHE	C-O	7.55	1.33	1.23
1	M	441	LEU	CG-CD2	7.55	1.77	1.52
1	E	337	THR	CA-CB	-7.54	1.40	1.53
1	K	456	SER	CB-OG	7.54	1.57	1.42
1	M	336	THR	C-O	7.54	1.34	1.24
1	J	207	ALA	CA-CB	-7.54	1.40	1.53
1	O	22	VAL	CA-CB	-7.54	1.47	1.55
1	C	353	THR	CB-CG2	7.54	1.77	1.52
1	B	171	LYS	CG-CD	7.54	1.75	1.52
1	B	250	LEU	C-O	7.54	1.33	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	219	GLU	C-O	-7.54	1.14	1.24
1	I	373	GLN	C-O	7.53	1.33	1.23
1	D	286	LEU	CA-CB	-7.53	1.40	1.53
1	O	29	ALA	C-O	7.53	1.33	1.24
1	F	455	PHE	CA-C	-7.53	1.43	1.53
1	I	49	TYR	C-O	7.53	1.35	1.23
1	M	344	LEU	C-O	7.53	1.33	1.23
1	G	458	ASP	CA-C	7.52	1.62	1.52
1	H	255	MET	N-CA	7.52	1.55	1.46
1	J	294	THR	CA-C	-7.52	1.42	1.52
1	A	356	LYS	N-CA	-7.52	1.37	1.46
1	D	201	VAL	C-O	7.52	1.33	1.24
1	J	177	GLN	CA-C	7.52	1.62	1.52
1	K	320	ASN	C-O	-7.52	1.13	1.23
1	D	174	PRO	N-CA	7.51	1.56	1.47
1	K	70	TYR	C-O	-7.51	1.15	1.24
1	O	176	THR	CB-CG2	7.51	1.77	1.52
1	C	148	SER	CA-C	-7.51	1.43	1.52
1	E	107	VAL	CA-CB	-7.51	1.45	1.53
1	K	362	GLU	CD-OE1	7.51	1.39	1.25
1	D	158	LEU	C-O	7.51	1.33	1.24
1	D	265	GLY	C-O	-7.51	1.16	1.23
1	N	57	ASN	CG-ND2	7.51	1.49	1.33
1	O	133	SER	CA-C	7.50	1.62	1.52
1	F	118	SER	C-O	7.50	1.32	1.23
1	J	178	VAL	CB-CG1	7.50	1.77	1.52
1	K	266	THR	CB-CG2	7.50	1.77	1.52
1	M	58	ASN	C-O	7.50	1.34	1.23
1	I	89	SER	C-O	7.50	1.33	1.24
1	O	108	GLY	N-CA	7.50	1.56	1.45
1	D	168	HIS	CA-C	7.50	1.62	1.52
1	H	224	ILE	CB-CG2	-7.50	1.27	1.52
1	I	68	LEU	N-CA	-7.49	1.38	1.46
1	L	372	LEU	CA-CB	7.49	1.65	1.53
1	F	112	PRO	C-O	7.49	1.33	1.23
1	N	376	PHE	N-CA	-7.49	1.36	1.46
1	O	270	ASN	CA-C	-7.49	1.43	1.52
1	B	216	ASN	C-N	-7.49	1.23	1.33
1	B	271	VAL	C-N	-7.49	1.23	1.33
1	E	107	VAL	N-CA	7.49	1.54	1.46
1	G	325	TRP	CA-C	7.49	1.62	1.52
1	I	126	LEU	CA-C	-7.48	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	322	GLY	C-O	7.48	1.34	1.23
1	L	200	MET	C-O	-7.48	1.14	1.24
1	A	157	CYS	CA-C	-7.48	1.43	1.52
1	J	262	ASN	CA-C	-7.48	1.43	1.52
1	L	64	LYS	N-CA	7.48	1.55	1.46
1	N	312	TRP	CA-CB	-7.47	1.42	1.53
1	E	87	ASP	CA-C	7.47	1.62	1.52
1	I	90	PHE	C-O	7.47	1.33	1.24
1	E	373	GLN	C-O	7.47	1.32	1.23
1	F	279	GLY	C-O	-7.47	1.13	1.23
1	I	335	ASP	CA-CB	7.47	1.62	1.52
1	K	30	ARG	CG-CD	7.47	1.74	1.52
1	J	323	ILE	C-O	7.47	1.31	1.23
1	K	95	THR	C-O	7.47	1.35	1.23
1	G	159	ILE	CA-CB	-7.46	1.45	1.54
1	M	159	ILE	CA-CB	-7.46	1.44	1.54
1	E	72	VAL	C-O	7.46	1.32	1.24
1	G	37	ALA	N-CA	-7.46	1.36	1.46
1	E	285	ASN	C-O	7.46	1.32	1.23
1	O	138	ASN	CG-ND2	7.46	1.49	1.33
1	K	51	PRO	N-CA	-7.46	1.38	1.47
1	L	468	PHE	N-CA	7.46	1.55	1.46
1	C	215	ALA	C-O	7.45	1.33	1.24
1	I	210	PHE	N-CA	7.45	1.55	1.46
1	F	251	ARG	CA-C	7.45	1.61	1.52
1	J	323	ILE	N-CA	-7.45	1.38	1.46
1	D	460	ASP	N-CA	7.45	1.55	1.46
1	F	195	ILE	N-CA	-7.45	1.37	1.46
1	I	185	CYS	C-N	7.45	1.42	1.33
1	K	60	ILE	C-O	-7.45	1.15	1.23
1	J	298	SER	N-CA	-7.45	1.35	1.45
1	J	453	GLU	CG-CD	7.45	1.70	1.52
1	H	260	LEU	N-CA	-7.45	1.36	1.46
1	I	301	THR	C-O	-7.45	1.15	1.24
1	D	460	ASP	CG-OD1	7.44	1.39	1.25
1	F	175	CYS	CB-SG	7.44	2.05	1.81
1	L	192	ASN	CA-C	7.44	1.62	1.52
1	A	368	GLU	CB-CG	-7.44	1.30	1.52
1	M	135	TYR	C-O	-7.44	1.15	1.24
1	M	178	VAL	C-O	7.44	1.32	1.24
1	I	151	TYR	CZ-OH	-7.44	1.22	1.38
1	B	159	ILE	C-O	7.44	1.32	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	355	TYR	CA-C	-7.44	1.43	1.52
1	M	86	PRO	C-N	7.44	1.42	1.33
1	A	172	GLY	C-O	7.44	1.33	1.23
1	N	55	PRO	CA-C	7.44	1.63	1.52
1	A	159	ILE	CB-CG2	-7.43	1.28	1.52
1	A	300	VAL	CB-CG1	7.43	1.77	1.52
1	I	147	ILE	CA-CB	7.43	1.66	1.54
1	J	137	ALA	N-CA	7.43	1.55	1.46
1	B	195	ILE	CA-CB	-7.43	1.45	1.53
1	H	256	PHE	CG-CD1	-7.43	1.23	1.38
1	K	270	ASN	N-CA	7.43	1.55	1.46
1	B	463	PRO	N-CA	7.43	1.57	1.47
1	N	164	PRO	C-O	-7.43	1.15	1.23
1	O	304	ALA	C-O	-7.43	1.14	1.24
1	O	333	VAL	CA-CB	-7.42	1.44	1.54
1	H	50	PHE	CA-CB	7.42	1.64	1.53
1	I	257	VAL	CB-CG1	-7.42	1.28	1.52
1	D	22	VAL	CA-CB	-7.42	1.44	1.55
1	G	193	THR	CA-C	7.42	1.62	1.52
1	A	196	GLN	C-O	-7.42	1.14	1.23
1	D	189	GLU	C-O	7.42	1.33	1.23
1	J	454	LYS	CE-NZ	7.42	1.71	1.49
1	M	131	ASN	CA-C	-7.42	1.42	1.52
1	L	33	ILE	N-CA	7.41	1.54	1.46
1	D	294	THR	CB-CG2	-7.41	1.28	1.52
1	M	359	ASN	CG-ND2	7.41	1.48	1.33
1	F	152	LYS	C-O	7.41	1.32	1.23
1	D	81	ASN	CA-C	-7.41	1.42	1.52
1	L	440	PRO	C-O	7.41	1.33	1.24
1	J	253	GLU	CA-C	-7.41	1.44	1.52
1	D	153	GLN	CA-C	7.40	1.62	1.52
1	G	184	ASP	N-CA	7.40	1.55	1.46
1	H	107	VAL	CB-CG2	-7.40	1.28	1.52
1	F	177	GLN	C-O	7.40	1.33	1.24
1	A	346	ALA	CA-C	-7.39	1.43	1.52
1	O	362	GLU	C-O	7.39	1.32	1.24
1	C	112	PRO	C-O	7.39	1.32	1.23
1	B	107	VAL	CB-CG2	-7.39	1.28	1.52
1	H	173	SER	CA-CB	7.39	1.65	1.53
1	D	356	LYS	CE-NZ	7.39	1.71	1.49
1	M	332	THR	CB-OG1	7.39	1.55	1.43
1	I	252	ARG	CA-C	-7.39	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	200	MET	C-O	7.38	1.33	1.24
1	M	230	LYS	C-O	7.38	1.32	1.23
1	G	262	ASN	N-CA	-7.38	1.37	1.46
1	I	83	PHE	C-O	7.38	1.32	1.23
1	K	311	TYR	CA-C	7.38	1.62	1.52
1	N	155	GLN	CA-CB	-7.38	1.42	1.53
1	M	334	VAL	CB-CG1	-7.38	1.28	1.52
1	L	252	ARG	CA-C	-7.38	1.44	1.52
1	B	24	THR	C-O	7.37	1.33	1.24
1	B	171	LYS	CA-C	-7.37	1.43	1.52
1	E	253	GLU	C-O	7.37	1.32	1.23
1	G	201	VAL	CB-CG2	7.37	1.76	1.52
1	J	224	ILE	CA-C	-7.37	1.44	1.53
1	B	354	THR	C-O	7.37	1.32	1.23
1	L	308	ASN	CA-CB	-7.37	1.43	1.53
1	M	402	TRP	C-O	7.37	1.32	1.23
1	D	216	ASN	C-O	7.37	1.33	1.24
1	F	194	VAL	CA-CB	-7.37	1.45	1.54
1	I	25	ASP	CG-OD1	7.37	1.39	1.25
1	M	288	SER	CA-C	-7.37	1.42	1.52
1	E	235	ILE	CG1-CD1	7.36	1.80	1.51
1	M	224	ILE	CB-CG2	-7.36	1.28	1.52
1	G	396	SER	CA-C	7.36	1.62	1.52
1	K	291	TYR	N-CA	-7.36	1.36	1.45
1	E	362	GLU	C-O	7.36	1.33	1.24
1	N	362	GLU	C-O	7.36	1.32	1.24
1	N	439	ASP	N-CA	7.36	1.56	1.46
1	O	308	ASN	N-CA	7.36	1.55	1.46
1	E	76	HIS	CA-CB	7.35	1.62	1.53
1	F	33	ILE	CG1-CD1	7.35	1.80	1.51
1	O	316	ALA	CA-C	-7.35	1.43	1.52
1	F	250	LEU	C-O	7.35	1.32	1.23
1	I	184	ASP	CA-C	7.35	1.62	1.52
1	C	100	TRP	CA-C	-7.35	1.43	1.52
1	J	111	GLN	CA-C	7.35	1.62	1.52
1	B	370	TYR	C-O	-7.35	1.14	1.23
1	C	446	PHE	C-O	-7.35	1.14	1.23
1	D	288	SER	N-CA	7.35	1.55	1.46
1	J	43	LEU	N-CA	7.35	1.54	1.46
1	B	114	GLY	C-O	7.35	1.34	1.23
1	I	187	PRO	N-CA	7.35	1.56	1.47
1	J	76	HIS	CA-C	-7.34	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	393	SER	C-O	7.34	1.33	1.24
1	E	118	SER	N-CA	-7.34	1.36	1.45
1	G	439	ASP	N-CA	7.34	1.58	1.46
1	O	452	LYS	CD-CE	7.34	1.74	1.52
1	D	454	LYS	CE-NZ	7.33	1.71	1.49
1	E	323	ILE	CB-CG2	7.33	1.76	1.52
1	A	43	LEU	N-CA	7.33	1.55	1.46
1	A	461	GLN	CA-C	7.33	1.62	1.52
1	E	67	GLY	N-CA	7.33	1.56	1.45
1	F	391	ILE	CA-CB	-7.33	1.44	1.54
1	A	459	LEU	N-CA	-7.33	1.36	1.46
1	E	117	ILE	C-O	-7.33	1.16	1.24
1	F	171	LYS	CG-CD	7.33	1.74	1.52
1	I	340	THR	N-CA	-7.33	1.36	1.46
1	B	257	VAL	C-O	7.33	1.31	1.24
1	F	268	GLY	C-O	7.33	1.32	1.23
1	M	323	ILE	CG1-CD1	7.33	1.80	1.51
1	G	225	CYS	N-CA	7.32	1.55	1.46
1	C	310	PRO	CA-CB	-7.32	1.45	1.54
1	A	462	PHE	N-CA	-7.32	1.39	1.45
1	G	53	LYS	N-CA	7.32	1.54	1.45
1	L	467	LYS	CA-C	-7.32	1.43	1.52
1	O	269	GLU	CB-CG	7.32	1.74	1.52
1	C	254	GLN	CD-OE1	-7.32	1.09	1.23
1	C	37	ALA	C-O	7.31	1.33	1.23
1	C	155	GLN	C-O	-7.31	1.15	1.24
1	K	252	ARG	CA-C	-7.31	1.45	1.53
1	K	340	THR	C-O	-7.31	1.14	1.24
1	E	280	SER	CA-CB	7.31	1.62	1.52
1	G	285	ASN	N-CA	-7.31	1.36	1.46
1	I	191	ILE	CA-C	7.31	1.62	1.52
1	D	44	ALA	N-CA	7.31	1.54	1.46
1	F	164	PRO	N-CA	-7.31	1.38	1.47
1	O	439	ASP	CA-C	7.31	1.61	1.52
1	K	62	VAL	N-CA	-7.31	1.37	1.46
1	L	127	ASP	C-O	-7.31	1.14	1.23
1	O	200	MET	CG-SD	7.31	1.99	1.80
1	M	282	SER	C-O	7.31	1.33	1.24
1	I	191	ILE	C-O	7.30	1.32	1.24
1	D	228	ILE	CA-CB	7.30	1.63	1.54
1	G	281	GLY	C-O	7.30	1.33	1.23
1	M	257	VAL	CA-CB	-7.30	1.45	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	31	THR	C-O	-7.30	1.15	1.23
1	A	93	PRO	C-O	7.30	1.33	1.24
1	C	184	ASP	CA-C	7.30	1.62	1.52
1	I	107	VAL	CA-CB	-7.30	1.45	1.53
1	K	451	LEU	C-O	-7.30	1.13	1.24
1	B	30	ARG	C-O	-7.29	1.15	1.24
1	F	44	ALA	CA-CB	7.29	1.68	1.53
1	I	245	SER	N-CA	7.29	1.55	1.46
1	N	470	LEU	C-O	-7.29	1.13	1.24
1	I	325	TRP	N-CA	-7.29	1.36	1.46
1	B	214	GLN	CA-C	-7.29	1.43	1.53
1	K	162	LYS	C-N	-7.29	1.25	1.33
1	E	298	SER	N-CA	-7.29	1.35	1.45
1	F	148	SER	C-O	7.29	1.33	1.23
1	G	315	ARG	C-O	7.29	1.35	1.24
1	H	175	CYS	CA-C	7.29	1.61	1.52
1	B	356	LYS	CA-C	7.28	1.60	1.52
1	D	444	TYR	C-O	7.28	1.33	1.23
1	I	375	ILE	CA-C	7.28	1.61	1.52
1	N	153	GLN	C-O	7.28	1.32	1.24
1	J	311	TYR	CA-C	7.28	1.61	1.52
1	N	271	VAL	CA-C	7.28	1.60	1.52
1	A	259	HIS	CA-C	-7.28	1.43	1.52
1	D	123	LEU	CG-CD2	7.28	1.76	1.52
1	D	249	TYR	N-CA	7.28	1.54	1.46
1	F	299	MET	C-O	-7.28	1.14	1.24
1	I	396	SER	N-CA	7.28	1.54	1.46
1	G	139	ALA	CA-C	7.28	1.62	1.52
1	C	268	GLY	C-O	7.28	1.33	1.23
1	E	327	ASN	C-O	7.28	1.33	1.23
1	N	173	SER	CA-CB	7.28	1.65	1.53
1	G	150	ASP	CA-C	-7.27	1.44	1.53
1	J	75	ILE	C-N	7.27	1.44	1.33
1	I	97	ARG	CZ-NH1	7.27	1.43	1.32
1	M	390	TYR	CD2-CE2	-7.27	1.16	1.38
1	D	317	GLN	CD-OE1	7.27	1.37	1.23
1	M	106	GLU	CB-CG	7.27	1.74	1.52
1	O	208	MET	CG-SD	7.27	1.99	1.80
1	D	457	ALA	CA-C	-7.27	1.43	1.52
1	I	86	PRO	C-O	7.27	1.33	1.24
1	D	158	LEU	C-N	7.26	1.42	1.33
1	D	191	ILE	CA-CB	-7.26	1.44	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	87	ASP	CA-C	7.26	1.62	1.52
1	J	77	LEU	C-N	7.26	1.42	1.33
1	K	253	GLU	CA-C	7.26	1.61	1.52
1	N	450	ASN	C-O	7.26	1.32	1.24
1	D	372	LEU	N-CA	7.26	1.55	1.46
1	I	263	ARG	CZ-NH2	-7.26	1.24	1.33
1	N	282	SER	CA-C	7.26	1.62	1.52
1	F	438	GLU	CG-CD	7.26	1.70	1.52
1	F	105	VAL	CA-CB	-7.25	1.45	1.54
1	K	322	GLY	N-CA	7.25	1.55	1.45
1	K	463	PRO	CA-CB	-7.25	1.43	1.53
1	I	367	GLY	N-CA	7.25	1.52	1.44
1	D	339	SER	CB-OG	-7.25	1.27	1.42
1	I	146	CYS	C-O	7.25	1.32	1.23
1	I	471	GLN	CG-CD	7.25	1.70	1.52
1	J	237	MET	C-O	7.25	1.33	1.24
1	C	128	ASP	N-CA	-7.25	1.37	1.46
1	G	264	ALA	C-O	7.25	1.33	1.23
1	F	147	ILE	CA-CB	7.24	1.67	1.54
1	H	46	GLY	C-O	7.24	1.30	1.23
1	M	267	VAL	N-CA	-7.24	1.37	1.46
1	F	259	HIS	C-O	7.24	1.33	1.23
1	L	306	ILE	CB-CG2	-7.24	1.28	1.52
1	O	259	HIS	C-O	7.24	1.33	1.23
1	G	394	MET	SD-CE	7.24	1.97	1.79
1	J	184	ASP	CA-C	7.24	1.62	1.52
1	C	72	VAL	CA-C	7.24	1.60	1.53
1	C	221	PRO	C-O	-7.24	1.14	1.24
1	K	338	ARG	CB-CG	7.24	1.74	1.52
1	E	325	TRP	C-O	7.23	1.33	1.23
1	G	393	SER	C-O	7.23	1.33	1.24
1	M	456	SER	N-CA	-7.23	1.37	1.46
1	N	262	ASN	C-O	7.23	1.32	1.24
1	O	94	ASP	CA-C	-7.23	1.43	1.52
1	D	118	SER	CA-C	-7.23	1.43	1.52
1	E	23	SER	CA-C	-7.23	1.43	1.52
1	K	289	SER	CB-OG	7.23	1.56	1.42
1	J	232	PRO	CA-C	7.23	1.61	1.52
1	K	129	THR	CA-C	-7.23	1.42	1.52
1	M	380	LYS	CA-C	-7.23	1.43	1.52
1	N	134	ALA	CA-C	7.23	1.61	1.52
1	F	263	ARG	CZ-NH2	-7.22	1.24	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	252	ARG	CA-C	-7.22	1.43	1.52
1	H	58	ASN	CA-C	7.22	1.62	1.52
1	A	446	PHE	C-O	-7.22	1.14	1.23
1	G	202	ASP	C-O	7.22	1.32	1.23
1	O	183	GLY	C-O	7.22	1.33	1.23
1	O	348	ILE	CA-CB	7.22	1.63	1.54
1	K	226	THR	C-O	7.22	1.33	1.24
1	I	158	LEU	C-O	7.21	1.32	1.23
1	L	442	LYS	CB-CG	7.21	1.74	1.52
1	A	361	LYS	CA-C	7.21	1.61	1.52
1	E	396	SER	N-CA	7.21	1.54	1.46
1	L	152	LYS	CE-NZ	7.21	1.71	1.49
1	L	295	PRO	CA-CB	-7.21	1.43	1.53
1	L	472	LEU	N-CA	7.21	1.59	1.46
1	E	178	VAL	CB-CG1	7.21	1.76	1.52
1	D	98	LEU	CA-C	7.21	1.61	1.52
1	H	109	ARG	CA-C	-7.21	1.43	1.52
1	A	244	ASP	C-O	7.21	1.33	1.24
1	B	46	GLY	C-O	7.21	1.30	1.23
1	E	358	THR	C-N	-7.21	1.23	1.33
1	D	114	GLY	N-CA	7.20	1.54	1.45
1	O	278	LYS	CG-CD	7.20	1.74	1.52
1	A	336	THR	CA-CB	-7.20	1.42	1.53
1	D	347	ALA	CA-C	7.20	1.63	1.53
1	N	347	ALA	C-O	7.20	1.33	1.23
1	A	292	PHE	CA-CB	-7.20	1.44	1.54
1	D	159	ILE	C-O	-7.20	1.16	1.24
1	F	447	TRP	C-O	7.20	1.33	1.24
1	L	149	MET	CA-C	-7.20	1.44	1.52
1	N	171	LYS	CA-C	-7.20	1.44	1.52
1	D	326	GLY	C-O	-7.20	1.14	1.24
1	G	206	GLY	CA-C	7.20	1.62	1.51
1	I	176	THR	CA-CB	7.20	1.65	1.53
1	M	271	VAL	C-O	-7.20	1.15	1.24
1	L	115	VAL	N-CA	-7.19	1.38	1.46
1	F	41	ARG	CD-NE	7.19	1.56	1.46
1	F	157	CYS	CB-SG	-7.19	1.57	1.81
1	G	382	THR	C-O	7.19	1.32	1.23
1	K	172	GLY	C-O	7.19	1.33	1.23
1	M	98	LEU	CG-CD1	7.19	1.76	1.52
1	M	147	ILE	CA-CB	-7.19	1.44	1.54
1	E	181	GLN	C-O	7.19	1.33	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	206	GLY	N-CA	7.19	1.54	1.45
1	B	468	PHE	C-O	7.19	1.33	1.24
1	D	174	PRO	N-CD	7.18	1.57	1.47
1	K	185	CYS	CA-C	7.18	1.61	1.52
1	G	153	GLN	N-CA	7.18	1.55	1.46
1	I	214	GLN	CD-OE1	7.18	1.37	1.23
1	I	442	LYS	CA-CB	7.18	1.65	1.53
1	K	173	SER	C-O	7.18	1.33	1.24
1	I	44	ALA	C-O	7.18	1.32	1.23
1	E	439	ASP	C-N	7.18	1.43	1.34
1	G	384	THR	CA-CB	7.18	1.64	1.53
1	B	108	GLY	CA-C	7.18	1.59	1.52
1	E	387	VAL	CA-CB	7.18	1.64	1.54
1	J	368	GLU	C-O	7.17	1.32	1.23
1	H	443	LYS	CD-CE	7.17	1.74	1.52
1	H	445	THR	C-O	-7.17	1.16	1.24
1	I	40	SER	CA-C	7.17	1.62	1.52
1	I	285	ASN	C-O	7.17	1.34	1.23
1	N	94	ASP	C-O	7.17	1.34	1.23
1	A	152	LYS	CE-NZ	7.17	1.70	1.49
1	C	257	VAL	C-O	7.17	1.31	1.24
1	F	241	PRO	N-CA	7.17	1.56	1.47
1	G	177	GLN	CD-OE1	7.17	1.37	1.23
1	G	293	PRO	CA-CB	-7.17	1.43	1.53
1	N	170	GLY	C-O	7.17	1.31	1.23
1	K	46	GLY	C-O	7.17	1.33	1.23
1	C	402	TRP	C-O	7.16	1.32	1.23
1	I	139	ALA	CA-CB	7.16	1.62	1.53
1	N	114	GLY	C-O	7.16	1.33	1.23
1	B	227	SER	C-O	7.16	1.33	1.24
1	O	161	CYS	C-O	7.16	1.33	1.24
1	D	149	MET	CA-C	-7.16	1.44	1.53
1	E	393	SER	CA-C	7.16	1.62	1.52
1	H	152	LYS	CA-C	-7.16	1.43	1.52
1	I	345	CYS	CA-C	7.16	1.60	1.52
1	D	197	ASP	N-CA	-7.15	1.37	1.46
1	K	246	LEU	C-O	7.15	1.32	1.23
1	L	138	ASN	CG-ND2	7.15	1.48	1.33
1	J	342	MET	C-O	7.15	1.32	1.23
1	N	95	THR	CA-C	7.15	1.62	1.53
1	O	303	ASP	CA-C	-7.15	1.43	1.52
1	K	200	MET	CA-C	-7.15	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	154	THR	N-CA	7.15	1.54	1.46
1	B	44	ALA	CA-CB	7.15	1.72	1.54
1	N	361	LYS	CG-CD	7.15	1.73	1.52
1	K	336	THR	N-CA	-7.14	1.37	1.46
1	L	325	TRP	N-CA	-7.14	1.36	1.46
1	D	312	TRP	CD2-CE3	-7.14	1.28	1.40
1	M	312	TRP	C-O	-7.14	1.15	1.24
1	A	181	GLN	C-O	7.14	1.32	1.24
1	I	299	MET	C-O	-7.14	1.15	1.23
1	B	138	ASN	CG-ND2	7.14	1.48	1.33
1	E	225	CYS	N-CA	7.13	1.55	1.46
1	J	209	ASP	CA-C	7.13	1.61	1.52
1	L	340	THR	CB-CG2	-7.13	1.29	1.52
1	L	272	PRO	CA-C	-7.13	1.43	1.52
1	G	202	ASP	CG-OD2	7.13	1.39	1.25
1	N	284	ALA	CA-CB	-7.13	1.41	1.53
1	F	401	ASP	C-O	7.13	1.32	1.24
1	J	313	LEU	C-O	7.13	1.33	1.24
1	N	447	TRP	C-O	7.13	1.32	1.24
1	K	461	GLN	CA-C	7.13	1.62	1.52
1	I	43	LEU	CA-C	-7.13	1.43	1.52
1	B	369	GLU	CB-CG	7.12	1.73	1.52
1	E	213	LEU	CG-CD1	7.12	1.76	1.52
1	K	337	THR	C-O	-7.12	1.15	1.24
1	B	299	MET	N-CA	7.12	1.55	1.46
1	N	95	THR	CB-CG2	7.12	1.76	1.52
1	B	260	LEU	CA-C	7.12	1.61	1.52
1	G	463	PRO	CA-CB	-7.12	1.43	1.53
1	C	398	ILE	C-O	7.12	1.32	1.24
1	J	338	ARG	CZ-NH1	7.12	1.42	1.32
1	F	52	ILE	CA-C	7.11	1.60	1.53
1	H	177	GLN	CB-CG	-7.11	1.31	1.52
1	I	129	THR	CA-C	-7.11	1.42	1.52
1	K	185	CYS	C-N	7.11	1.41	1.33
1	L	288	SER	C-O	-7.11	1.15	1.24
1	J	126	LEU	C-O	7.11	1.29	1.23
1	B	33	ILE	CG1-CD1	7.11	1.79	1.51
1	I	277	ILE	CG1-CD1	7.11	1.79	1.51
1	N	446	PHE	C-O	-7.11	1.14	1.23
1	A	233	ASP	C-O	7.11	1.31	1.23
1	B	377	GLN	CA-C	7.11	1.61	1.52
1	L	158	LEU	C-O	7.11	1.32	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	310	PRO	C-O	7.11	1.30	1.23
1	L	118	SER	CB-OG	7.10	1.56	1.42
1	I	88	THR	CB-CG2	7.10	1.75	1.52
1	O	98	LEU	CG-CD1	7.10	1.75	1.52
1	E	266	THR	C-O	7.10	1.32	1.24
1	H	256	PHE	C-O	-7.10	1.15	1.23
1	H	300	VAL	CA-CB	-7.10	1.45	1.54
1	E	189	GLU	CD-OE1	7.10	1.38	1.25
1	F	353	THR	CA-C	7.10	1.61	1.52
1	M	262	ASN	N-CA	-7.10	1.37	1.46
1	H	472	LEU	CG-CD1	-7.10	1.29	1.52
1	C	56	ASN	CB-CG	7.09	1.69	1.52
1	N	306	ILE	CA-C	-7.09	1.42	1.52
1	E	168	HIS	C-O	-7.09	1.15	1.23
1	E	21	VAL	CA-C	-7.09	1.44	1.52
1	F	138	ASN	CA-C	7.09	1.61	1.52
1	K	259	HIS	N-CA	7.09	1.56	1.46
1	E	323	ILE	CA-CB	-7.09	1.45	1.53
1	J	398	ILE	C-O	7.09	1.32	1.24
1	J	439	ASP	CA-C	7.09	1.61	1.52
1	M	177	GLN	CD-NE2	7.09	1.48	1.33
1	M	266	THR	CA-C	-7.08	1.43	1.53
1	I	138	ASN	CA-C	7.08	1.62	1.52
1	H	96	GLN	C-O	7.08	1.32	1.23
1	C	58	ASN	CA-CB	7.08	1.62	1.53
1	D	152	LYS	CE-NZ	7.08	1.70	1.49
1	H	103	VAL	N-CA	-7.08	1.39	1.46
1	L	460	ASP	C-O	-7.08	1.15	1.24
1	O	201	VAL	CA-C	-7.08	1.43	1.52
1	L	113	LEU	C-N	7.08	1.40	1.33
1	C	108	GLY	C-O	7.07	1.31	1.24
1	K	60	ILE	CA-C	-7.07	1.45	1.53
1	O	280	SER	C-O	7.07	1.32	1.24
1	A	194	VAL	N-CA	-7.07	1.38	1.46
1	F	148	SER	C-N	7.07	1.39	1.33
1	O	289	SER	N-CA	-7.07	1.37	1.46
1	H	287	ALA	CA-CB	7.07	1.65	1.53
1	C	347	ALA	CA-CB	7.06	1.65	1.53
1	F	99	VAL	CA-CB	7.06	1.65	1.55
1	H	139	ALA	C-N	7.06	1.43	1.33
1	K	112	PRO	CA-CB	-7.06	1.44	1.53
1	L	361	LYS	CE-NZ	7.06	1.70	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	154	THR	C-O	-7.06	1.16	1.24
1	H	382	THR	C-O	7.06	1.32	1.23
1	J	357	ASN	CA-C	7.06	1.62	1.52
1	B	131	ASN	C-O	7.06	1.32	1.24
1	C	351	SER	CA-C	7.06	1.62	1.52
1	F	191	ILE	CA-CB	-7.06	1.45	1.54
1	I	347	ALA	C-O	7.06	1.32	1.23
1	D	319	HIS	C-O	-7.06	1.16	1.24
1	F	389	THR	CB-CG2	7.06	1.75	1.52
1	H	164	PRO	CA-C	-7.06	1.43	1.52
1	I	320	ASN	N-CA	-7.06	1.36	1.45
1	L	260	LEU	N-CA	-7.06	1.37	1.46
1	M	331	VAL	CB-CG2	-7.06	1.29	1.52
1	H	258	ARG	CZ-NH2	-7.06	1.24	1.33
1	J	445	THR	C-O	7.06	1.31	1.24
1	N	446	PHE	CA-CB	-7.06	1.42	1.54
1	C	183	GLY	C-O	7.05	1.33	1.23
1	G	194	VAL	N-CA	7.05	1.54	1.46
1	M	459	LEU	C-O	-7.05	1.14	1.24
1	F	394	MET	N-CA	7.05	1.54	1.46
1	I	320	ASN	CG-OD1	7.05	1.36	1.23
1	G	462	PHE	CB-CG	-7.05	1.34	1.50
1	H	464	LEU	CA-CB	-7.05	1.42	1.53
1	O	115	VAL	CA-CB	-7.05	1.45	1.54
1	F	178	VAL	CB-CG1	7.04	1.75	1.52
1	G	260	LEU	C-O	7.04	1.31	1.23
1	A	306	ILE	CA-CB	-7.04	1.44	1.54
1	C	299	MET	CA-CB	-7.04	1.41	1.53
1	D	301	THR	CB-CG2	7.04	1.75	1.52
1	E	325	TRP	CA-C	7.04	1.62	1.52
1	L	32	ASN	CA-CB	7.04	1.63	1.53
1	L	137	ALA	CA-CB	7.04	1.64	1.53
1	M	247	PHE	N-CA	-7.04	1.36	1.46
1	K	217	LYS	N-CA	-7.04	1.35	1.46
1	E	365	ARG	C-O	-7.04	1.15	1.23
1	H	188	LEU	C-O	-7.04	1.14	1.23
1	O	200	MET	CA-C	-7.04	1.44	1.52
1	B	107	VAL	C-O	-7.04	1.15	1.23
1	N	73	PHE	C-O	7.04	1.32	1.23
1	A	231	TYR	CD1-CE1	7.03	1.59	1.38
1	O	217	LYS	CE-NZ	7.03	1.70	1.49
1	O	187	PRO	CG-CD	7.03	1.74	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	285	ASN	N-CA	-7.03	1.37	1.46
1	K	402	TRP	C-O	7.03	1.32	1.23
1	B	306	ILE	CA-C	-7.03	1.42	1.52
1	M	248	PHE	C-O	-7.03	1.14	1.23
1	J	148	SER	C-N	-7.03	1.26	1.33
1	E	348	ILE	C-O	7.02	1.32	1.23
1	J	110	GLY	C-O	7.02	1.33	1.23
1	O	218	SER	N-CA	7.02	1.55	1.46
1	G	49	TYR	CA-C	7.02	1.62	1.52
1	J	56	ASN	CG-OD1	7.02	1.36	1.23
1	F	444	TYR	CA-C	-7.02	1.44	1.52
1	C	120	HIS	N-CA	7.01	1.56	1.46
1	D	472	LEU	CA-CB	7.01	1.67	1.53
1	F	381	ILE	CA-CB	-7.01	1.45	1.53
1	F	471	GLN	CG-CD	7.01	1.69	1.52
1	G	32	ASN	CB-CG	7.01	1.69	1.52
1	A	278	LYS	CE-NZ	7.01	1.70	1.49
1	A	312	TRP	CA-CB	-7.01	1.43	1.53
1	F	125	LYS	CG-CD	7.01	1.73	1.52
1	G	40	SER	CA-C	7.01	1.61	1.52
1	H	386	ASP	C-O	7.01	1.33	1.24
1	J	180	VAL	C-O	7.01	1.32	1.24
1	L	332	THR	CA-CB	-7.01	1.43	1.53
1	H	278	LYS	CA-C	7.01	1.62	1.52
1	I	45	VAL	C-O	7.01	1.31	1.23
1	O	272	PRO	CA-CB	-7.01	1.44	1.53
1	B	268	GLY	C-O	7.00	1.32	1.23
1	H	140	GLY	N-CA	7.00	1.55	1.45
1	K	343	SER	CA-C	7.00	1.61	1.52
1	O	331	VAL	CB-CG1	7.00	1.75	1.52
1	F	145	GLU	CD-OE1	7.00	1.38	1.25
1	J	137	ALA	CA-CB	7.00	1.64	1.53
1	L	72	VAL	CB-CG2	-7.00	1.29	1.52
1	O	198	GLY	C-O	7.00	1.33	1.24
1	D	223	ASP	C-O	-7.00	1.14	1.24
1	E	86	PRO	N-CA	7.00	1.56	1.47
1	L	254	GLN	C-O	-7.00	1.15	1.24
1	N	75	ILE	C-O	7.00	1.31	1.24
1	N	294	THR	CB-CG2	-7.00	1.29	1.52
1	A	134	ALA	C-O	-6.99	1.15	1.24
1	E	121	PRO	CA-C	-6.99	1.42	1.52
1	H	322	GLY	C-O	6.99	1.33	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	299	MET	SD-CE	6.99	1.97	1.79
1	F	384	THR	CA-C	6.99	1.61	1.52
1	K	304	ALA	CA-C	-6.99	1.44	1.52
1	G	87	ASP	C-O	6.99	1.32	1.23
1	I	361	LYS	CD-CE	6.99	1.73	1.52
1	A	249	TYR	CZ-OH	6.99	1.52	1.38
1	C	111	GLN	N-CA	-6.99	1.37	1.45
1	M	356	LYS	C-O	-6.99	1.15	1.24
1	C	300	VAL	CA-CB	-6.98	1.45	1.54
1	D	235	ILE	CA-CB	-6.98	1.45	1.54
1	E	201	VAL	CB-CG1	-6.98	1.29	1.52
1	L	52	ILE	CA-CB	6.98	1.62	1.53
1	O	77	LEU	C-N	6.98	1.43	1.33
1	B	463	PRO	CB-CG	6.98	1.84	1.49
1	F	304	ALA	CA-C	-6.98	1.43	1.52
1	O	84	GLY	C-O	6.98	1.33	1.23
1	E	200	MET	C-O	6.98	1.32	1.24
1	F	335	ASP	C-O	6.98	1.32	1.23
1	C	360	PHE	CA-C	-6.98	1.44	1.52
1	M	176	THR	N-CA	6.98	1.55	1.46
1	N	193	THR	CA-CB	6.98	1.65	1.53
1	D	328	GLN	CA-C	6.98	1.61	1.52
1	M	252	ARG	N-CA	-6.97	1.37	1.46
1	A	178	VAL	CB-CG1	6.97	1.75	1.52
1	O	206	GLY	C-O	6.97	1.32	1.23
1	N	39	THR	CA-CB	-6.97	1.42	1.53
1	E	87	ASP	C-O	6.97	1.32	1.24
1	C	154	THR	CA-CB	6.96	1.64	1.53
1	C	195	ILE	CA-CB	6.96	1.62	1.53
1	F	365	ARG	NE-CZ	6.96	1.40	1.33
1	C	176	THR	N-CA	6.96	1.55	1.46
1	H	130	GLU	CD-OE2	6.96	1.38	1.25
1	K	304	ALA	C-O	-6.96	1.14	1.24
1	D	244	ASP	CG-OD1	6.96	1.38	1.25
1	F	164	PRO	C-O	6.96	1.31	1.23
1	N	181	GLN	N-CA	-6.96	1.35	1.46
1	I	293	PRO	C-O	-6.96	1.15	1.24
1	I	314	GLN	CD-OE1	6.96	1.36	1.23
1	L	439	ASP	C-O	6.96	1.33	1.24
1	L	95	THR	CB-OG1	6.96	1.54	1.43
1	M	258	ARG	C-O	6.96	1.33	1.23
1	G	232	PRO	CA-C	-6.96	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	333	VAL	C-O	6.96	1.31	1.24
1	H	30	ARG	CA-C	-6.95	1.44	1.52
1	O	77	LEU	C-O	6.95	1.32	1.24
1	A	167	GLU	C-O	6.95	1.32	1.23
1	L	463	PRO	N-CA	6.95	1.56	1.47
1	A	58	ASN	C-O	6.95	1.33	1.24
1	G	280	SER	C-O	6.95	1.31	1.23
1	F	395	ASN	C-O	6.95	1.32	1.23
1	K	130	GLU	CD-OE2	6.95	1.38	1.25
1	B	157	CYS	C-O	6.95	1.31	1.23
1	F	123	LEU	C-N	-6.95	1.23	1.33
1	F	401	ASP	CA-C	6.95	1.62	1.52
1	K	151	TYR	C-O	6.95	1.32	1.23
1	B	305	GLN	CA-C	6.94	1.62	1.52
1	A	361	LYS	C-O	6.94	1.32	1.24
1	C	112	PRO	C-N	6.94	1.42	1.33
1	H	115	VAL	N-CA	-6.94	1.38	1.46
1	K	382	THR	CA-CB	-6.94	1.43	1.53
1	M	35	TYR	N-CA	-6.94	1.37	1.46
1	N	467	LYS	C-O	-6.94	1.16	1.23
1	A	377	GLN	N-CA	6.94	1.54	1.46
1	H	166	GLY	C-O	6.94	1.31	1.23
1	A	256	PHE	CA-C	-6.93	1.44	1.52
1	A	299	MET	N-CA	6.93	1.55	1.46
1	F	460	ASP	C-O	6.93	1.32	1.24
1	G	182	PRO	N-CA	6.93	1.56	1.47
1	J	55	PRO	CA-C	6.93	1.62	1.52
1	O	272	PRO	C-O	6.93	1.31	1.23
1	C	471	GLN	CD-OE1	6.93	1.36	1.23
1	D	192	ASN	C-O	-6.93	1.15	1.23
1	D	237	MET	SD-CE	6.93	1.96	1.79
1	C	390	TYR	CA-C	-6.93	1.43	1.52
1	E	299	MET	CA-C	-6.93	1.43	1.52
1	N	225	CYS	CA-C	-6.93	1.43	1.52
1	B	126	LEU	C-O	6.93	1.29	1.23
1	B	150	ASP	N-CA	6.93	1.54	1.46
1	C	301	THR	C-O	6.93	1.32	1.24
1	I	228	ILE	CA-CB	-6.93	1.46	1.54
1	L	302	SER	CA-CB	-6.93	1.42	1.53
1	N	178	VAL	CA-CB	6.93	1.63	1.54
1	O	74	ARG	CZ-NH1	6.93	1.42	1.32
1	A	459	LEU	CA-CB	-6.92	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	341	ASN	CA-C	-6.92	1.44	1.52
1	I	172	GLY	N-CA	6.92	1.55	1.45
1	N	66	SER	C-O	6.92	1.32	1.23
1	A	370	TYR	CA-C	-6.92	1.44	1.52
1	D	359	ASN	CA-C	6.92	1.61	1.52
1	F	21	VAL	N-CA	-6.92	1.37	1.46
1	H	67	GLY	N-CA	-6.92	1.35	1.45
1	G	137	ALA	CA-CB	6.92	1.63	1.53
1	C	181	GLN	C-O	6.92	1.32	1.24
1	H	291	TYR	N-CA	-6.92	1.37	1.45
1	J	147	ILE	C-O	-6.92	1.16	1.24
1	M	57	ASN	CA-C	6.92	1.62	1.52
1	N	57	ASN	CA-C	6.92	1.62	1.53
1	C	218	SER	CA-C	6.91	1.62	1.52
1	A	362	GLU	CA-C	-6.91	1.44	1.52
1	G	162	LYS	C-N	6.91	1.39	1.33
1	I	317	GLN	CB-CG	6.91	1.73	1.52
1	I	45	VAL	CA-CB	-6.91	1.45	1.54
1	L	111	GLN	CG-CD	6.91	1.69	1.52
1	M	47	HIS	C-O	6.91	1.32	1.24
1	G	156	LEU	C-O	6.91	1.32	1.23
1	H	282	SER	CA-C	6.91	1.62	1.52
1	N	361	LYS	C-O	6.91	1.32	1.23
1	E	389	THR	CB-CG2	6.91	1.75	1.52
1	I	117	ILE	CG1-CD1	6.91	1.78	1.51
1	J	235	ILE	CA-CB	-6.91	1.46	1.54
1	F	50	PHE	C-O	6.90	1.31	1.24
1	G	470	LEU	C-O	6.90	1.33	1.24
1	A	390	TYR	CA-C	6.90	1.61	1.52
1	B	318	GLY	C-O	-6.90	1.14	1.23
1	F	353	THR	CB-CG2	6.90	1.75	1.52
1	K	115	VAL	CA-CB	6.90	1.65	1.55
1	F	21	VAL	CA-CB	-6.90	1.45	1.54
1	L	315	ARG	CG-CD	6.90	1.73	1.52
1	M	273	ASP	CG-OD2	6.90	1.38	1.25
1	B	26	GLU	CA-C	-6.90	1.44	1.52
1	H	92	ASN	N-CA	6.90	1.54	1.46
1	D	280	SER	CB-OG	6.90	1.55	1.42
1	H	336	THR	CB-CG2	-6.90	1.29	1.52
1	K	334	VAL	C-O	6.90	1.31	1.24
1	M	127	ASP	C-O	6.90	1.31	1.23
1	A	272	PRO	C-O	6.90	1.32	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	439	ASP	CA-C	6.90	1.61	1.52
1	H	180	VAL	CA-CB	6.90	1.63	1.54
1	H	180	VAL	CA-C	6.90	1.61	1.52
1	O	155	GLN	N-CA	-6.90	1.38	1.46
1	O	299	MET	CA-C	-6.90	1.44	1.52
1	A	332	THR	C-O	-6.89	1.16	1.24
1	D	163	PRO	C-O	6.89	1.32	1.24
1	K	145	GLU	C-O	-6.89	1.15	1.23
1	M	331	VAL	CA-CB	-6.89	1.46	1.54
1	K	109	ARG	C-O	6.89	1.31	1.24
1	F	97	ARG	C-O	6.89	1.32	1.23
1	A	68	LEU	CA-C	-6.88	1.42	1.52
1	A	372	LEU	C-O	-6.88	1.15	1.23
1	A	376	PHE	CA-C	-6.88	1.44	1.52
1	C	260	LEU	C-O	6.88	1.31	1.24
1	I	174	PRO	N-CD	6.88	1.57	1.47
1	N	107	VAL	CB-CG2	-6.88	1.29	1.52
1	N	228	ILE	CG1-CD1	6.88	1.78	1.51
1	O	439	ASP	C-N	6.88	1.42	1.33
1	D	37	ALA	CA-CB	6.88	1.65	1.53
1	B	193	THR	C-O	-6.88	1.15	1.23
1	H	396	SER	CA-C	6.88	1.61	1.52
1	L	249	TYR	C-O	6.88	1.32	1.23
1	A	463	PRO	C-O	-6.88	1.16	1.24
1	M	153	GLN	C-O	-6.88	1.15	1.24
1	O	134	ALA	CA-CB	-6.88	1.41	1.53
1	B	462	PHE	CG-CD1	-6.88	1.24	1.38
1	D	26	GLU	C-O	-6.88	1.15	1.24
1	E	92	ASN	CG-OD1	6.88	1.36	1.23
1	I	25	ASP	CG-OD2	6.88	1.38	1.25
1	O	303	ASP	C-O	-6.88	1.15	1.24
1	A	166	GLY	C-O	6.88	1.30	1.23
1	F	159	ILE	C-O	-6.88	1.16	1.24
1	F	362	GLU	CD-OE2	6.88	1.38	1.25
1	H	334	VAL	CA-C	6.88	1.60	1.52
1	I	375	ILE	CG1-CD1	-6.88	1.25	1.51
1	J	121	PRO	N-CA	-6.88	1.38	1.47
1	N	88	THR	CB-CG2	6.88	1.75	1.52
1	O	391	ILE	CA-C	6.88	1.61	1.52
1	I	236	LYS	C-O	6.87	1.32	1.24
1	N	177	GLN	C-O	6.87	1.32	1.24
1	N	246	LEU	C-O	6.87	1.32	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	461	GLN	N-CA	6.87	1.54	1.46
1	J	143	ASN	CA-CB	-6.87	1.42	1.53
1	C	202	ASP	C-O	6.87	1.32	1.23
1	C	289	SER	N-CA	-6.87	1.36	1.46
1	G	101	ALA	N-CA	6.86	1.54	1.46
1	G	379	CYS	CA-C	-6.86	1.43	1.52
1	A	279	GLY	C-O	6.86	1.31	1.24
1	M	57	ASN	C-O	6.86	1.32	1.24
1	C	186	PRO	CA-C	6.86	1.55	1.51
1	C	81	ASN	CG-OD1	6.86	1.36	1.23
1	J	201	VAL	CB-CG1	-6.86	1.29	1.52
1	J	295	PRO	N-CA	-6.86	1.38	1.47
1	K	202	ASP	CG-OD1	6.86	1.38	1.25
1	M	205	PHE	N-CA	-6.86	1.37	1.46
1	O	176	THR	CA-C	6.86	1.61	1.52
1	E	275	LEU	N-CA	6.85	1.55	1.46
1	K	271	VAL	CA-C	6.85	1.61	1.52
1	A	389	THR	CA-CB	-6.85	1.42	1.53
1	E	138	ASN	CG-ND2	6.85	1.47	1.33
1	J	253	GLU	CD-OE1	6.85	1.38	1.25
1	O	399	LEU	C-O	6.85	1.31	1.24
1	O	165	ILE	C-O	6.85	1.31	1.24
1	C	33	ILE	C-O	6.84	1.31	1.24
1	C	230	LYS	CB-CG	6.84	1.73	1.52
1	C	363	TYR	CA-C	-6.84	1.44	1.52
1	K	400	GLU	CD-OE1	6.84	1.38	1.25
1	K	457	ALA	CA-C	-6.84	1.44	1.52
1	D	149	MET	C-O	6.84	1.29	1.24
1	E	179	ALA	C-O	6.84	1.32	1.24
1	A	63	PRO	CA-C	6.84	1.62	1.52
1	C	461	GLN	CA-C	6.84	1.61	1.52
1	I	166	GLY	C-O	6.84	1.30	1.23
1	G	250	LEU	CA-C	6.84	1.61	1.52
1	J	44	ALA	CA-CB	6.84	1.68	1.54
1	O	146	CYS	C-O	6.84	1.32	1.23
1	B	246	LEU	C-O	6.84	1.32	1.23
1	G	27	TYR	CG-CD2	6.84	1.53	1.39
1	I	207	ALA	CA-CB	-6.84	1.43	1.53
1	N	30	ARG	CA-C	-6.84	1.44	1.52
1	L	338	ARG	C-O	6.83	1.32	1.23
1	A	129	THR	CA-C	-6.83	1.43	1.52
1	C	241	PRO	CB-CG	6.83	1.83	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	113	LEU	CA-C	-6.83	1.44	1.52
1	L	221	PRO	CA-CB	-6.83	1.44	1.53
1	N	53	LYS	CB-CG	6.83	1.73	1.52
1	N	129	THR	CA-CB	-6.83	1.44	1.54
1	E	360	PHE	CA-C	6.82	1.60	1.52
1	F	99	VAL	CA-C	6.82	1.60	1.52
1	L	61	LEU	CG-CD1	6.82	1.75	1.52
1	A	139	ALA	CA-CB	6.82	1.65	1.53
1	J	246	LEU	C-O	6.82	1.32	1.23
1	J	281	GLY	C-O	6.82	1.33	1.23
1	N	133	SER	C-O	-6.82	1.15	1.24
1	N	211	THR	CA-CB	-6.82	1.42	1.53
1	C	357	ASN	C-O	-6.82	1.15	1.24
1	J	86	PRO	N-CA	6.82	1.56	1.47
1	D	176	THR	CA-C	6.82	1.61	1.52
1	L	22	VAL	N-CA	6.82	1.53	1.46
1	L	141	VAL	CA-CB	-6.82	1.45	1.54
1	N	28	VAL	CB-CG1	6.82	1.75	1.52
1	B	296	SER	CA-C	-6.81	1.44	1.52
1	J	73	PHE	CA-C	6.81	1.61	1.52
1	N	61	LEU	C-O	6.81	1.32	1.24
1	B	305	GLN	CB-CG	-6.81	1.32	1.52
1	N	192	ASN	C-O	-6.81	1.15	1.23
1	A	456	SER	C-O	-6.81	1.15	1.23
1	L	129	THR	CA-CB	-6.81	1.42	1.53
1	L	194	VAL	N-CA	-6.81	1.38	1.46
1	M	220	VAL	C-O	-6.81	1.15	1.24
1	M	369	GLU	CA-C	-6.81	1.44	1.52
1	D	287	ALA	N-CA	6.81	1.54	1.46
1	E	282	SER	CA-C	6.81	1.62	1.52
1	F	338	ARG	CA-CB	6.80	1.58	1.53
1	G	332	THR	CA-CB	6.80	1.62	1.53
1	D	95	THR	CB-OG1	6.80	1.54	1.43
1	C	219	GLU	CD-OE1	6.80	1.38	1.25
1	D	383	LEU	C-O	-6.80	1.14	1.23
1	G	470	LEU	CG-CD1	6.80	1.75	1.52
1	C	99	VAL	C-O	6.80	1.31	1.23
1	D	23	SER	CA-C	-6.80	1.44	1.52
1	M	163	PRO	CA-CB	-6.80	1.44	1.54
1	N	161	CYS	CA-C	-6.80	1.43	1.52
1	I	276	TYR	N-CA	6.79	1.54	1.46
1	A	366	HIS	C-O	6.79	1.31	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	153	GLN	C-O	6.79	1.32	1.24
1	L	37	ALA	N-CA	-6.79	1.38	1.46
1	J	375	ILE	CA-CB	-6.79	1.44	1.54
1	O	242	TYR	C-O	6.79	1.32	1.24
1	G	181	GLN	CD-NE2	6.79	1.47	1.33
1	N	155	GLN	N-CA	-6.79	1.38	1.46
1	D	115	VAL	CB-CG1	6.79	1.75	1.52
1	A	149	MET	SD-CE	-6.79	1.62	1.79
1	B	193	THR	N-CA	-6.79	1.37	1.46
1	C	444	TYR	CA-C	-6.79	1.44	1.52
1	G	442	LYS	CE-NZ	6.79	1.69	1.49
1	A	80	PRO	C-O	-6.78	1.16	1.24
1	C	93	PRO	CA-CB	6.78	1.63	1.53
1	F	133	SER	N-CA	6.78	1.54	1.45
1	F	454	LYS	C-O	6.78	1.33	1.23
1	H	245	SER	CA-C	6.78	1.61	1.52
1	I	110	GLY	CA-C	6.78	1.61	1.51
1	C	231	TYR	C-O	6.78	1.32	1.24
1	E	296	SER	CA-C	-6.78	1.46	1.53
1	I	61	LEU	CG-CD1	6.78	1.75	1.52
1	J	347	ALA	C-O	6.78	1.32	1.23
1	O	301	THR	C-O	6.77	1.32	1.23
1	B	225	CYS	CB-SG	6.77	2.03	1.81
1	F	176	THR	CB-CG2	6.77	1.74	1.52
1	H	332	THR	CA-C	-6.77	1.44	1.52
1	L	349	SER	N-CA	6.77	1.54	1.46
1	N	138	ASN	CA-C	6.77	1.61	1.52
1	N	307	PHE	C-O	-6.77	1.15	1.23
1	M	134	ALA	CA-CB	-6.77	1.42	1.53
1	D	224	ILE	CA-C	-6.77	1.43	1.52
1	G	57	ASN	CA-C	6.77	1.61	1.52
1	I	261	PHE	N-CA	-6.77	1.37	1.45
1	H	397	THR	N-CA	-6.77	1.37	1.46
1	F	249	TYR	C-O	6.76	1.32	1.23
1	K	325	TRP	CA-C	6.76	1.60	1.52
1	F	340	THR	N-CA	-6.76	1.37	1.46
1	L	220	VAL	N-CA	-6.76	1.38	1.46
1	A	169	TRP	C-O	6.76	1.32	1.23
1	C	101	ALA	C-O	6.76	1.32	1.23
1	D	237	MET	CA-C	6.76	1.61	1.52
1	E	278	LYS	C-O	6.76	1.32	1.24
1	I	263	ARG	CZ-NH1	-6.76	1.23	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	310	PRO	C-O	6.76	1.30	1.23
1	O	39	THR	CA-C	-6.76	1.44	1.52
1	D	370	TYR	C-N	6.76	1.43	1.34
1	E	207	ALA	CA-C	-6.76	1.44	1.52
1	F	186	PRO	C-O	-6.76	1.17	1.24
1	K	363	TYR	N-CA	-6.76	1.36	1.45
1	M	31	THR	C-O	-6.76	1.15	1.23
1	E	159	ILE	CA-CB	-6.75	1.45	1.54
1	F	216	ASN	CA-C	-6.75	1.43	1.52
1	A	201	VAL	CA-C	-6.75	1.44	1.52
1	E	141	VAL	CB-CG2	-6.75	1.30	1.52
1	K	222	LEU	C-O	6.75	1.32	1.24
1	N	99	VAL	N-CA	6.75	1.53	1.46
1	N	197	ASP	C-O	-6.75	1.15	1.23
1	O	112	PRO	N-CA	6.75	1.54	1.47
1	L	151	TYR	N-CA	-6.75	1.37	1.46
1	M	369	GLU	CD-OE1	6.75	1.38	1.25
1	N	207	ALA	N-CA	-6.75	1.38	1.46
1	C	104	GLY	N-CA	-6.75	1.35	1.45
1	G	117	ILE	CA-CB	-6.75	1.46	1.54
1	C	445	THR	CA-CB	6.75	1.64	1.53
1	E	380	LYS	CA-C	6.75	1.60	1.52
1	F	168	HIS	CA-C	-6.75	1.44	1.52
1	K	129	THR	C-O	-6.75	1.15	1.24
1	D	109	ARG	CA-C	-6.75	1.44	1.52
1	H	97	ARG	C-O	6.75	1.32	1.23
1	H	160	GLY	C-O	-6.75	1.17	1.23
1	I	118	SER	C-O	6.75	1.32	1.23
1	I	76	HIS	C-O	6.75	1.32	1.23
1	O	60	ILE	CA-C	6.75	1.59	1.53
1	D	177	GLN	CA-C	6.74	1.61	1.52
1	J	398	ILE	C-N	6.74	1.42	1.33
1	L	111	GLN	CD-OE1	6.74	1.36	1.23
1	H	98	LEU	C-O	6.74	1.32	1.24
1	H	356	LYS	CG-CD	6.74	1.72	1.52
1	C	187	PRO	CG-CD	6.74	1.73	1.50
1	I	256	PHE	CE2-CZ	-6.74	1.18	1.38
1	J	154	THR	C-O	6.74	1.32	1.23
1	E	128	ASP	C-O	6.74	1.32	1.24
1	A	287	ALA	CA-CB	6.73	1.64	1.53
1	L	340	THR	N-CA	-6.73	1.37	1.46
1	N	40	SER	C-O	6.73	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	171	LYS	CA-C	-6.73	1.44	1.52
1	K	171	LYS	CG-CD	6.73	1.72	1.52
1	H	340	THR	N-CA	-6.73	1.37	1.46
1	O	130	GLU	CD-OE2	6.73	1.38	1.25
1	A	103	VAL	C-O	6.73	1.32	1.24
1	H	266	THR	CB-CG2	6.72	1.74	1.52
1	G	136	ALA	CA-C	-6.72	1.44	1.53
1	D	149	MET	SD-CE	-6.72	1.62	1.79
1	F	156	LEU	C-O	6.72	1.31	1.23
1	D	388	MET	SD-CE	6.72	1.96	1.79
1	I	41	ARG	CD-NE	6.72	1.55	1.46
1	O	459	LEU	CA-C	-6.72	1.43	1.52
1	A	380	LYS	CD-CE	6.71	1.72	1.52
1	B	472	LEU	CA-CB	6.71	1.66	1.53
1	D	174	PRO	CA-C	6.71	1.61	1.52
1	D	194	VAL	CB-CG2	6.71	1.74	1.52
1	H	165	ILE	C-O	6.71	1.32	1.24
1	L	218	SER	C-O	6.71	1.32	1.24
1	I	358	THR	CB-CG2	6.71	1.74	1.52
1	F	175	CYS	CA-C	-6.71	1.44	1.52
1	H	31	THR	CA-C	-6.71	1.44	1.53
1	J	124	ASN	CA-C	-6.71	1.45	1.53
1	J	346	ALA	CA-CB	-6.71	1.43	1.53
1	O	460	ASP	CB-CG	6.71	1.68	1.52
1	F	276	TYR	C-O	6.71	1.30	1.24
1	H	461	GLN	CA-C	6.71	1.61	1.52
1	C	471	GLN	CD-NE2	6.71	1.47	1.33
1	D	468	PHE	CE2-CZ	6.71	1.58	1.38
1	F	470	LEU	CA-CB	-6.71	1.43	1.53
1	G	38	GLY	C-O	6.71	1.32	1.23
1	I	119	GLY	C-O	6.71	1.31	1.23
1	I	448	GLU	CD-OE2	6.71	1.38	1.25
1	I	116	GLY	CA-C	6.71	1.60	1.52
1	C	470	LEU	CA-CB	-6.70	1.42	1.53
1	E	395	ASN	C-O	6.70	1.32	1.23
1	G	116	GLY	C-O	6.70	1.32	1.23
1	G	188	LEU	C-O	-6.70	1.14	1.23
1	I	73	PHE	C-O	6.70	1.32	1.23
1	I	257	VAL	CA-CB	-6.70	1.46	1.53
1	I	317	GLN	N-CA	6.70	1.55	1.46
1	K	158	LEU	CA-CB	-6.70	1.43	1.53
1	L	169	TRP	CG-CD1	-6.70	1.20	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	66	SER	CA-C	-6.70	1.44	1.52
1	O	248	PHE	C-O	6.70	1.32	1.23
1	G	185	CYS	CA-C	6.70	1.61	1.52
1	H	139	ALA	CA-C	6.70	1.61	1.53
1	F	157	CYS	CA-C	-6.70	1.45	1.52
1	H	62	VAL	CA-CB	6.70	1.62	1.54
1	H	296	SER	CA-C	6.70	1.60	1.52
1	G	181	GLN	CG-CD	6.70	1.68	1.52
1	G	337	THR	CB-CG2	6.70	1.74	1.52
1	C	181	GLN	CG-CD	6.70	1.68	1.52
1	B	453	GLU	C-O	6.69	1.34	1.23
1	M	111	GLN	CA-C	-6.69	1.45	1.52
1	M	333	VAL	N-CA	6.69	1.53	1.46
1	M	461	GLN	CA-C	6.69	1.61	1.52
1	E	285	ASN	N-CA	-6.69	1.38	1.47
1	M	163	PRO	CA-C	-6.69	1.46	1.52
1	F	218	SER	C-N	6.69	1.43	1.33
1	F	331	VAL	CA-CB	-6.69	1.46	1.54
1	B	398	ILE	N-CA	6.69	1.54	1.46
1	I	291	TYR	CG-CD1	-6.69	1.25	1.39
1	O	28	VAL	CA-CB	6.69	1.62	1.54
1	C	253	GLU	C-O	-6.68	1.15	1.24
1	E	144	ARG	CA-C	6.68	1.61	1.52
1	L	144	ARG	CZ-NH2	6.68	1.42	1.33
1	N	169	TRP	CA-C	6.68	1.61	1.52
1	O	156	LEU	CA-C	6.68	1.60	1.52
1	A	276	TYR	C-O	-6.68	1.15	1.24
1	B	246	LEU	CG-CD1	-6.68	1.30	1.52
1	D	319	HIS	CA-CB	-6.68	1.43	1.53
1	D	378	LEU	CA-C	-6.68	1.43	1.52
1	H	319	HIS	C-O	-6.68	1.16	1.24
1	I	359	ASN	N-CA	-6.68	1.38	1.46
1	B	154	THR	N-CA	6.68	1.54	1.46
1	D	65	VAL	CB-CG1	-6.68	1.30	1.52
1	D	464	LEU	CA-CB	-6.68	1.43	1.53
1	N	61	LEU	CG-CD1	6.68	1.74	1.52
1	E	130	GLU	CB-CG	-6.68	1.32	1.52
1	F	181	GLN	CD-OE1	6.68	1.36	1.23
1	A	40	SER	C-O	6.68	1.31	1.24
1	D	136	ALA	CA-C	-6.68	1.44	1.52
1	M	65	VAL	CA-C	-6.68	1.44	1.52
1	B	247	PHE	CA-CB	-6.67	1.45	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	29	ALA	CA-C	-6.67	1.44	1.52
1	J	350	THR	CA-CB	6.67	1.65	1.53
1	M	256	PHE	CA-C	-6.67	1.44	1.52
1	N	331	VAL	CA-C	6.67	1.60	1.52
1	B	472	LEU	C-OXT	6.67	1.36	1.23
1	D	284	ALA	N-CA	6.67	1.54	1.46
1	O	342	MET	N-CA	6.67	1.54	1.46
1	C	457	ALA	CA-C	6.67	1.61	1.52
1	D	152	LYS	CA-C	-6.67	1.44	1.52
1	I	299	MET	CA-C	-6.67	1.44	1.52
1	I	160	GLY	C-O	6.67	1.30	1.23
1	L	285	ASN	C-N	6.67	1.42	1.33
1	N	291	TYR	N-CA	-6.67	1.38	1.45
1	F	256	PHE	CA-CB	-6.67	1.43	1.53
1	O	443	LYS	CG-CD	6.67	1.72	1.52
1	A	257	VAL	CA-C	6.66	1.59	1.52
1	F	334	VAL	CA-CB	-6.66	1.45	1.54
1	B	111	GLN	CA-CB	-6.66	1.45	1.54
1	E	262	ASN	C-O	-6.66	1.16	1.24
1	F	233	ASP	CG-OD1	6.66	1.38	1.25
1	G	114	GLY	CA-C	-6.66	1.43	1.51
1	C	453	GLU	CD-OE2	6.66	1.38	1.25
1	D	471	GLN	CD-OE1	6.66	1.36	1.23
1	F	71	ARG	C-O	6.65	1.32	1.23
1	J	250	LEU	C-O	-6.65	1.15	1.23
1	D	140	GLY	N-CA	6.65	1.55	1.45
1	H	45	VAL	C-O	6.65	1.30	1.24
1	O	368	GLU	CD-OE1	6.65	1.38	1.25
1	C	303	ASP	C-O	-6.65	1.15	1.24
1	I	129	THR	C-O	-6.65	1.14	1.23
1	O	467	LYS	CA-C	-6.65	1.44	1.52
1	D	107	VAL	C-O	-6.65	1.16	1.24
1	N	93	PRO	CG-CD	6.65	1.73	1.50
1	A	454	LYS	CE-NZ	6.64	1.69	1.49
1	D	63	PRO	CB-CG	6.64	1.82	1.49
1	F	461	GLN	N-CA	6.64	1.54	1.46
1	I	317	GLN	CG-CD	6.64	1.68	1.52
1	J	94	ASP	CG-OD1	6.64	1.38	1.25
1	C	87	ASP	CA-C	6.64	1.60	1.52
1	L	188	LEU	CG-CD2	-6.64	1.30	1.52
1	M	29	ALA	CA-CB	-6.64	1.43	1.53
1	F	117	ILE	CB-CG2	6.64	1.74	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	193	THR	CB-CG2	6.64	1.74	1.52
1	O	394	MET	CG-SD	6.64	1.97	1.80
1	E	277	ILE	N-CA	-6.64	1.38	1.46
1	G	108	GLY	C-O	6.64	1.32	1.23
1	N	462	PHE	CA-C	-6.64	1.45	1.52
1	O	223	ASP	N-CA	6.64	1.54	1.46
1	E	41	ARG	C-O	-6.63	1.15	1.24
1	E	97	ARG	NE-CZ	6.63	1.40	1.33
1	J	455	PHE	N-CA	6.63	1.54	1.46
1	K	455	PHE	CA-CB	-6.63	1.42	1.53
1	O	403	ASN	CG-OD1	6.63	1.36	1.23
1	C	178	VAL	CB-CG2	6.63	1.74	1.52
1	D	65	VAL	N-CA	6.63	1.54	1.46
1	I	397	THR	C-O	6.63	1.32	1.24
1	A	24	THR	C-O	6.63	1.32	1.24
1	G	115	VAL	CA-CB	-6.63	1.45	1.55
1	O	302	SER	C-O	-6.63	1.16	1.24
1	B	293	PRO	C-O	-6.63	1.15	1.24
1	J	344	LEU	N-CA	-6.63	1.37	1.46
1	M	51	PRO	C-O	6.63	1.31	1.23
1	F	252	ARG	CA-C	-6.63	1.43	1.52
1	K	62	VAL	CB-CG2	-6.63	1.30	1.52
1	E	132	ALA	CA-CB	-6.63	1.40	1.54
1	M	331	VAL	C-O	-6.63	1.16	1.24
1	D	139	ALA	CA-C	6.62	1.61	1.52
1	G	401	ASP	C-O	6.62	1.31	1.24
1	M	305	GLN	C-O	6.62	1.31	1.24
1	D	220	VAL	CA-CB	-6.62	1.45	1.54
1	I	470	LEU	CG-CD2	6.62	1.74	1.52
1	J	157	CYS	C-O	-6.62	1.16	1.24
1	K	356	LYS	CA-C	-6.62	1.45	1.52
1	G	205	PHE	C-O	6.62	1.33	1.23
1	B	442	LYS	CD-CE	6.62	1.72	1.52
1	G	68	LEU	CG-CD2	-6.62	1.30	1.52
1	G	309	LYS	CE-NZ	6.62	1.69	1.49
1	F	446	PHE	CA-CB	-6.62	1.42	1.54
1	C	307	PHE	C-O	6.62	1.32	1.23
1	F	242	TYR	CA-C	-6.62	1.41	1.52
1	H	173	SER	C-O	6.62	1.32	1.24
1	L	460	ASP	CA-CB	6.62	1.65	1.53
1	O	369	GLU	C-O	-6.62	1.16	1.24
1	D	190	LEU	N-CA	6.61	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	226	THR	C-N	6.61	1.43	1.33
1	G	66	SER	C-O	6.61	1.32	1.23
1	H	21	VAL	CA-C	-6.61	1.45	1.52
1	D	470	LEU	CA-CB	-6.61	1.42	1.53
1	D	201	VAL	CB-CG1	-6.61	1.30	1.52
1	C	336	THR	CA-C	-6.61	1.43	1.52
1	H	252	ARG	C-O	-6.61	1.15	1.24
1	I	46	GLY	N-CA	6.61	1.54	1.45
1	N	173	SER	CB-OG	6.61	1.55	1.42
1	E	157	CYS	C-O	-6.60	1.16	1.24
1	O	317	GLN	CG-CD	6.60	1.68	1.52
1	D	288	SER	C-O	6.60	1.32	1.24
1	E	252	ARG	NE-CZ	-6.60	1.25	1.33
1	N	138	ASN	CB-CG	6.60	1.68	1.52
1	O	439	ASP	N-CA	6.60	1.57	1.46
1	A	467	LYS	CG-CD	6.60	1.72	1.52
1	A	350	THR	C-O	6.60	1.32	1.24
1	E	245	SER	CA-C	6.60	1.61	1.52
1	M	205	PHE	CA-C	-6.60	1.44	1.52
1	M	295	PRO	CA-C	-6.60	1.43	1.52
1	B	467	LYS	CA-C	-6.60	1.44	1.52
1	O	117	ILE	CG1-CD1	6.60	1.77	1.51
1	L	472	LEU	C-O	6.60	1.36	1.23
1	I	177	GLN	N-CA	-6.59	1.37	1.45
1	A	115	VAL	CA-C	-6.59	1.44	1.52
1	G	52	ILE	CA-C	6.59	1.61	1.52
1	A	297	GLY	C-O	6.59	1.32	1.23
1	D	244	ASP	CB-CG	6.59	1.68	1.52
1	D	323	ILE	CA-C	6.59	1.59	1.53
1	H	26	GLU	CD-OE1	6.59	1.37	1.25
1	B	178	VAL	CA-C	6.59	1.61	1.52
1	C	20	ALA	CA-CB	6.59	1.74	1.52
1	I	127	ASP	C-O	-6.59	1.15	1.23
1	M	187	PRO	CG-CD	6.59	1.73	1.50
1	O	69	GLN	CA-C	6.59	1.60	1.52
1	N	253	GLU	C-O	6.59	1.32	1.23
1	B	388	MET	SD-CE	6.59	1.96	1.79
1	G	358	THR	C-O	6.59	1.33	1.24
1	I	324	CYS	C-O	6.59	1.30	1.23
1	L	105	VAL	CB-CG1	-6.59	1.30	1.52
1	F	236	LYS	C-O	6.58	1.32	1.24
1	D	285	ASN	N-CA	-6.58	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	290	ASN	CA-CB	-6.58	1.43	1.52
1	K	149	MET	N-CA	6.58	1.55	1.46
1	K	175	CYS	N-CA	6.58	1.54	1.46
1	N	335	ASP	CG-OD2	6.58	1.37	1.25
1	O	138	ASN	C-O	6.58	1.32	1.24
1	F	51	PRO	N-CA	6.58	1.55	1.47
1	F	70	TYR	CB-CG	-6.58	1.37	1.51
1	B	190	LEU	C-O	-6.58	1.16	1.24
1	E	271	VAL	CB-CG1	6.58	1.74	1.52
1	F	248	PHE	N-CA	6.58	1.54	1.46
1	G	371	ASP	N-CA	6.58	1.54	1.46
1	N	384	THR	CA-CB	6.58	1.65	1.53
1	C	216	ASN	CG-OD1	6.58	1.36	1.23
1	M	359	ASN	CA-C	6.58	1.61	1.52
1	O	393	SER	C-O	6.58	1.32	1.24
1	C	65	VAL	CA-C	6.58	1.58	1.53
1	D	195	ILE	N-CA	-6.58	1.38	1.46
1	J	278	LYS	CA-C	6.58	1.61	1.52
1	M	209	ASP	CA-CB	6.58	1.63	1.52
1	M	164	PRO	C-O	-6.57	1.15	1.23
1	M	330	PHE	C-O	-6.57	1.16	1.23
1	B	394	MET	CB-CG	-6.57	1.32	1.52
1	D	367	GLY	N-CA	6.57	1.53	1.44
1	G	58	ASN	CA-C	6.57	1.62	1.52
1	I	294	THR	CA-CB	6.57	1.62	1.53
1	I	333	VAL	CB-CG1	-6.57	1.30	1.52
1	O	140	GLY	C-O	6.57	1.32	1.23
1	F	346	ALA	CA-CB	6.57	1.63	1.53
1	J	245	SER	CA-C	6.57	1.61	1.52
1	L	354	THR	CA-C	6.57	1.60	1.52
1	N	149	MET	C-O	-6.57	1.19	1.24
1	E	167	GLU	N-CA	-6.57	1.37	1.45
1	F	241	PRO	CB-CG	6.57	1.82	1.49
1	G	147	ILE	CA-C	-6.57	1.44	1.52
1	G	309	LYS	CD-CE	6.57	1.72	1.52
1	J	356	LYS	CA-CB	-6.57	1.43	1.53
1	K	264	ALA	CA-CB	-6.56	1.43	1.53
1	N	54	LYS	CD-CE	6.56	1.72	1.52
1	A	158	LEU	C-O	-6.56	1.16	1.24
1	C	317	GLN	CD-OE1	6.56	1.36	1.23
1	E	191	ILE	N-CA	-6.56	1.38	1.46
1	K	176	THR	C-O	6.56	1.31	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	202	ASP	C-O	6.56	1.31	1.23
1	M	439	ASP	C-N	6.56	1.41	1.34
1	G	174	PRO	C-O	6.56	1.32	1.24
1	K	326	GLY	C-O	-6.56	1.14	1.24
1	A	114	GLY	N-CA	6.56	1.52	1.44
1	E	171	LYS	CA-C	-6.56	1.44	1.53
1	O	62	VAL	CB-CG2	6.56	1.74	1.52
1	O	460	ASP	CG-OD1	6.56	1.37	1.25
1	J	225	CYS	N-CA	6.56	1.54	1.46
1	L	196	GLN	N-CA	-6.56	1.37	1.45
1	A	112	PRO	CA-C	6.56	1.60	1.52
1	C	129	THR	C-O	6.55	1.32	1.23
1	F	251	ARG	CZ-NH1	6.55	1.42	1.32
1	K	285	ASN	C-O	6.55	1.31	1.23
1	O	334	VAL	CA-C	-6.55	1.44	1.52
1	B	294	THR	CB-CG2	-6.55	1.30	1.52
1	D	73	PHE	CB-CG	-6.55	1.35	1.50
1	K	158	LEU	C-O	-6.55	1.16	1.24
1	L	322	GLY	C-O	6.55	1.32	1.23
1	N	467	LYS	CA-C	-6.55	1.46	1.53
1	K	58	ASN	CG-OD1	6.54	1.35	1.23
1	G	56	ASN	CG-OD1	6.54	1.35	1.23
1	L	390	TYR	CA-CB	-6.54	1.43	1.53
1	M	456	SER	CB-OG	6.54	1.55	1.42
1	C	56	ASN	CA-C	6.54	1.60	1.52
1	M	133	SER	C-O	6.54	1.32	1.24
1	N	95	THR	CB-OG1	6.54	1.54	1.43
1	D	22	VAL	CA-C	-6.54	1.44	1.52
1	M	155	GLN	CB-CG	-6.54	1.32	1.52
1	G	400	GLU	CG-CD	6.54	1.68	1.52
1	C	176	THR	C-O	6.54	1.32	1.24
1	D	153	GLN	C-O	6.54	1.31	1.23
1	E	163	PRO	C-O	6.54	1.30	1.24
1	F	74	ARG	CA-C	-6.54	1.44	1.52
1	J	33	ILE	C-O	6.53	1.31	1.24
1	J	55	PRO	N-CA	6.53	1.56	1.47
1	J	390	TYR	N-CA	6.53	1.53	1.46
1	L	312	TRP	N-CA	-6.53	1.38	1.46
1	M	145	GLU	CD-OE2	6.53	1.37	1.25
1	O	403	ASN	CG-ND2	6.53	1.47	1.33
1	J	145	GLU	CD-OE2	6.53	1.37	1.25
1	L	113	LEU	C-O	6.53	1.31	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	337	THR	CA-CB	-6.53	1.42	1.53
1	C	329	LEU	CG-CD1	-6.53	1.31	1.52
1	H	147	ILE	CA-C	-6.53	1.45	1.52
1	I	209	ASP	C-O	6.53	1.31	1.24
1	A	176	THR	CB-CG2	6.53	1.74	1.52
1	C	464	LEU	N-CA	-6.53	1.38	1.46
1	F	442	LYS	CD-CE	6.53	1.72	1.52
1	N	258	ARG	CB-CG	-6.52	1.32	1.52
1	D	318	GLY	CA-C	6.52	1.59	1.52
1	F	95	THR	CB-CG2	-6.52	1.31	1.52
1	H	175	CYS	C-O	6.52	1.32	1.24
1	F	132	ALA	N-CA	6.52	1.53	1.45
1	C	271	VAL	C-O	-6.52	1.16	1.24
1	F	383	LEU	CB-CG	6.52	1.66	1.53
1	H	183	GLY	C-O	6.52	1.32	1.23
1	J	463	PRO	C-O	6.52	1.32	1.24
1	L	397	THR	CA-C	6.52	1.61	1.52
1	M	108	GLY	CA-C	6.52	1.58	1.52
1	O	338	ARG	N-CA	6.51	1.55	1.46
1	J	100	TRP	CA-CB	-6.51	1.43	1.53
1	L	236	LYS	CB-CG	6.51	1.72	1.52
1	M	401	ASP	C-O	-6.51	1.16	1.24
1	O	116	GLY	C-O	6.51	1.33	1.23
1	G	271	VAL	N-CA	6.51	1.54	1.46
1	J	109	ARG	CZ-NH1	6.51	1.41	1.32
1	O	92	ASN	N-CA	6.51	1.53	1.46
1	F	456	SER	C-O	6.51	1.32	1.24
1	L	266	THR	CA-C	-6.51	1.44	1.52
1	E	22	VAL	C-O	-6.51	1.17	1.24
1	M	49	TYR	N-CA	-6.51	1.37	1.46
1	K	397	THR	CA-CB	-6.50	1.42	1.53
1	M	188	LEU	CA-C	6.50	1.62	1.53
1	A	41	ARG	CA-C	-6.50	1.44	1.52
1	H	102	CYS	CA-C	-6.50	1.44	1.52
1	H	179	ALA	C-N	6.50	1.42	1.33
1	B	358	THR	CB-CG2	6.50	1.74	1.52
1	K	446	PHE	CA-C	-6.50	1.44	1.52
1	B	267	VAL	CA-C	-6.50	1.44	1.52
1	E	258	ARG	CA-C	-6.50	1.45	1.53
1	E	390	TYR	C-O	6.50	1.31	1.24
1	M	226	THR	CA-C	6.50	1.61	1.52
1	E	100	TRP	CA-CB	-6.50	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	461	GLN	CA-C	6.50	1.61	1.52
1	J	166	GLY	C-O	-6.50	1.17	1.23
1	K	30	ARG	CA-CB	-6.50	1.44	1.53
1	B	40	SER	CA-C	6.49	1.61	1.52
1	I	217	LYS	CD-CE	6.49	1.72	1.52
1	L	136	ALA	CA-C	-6.49	1.44	1.52
1	A	82	LYS	CE-NZ	6.49	1.68	1.49
1	F	32	ASN	C-O	6.49	1.33	1.23
1	I	56	ASN	C-O	6.49	1.31	1.24
1	L	170	GLY	N-CA	6.49	1.52	1.45
1	N	353	THR	N-CA	6.49	1.54	1.46
1	C	292	PHE	CE1-CZ	-6.49	1.19	1.38
1	M	365	ARG	CA-C	-6.49	1.44	1.52
1	C	249	TYR	N-CA	6.49	1.54	1.46
1	C	359	ASN	C-O	6.49	1.32	1.23
1	D	274	ASP	C-O	-6.49	1.15	1.24
1	K	365	ARG	C-O	6.49	1.32	1.23
1	O	273	ASP	N-CA	6.49	1.55	1.46
1	C	236	LYS	CG-CD	6.48	1.72	1.52
1	J	446	PHE	N-CA	-6.48	1.37	1.45
1	N	378	LEU	N-CA	6.48	1.53	1.46
1	B	442	LYS	CE-NZ	6.48	1.68	1.49
1	B	442	LYS	N-CA	-6.48	1.38	1.46
1	F	96	GLN	N-CA	-6.48	1.38	1.46
1	H	195	ILE	CA-CB	-6.48	1.46	1.53
1	I	168	HIS	N-CA	6.48	1.54	1.46
1	O	286	LEU	N-CA	6.48	1.54	1.46
1	D	257	VAL	CB-CG2	6.48	1.74	1.52
1	F	191	ILE	C-O	6.48	1.31	1.24
1	L	307	PHE	C-O	-6.48	1.15	1.23
1	D	308	ASN	CG-ND2	6.48	1.46	1.33
1	D	452	LYS	N-CA	-6.48	1.38	1.46
1	L	199	ASP	CG-OD2	6.48	1.37	1.25
1	I	215	ALA	C-O	-6.48	1.16	1.24
1	G	143	ASN	C-O	6.47	1.32	1.24
1	E	448	GLU	CA-C	-6.47	1.44	1.52
1	B	272	PRO	CB-CG	6.47	1.82	1.49
1	A	334	VAL	CB-CG1	-6.47	1.31	1.52
1	A	440	PRO	CG-CD	6.47	1.72	1.50
1	G	467	LYS	CG-CD	6.47	1.71	1.52
1	H	385	ALA	CA-C	-6.47	1.47	1.53
1	N	211	THR	CB-CG2	-6.47	1.31	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	439	ASP	CA-C	6.47	1.60	1.52
1	L	46	GLY	N-CA	6.47	1.52	1.44
1	M	113	LEU	CA-C	-6.47	1.44	1.53
1	D	153	GLN	N-CA	6.46	1.54	1.46
1	D	295	PRO	C-O	6.46	1.32	1.24
1	F	181	GLN	C-O	6.46	1.32	1.24
1	K	341	ASN	CG-ND2	6.46	1.46	1.33
1	O	330	PHE	N-CA	6.46	1.54	1.46
1	E	356	LYS	CA-C	-6.46	1.45	1.52
1	H	327	ASN	N-CA	6.46	1.56	1.46
1	L	177	GLN	CG-CD	6.46	1.68	1.52
1	D	376	PHE	CG-CD2	6.46	1.52	1.38
1	M	343	SER	CB-OG	6.46	1.55	1.42
1	N	115	VAL	CA-C	-6.46	1.45	1.52
1	B	83	PHE	N-CA	-6.46	1.38	1.46
1	G	241	PRO	CB-CG	6.46	1.81	1.49
1	I	215	ALA	CA-CB	6.45	1.64	1.53
1	M	214	GLN	N-CA	-6.45	1.37	1.46
1	L	462	PHE	CB-CG	-6.45	1.35	1.50
1	A	200	MET	CG-SD	6.45	1.96	1.80
1	C	130	GLU	N-CA	6.45	1.54	1.46
1	G	358	THR	CA-CB	-6.45	1.44	1.53
1	O	65	VAL	CA-C	-6.45	1.44	1.52
1	G	214	GLN	CD-OE1	6.45	1.35	1.23
1	G	253	GLU	N-CA	6.45	1.53	1.46
1	J	362	GLU	CD-OE1	6.45	1.37	1.25
1	I	466	ARG	C-O	-6.45	1.15	1.24
1	N	127	ASP	N-CA	6.45	1.54	1.45
1	B	301	THR	CB-CG2	6.44	1.73	1.52
1	G	184	ASP	C-O	6.44	1.32	1.24
1	N	101	ALA	CA-C	6.44	1.60	1.52
1	N	176	THR	C-O	6.44	1.32	1.24
1	O	268	GLY	C-O	6.44	1.32	1.23
1	D	349	SER	C-O	6.44	1.32	1.24
1	I	192	ASN	CG-ND2	6.44	1.46	1.33
1	D	91	TYR	CA-C	-6.44	1.44	1.52
1	I	49	TYR	CA-C	6.44	1.60	1.52
1	K	336	THR	CA-C	-6.44	1.43	1.52
1	F	186	PRO	CA-C	6.43	1.58	1.52
1	G	336	THR	N-CA	-6.43	1.37	1.46
1	G	341	ASN	CA-C	-6.43	1.45	1.52
1	H	65	VAL	CA-C	6.43	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	238	VAL	CA-CB	6.43	1.63	1.54
1	H	208	MET	CA-C	-6.43	1.45	1.53
1	O	385	ALA	C-O	6.43	1.31	1.24
1	E	284	ALA	CA-CB	-6.43	1.42	1.53
1	M	129	THR	CA-C	-6.43	1.44	1.52
1	C	211	THR	C-O	-6.43	1.16	1.24
1	G	173	SER	CB-OG	6.43	1.55	1.42
1	K	179	ALA	CA-CB	6.43	1.60	1.52
1	N	274	ASP	N-CA	6.43	1.54	1.46
1	B	220	VAL	C-O	-6.43	1.16	1.24
1	B	448	GLU	C-O	6.43	1.31	1.24
1	H	467	LYS	CB-CG	6.43	1.71	1.52
1	K	332	THR	CA-C	-6.43	1.44	1.52
1	E	195	ILE	CG1-CD1	-6.42	1.26	1.51
1	F	231	TYR	CD1-CE1	6.42	1.57	1.38
1	I	112	PRO	CA-CB	-6.42	1.45	1.53
1	J	163	PRO	C-N	6.42	1.42	1.33
1	A	69	GLN	CA-C	6.42	1.60	1.52
1	B	169	TRP	CZ3-CH2	-6.42	1.24	1.40
1	D	174	PRO	CG-CD	6.42	1.72	1.50
1	E	472	LEU	N-CA	6.42	1.58	1.46
1	L	103	VAL	CA-C	-6.42	1.44	1.52
1	C	303	ASP	CA-C	-6.42	1.44	1.52
1	G	110	GLY	C-O	-6.42	1.15	1.23
1	I	75	ILE	CB-CG2	6.42	1.73	1.52
1	I	315	ARG	CG-CD	6.42	1.71	1.52
1	O	305	GLN	N-CA	-6.42	1.38	1.46
1	O	324	CYS	C-O	6.42	1.32	1.24
1	C	68	LEU	N-CA	6.41	1.53	1.46
1	F	176	THR	CA-C	6.41	1.61	1.52
1	L	175	CYS	N-CA	6.41	1.53	1.46
1	I	29	ALA	CA-C	-6.41	1.45	1.52
1	F	257	VAL	CA-CB	6.41	1.61	1.53
1	G	400	GLU	CD-OE2	6.41	1.37	1.25
1	H	326	GLY	C-O	-6.41	1.15	1.24
1	J	263	ARG	CG-CD	-6.41	1.33	1.52
1	M	311	TYR	C-O	-6.41	1.16	1.24
1	E	199	ASP	CA-C	-6.41	1.44	1.52
1	H	315	ARG	CZ-NH2	6.41	1.41	1.33
1	N	472	LEU	CA-CB	6.41	1.66	1.53
1	O	264	ALA	CA-CB	6.41	1.64	1.53
1	E	222	LEU	CG-CD2	6.41	1.73	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	162	LYS	CG-CD	6.41	1.71	1.52
1	I	261	PHE	CD1-CE1	-6.41	1.19	1.38
1	M	248	PHE	CA-CB	-6.41	1.41	1.53
1	O	96	GLN	CD-OE1	6.41	1.35	1.23
1	C	180	VAL	C-O	6.41	1.31	1.24
1	K	33	ILE	CA-C	6.41	1.60	1.52
1	D	291	TYR	CA-CB	-6.40	1.43	1.53
1	L	219	GLU	CD-OE1	6.40	1.37	1.25
1	E	356	LYS	C-O	-6.40	1.16	1.23
1	M	457	ALA	N-CA	-6.40	1.38	1.46
1	B	380	LYS	CD-CE	6.40	1.71	1.52
1	D	253	GLU	CD-OE1	6.40	1.37	1.25
1	E	368	GLU	CA-C	-6.40	1.44	1.52
1	J	32	ASN	CB-CG	6.40	1.68	1.52
1	L	368	GLU	CA-C	-6.40	1.45	1.52
1	E	150	ASP	CG-OD2	6.40	1.37	1.25
1	C	152	LYS	C-O	-6.40	1.16	1.23
1	I	128	ASP	C-O	6.40	1.31	1.24
1	O	342	MET	SD-CE	6.40	1.95	1.79
1	O	317	GLN	CD-OE1	6.40	1.35	1.23
1	I	130	GLU	CA-C	-6.39	1.44	1.52
1	A	470	LEU	CA-CB	-6.39	1.43	1.53
1	D	73	PHE	CG-CD1	-6.39	1.25	1.38
1	H	210	PHE	C-O	-6.39	1.16	1.24
1	K	445	THR	N-CA	-6.39	1.39	1.46
1	D	136	ALA	CA-CB	-6.39	1.42	1.53
1	A	231	TYR	C-N	6.39	1.40	1.33
1	C	64	LYS	CD-CE	6.39	1.71	1.52
1	M	371	ASP	C-O	-6.39	1.16	1.24
1	E	289	SER	C-O	-6.39	1.15	1.24
1	E	210	PHE	C-O	6.39	1.31	1.24
1	J	325	TRP	C-O	6.39	1.32	1.24
1	M	383	LEU	CA-C	-6.39	1.44	1.52
1	N	335	ASP	C-O	6.39	1.31	1.23
1	A	155	GLN	C-O	-6.38	1.16	1.24
1	H	356	LYS	CA-C	-6.38	1.44	1.52
1	L	77	LEU	CA-C	-6.38	1.43	1.53
1	L	291	TYR	CA-CB	6.38	1.62	1.53
1	B	190	LEU	CA-C	-6.38	1.44	1.52
1	E	137	ALA	CA-C	-6.38	1.44	1.52
1	G	263	ARG	CG-CD	-6.38	1.33	1.52
1	J	249	TYR	C-N	-6.38	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	326	GLY	CA-C	6.38	1.60	1.51
1	F	110	GLY	C-O	6.38	1.32	1.23
1	M	179	ALA	CA-CB	-6.38	1.42	1.53
1	C	173	SER	CA-CB	6.38	1.63	1.53
1	C	342	MET	C-O	6.38	1.31	1.23
1	E	370	TYR	CA-CB	-6.38	1.43	1.53
1	H	33	ILE	CA-CB	-6.38	1.46	1.54
1	I	141	VAL	CB-CG2	-6.38	1.31	1.52
1	N	260	LEU	N-CA	-6.38	1.38	1.46
1	N	449	VAL	C-O	6.38	1.30	1.24
1	O	266	THR	CB-CG2	6.38	1.73	1.52
1	C	288	SER	CA-C	-6.37	1.44	1.52
1	E	22	VAL	CB-CG1	6.37	1.73	1.52
1	A	66	SER	CA-C	-6.37	1.45	1.52
1	A	185	CYS	C-N	6.37	1.40	1.33
1	A	374	PHE	CE1-CZ	-6.37	1.19	1.38
1	C	372	LEU	N-CA	-6.37	1.38	1.45
1	F	179	ALA	CA-CB	6.37	1.60	1.52
1	L	134	ALA	N-CA	-6.37	1.38	1.46
1	L	285	ASN	N-CA	-6.37	1.39	1.46
1	N	235	ILE	C-O	6.37	1.31	1.24
1	A	311	TYR	CA-CB	-6.37	1.44	1.53
1	K	282	SER	CA-C	6.37	1.61	1.52
1	A	273	ASP	CA-CB	6.37	1.63	1.53
1	H	307	PHE	CE2-CZ	-6.37	1.19	1.38
1	N	355	TYR	CA-C	6.37	1.61	1.52
1	O	337	THR	CA-CB	-6.37	1.42	1.53
1	N	128	ASP	CG-OD2	6.37	1.37	1.25
1	G	213	LEU	C-O	6.37	1.32	1.24
1	K	69	GLN	CA-C	6.37	1.60	1.52
1	L	209	ASP	CA-C	-6.37	1.45	1.52
1	O	264	ALA	C-O	6.37	1.32	1.23
1	C	311	TYR	N-CA	6.36	1.54	1.46
1	C	314	GLN	CD-NE2	6.36	1.46	1.33
1	D	237	MET	C-O	6.36	1.31	1.24
1	G	296	SER	N-CA	6.36	1.55	1.47
1	L	51	PRO	CA-CB	-6.36	1.45	1.53
1	J	225	CYS	C-O	6.36	1.31	1.24
1	B	472	LEU	CA-C	6.36	1.66	1.52
1	C	206	GLY	C-O	6.36	1.33	1.23
1	D	291	TYR	N-CA	-6.36	1.37	1.45
1	B	176	THR	CA-CB	6.36	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	462	PHE	C-N	-6.36	1.26	1.34
1	E	97	ARG	CZ-NH2	6.36	1.41	1.33
1	K	113	LEU	CA-CB	-6.36	1.43	1.53
1	D	56	ASN	CA-C	6.36	1.58	1.52
1	F	61	LEU	CG-CD1	6.36	1.73	1.52
1	F	178	VAL	C-O	6.36	1.31	1.24
1	H	271	VAL	CA-C	6.36	1.60	1.52
1	H	61	LEU	CG-CD1	6.35	1.73	1.52
1	K	174	PRO	N-CA	6.35	1.55	1.47
1	B	236	LYS	C-O	-6.35	1.16	1.24
1	D	193	THR	N-CA	-6.35	1.37	1.46
1	L	329	LEU	N-CA	-6.35	1.38	1.46
1	E	367	GLY	CA-C	6.35	1.58	1.52
1	N	286	LEU	CA-C	-6.35	1.44	1.52
1	E	86	PRO	C-O	6.35	1.32	1.24
1	J	97	ARG	N-CA	6.35	1.53	1.46
1	L	280	SER	CB-OG	6.35	1.54	1.42
1	N	355	TYR	CZ-OH	6.35	1.51	1.38
1	B	232	PRO	C-O	6.35	1.30	1.23
1	K	75	ILE	C-O	6.35	1.31	1.24
1	D	20	ALA	CA-CB	6.35	1.73	1.52
1	D	174	PRO	CB-CG	6.35	1.81	1.49
1	A	365	ARG	CZ-NH2	6.34	1.41	1.33
1	L	403	ASN	CA-CB	6.34	1.66	1.53
1	A	127	ASP	CG-OD2	6.34	1.37	1.25
1	A	370	TYR	C-O	6.34	1.31	1.23
1	B	30	ARG	CA-C	-6.34	1.45	1.52
1	C	298	SER	C-O	6.34	1.31	1.23
1	D	214	GLN	CD-NE2	-6.34	1.20	1.33
1	K	334	VAL	CA-CB	6.34	1.62	1.54
1	H	214	GLN	CD-OE1	6.34	1.35	1.23
1	L	379	CYS	CA-C	-6.34	1.44	1.52
1	J	181	GLN	CD-OE1	6.33	1.35	1.23
1	H	236	LYS	CA-C	-6.33	1.44	1.53
1	N	99	VAL	CA-CB	6.33	1.65	1.54
1	F	459	LEU	C-O	-6.33	1.15	1.24
1	I	252	ARG	N-CA	-6.33	1.38	1.46
1	J	274	ASP	CA-C	6.33	1.60	1.52
1	I	359	ASN	CG-OD1	6.33	1.35	1.23
1	B	269	GLU	CB-CG	6.33	1.71	1.52
1	G	303	ASP	CA-C	-6.33	1.44	1.52
1	N	361	LYS	CA-C	6.33	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	199	ASP	C-N	-6.33	1.24	1.33
1	I	466	ARG	CA-CB	6.32	1.64	1.53
1	K	445	THR	CA-C	-6.32	1.45	1.52
1	N	107	VAL	CA-CB	-6.32	1.45	1.54
1	O	371	ASP	C-O	6.32	1.31	1.23
1	D	109	ARG	NE-CZ	6.32	1.40	1.33
1	F	54	LYS	CE-NZ	6.32	1.68	1.49
1	B	214	GLN	CB-CG	6.32	1.71	1.52
1	C	221	PRO	CA-C	-6.32	1.43	1.52
1	G	149	MET	N-CA	6.32	1.56	1.46
1	A	89	SER	C-O	-6.32	1.15	1.24
1	I	388	MET	SD-CE	6.32	1.95	1.79
1	K	22	VAL	C-O	6.32	1.30	1.23
1	C	58	ASN	C-O	6.32	1.32	1.23
1	C	146	CYS	CA-CB	-6.32	1.45	1.53
1	H	320	ASN	CA-C	-6.32	1.44	1.53
1	M	181	GLN	C-O	6.32	1.31	1.24
1	N	383	LEU	CG-CD1	6.32	1.73	1.52
1	N	397	THR	C-O	-6.32	1.16	1.24
1	G	206	GLY	C-O	6.31	1.32	1.23
1	L	167	GLU	CA-C	6.31	1.60	1.52
1	J	310	PRO	CA-C	-6.31	1.43	1.52
1	M	376	PHE	N-CA	6.31	1.53	1.46
1	B	197	ASP	C-O	-6.31	1.16	1.23
1	C	391	ILE	CA-CB	-6.31	1.45	1.54
1	E	306	ILE	CA-C	-6.31	1.43	1.52
1	J	51	PRO	CA-C	6.31	1.59	1.52
1	A	106	GLU	C-N	6.31	1.41	1.33
1	E	208	MET	C-O	6.31	1.30	1.24
1	F	181	GLN	CG-CD	6.31	1.67	1.52
1	K	440	PRO	C-O	6.31	1.33	1.24
1	N	56	ASN	N-CA	6.31	1.54	1.46
1	B	135	TYR	C-O	-6.31	1.16	1.23
1	B	184	ASP	C-O	-6.31	1.16	1.24
1	F	154	THR	N-CA	6.31	1.53	1.46
1	L	447	TRP	N-CA	-6.31	1.38	1.46
1	O	89	SER	C-O	6.31	1.31	1.24
1	F	329	LEU	N-CA	-6.31	1.38	1.46
1	A	471	GLN	C-O	6.30	1.32	1.24
1	I	203	THR	CA-C	6.30	1.60	1.52
1	K	181	GLN	N-CA	-6.30	1.38	1.45
1	L	36	HIS	C-O	-6.30	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	390	TYR	CE1-CZ	6.30	1.53	1.38
1	C	276	TYR	C-O	-6.30	1.19	1.24
1	D	65	VAL	CA-C	6.30	1.58	1.53
1	E	252	ARG	CG-CD	6.30	1.71	1.52
1	F	362	GLU	CB-CG	6.30	1.71	1.52
1	K	282	SER	N-CA	6.30	1.54	1.46
1	A	443	LYS	CE-NZ	6.30	1.68	1.49
1	F	72	VAL	N-CA	6.30	1.54	1.46
1	H	457	ALA	CA-CB	-6.30	1.43	1.53
1	M	220	VAL	CA-CB	-6.30	1.46	1.54
1	A	355	TYR	CZ-OH	6.30	1.51	1.38
1	D	307	PHE	CG-CD1	-6.30	1.25	1.38
1	I	100	TRP	CA-CB	-6.30	1.43	1.53
1	L	256	PHE	CA-C	6.30	1.60	1.52
1	M	171	LYS	CG-CD	6.30	1.71	1.52
1	O	312	TRP	CE2-CZ2	-6.30	1.26	1.39
1	E	83	PHE	CG-CD1	6.29	1.52	1.38
1	E	206	GLY	C-O	6.29	1.31	1.23
1	E	117	ILE	CA-C	-6.29	1.44	1.52
1	D	358	THR	CB-CG2	6.29	1.73	1.52
1	M	158	LEU	CA-C	-6.29	1.45	1.52
1	O	125	LYS	CG-CD	6.29	1.71	1.52
1	N	472	LEU	C-OXT	6.29	1.36	1.23
1	D	108	GLY	C-O	6.29	1.32	1.23
1	I	395	ASN	N-CA	-6.29	1.39	1.46
1	J	377	GLN	CG-CD	6.29	1.67	1.52
1	A	356	LYS	CG-CD	6.29	1.71	1.52
1	D	102	CYS	N-CA	-6.29	1.38	1.46
1	E	60	ILE	C-O	-6.29	1.16	1.23
1	F	64	LYS	CA-C	6.29	1.60	1.52
1	H	316	ALA	C-O	-6.29	1.16	1.24
1	N	91	TYR	N-CA	-6.29	1.37	1.45
1	B	292	PHE	CE1-CZ	-6.28	1.19	1.38
1	B	329	LEU	C-O	6.28	1.30	1.23
1	G	32	ASN	CA-C	-6.28	1.44	1.52
1	G	168	HIS	N-CA	6.28	1.54	1.46
1	I	466	ARG	CB-CG	6.28	1.71	1.52
1	H	227	SER	C-O	-6.28	1.14	1.23
1	K	341	ASN	C-O	-6.28	1.16	1.24
1	N	55	PRO	C-O	6.28	1.32	1.24
1	L	237	MET	N-CA	-6.28	1.38	1.46
1	L	451	LEU	C-O	-6.28	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	387	VAL	N-CA	-6.28	1.38	1.46
1	A	101	ALA	CA-CB	-6.28	1.43	1.53
1	G	263	ARG	C-O	6.28	1.31	1.24
1	F	179	ALA	N-CA	6.28	1.54	1.46
1	J	360	PHE	CA-C	-6.28	1.45	1.52
1	L	97	ARG	CZ-NH1	6.28	1.41	1.32
1	J	311	TYR	C-O	6.28	1.31	1.24
1	K	447	TRP	CA-C	6.28	1.61	1.52
1	C	221	PRO	N-CA	6.27	1.55	1.47
1	F	294	THR	C-N	-6.27	1.24	1.33
1	I	342	MET	CA-C	-6.27	1.44	1.53
1	N	452	LYS	CG-CD	6.27	1.71	1.52
1	B	286	LEU	N-CA	6.27	1.54	1.46
1	E	269	GLU	CD-OE1	6.27	1.37	1.25
1	I	358	THR	CB-OG1	6.27	1.53	1.43
1	J	113	LEU	N-CA	-6.27	1.38	1.46
1	N	471	GLN	CD-OE1	6.27	1.35	1.23
1	F	131	ASN	CG-ND2	-6.27	1.20	1.33
1	H	139	ALA	C-O	6.27	1.31	1.23
1	I	194	VAL	C-O	6.27	1.30	1.24
1	I	450	ASN	C-O	6.27	1.31	1.24
1	M	446	PHE	C-O	-6.27	1.15	1.23
1	L	98	LEU	CG-CD1	6.27	1.73	1.52
1	M	42	LEU	CG-CD2	6.26	1.73	1.52
1	B	323	ILE	N-CA	-6.26	1.38	1.46
1	D	346	ALA	CA-CB	6.26	1.63	1.53
1	F	117	ILE	CG1-CD1	6.26	1.76	1.51
1	H	31	THR	C-O	6.26	1.32	1.23
1	C	123	LEU	N-CA	6.26	1.53	1.46
1	M	279	GLY	CA-C	6.26	1.60	1.51
1	N	91	TYR	CA-C	6.26	1.60	1.52
1	E	381	ILE	CG1-CD1	-6.26	1.27	1.51
1	G	459	LEU	C-O	-6.26	1.15	1.24
1	M	88	THR	N-CA	-6.26	1.40	1.46
1	O	472	LEU	N-CA	6.26	1.58	1.46
1	F	104	GLY	C-O	6.25	1.32	1.23
1	C	270	ASN	C-O	6.25	1.31	1.23
1	J	471	GLN	CA-CB	-6.25	1.43	1.53
1	K	304	ALA	C-N	-6.25	1.25	1.33
1	N	171	LYS	C-O	6.25	1.31	1.24
1	B	265	GLY	N-CA	6.25	1.52	1.45
1	C	356	LYS	CE-NZ	6.25	1.68	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	270	ASN	CG-ND2	6.25	1.46	1.33
1	K	159	ILE	CG1-CD1	6.25	1.76	1.51
1	A	238	VAL	N-CA	-6.25	1.39	1.46
1	B	301	THR	C-O	-6.25	1.16	1.24
1	I	258	ARG	CZ-NH2	-6.25	1.25	1.33
1	M	137	ALA	CA-C	-6.25	1.44	1.52
1	D	287	ALA	CA-CB	6.25	1.63	1.53
1	H	128	ASP	C-O	-6.25	1.16	1.23
1	L	181	GLN	CG-CD	6.25	1.67	1.52
1	M	232	PRO	C-O	6.25	1.31	1.23
1	N	97	ARG	N-CA	6.25	1.53	1.45
1	D	156	LEU	C-O	6.24	1.31	1.23
1	D	356	LYS	CG-CD	6.24	1.71	1.52
1	E	299	MET	SD-CE	6.24	1.95	1.79
1	I	195	ILE	CA-C	-6.24	1.44	1.52
1	E	75	ILE	C-O	-6.24	1.17	1.24
1	F	341	ASN	CA-C	-6.24	1.45	1.52
1	L	369	GLU	CA-C	6.24	1.60	1.52
1	G	185	CYS	C-N	6.24	1.39	1.33
1	J	254	GLN	C-O	6.24	1.31	1.23
1	K	27	TYR	CD1-CE1	6.24	1.57	1.38
1	B	272	PRO	CG-CD	6.24	1.72	1.50
1	D	312	TRP	NE1-CE2	-6.24	1.30	1.37
1	K	110	GLY	N-CA	6.24	1.54	1.45
1	L	240	GLU	C-O	-6.24	1.15	1.24
1	E	255	MET	N-CA	-6.24	1.38	1.46
1	B	229	CYS	CA-C	-6.24	1.45	1.52
1	M	444	TYR	CA-C	-6.24	1.44	1.52
1	J	36	HIS	N-CA	6.23	1.53	1.46
1	O	86	PRO	N-CA	6.23	1.55	1.47
1	C	199	ASP	CA-C	-6.23	1.44	1.53
1	D	220	VAL	CA-C	-6.23	1.46	1.52
1	C	233	ASP	N-CA	-6.23	1.38	1.46
1	G	52	ILE	C-O	6.23	1.31	1.24
1	K	262	ASN	CG-OD1	6.23	1.35	1.23
1	L	300	VAL	CB-CG2	-6.23	1.31	1.52
1	O	91	TYR	C-O	6.23	1.31	1.23
1	O	439	ASP	C-O	6.23	1.31	1.24
1	C	250	LEU	N-CA	-6.23	1.38	1.46
1	F	62	VAL	C-O	6.23	1.32	1.24
1	G	21	VAL	CB-CG1	6.23	1.73	1.52
1	G	217	LYS	CE-NZ	6.23	1.68	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	65	VAL	CB-CG1	-6.23	1.31	1.52
1	J	198	GLY	C-O	6.23	1.33	1.24
1	I	53	LYS	C-O	6.23	1.33	1.23
1	E	337	THR	CB-CG2	-6.22	1.32	1.52
1	G	466	ARG	CA-C	-6.22	1.44	1.52
1	I	258	ARG	CZ-NH1	6.22	1.41	1.32
1	I	284	ALA	CA-CB	-6.22	1.43	1.53
1	J	142	ASP	CG-OD1	6.22	1.37	1.25
1	C	336	THR	N-CA	-6.22	1.38	1.46
1	K	368	GLU	C-O	-6.22	1.16	1.23
1	N	440	PRO	C-O	6.22	1.33	1.24
1	O	290	ASN	CG-ND2	6.22	1.46	1.33
1	G	230	LYS	CE-NZ	6.22	1.68	1.49
1	E	312	TRP	CA-CB	-6.22	1.44	1.53
1	M	64	LYS	CG-CD	6.22	1.71	1.52
1	A	284	ALA	CA-CB	6.22	1.63	1.53
1	B	310	PRO	CA-C	6.22	1.59	1.52
1	G	336	THR	CB-OG1	6.22	1.53	1.43
1	I	199	ASP	N-CA	-6.22	1.37	1.45
1	L	115	VAL	CA-C	-6.21	1.45	1.52
1	A	387	VAL	N-CA	6.21	1.54	1.46
1	K	120	HIS	CA-C	6.21	1.59	1.52
1	A	49	TYR	CA-C	6.21	1.58	1.52
1	B	144	ARG	CD-NE	-6.21	1.37	1.46
1	F	228	ILE	CA-CB	-6.21	1.46	1.54
1	H	56	ASN	CG-OD1	6.21	1.35	1.23
1	H	144	ARG	NE-CZ	-6.21	1.26	1.33
1	N	168	HIS	C-O	6.21	1.31	1.23
1	I	313	LEU	N-CA	6.21	1.53	1.46
1	N	27	TYR	N-CA	6.21	1.54	1.46
1	I	286	LEU	N-CA	6.21	1.54	1.46
1	I	320	ASN	CB-CG	6.21	1.67	1.52
1	M	212	THR	C-O	6.21	1.31	1.23
1	E	185	CYS	CA-CB	6.21	1.63	1.53
1	I	402	TRP	C-O	6.21	1.31	1.24
1	J	175	CYS	N-CA	6.21	1.53	1.46
1	A	207	ALA	CA-CB	-6.20	1.42	1.53
1	D	118	SER	CB-OG	6.20	1.54	1.42
1	N	205	PHE	N-CA	-6.20	1.38	1.46
1	O	250	LEU	CA-C	6.20	1.59	1.52
1	A	195	ILE	C-O	-6.20	1.18	1.23
1	K	27	TYR	CD2-CE2	6.20	1.57	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	317	GLN	CG-CD	6.20	1.67	1.52
1	E	40	SER	CB-OG	6.20	1.54	1.42
1	G	51	PRO	CA-C	-6.20	1.45	1.52
1	L	90	PHE	C-O	-6.20	1.16	1.24
1	D	128	ASP	C-O	-6.20	1.16	1.23
1	K	396	SER	N-CA	6.20	1.53	1.46
1	A	228	ILE	N-CA	6.20	1.53	1.46
1	D	123	LEU	C-O	-6.20	1.16	1.23
1	F	35	TYR	C-O	6.20	1.31	1.23
1	K	64	LYS	CA-CB	-6.20	1.44	1.53
1	O	99	VAL	CB-CG1	-6.20	1.32	1.52
1	F	97	ARG	CB-CG	6.19	1.71	1.52
1	F	298	SER	N-CA	-6.19	1.36	1.45
1	C	134	ALA	CA-C	-6.19	1.44	1.52
1	D	394	MET	C-O	6.19	1.31	1.24
1	M	86	PRO	C-O	6.19	1.32	1.24
1	A	220	VAL	C-O	-6.19	1.16	1.24
1	F	223	ASP	CA-CB	-6.19	1.44	1.53
1	H	247	PHE	CA-C	-6.19	1.44	1.52
1	H	313	LEU	C-O	6.18	1.33	1.24
1	J	164	PRO	C-O	-6.18	1.16	1.23
1	C	197	ASP	CA-C	-6.18	1.44	1.52
1	H	224	ILE	CB-CG1	-6.18	1.41	1.53
1	E	256	PHE	CA-C	6.18	1.60	1.52
1	G	359	ASN	N-CA	6.18	1.54	1.46
1	N	139	ALA	C-N	6.18	1.42	1.33
1	O	457	ALA	C-O	6.18	1.31	1.24
1	C	211	THR	CA-CB	-6.18	1.43	1.53
1	K	163	PRO	CA-C	-6.18	1.48	1.52
1	K	221	PRO	N-CD	-6.18	1.39	1.47
1	C	224	ILE	CA-C	-6.17	1.45	1.53
1	J	53	LYS	CA-C	6.17	1.60	1.52
1	A	369	GLU	C-O	-6.17	1.17	1.24
1	D	178	VAL	C-O	6.17	1.31	1.24
1	F	237	MET	CA-C	6.17	1.61	1.52
1	H	333	VAL	C-N	6.17	1.41	1.33
1	I	342	MET	C-O	6.17	1.31	1.23
1	N	396	SER	C-O	6.17	1.31	1.24
1	O	334	VAL	CB-CG2	6.17	1.73	1.52
1	B	22	VAL	CA-CB	-6.17	1.46	1.54
1	D	344	LEU	C-O	6.17	1.31	1.23
1	G	367	GLY	N-CA	6.17	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	221	PRO	CB-CG	-6.17	1.18	1.49
1	M	356	LYS	CA-CB	-6.17	1.43	1.53
1	O	40	SER	CA-CB	6.17	1.63	1.53
1	O	78	PRO	CB-CG	-6.17	1.18	1.49
1	E	58	ASN	C-O	6.17	1.31	1.23
1	F	363	TYR	C-O	6.17	1.31	1.23
1	N	282	SER	CB-OG	6.17	1.54	1.42
1	B	159	ILE	CA-C	6.16	1.60	1.52
1	C	129	THR	CA-CB	-6.16	1.43	1.53
1	C	260	LEU	C-N	6.16	1.41	1.33
1	D	443	LYS	C-O	6.16	1.31	1.24
1	D	341	ASN	CG-OD1	6.16	1.35	1.23
1	F	284	ALA	CA-CB	-6.16	1.43	1.53
1	E	277	ILE	CA-C	-6.16	1.45	1.52
1	F	252	ARG	C-O	-6.16	1.16	1.24
1	H	458	ASP	CA-C	6.16	1.61	1.52
1	O	63	PRO	CG-CD	6.16	1.71	1.50
1	O	365	ARG	CA-CB	-6.16	1.42	1.53
1	G	230	LYS	CB-CG	6.16	1.71	1.52
1	I	371	ASP	CA-C	6.16	1.61	1.52
1	J	206	GLY	N-CA	6.16	1.52	1.45
1	N	208	MET	CB-CG	6.16	1.71	1.52
1	E	245	SER	N-CA	6.16	1.54	1.46
1	A	332	THR	N-CA	6.16	1.54	1.46
1	H	460	ASP	N-CA	6.16	1.54	1.46
1	L	42	LEU	CG-CD2	6.16	1.72	1.52
1	N	347	ALA	CA-C	6.16	1.61	1.53
1	J	98	LEU	CG-CD1	6.15	1.72	1.52
1	O	397	THR	CA-CB	6.15	1.63	1.53
1	A	149	MET	CG-SD	-6.15	1.65	1.80
1	C	127	ASP	N-CA	6.15	1.53	1.45
1	H	241	PRO	CA-C	-6.15	1.43	1.52
1	L	108	GLY	C-O	6.15	1.30	1.24
1	M	99	VAL	C-O	6.15	1.30	1.24
1	H	95	THR	CA-CB	6.15	1.63	1.53
1	K	91	TYR	C-O	6.15	1.31	1.23
1	F	163	PRO	CA-C	6.15	1.57	1.52
1	H	144	ARG	CZ-NH1	-6.15	1.24	1.32
1	M	56	ASN	CG-OD1	6.15	1.35	1.23
1	C	216	ASN	N-CA	-6.15	1.38	1.46
1	L	230	LYS	CE-NZ	6.15	1.67	1.49
1	A	32	ASN	CB-CG	6.14	1.67	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	453	GLU	C-O	6.14	1.31	1.24
1	E	176	THR	CB-CG2	6.14	1.72	1.52
1	J	349	SER	CA-CB	6.14	1.63	1.53
1	L	97	ARG	CG-CD	6.14	1.70	1.52
1	L	466	ARG	N-CA	-6.14	1.38	1.46
1	A	228	ILE	CG1-CD1	6.14	1.75	1.51
1	I	291	TYR	CE1-CZ	-6.14	1.23	1.38
1	K	64	LYS	N-CA	-6.14	1.38	1.46
1	L	377	GLN	C-O	-6.14	1.16	1.24
1	E	245	SER	C-O	6.14	1.31	1.24
1	C	296	SER	C-O	-6.14	1.16	1.23
1	K	360	PHE	CE1-CZ	-6.14	1.20	1.38
1	N	358	THR	CA-CB	6.14	1.61	1.53
1	B	70	TYR	CB-CG	-6.14	1.38	1.51
1	B	312	TRP	CG-CD1	-6.14	1.21	1.36
1	D	354	THR	CB-CG2	-6.14	1.32	1.52
1	I	372	LEU	C-O	-6.14	1.16	1.23
1	I	372	LEU	N-CA	-6.14	1.38	1.45
1	A	294	THR	CA-C	-6.13	1.46	1.53
1	H	115	VAL	CB-CG2	-6.13	1.32	1.52
1	J	46	GLY	C-O	6.13	1.29	1.24
1	N	123	LEU	N-CA	-6.13	1.38	1.46
1	G	70	TYR	C-O	6.13	1.31	1.24
1	J	337	THR	C-O	6.13	1.31	1.24
1	A	370	TYR	N-CA	6.13	1.53	1.45
1	B	70	TYR	CG-CD1	-6.13	1.26	1.39
1	B	138	ASN	CA-C	6.13	1.60	1.52
1	A	69	GLN	CD-OE1	6.13	1.35	1.23
1	B	401	ASP	CG-OD1	6.13	1.36	1.25
1	K	125	LYS	CD-CE	6.13	1.70	1.52
1	L	222	LEU	C-O	-6.13	1.16	1.24
1	F	150	ASP	C-O	6.13	1.31	1.23
1	I	260	LEU	CG-CD2	-6.13	1.32	1.52
1	M	300	VAL	C-O	6.13	1.32	1.24
1	B	124	ASN	CB-CG	6.13	1.67	1.52
1	G	48	PRO	CA-C	-6.13	1.41	1.52
1	L	199	ASP	C-O	-6.13	1.15	1.23
1	M	455	PHE	N-CA	6.13	1.53	1.46
1	I	345	CYS	N-CA	6.12	1.53	1.46
1	L	139	ALA	N-CA	6.12	1.54	1.46
1	C	55	PRO	C-O	6.12	1.32	1.24
1	C	468	PHE	CA-CB	-6.12	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	54	LYS	CA-CB	6.12	1.64	1.53
1	E	227	SER	CB-OG	6.12	1.54	1.42
1	E	394	MET	CA-CB	-6.12	1.43	1.53
1	F	277	ILE	CA-CB	-6.12	1.44	1.54
1	K	470	LEU	CA-CB	-6.12	1.44	1.53
1	N	236	LYS	CG-CD	6.12	1.70	1.52
1	A	220	VAL	N-CA	-6.12	1.39	1.46
1	I	41	ARG	NE-CZ	6.12	1.39	1.33
1	A	157	CYS	C-O	-6.12	1.16	1.23
1	A	338	ARG	CG-CD	6.12	1.70	1.52
1	M	135	TYR	C-N	-6.12	1.25	1.33
1	M	321	ASN	C-O	6.12	1.33	1.24
1	E	100	TRP	CB-CG	-6.12	1.31	1.50
1	I	58	ASN	C-O	6.12	1.32	1.24
1	I	195	ILE	C-O	-6.12	1.16	1.24
1	O	208	MET	SD-CE	6.12	1.94	1.79
1	A	95	THR	CB-OG1	6.12	1.53	1.43
1	F	283	THR	CB-CG2	6.12	1.72	1.52
1	H	57	ASN	CA-C	6.12	1.61	1.53
1	E	364	LEU	CA-C	6.12	1.59	1.52
1	I	184	ASP	CA-CB	6.12	1.63	1.53
1	K	309	LYS	CD-CE	6.12	1.70	1.52
1	B	212	THR	CB-CG2	6.11	1.72	1.52
1	H	293	PRO	C-O	-6.11	1.16	1.24
1	I	91	TYR	C-O	6.11	1.32	1.23
1	K	271	VAL	C-O	-6.11	1.17	1.25
1	L	334	VAL	C-O	6.11	1.30	1.24
1	M	136	ALA	C-O	6.11	1.30	1.23
1	A	258	ARG	C-O	6.11	1.32	1.23
1	A	267	VAL	CA-CB	-6.11	1.46	1.54
1	C	187	PRO	C-O	6.11	1.28	1.24
1	A	96	GLN	C-O	6.11	1.31	1.24
1	A	115	VAL	CB-CG2	-6.11	1.32	1.52
1	E	355	TYR	C-O	6.11	1.31	1.23
1	A	219	GLU	CD-OE1	6.11	1.36	1.25
1	C	374	PHE	CG-CD1	6.11	1.51	1.38
1	L	455	PHE	N-CA	6.11	1.53	1.45
1	A	56	ASN	CG-OD1	6.11	1.35	1.23
1	I	394	MET	CA-C	6.11	1.60	1.52
1	K	338	ARG	CZ-NH2	6.11	1.41	1.33
1	M	92	ASN	C-O	-6.11	1.19	1.25
1	D	73	PHE	CA-C	6.11	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	318	GLY	CA-C	-6.11	1.42	1.52
1	H	472	LEU	N-CA	6.11	1.57	1.46
1	J	321	ASN	CG-OD1	6.11	1.35	1.23
1	N	132	ALA	CA-CB	6.11	1.63	1.53
1	O	158	LEU	C-N	6.11	1.41	1.33
1	B	181	GLN	CD-NE2	6.10	1.46	1.33
1	F	310	PRO	CA-C	6.10	1.59	1.52
1	K	222	LEU	CG-CD1	-6.10	1.32	1.52
1	N	25	ASP	CG-OD2	6.10	1.36	1.25
1	L	21	VAL	C-O	-6.10	1.16	1.24
1	L	188	LEU	C-O	-6.10	1.15	1.23
1	L	299	MET	SD-CE	6.10	1.94	1.79
1	B	256	PHE	CG-CD2	6.10	1.51	1.38
1	D	29	ALA	CA-CB	6.10	1.64	1.53
1	K	139	ALA	C-O	6.10	1.31	1.23
1	O	304	ALA	CA-C	-6.10	1.44	1.52
1	F	98	LEU	C-O	6.10	1.31	1.24
1	G	400	GLU	C-O	6.10	1.31	1.24
1	O	315	ARG	CA-C	-6.10	1.45	1.52
1	C	263	ARG	CD-NE	-6.10	1.37	1.46
1	G	51	PRO	N-CD	6.10	1.56	1.47
1	B	371	ASP	C-O	-6.10	1.16	1.23
1	B	375	ILE	CA-CB	-6.09	1.46	1.54
1	D	464	LEU	CG-CD2	-6.09	1.32	1.52
1	F	365	ARG	CZ-NH1	6.09	1.41	1.32
1	H	201	VAL	CA-CB	-6.09	1.46	1.54
1	A	104	GLY	N-CA	6.09	1.54	1.45
1	C	123	LEU	CG-CD2	6.09	1.72	1.52
1	J	373	GLN	C-O	6.09	1.32	1.23
1	K	42	LEU	CA-C	-6.09	1.44	1.53
1	L	463	PRO	CB-CG	6.09	1.80	1.49
1	B	142	ASP	CB-CG	-6.09	1.36	1.52
1	C	257	VAL	CA-CB	-6.09	1.47	1.54
1	F	261	PHE	CA-C	6.09	1.60	1.52
1	G	108	GLY	CA-C	6.09	1.60	1.51
1	L	300	VAL	CA-CB	6.09	1.61	1.54
1	D	264	ALA	C-O	6.09	1.31	1.23
1	M	173	SER	CB-OG	6.09	1.54	1.42
1	C	293	PRO	C-O	-6.08	1.16	1.24
1	L	152	LYS	CB-CG	-6.08	1.34	1.52
1	D	108	GLY	C-N	6.08	1.41	1.33
1	F	337	THR	CA-C	-6.08	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	194	VAL	C-O	6.08	1.31	1.24
1	C	38	GLY	N-CA	6.08	1.54	1.45
1	F	46	GLY	C-O	6.08	1.32	1.23
1	H	176	THR	N-CA	6.08	1.54	1.46
1	K	181	GLN	CD-OE1	6.08	1.35	1.23
1	K	467	LYS	CG-CD	6.08	1.70	1.52
1	M	271	VAL	CA-C	-6.08	1.46	1.52
1	N	196	GLN	C-O	-6.08	1.15	1.23
1	D	388	MET	CA-CB	-6.08	1.43	1.53
1	E	43	LEU	CA-C	-6.08	1.45	1.52
1	L	230	LYS	CG-CD	-6.08	1.34	1.52
1	M	312	TRP	NE1-CE2	-6.08	1.30	1.37
1	B	374	PHE	C-O	-6.08	1.16	1.23
1	G	253	GLU	C-O	6.08	1.31	1.24
1	L	195	ILE	N-CA	6.08	1.53	1.46
1	L	352	GLU	CG-CD	6.08	1.67	1.52
1	C	86	PRO	N-CA	6.08	1.55	1.47
1	E	270	ASN	C-O	-6.08	1.16	1.23
1	K	378	LEU	C-O	-6.08	1.16	1.24
1	N	214	GLN	C-O	6.07	1.30	1.24
1	E	34	TYR	CG-CD2	-6.07	1.26	1.39
1	K	459	LEU	CG-CD2	-6.07	1.32	1.52
1	L	70	TYR	CA-C	-6.07	1.44	1.52
1	L	299	MET	CA-C	-6.07	1.44	1.52
1	A	116	GLY	N-CA	-6.07	1.38	1.45
1	H	109	ARG	CZ-NH1	6.07	1.41	1.32
1	K	185	CYS	CB-SG	6.07	2.01	1.81
1	H	132	ALA	N-CA	6.07	1.52	1.45
1	D	100	TRP	CB-CG	-6.07	1.31	1.50
1	J	438	GLU	CG-CD	6.07	1.67	1.52
1	M	73	PHE	CE2-CZ	-6.07	1.20	1.38
1	I	261	PHE	CE1-CZ	-6.07	1.20	1.38
1	K	274	ASP	C-O	6.07	1.32	1.23
1	O	331	VAL	CA-C	-6.07	1.44	1.52
1	C	147	ILE	C-O	-6.06	1.17	1.23
1	F	448	GLU	C-O	6.06	1.31	1.23
1	E	462	PHE	C-O	-6.06	1.16	1.24
1	K	279	GLY	N-CA	6.06	1.53	1.44
1	I	60	ILE	CA-CB	6.06	1.62	1.54
1	I	169	TRP	C-N	6.06	1.41	1.33
1	F	97	ARG	CG-CD	6.06	1.70	1.52
1	F	369	GLU	CB-CG	6.06	1.70	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	290	ASN	C-O	6.06	1.31	1.23
1	J	251	ARG	N-CA	-6.06	1.38	1.45
1	B	78	PRO	C-O	6.06	1.30	1.23
1	E	263	ARG	N-CA	6.06	1.54	1.46
1	B	138	ASN	CB-CG	6.05	1.67	1.52
1	J	114	GLY	N-CA	6.05	1.52	1.45
1	M	444	TYR	C-O	-6.05	1.16	1.23
1	C	199	ASP	N-CA	-6.05	1.37	1.45
1	H	251	ARG	C-O	6.05	1.31	1.23
1	I	30	ARG	CA-C	-6.05	1.45	1.53
1	K	457	ALA	C-O	6.05	1.31	1.24
1	L	446	PHE	N-CA	6.05	1.53	1.45
1	C	237	MET	SD-CE	6.05	1.94	1.79
1	E	269	GLU	C-O	-6.05	1.16	1.23
1	L	265	GLY	CA-C	6.05	1.59	1.52
1	K	455	PHE	CA-C	-6.05	1.45	1.52
1	M	468	PHE	CA-CB	-6.05	1.44	1.53
1	N	454	LYS	CE-NZ	6.05	1.67	1.49
1	E	148	SER	CA-CB	-6.05	1.45	1.54
1	I	93	PRO	C-O	6.05	1.31	1.24
1	A	217	LYS	CD-CE	6.05	1.70	1.52
1	C	148	SER	N-CA	6.05	1.53	1.45
1	E	64	LYS	C-O	6.05	1.31	1.24
1	G	292	PHE	CE2-CZ	-6.05	1.20	1.38
1	L	449	VAL	CB-CG1	-6.05	1.32	1.52
1	O	443	LYS	CA-CB	6.05	1.63	1.53
1	I	219	GLU	CA-CB	-6.04	1.44	1.53
1	M	125	LYS	CB-CG	-6.04	1.34	1.52
1	B	214	GLN	C-O	6.04	1.30	1.23
1	J	211	THR	N-CA	-6.04	1.38	1.46
1	N	115	VAL	CA-CB	-6.04	1.47	1.54
1	D	228	ILE	CA-C	6.04	1.60	1.52
1	E	70	TYR	CE2-CZ	-6.04	1.23	1.38
1	G	298	SER	C-O	6.04	1.31	1.24
1	H	107	VAL	CA-C	6.04	1.60	1.52
1	M	106	GLU	C-O	-6.04	1.16	1.24
1	M	336	THR	CB-OG1	6.04	1.53	1.43
1	O	161	CYS	CA-C	6.04	1.60	1.52
1	D	187	PRO	CG-CD	6.04	1.71	1.50
1	N	140	GLY	N-CA	6.04	1.54	1.45
1	D	179	ALA	CA-CB	6.04	1.63	1.53
1	O	214	GLN	CD-OE1	6.04	1.35	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	223	ASP	CA-CB	-6.04	1.43	1.53
1	G	220	VAL	CB-CG1	6.04	1.72	1.52
1	A	28	VAL	CA-CB	6.04	1.62	1.54
1	B	124	ASN	C-O	-6.04	1.16	1.24
1	B	266	THR	CA-C	-6.04	1.45	1.52
1	C	247	PHE	C-O	-6.04	1.16	1.24
1	H	459	LEU	CG-CD1	-6.04	1.32	1.52
1	M	401	ASP	CG-OD2	6.04	1.36	1.25
1	A	28	VAL	CA-C	-6.03	1.45	1.52
1	H	255	MET	SD-CE	6.03	1.94	1.79
1	J	125	LYS	N-CA	-6.03	1.39	1.46
1	J	195	ILE	N-CA	6.03	1.53	1.46
1	K	360	PHE	CG-CD1	-6.03	1.26	1.38
1	L	458	ASP	N-CA	-6.03	1.38	1.46
1	M	277	ILE	N-CA	-6.03	1.39	1.46
1	L	35	TYR	CA-C	6.03	1.59	1.52
1	G	362	GLU	CD-OE1	6.03	1.36	1.25
1	K	388	MET	N-CA	6.03	1.53	1.46
1	L	262	ASN	N-CA	-6.03	1.39	1.46
1	N	346	ALA	C-O	6.03	1.31	1.24
1	I	231	TYR	C-N	-6.03	1.26	1.33
1	B	438	GLU	C-O	6.03	1.35	1.23
1	G	388	MET	CA-C	6.03	1.60	1.52
1	J	115	VAL	C-O	6.03	1.30	1.24
1	M	234	TYR	CA-C	-6.03	1.44	1.52
1	N	249	TYR	CG-CD1	-6.03	1.26	1.39
1	N	396	SER	CA-C	6.03	1.60	1.52
1	B	445	THR	CA-CB	-6.02	1.44	1.53
1	D	472	LEU	N-CA	6.02	1.57	1.46
1	G	111	GLN	CB-CG	-6.02	1.34	1.52
1	I	177	GLN	CA-C	-6.02	1.45	1.52
1	O	375	ILE	CA-CB	-6.02	1.46	1.54
1	H	173	SER	CA-C	6.02	1.60	1.52
1	I	152	LYS	CB-CG	6.02	1.70	1.52
1	C	59	LYS	CE-NZ	6.02	1.67	1.49
1	M	450	ASN	C-O	6.02	1.30	1.24
1	O	229	CYS	CA-CB	6.02	1.61	1.53
1	O	335	ASP	CA-CB	6.02	1.61	1.52
1	E	358	THR	N-CA	-6.01	1.39	1.46
1	E	467	LYS	CA-C	-6.01	1.45	1.52
1	K	150	ASP	N-CA	-6.01	1.38	1.46
1	D	458	ASP	CA-C	6.01	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	33	ILE	CG1-CD1	6.01	1.75	1.51
1	G	256	PHE	CE2-CZ	-6.01	1.20	1.38
1	C	179	ALA	N-CA	6.01	1.54	1.46
1	C	276	TYR	CA-CB	-6.01	1.47	1.54
1	F	120	HIS	C-O	-6.01	1.16	1.24
1	G	122	LEU	CA-C	-6.01	1.45	1.53
1	J	356	LYS	N-CA	-6.01	1.39	1.46
1	O	124	ASN	CB-CG	6.01	1.67	1.52
1	O	314	GLN	N-CA	6.01	1.53	1.46
1	E	267	VAL	C-O	6.00	1.31	1.24
1	G	325	TRP	C-O	6.00	1.31	1.24
1	M	68	LEU	C-O	6.00	1.31	1.24
1	N	199	ASP	CA-C	6.00	1.60	1.52
1	O	55	PRO	C-O	6.00	1.31	1.24
1	A	161	CYS	CB-SG	6.00	2.01	1.81
1	B	28	VAL	N-CA	-6.00	1.39	1.46
1	B	39	THR	N-CA	6.00	1.53	1.46
1	E	160	GLY	CA-C	6.00	1.58	1.51
1	G	126	LEU	C-O	6.00	1.28	1.23
1	O	52	ILE	CA-CB	-6.00	1.46	1.53
1	G	198	GLY	N-CA	6.00	1.54	1.45
1	I	249	TYR	C-O	6.00	1.31	1.23
1	D	194	VAL	CA-C	-6.00	1.45	1.52
1	H	469	LEU	CA-CB	-6.00	1.43	1.53
1	K	311	TYR	CD1-CE1	6.00	1.56	1.38
1	K	466	ARG	C-O	-6.00	1.16	1.24
1	L	118	SER	CA-C	-6.00	1.45	1.52
1	H	187	PRO	CA-CB	6.00	1.61	1.53
1	J	149	MET	CA-C	-6.00	1.46	1.53
1	K	192	ASN	C-O	6.00	1.31	1.23
1	K	202	ASP	CG-OD2	6.00	1.36	1.25
1	K	316	ALA	N-CA	6.00	1.53	1.46
1	M	42	LEU	N-CA	-6.00	1.38	1.45
1	M	100	TRP	C-O	6.00	1.31	1.23
1	I	321	ASN	N-CA	-6.00	1.39	1.46
1	K	90	PHE	N-CA	6.00	1.54	1.46
1	A	163	PRO	CA-C	5.99	1.57	1.52
1	C	214	GLN	C-O	5.99	1.30	1.24
1	D	186	PRO	C-O	-5.99	1.20	1.25
1	J	41	ARG	CA-C	-5.99	1.44	1.52
1	L	472	LEU	C-OXT	5.99	1.35	1.23
1	M	194	VAL	CA-CB	-5.99	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	178	VAL	N-CA	5.99	1.53	1.46
1	L	100	TRP	C-O	-5.99	1.16	1.23
1	G	40	SER	CB-OG	5.99	1.54	1.42
1	K	180	VAL	C-O	5.99	1.31	1.24
1	L	143	ASN	C-O	5.99	1.32	1.24
1	A	154	THR	C-O	-5.99	1.17	1.24
1	A	312	TRP	NE1-CE2	-5.99	1.30	1.37
1	D	81	ASN	N-CA	-5.99	1.38	1.46
1	G	330	PHE	CG-CD2	5.99	1.51	1.38
1	L	337	THR	N-CA	-5.99	1.38	1.46
1	N	312	TRP	CA-C	5.99	1.60	1.52
1	B	43	LEU	C-O	5.99	1.30	1.23
1	H	361	LYS	CE-NZ	5.99	1.67	1.49
1	J	173	SER	C-O	5.99	1.31	1.24
1	O	335	ASP	N-CA	5.99	1.54	1.46
1	D	106	GLU	C-N	5.98	1.41	1.33
1	F	364	LEU	C-O	5.98	1.31	1.24
1	H	147	ILE	C-O	-5.98	1.16	1.23
1	O	269	GLU	CD-OE2	5.98	1.36	1.25
1	C	75	ILE	N-CA	-5.98	1.39	1.46
1	I	241	PRO	CB-CG	5.98	1.79	1.49
1	C	98	LEU	CG-CD1	5.98	1.72	1.52
1	F	253	GLU	C-O	5.98	1.31	1.23
1	M	112	PRO	N-CA	5.98	1.54	1.47
1	N	315	ARG	C-O	5.98	1.31	1.23
1	C	162	LYS	C-N	5.98	1.40	1.33
1	D	152	LYS	C-O	5.98	1.30	1.23
1	B	463	PRO	CA-CB	-5.97	1.45	1.53
1	E	243	GLY	CA-C	5.97	1.60	1.51
1	E	368	GLU	CA-CB	-5.97	1.42	1.53
1	L	194	VAL	CA-C	5.97	1.60	1.52
1	M	267	VAL	C-O	5.97	1.31	1.24
1	D	69	GLN	C-O	-5.97	1.17	1.24
1	F	340	THR	C-O	5.97	1.31	1.23
1	G	357	ASN	N-CA	-5.97	1.38	1.46
1	I	89	SER	CB-OG	5.97	1.54	1.42
1	K	286	LEU	C-O	5.97	1.31	1.23
1	A	107	VAL	CA-CB	-5.97	1.46	1.53
1	L	144	ARG	CA-C	5.97	1.60	1.52
1	D	446	PHE	CA-CB	-5.97	1.41	1.54
1	K	109	ARG	CD-NE	5.97	1.54	1.46
1	F	295	PRO	CG-CD	5.97	1.71	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	368	GLU	CD-OE2	5.96	1.36	1.25
1	B	39	THR	C-O	5.96	1.31	1.23
1	B	130	GLU	CA-C	-5.96	1.44	1.52
1	B	269	GLU	N-CA	-5.96	1.39	1.46
1	E	231	TYR	C-O	5.96	1.31	1.24
1	F	259	HIS	CB-CG	-5.96	1.41	1.50
1	O	164	PRO	CA-CB	5.96	1.61	1.53
1	O	249	TYR	CZ-OH	5.96	1.50	1.38
1	E	471	GLN	C-O	5.96	1.34	1.25
1	I	330	PHE	CG-CD2	5.96	1.51	1.38
1	O	271	VAL	C-O	-5.96	1.17	1.24
1	C	288	SER	C-O	-5.96	1.16	1.23
1	C	369	GLU	CD-OE2	5.96	1.36	1.25
1	F	199	ASP	C-O	5.96	1.31	1.24
1	G	89	SER	CA-C	5.96	1.60	1.52
1	G	134	ALA	C-O	5.96	1.31	1.24
1	K	361	LYS	CG-CD	5.96	1.70	1.52
1	C	80	PRO	C-O	5.96	1.31	1.24
1	H	370	TYR	CB-CG	-5.96	1.38	1.51
1	J	380	LYS	CG-CD	5.96	1.70	1.52
1	I	130	GLU	C-O	-5.96	1.17	1.24
1	K	305	GLN	CA-CB	5.96	1.62	1.53
1	N	131	ASN	CG-OD1	5.96	1.34	1.23
1	O	283	THR	CA-CB	5.96	1.62	1.53
1	F	194	VAL	CB-CG1	5.96	1.72	1.52
1	H	79	ASP	C-N	5.96	1.41	1.34
1	K	28	VAL	CB-CG2	-5.96	1.32	1.52
1	K	368	GLU	CD-OE1	5.96	1.36	1.25
1	L	34	TYR	CA-C	-5.96	1.45	1.52
1	L	149	MET	CA-CB	-5.96	1.45	1.53
1	L	372	LEU	CG-CD2	5.96	1.72	1.52
1	M	107	VAL	CA-C	-5.96	1.47	1.53
1	A	133	SER	CB-OG	5.96	1.54	1.42
1	B	21	VAL	CB-CG1	-5.96	1.32	1.52
1	B	100	TRP	CA-CB	-5.96	1.44	1.53
1	F	344	LEU	C-O	5.96	1.31	1.23
1	F	175	CYS	CA-CB	5.95	1.62	1.53
1	G	69	GLN	CD-OE1	5.95	1.34	1.23
1	B	216	ASN	CB-CG	-5.95	1.37	1.52
1	J	453	GLU	CD-OE1	5.95	1.36	1.25
1	A	188	LEU	C-O	-5.95	1.15	1.23
1	D	323	ILE	C-O	5.95	1.32	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	356	LYS	CA-C	-5.95	1.46	1.52
1	F	144	ARG	CA-C	5.95	1.60	1.52
1	G	151	TYR	CA-CB	-5.95	1.43	1.53
1	L	89	SER	C-O	5.95	1.31	1.24
1	C	113	LEU	CA-C	-5.95	1.45	1.52
1	D	173	SER	CA-CB	5.95	1.62	1.53
1	H	257	VAL	CA-C	5.95	1.59	1.52
1	N	465	GLY	N-CA	5.95	1.53	1.45
1	C	96	GLN	C-O	5.95	1.30	1.23
1	H	197	ASP	CA-C	-5.95	1.45	1.52
1	O	285	ASN	C-O	5.95	1.30	1.23
1	A	70	TYR	C-O	-5.95	1.16	1.24
1	H	317	GLN	CG-CD	5.95	1.67	1.52
1	I	145	GLU	C-O	-5.95	1.17	1.24
1	L	244	ASP	C-O	5.95	1.31	1.24
1	H	217	LYS	CD-CE	5.94	1.70	1.52
1	H	68	LEU	CA-CB	-5.94	1.43	1.53
1	H	347	ALA	CA-C	5.94	1.61	1.53
1	I	103	VAL	CA-C	-5.94	1.45	1.52
1	A	125	LYS	C-O	5.94	1.30	1.24
1	D	331	VAL	CA-C	5.94	1.59	1.52
1	J	269	GLU	CA-C	-5.94	1.45	1.52
1	J	377	GLN	N-CA	5.94	1.53	1.46
1	M	62	VAL	CB-CG1	5.94	1.72	1.52
1	A	21	VAL	C-O	-5.94	1.17	1.24
1	B	246	LEU	CA-C	5.94	1.59	1.52
1	C	255	MET	SD-CE	5.94	1.94	1.79
1	H	140	GLY	CA-C	5.94	1.60	1.51
1	M	152	LYS	N-CA	-5.94	1.38	1.46
1	J	324	CYS	C-O	-5.94	1.16	1.23
1	A	316	ALA	N-CA	5.93	1.53	1.46
1	H	230	LYS	C-O	-5.93	1.17	1.24
1	K	400	GLU	CB-CG	5.93	1.70	1.52
1	I	149	MET	SD-CE	5.93	1.94	1.79
1	O	196	GLN	CA-C	-5.93	1.45	1.52
1	D	309	LYS	CB-CG	5.93	1.70	1.52
1	F	288	SER	N-CA	5.93	1.53	1.46
1	C	400	GLU	CD-OE2	5.93	1.36	1.25
1	F	61	LEU	C-O	5.93	1.31	1.24
1	I	50	PHE	C-O	-5.93	1.16	1.24
1	K	310	PRO	CA-CB	-5.93	1.45	1.53
1	C	315	ARG	NE-CZ	5.93	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	348	ILE	CG1-CD1	5.93	1.74	1.51
1	F	341	ASN	CG-OD1	5.93	1.34	1.23
1	M	455	PHE	CB-CG	-5.93	1.37	1.50
1	M	43	LEU	C-O	-5.93	1.16	1.23
1	H	130	GLU	CB-CG	5.92	1.70	1.52
1	H	287	ALA	CA-C	5.92	1.60	1.52
1	G	363	TYR	CD1-CE1	5.92	1.56	1.38
1	G	303	ASP	N-CA	-5.92	1.38	1.46
1	K	195	ILE	C-N	-5.92	1.25	1.33
1	O	186	PRO	CA-C	5.92	1.57	1.52
1	F	194	VAL	CA-C	-5.92	1.46	1.52
1	A	54	LYS	CE-NZ	5.92	1.67	1.49
1	B	177	GLN	CB-CG	5.92	1.70	1.52
1	E	358	THR	C-O	-5.92	1.15	1.23
1	I	154	THR	N-CA	5.92	1.53	1.46
1	J	185	CYS	C-O	5.92	1.31	1.24
1	O	275	LEU	C-O	5.92	1.31	1.24
1	O	292	PHE	CA-C	5.92	1.59	1.52
1	F	83	PHE	CA-C	-5.91	1.45	1.52
1	C	25	ASP	CG-OD1	5.91	1.36	1.25
1	J	103	VAL	CB-CG2	5.91	1.72	1.52
1	A	68	LEU	C-O	-5.91	1.16	1.24
1	H	362	GLU	CD-OE2	5.91	1.36	1.25
1	K	159	ILE	CB-CG2	-5.91	1.33	1.52
1	L	72	VAL	CA-CB	-5.91	1.46	1.54
1	N	353	THR	CB-CG2	5.91	1.72	1.52
1	N	387	VAL	CA-CB	5.91	1.61	1.54
1	A	162	LYS	N-CA	5.91	1.50	1.45
1	F	315	ARG	CG-CD	5.91	1.70	1.52
1	J	94	ASP	CB-CG	5.91	1.66	1.52
1	K	287	ALA	C-O	5.91	1.31	1.23
1	L	176	THR	N-CA	5.91	1.53	1.46
1	D	361	LYS	C-O	5.91	1.30	1.23
1	E	65	VAL	N-CA	5.91	1.53	1.46
1	E	235	ILE	CA-C	-5.91	1.45	1.52
1	E	300	VAL	CA-C	5.91	1.60	1.52
1	J	214	GLN	CD-NE2	-5.91	1.20	1.33
1	M	168	HIS	CA-C	-5.91	1.45	1.52
1	N	192	ASN	CG-OD1	5.91	1.34	1.23
1	F	186	PRO	CA-CB	5.90	1.62	1.54
1	J	126	LEU	CA-C	5.90	1.58	1.53
1	B	230	LYS	CE-NZ	5.90	1.67	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	119	GLY	N-CA	5.90	1.51	1.45
1	N	112	PRO	N-CA	5.90	1.53	1.47
1	K	222	LEU	CA-CB	-5.90	1.43	1.53
1	L	336	THR	CB-CG2	-5.90	1.33	1.52
1	M	212	THR	CA-CB	-5.90	1.45	1.54
1	N	453	GLU	CG-CD	5.90	1.66	1.52
1	D	399	LEU	CA-C	-5.89	1.45	1.52
1	E	331	VAL	N-CA	-5.89	1.39	1.46
1	J	372	LEU	CA-C	-5.89	1.45	1.52
1	C	314	GLN	C-O	-5.89	1.16	1.24
1	I	364	LEU	CG-CD2	5.89	1.72	1.52
1	O	147	ILE	C-N	5.89	1.42	1.33
1	F	383	LEU	C-N	5.89	1.41	1.33
1	B	188	LEU	CG-CD2	-5.89	1.33	1.52
1	E	352	GLU	CD-OE2	5.89	1.36	1.25
1	H	378	LEU	C-O	-5.89	1.16	1.23
1	I	209	ASP	CA-C	-5.89	1.45	1.52
1	I	289	SER	N-CA	-5.89	1.38	1.46
1	K	138	ASN	CA-C	5.89	1.60	1.52
1	M	280	SER	CB-OG	5.89	1.53	1.42
1	A	388	MET	C-O	-5.89	1.17	1.24
1	H	182	PRO	CA-C	-5.89	1.44	1.52
1	H	293	PRO	CB-CG	-5.89	1.20	1.49
1	B	31	THR	CB-OG1	5.88	1.53	1.43
1	C	224	ILE	CB-CG2	-5.88	1.33	1.52
1	E	343	SER	CA-CB	5.88	1.65	1.53
1	K	301	THR	CB-CG2	5.88	1.72	1.52
1	L	117	ILE	CA-CB	-5.88	1.45	1.55
1	L	290	ASN	CA-C	-5.88	1.47	1.53
1	M	181	GLN	CD-OE1	5.88	1.34	1.23
1	N	324	CYS	CA-C	5.88	1.59	1.53
1	E	181	GLN	CG-CD	5.88	1.66	1.52
1	K	451	LEU	CG-CD1	-5.88	1.33	1.52
1	L	310	PRO	CA-C	5.88	1.58	1.52
1	B	54	LYS	C-O	-5.88	1.17	1.24
1	G	146	CYS	CB-SG	5.88	2.00	1.81
1	H	403	ASN	CG-ND2	5.88	1.45	1.33
1	L	45	VAL	CA-CB	-5.88	1.47	1.54
1	C	94	ASP	CG-OD2	5.88	1.36	1.25
1	H	472	LEU	C-OXT	5.88	1.35	1.23
1	M	346	ALA	CA-CB	5.88	1.63	1.53
1	A	81	ASN	N-CA	-5.88	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	192	ASN	C-O	5.88	1.31	1.23
1	B	452	LYS	N-CA	-5.88	1.39	1.46
1	H	181	GLN	CD-OE1	5.88	1.34	1.23
1	N	288	SER	N-CA	5.88	1.53	1.46
1	J	367	GLY	N-CA	5.88	1.52	1.45
1	N	68	LEU	C-O	5.88	1.32	1.24
1	N	202	ASP	CG-OD1	5.88	1.36	1.25
1	M	349	SER	CB-OG	5.87	1.53	1.42
1	O	86	PRO	CG-CD	5.87	1.70	1.50
1	O	448	GLU	CA-C	-5.87	1.45	1.52
1	L	35	TYR	CG-CD1	-5.87	1.27	1.39
1	M	271	VAL	C-N	-5.87	1.25	1.33
1	N	329	LEU	CA-C	-5.87	1.45	1.52
1	A	194	VAL	CA-C	-5.87	1.46	1.52
1	B	140	GLY	N-CA	5.87	1.53	1.45
1	F	281	GLY	N-CA	5.87	1.53	1.45
1	H	294	THR	CA-C	5.87	1.59	1.52
1	N	469	LEU	CG-CD2	5.87	1.72	1.52
1	A	165	ILE	CA-CB	-5.87	1.46	1.54
1	B	89	SER	N-CA	5.87	1.53	1.46
1	D	467	LYS	CB-CG	5.87	1.70	1.52
1	K	31	THR	C-O	5.87	1.31	1.23
1	K	169	TRP	N-CA	-5.87	1.39	1.45
1	E	165	ILE	CA-CB	-5.87	1.46	1.54
1	L	381	ILE	CG1-CD1	-5.87	1.28	1.51
1	N	44	ALA	CA-C	5.87	1.59	1.52
1	B	158	LEU	C-O	5.86	1.31	1.24
1	F	205	PHE	N-CA	-5.86	1.39	1.46
1	G	221	PRO	CA-C	5.86	1.60	1.52
1	G	321	ASN	N-CA	5.86	1.52	1.46
1	O	210	PHE	CD2-CE2	-5.86	1.21	1.38
1	I	40	SER	CA-CB	5.86	1.63	1.53
1	K	192	ASN	CG-ND2	5.86	1.45	1.33
1	K	281	GLY	CA-C	5.86	1.60	1.51
1	N	49	TYR	C-O	5.86	1.31	1.24
1	D	106	GLU	CA-C	5.86	1.60	1.53
1	G	254	GLN	C-O	5.86	1.30	1.23
1	I	285	ASN	C-N	5.86	1.41	1.33
1	D	41	ARG	C-O	5.86	1.31	1.24
1	E	40	SER	CA-C	5.86	1.60	1.52
1	H	281	GLY	C-O	5.86	1.31	1.23
1	J	381	ILE	CA-C	-5.86	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	171	LYS	CA-C	-5.86	1.45	1.52
1	N	237	MET	CA-C	5.86	1.60	1.52
1	A	205	PHE	CE1-CZ	-5.85	1.21	1.38
1	G	135	TYR	CA-C	-5.85	1.45	1.52
1	G	471	GLN	CD-OE1	5.85	1.34	1.23
1	B	36	HIS	CA-C	5.85	1.60	1.52
1	E	272	PRO	CA-C	-5.85	1.45	1.52
1	O	179	ALA	CA-CB	5.85	1.63	1.53
1	H	374	PHE	C-O	5.85	1.31	1.23
1	C	446	PHE	N-CA	-5.85	1.38	1.45
1	E	236	LYS	CD-CE	5.85	1.70	1.52
1	G	370	TYR	C-O	5.85	1.31	1.23
1	J	378	LEU	C-O	-5.85	1.17	1.24
1	M	115	VAL	C-O	5.85	1.30	1.23
1	B	357	ASN	N-CA	-5.85	1.38	1.46
1	B	364	LEU	CG-CD1	-5.85	1.33	1.52
1	D	40	SER	CA-CB	5.85	1.62	1.53
1	E	197	ASP	CG-OD1	5.85	1.36	1.25
1	G	63	PRO	N-CA	5.85	1.54	1.47
1	I	150	ASP	CA-C	5.85	1.59	1.52
1	J	185	CYS	CA-CB	5.85	1.62	1.53
1	J	462	PHE	CG-CD2	-5.85	1.26	1.38
1	K	224	ILE	C-O	5.85	1.30	1.24
1	L	188	LEU	CA-CB	-5.85	1.43	1.53
1	M	115	VAL	N-CA	5.85	1.52	1.46
1	J	139	ALA	C-N	5.85	1.42	1.33
1	A	145	GLU	N-CA	5.84	1.53	1.46
1	F	225	CYS	C-O	5.84	1.31	1.24
1	C	198	GLY	N-CA	5.84	1.54	1.45
1	C	360	PHE	CE2-CZ	-5.84	1.21	1.38
1	B	247	PHE	N-CA	-5.84	1.38	1.45
1	C	396	SER	CB-OG	5.84	1.53	1.42
1	D	269	GLU	CA-C	-5.84	1.45	1.52
1	G	211	THR	CA-C	5.84	1.60	1.52
1	M	467	LYS	N-CA	5.84	1.53	1.46
1	E	177	GLN	C-O	5.84	1.31	1.24
1	L	247	PHE	CG-CD1	-5.84	1.26	1.38
1	B	115	VAL	C-O	5.84	1.30	1.24
1	K	238	VAL	N-CA	-5.84	1.38	1.46
1	K	263	ARG	CZ-NH1	5.84	1.41	1.32
1	C	60	ILE	C-O	-5.84	1.17	1.23
1	H	263	ARG	N-CA	5.84	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	382	THR	CA-CB	5.84	1.61	1.53
1	O	228	ILE	N-CA	5.84	1.53	1.46
1	C	148	SER	CA-CB	-5.83	1.43	1.53
1	E	142	ASP	N-CA	5.83	1.54	1.46
1	G	60	ILE	C-O	-5.83	1.18	1.23
1	B	395	ASN	CG-OD1	5.83	1.34	1.23
1	D	30	ARG	CA-C	-5.83	1.45	1.52
1	M	255	MET	N-CA	5.83	1.53	1.45
1	A	80	PRO	CB-CG	5.83	1.78	1.49
1	A	187	PRO	C-O	5.83	1.29	1.23
1	A	392	HIS	N-CA	-5.83	1.38	1.46
1	B	132	ALA	CA-C	-5.83	1.45	1.53
1	E	269	GLU	CG-CD	5.83	1.66	1.52
1	L	103	VAL	C-O	-5.83	1.17	1.24
1	L	211	THR	CA-C	-5.83	1.44	1.52
1	N	60	ILE	C-O	-5.83	1.17	1.24
1	B	333	VAL	C-O	5.83	1.29	1.24
1	D	276	TYR	C-O	5.83	1.29	1.24
1	G	244	ASP	C-O	5.83	1.31	1.24
1	B	469	LEU	CA-C	5.83	1.60	1.52
1	D	177	GLN	N-CA	5.83	1.53	1.46
1	N	372	LEU	C-O	-5.83	1.16	1.23
1	D	187	PRO	CA-CB	5.83	1.60	1.54
1	E	30	ARG	C-O	-5.83	1.17	1.24
1	E	214	GLN	CD-OE1	5.83	1.34	1.23
1	K	170	GLY	N-CA	5.83	1.51	1.44
1	M	98	LEU	C-O	5.83	1.31	1.23
1	A	276	TYR	CA-CB	-5.82	1.49	1.54
1	G	182	PRO	CG-CD	5.82	1.70	1.50
1	I	305	GLN	N-CA	-5.82	1.38	1.46
1	K	130	GLU	CD-OE1	5.82	1.36	1.25
1	O	41	ARG	NE-CZ	5.82	1.39	1.33
1	M	70	TYR	CA-CB	5.82	1.62	1.53
1	B	178	VAL	CA-CB	5.82	1.62	1.54
1	D	95	THR	CA-C	5.82	1.58	1.52
1	H	172	GLY	C-O	5.82	1.31	1.23
1	J	362	GLU	CD-OE2	5.82	1.36	1.25
1	K	392	HIS	C-O	5.82	1.32	1.23
1	L	233	ASP	CA-CB	5.82	1.60	1.52
1	M	216	ASN	CA-C	-5.82	1.44	1.52
1	B	178	VAL	CB-CG1	5.82	1.71	1.52
1	H	50	PHE	N-CA	5.82	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	271	VAL	C-N	-5.82	1.25	1.33
1	M	178	VAL	CA-CB	5.82	1.62	1.54
1	B	178	VAL	N-CA	5.82	1.53	1.46
1	G	162	LYS	CE-NZ	5.82	1.66	1.49
1	J	274	ASP	C-O	5.82	1.31	1.24
1	J	336	THR	C-N	-5.82	1.26	1.33
1	O	108	GLY	CA-C	5.82	1.60	1.51
1	J	57	ASN	C-O	5.81	1.32	1.23
1	E	178	VAL	CA-CB	5.81	1.62	1.54
1	H	325	TRP	N-CA	5.81	1.53	1.46
1	K	263	ARG	CA-CB	5.81	1.61	1.53
1	D	402	TRP	CB-CG	5.81	1.68	1.50
1	K	189	GLU	C-O	5.81	1.31	1.24
1	A	468	PHE	CG-CD1	-5.81	1.26	1.38
1	C	365	ARG	CZ-NH2	-5.81	1.25	1.33
1	L	344	LEU	CG-CD2	-5.81	1.33	1.52
1	O	38	GLY	C-N	5.81	1.41	1.33
1	C	158	LEU	C-N	5.81	1.40	1.33
1	F	210	PHE	CA-CB	5.80	1.62	1.53
1	G	359	ASN	C-O	5.80	1.31	1.24
1	K	205	PHE	CE1-CZ	-5.80	1.21	1.38
1	F	48	PRO	CA-C	5.80	1.62	1.52
1	G	86	PRO	C-O	5.80	1.31	1.24
1	H	202	ASP	CG-OD2	5.80	1.36	1.25
1	C	262	ASN	CB-CG	-5.80	1.37	1.52
1	C	313	LEU	C-O	5.80	1.32	1.24
1	E	75	ILE	N-CA	-5.80	1.39	1.46
1	F	144	ARG	CZ-NH1	-5.80	1.24	1.32
1	H	42	LEU	C-O	5.80	1.31	1.23
1	O	173	SER	N-CA	5.80	1.54	1.46
1	O	395	ASN	CG-OD1	5.80	1.34	1.23
1	A	143	ASN	CA-CB	-5.80	1.46	1.54
1	D	66	SER	CB-OG	5.80	1.53	1.42
1	D	91	TYR	N-CA	-5.80	1.38	1.46
1	D	233	ASP	C-O	5.80	1.29	1.23
1	F	396	SER	C-O	5.80	1.30	1.24
1	L	87	ASP	CG-OD2	5.80	1.36	1.25
1	A	261	PHE	C-O	-5.79	1.16	1.24
1	D	359	ASN	C-O	5.79	1.32	1.24
1	N	83	PHE	CD1-CE1	5.79	1.56	1.38
1	B	41	ARG	CZ-NH1	5.79	1.40	1.32
1	E	78	PRO	CA-C	5.79	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	471	GLN	CA-C	5.79	1.60	1.52
1	B	355	TYR	CZ-OH	5.79	1.50	1.38
1	J	96	GLN	C-O	5.79	1.32	1.23
1	J	302	SER	C-O	5.79	1.30	1.24
1	M	167	GLU	CD-OE2	5.79	1.36	1.25
1	O	256	PHE	CE1-CZ	-5.79	1.21	1.38
1	C	189	GLU	CA-C	-5.79	1.45	1.52
1	G	123	LEU	CA-CB	5.79	1.61	1.53
1	I	306	ILE	CA-CB	-5.79	1.48	1.54
1	D	47	HIS	C-N	-5.79	1.27	1.33
1	G	223	ASP	N-CA	5.79	1.53	1.46
1	G	461	GLN	N-CA	5.79	1.53	1.46
1	H	296	SER	C-O	5.79	1.30	1.23
1	J	143	ASN	CA-C	-5.79	1.45	1.52
1	M	161	CYS	CA-C	-5.79	1.45	1.52
1	A	296	SER	CA-CB	-5.79	1.42	1.53
1	E	97	ARG	C-O	-5.79	1.16	1.23
1	E	332	THR	CB-OG1	5.79	1.53	1.43
1	J	96	GLN	CB-CG	5.79	1.69	1.52
1	K	161	CYS	N-CA	5.79	1.53	1.46
1	N	138	ASN	CA-CB	5.79	1.63	1.53
1	F	278	LYS	N-CA	5.78	1.53	1.45
1	L	175	CYS	CA-C	5.78	1.59	1.52
1	O	25	ASP	N-CA	-5.78	1.38	1.46
1	O	179	ALA	C-N	5.78	1.41	1.33
1	H	211	THR	C-O	-5.78	1.16	1.24
1	I	339	SER	N-CA	5.78	1.53	1.45
1	J	332	THR	N-CA	5.78	1.53	1.46
1	M	312	TRP	CG-CD2	-5.78	1.33	1.43
1	A	472	LEU	CA-CB	5.78	1.65	1.53
1	E	264	ALA	CA-CB	5.78	1.62	1.53
1	L	60	ILE	C-O	-5.78	1.15	1.23
1	L	389	THR	CA-CB	-5.78	1.44	1.53
1	A	460	ASP	CA-C	-5.78	1.44	1.52
1	F	100	TRP	CA-CB	-5.78	1.44	1.53
1	L	205	PHE	C-N	5.78	1.39	1.32
1	C	77	LEU	CG-CD1	5.78	1.71	1.52
1	C	205	PHE	C-O	5.78	1.31	1.24
1	B	383	LEU	CG-CD1	5.78	1.71	1.52
1	D	260	LEU	CG-CD1	-5.78	1.33	1.52
1	G	276	TYR	CG-CD2	5.78	1.51	1.39
1	L	374	PHE	CD1-CE1	5.78	1.55	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	216	ASN	CA-C	-5.77	1.44	1.52
1	E	179	ALA	CA-CB	5.77	1.63	1.53
1	F	256	PHE	CG-CD2	5.77	1.50	1.38
1	C	144	ARG	CZ-NH2	-5.77	1.25	1.33
1	H	272	PRO	C-O	-5.77	1.17	1.23
1	N	117	ILE	CG1-CD1	5.77	1.74	1.51
1	O	109	ARG	CA-C	5.77	1.59	1.52
1	O	294	THR	CB-CG2	-5.77	1.33	1.52
1	A	138	ASN	CA-C	5.77	1.59	1.52
1	G	28	VAL	N-CA	5.77	1.53	1.46
1	G	104	GLY	CA-C	5.77	1.60	1.51
1	I	371	ASP	N-CA	5.77	1.53	1.46
1	L	35	TYR	CB-CG	-5.77	1.39	1.51
1	C	60	ILE	CA-C	-5.77	1.46	1.52
1	E	168	HIS	N-CA	5.77	1.53	1.46
1	H	271	VAL	C-N	-5.77	1.25	1.33
1	J	131	ASN	CB-CG	5.77	1.66	1.52
1	M	117	ILE	CB-CG1	-5.77	1.42	1.53
1	E	70	TYR	C-O	5.77	1.30	1.23
1	I	159	ILE	CA-CB	-5.77	1.46	1.54
1	E	55	PRO	N-CA	5.76	1.55	1.47
1	O	138	ASN	CA-C	5.76	1.60	1.52
1	O	141	VAL	CA-C	5.76	1.59	1.52
1	A	386	ASP	C-O	5.76	1.31	1.24
1	C	469	LEU	CG-CD2	5.76	1.71	1.52
1	L	456	SER	CB-OG	5.76	1.53	1.42
1	F	358	THR	CA-C	-5.76	1.45	1.53
1	I	261	PHE	C-O	-5.76	1.16	1.23
1	J	232	PRO	N-CA	-5.76	1.40	1.47
1	L	93	PRO	CB-CG	-5.76	1.20	1.49
1	L	383	LEU	C-O	5.76	1.31	1.23
1	H	157	CYS	N-CA	5.75	1.52	1.46
1	C	98	LEU	C-O	5.75	1.31	1.23
1	C	388	MET	C-O	5.75	1.30	1.24
1	D	355	TYR	CG-CD1	-5.75	1.27	1.39
1	E	136	ALA	CA-C	-5.75	1.45	1.52
1	E	390	TYR	N-CA	5.75	1.53	1.46
1	G	304	ALA	C-O	-5.75	1.16	1.24
1	K	40	SER	C-O	5.75	1.30	1.24
1	L	229	CYS	CA-C	-5.75	1.45	1.52
1	O	340	THR	CA-CB	5.75	1.63	1.53
1	A	171	LYS	CG-CD	5.75	1.69	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	457	ALA	CA-CB	-5.75	1.46	1.53
1	D	279	GLY	C-O	-5.75	1.16	1.23
1	D	311	TYR	CZ-OH	-5.75	1.25	1.38
1	E	42	LEU	C-N	5.75	1.41	1.33
1	L	52	ILE	CG1-CD1	5.75	1.74	1.51
1	M	51	PRO	N-CD	5.75	1.55	1.47
1	N	261	PHE	CG-CD2	-5.75	1.26	1.38
1	B	191	ILE	CA-CB	-5.75	1.47	1.54
1	I	469	LEU	CG-CD2	5.75	1.71	1.52
1	K	340	THR	CA-C	5.75	1.60	1.52
1	M	48	PRO	C-O	-5.75	1.16	1.24
1	A	315	ARG	CG-CD	5.75	1.69	1.52
1	C	393	SER	CA-C	5.75	1.60	1.52
1	E	216	ASN	CA-CB	-5.75	1.44	1.53
1	I	306	ILE	CA-C	-5.75	1.44	1.52
1	K	140	GLY	CA-C	5.75	1.59	1.51
1	A	339	SER	C-O	5.75	1.31	1.24
1	N	73	PHE	CE2-CZ	5.75	1.55	1.38
1	N	171	LYS	CG-CD	5.75	1.69	1.52
1	E	140	GLY	CA-C	5.74	1.59	1.51
1	F	86	PRO	C-O	5.74	1.31	1.24
1	M	258	ARG	CD-NE	5.74	1.54	1.46
1	M	312	TRP	CA-CB	-5.74	1.45	1.53
1	M	355	TYR	CA-C	5.74	1.60	1.52
1	F	467	LYS	C-O	-5.74	1.17	1.24
1	L	101	ALA	C-O	5.74	1.31	1.23
1	K	155	GLN	CA-C	-5.74	1.45	1.52
1	L	34	TYR	C-O	-5.74	1.17	1.24
1	L	102	CYS	N-CA	-5.74	1.39	1.46
1	M	262	ASN	CA-C	-5.74	1.45	1.52
1	O	71	ARG	CZ-NH2	5.74	1.41	1.33
1	A	469	LEU	C-O	-5.74	1.17	1.24
1	B	281	GLY	C-O	5.74	1.31	1.23
1	B	391	ILE	C-O	5.74	1.30	1.24
1	C	472	LEU	N-CA	5.74	1.57	1.46
1	F	367	GLY	CA-C	5.74	1.59	1.52
1	G	44	ALA	CA-C	5.74	1.59	1.52
1	H	311	TYR	CA-C	5.74	1.60	1.52
1	I	229	CYS	C-O	5.74	1.30	1.24
1	L	30	ARG	C-O	-5.74	1.17	1.24
1	L	151	TYR	CZ-OH	-5.74	1.26	1.38
1	M	286	LEU	CA-C	-5.74	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	449	VAL	CB-CG1	-5.74	1.33	1.52
1	N	380	LYS	N-CA	5.74	1.53	1.45
1	O	167	GLU	CD-OE2	5.74	1.36	1.25
1	B	31	THR	CA-C	-5.73	1.45	1.53
1	C	132	ALA	C-O	5.73	1.31	1.23
1	C	218	SER	C-O	5.73	1.31	1.24
1	M	43	LEU	CG-CD1	-5.73	1.33	1.52
1	A	449	VAL	CA-C	-5.73	1.45	1.52
1	B	99	VAL	N-CA	5.73	1.52	1.46
1	B	217	LYS	CD-CE	5.73	1.69	1.52
1	K	445	THR	CB-CG2	5.73	1.71	1.52
1	B	467	LYS	C-O	-5.73	1.17	1.24
1	I	203	THR	CA-CB	-5.73	1.45	1.53
1	K	207	ALA	CA-CB	-5.73	1.44	1.53
1	E	152	LYS	CB-CG	-5.73	1.35	1.52
1	F	189	GLU	C-O	5.73	1.31	1.23
1	F	247	PHE	N-CA	-5.73	1.38	1.45
1	J	267	VAL	CA-CB	-5.73	1.47	1.54
1	E	452	LYS	CE-NZ	5.72	1.66	1.49
1	F	164	PRO	CA-CB	-5.72	1.46	1.53
1	F	335	ASP	CA-C	5.72	1.59	1.53
1	I	72	VAL	CB-CG1	-5.72	1.33	1.52
1	K	45	VAL	N-CA	-5.72	1.39	1.46
1	L	56	ASN	C-O	5.72	1.30	1.24
1	M	394	MET	N-CA	-5.72	1.38	1.46
1	O	241	PRO	CB-CG	5.72	1.78	1.49
1	L	332	THR	CB-CG2	-5.72	1.33	1.52
1	N	197	ASP	CG-OD1	5.72	1.36	1.25
1	N	315	ARG	CG-CD	5.72	1.69	1.52
1	D	170	GLY	N-CA	5.72	1.51	1.45
1	G	462	PHE	CA-C	5.72	1.59	1.52
1	J	396	SER	C-O	5.72	1.30	1.24
1	N	50	PHE	C-N	5.72	1.40	1.33
1	O	64	LYS	C-O	5.72	1.30	1.24
1	A	316	ALA	C-O	-5.72	1.16	1.24
1	K	44	ALA	CA-CB	-5.72	1.39	1.53
1	L	70	TYR	C-O	-5.72	1.17	1.23
1	I	465	GLY	C-O	-5.72	1.16	1.23
1	C	49	TYR	C-O	5.72	1.32	1.23
1	D	177	GLN	CD-OE1	5.72	1.34	1.23
1	E	174	PRO	CA-C	5.72	1.60	1.52
1	M	193	THR	N-CA	5.72	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	329	LEU	CG-CD2	5.71	1.71	1.52
1	O	224	ILE	CA-CB	5.71	1.62	1.54
1	E	310	PRO	CA-C	-5.71	1.44	1.52
1	G	472	LEU	N-CA	5.71	1.57	1.46
1	H	147	ILE	CA-CB	-5.71	1.46	1.54
1	M	221	PRO	CA-C	5.71	1.60	1.52
1	O	153	GLN	N-CA	5.71	1.53	1.46
1	F	269	GLU	C-N	-5.71	1.25	1.33
1	H	52	ILE	C-O	5.71	1.31	1.23
1	O	26	GLU	N-CA	5.71	1.53	1.46
1	D	178	VAL	N-CA	5.71	1.53	1.46
1	N	60	ILE	CG1-CD1	5.71	1.74	1.51
1	H	176	THR	CB-CG2	5.71	1.71	1.52
1	L	306	ILE	N-CA	-5.71	1.39	1.45
1	B	152	LYS	CA-CB	-5.71	1.44	1.53
1	C	391	ILE	CG1-CD1	5.71	1.74	1.51
1	D	294	THR	CA-CB	-5.71	1.43	1.53
1	H	205	PHE	CE2-CZ	5.71	1.55	1.38
1	N	464	LEU	CG-CD1	5.71	1.71	1.52
1	O	123	LEU	CG-CD1	5.71	1.71	1.52
1	G	450	ASN	C-O	-5.71	1.17	1.23
1	K	377	GLN	C-O	-5.71	1.17	1.24
1	L	184	ASP	CA-CB	5.71	1.63	1.53
1	M	105	VAL	CA-CB	-5.71	1.46	1.54
1	A	371	ASP	CA-CB	5.70	1.60	1.52
1	D	111	GLN	N-CA	-5.70	1.37	1.46
1	K	362	GLU	CB-CG	-5.70	1.35	1.52
1	A	448	GLU	C-O	5.70	1.30	1.23
1	F	146	CYS	CA-C	-5.70	1.45	1.52
1	F	182	PRO	C-O	5.70	1.31	1.24
1	I	277	ILE	CB-CG1	5.70	1.64	1.53
1	C	147	ILE	CB-CG2	-5.70	1.33	1.52
1	H	39	THR	CA-CB	-5.70	1.44	1.53
1	J	144	ARG	CB-CG	5.70	1.69	1.52
1	N	354	THR	C-N	5.70	1.41	1.33
1	C	298	SER	CA-CB	-5.70	1.45	1.53
1	G	41	ARG	NE-CZ	5.70	1.39	1.33
1	G	392	HIS	CA-C	-5.70	1.46	1.52
1	J	329	LEU	C-O	5.70	1.30	1.23
1	K	223	ASP	C-O	-5.70	1.16	1.24
1	L	308	ASN	CA-C	-5.70	1.44	1.52
1	D	211	THR	CA-C	-5.70	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	374	PHE	CA-C	5.70	1.59	1.52
1	G	306	ILE	CB-CG1	-5.69	1.42	1.53
1	I	65	VAL	C-O	5.69	1.30	1.24
1	J	221	PRO	CA-CB	-5.69	1.45	1.53
1	M	121	PRO	C-O	-5.69	1.16	1.24
1	C	229	CYS	N-CA	-5.69	1.39	1.46
1	D	56	ASN	C-O	5.69	1.31	1.23
1	J	94	ASP	N-CA	5.69	1.53	1.46
1	N	116	GLY	C-O	5.69	1.31	1.23
1	D	225	CYS	C-O	5.69	1.31	1.24
1	K	81	ASN	CG-ND2	5.69	1.45	1.33
1	M	63	PRO	CB-CG	5.69	1.78	1.49
1	H	54	LYS	C-N	5.69	1.42	1.33
1	K	140	GLY	C-O	5.69	1.31	1.23
1	C	259	HIS	CB-CG	-5.69	1.42	1.50
1	M	225	CYS	N-CA	5.69	1.53	1.46
1	N	365	ARG	CZ-NH1	5.69	1.40	1.32
1	D	355	TYR	CA-C	5.68	1.59	1.52
1	D	390	TYR	N-CA	5.68	1.52	1.46
1	D	472	LEU	C-OXT	5.68	1.34	1.23
1	H	70	TYR	C-O	-5.68	1.17	1.24
1	I	225	CYS	N-CA	5.68	1.53	1.46
1	L	169	TRP	CD2-CE2	-5.68	1.31	1.41
1	D	80	PRO	C-O	-5.68	1.16	1.24
1	I	174	PRO	N-CA	5.68	1.54	1.47
1	K	32	ASN	CB-CG	5.68	1.66	1.52
1	K	149	MET	CG-SD	-5.68	1.66	1.80
1	D	179	ALA	N-CA	5.68	1.53	1.46
1	B	327	ASN	CB-CG	5.68	1.66	1.52
1	F	276	TYR	CA-CB	-5.68	1.46	1.53
1	G	209	ASP	C-O	5.68	1.30	1.24
1	H	362	GLU	C-O	5.68	1.30	1.24
1	I	296	SER	C-O	-5.68	1.18	1.23
1	O	127	ASP	CA-C	-5.68	1.45	1.52
1	O	171	LYS	CB-CG	5.68	1.69	1.52
1	O	188	LEU	N-CA	-5.68	1.38	1.46
1	A	296	SER	CB-OG	5.68	1.53	1.42
1	B	49	TYR	CG-CD2	5.68	1.51	1.39
1	G	176	THR	CB-CG2	5.68	1.71	1.52
1	H	143	ASN	CG-ND2	-5.68	1.21	1.33
1	H	309	LYS	CD-CE	5.68	1.69	1.52
1	J	334	VAL	CA-CB	-5.68	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	292	PHE	CA-CB	5.68	1.62	1.53
1	N	272	PRO	N-CA	-5.68	1.40	1.47
1	A	20	ALA	N-CA	5.67	1.57	1.46
1	E	470	LEU	CG-CD1	5.67	1.71	1.52
1	F	228	ILE	CG1-CD1	5.67	1.73	1.51
1	H	391	ILE	C-O	5.67	1.30	1.24
1	J	171	LYS	CG-CD	5.67	1.69	1.52
1	M	449	VAL	CA-CB	5.67	1.61	1.54
1	D	82	LYS	N-CA	5.67	1.53	1.46
1	E	324	CYS	C-O	5.67	1.29	1.23
1	M	236	LYS	C-O	5.67	1.30	1.24
1	N	41	ARG	CD-NE	5.67	1.54	1.46
1	N	73	PHE	CB-CG	-5.67	1.37	1.50
1	A	62	VAL	C-O	-5.67	1.17	1.24
1	B	151	TYR	CZ-OH	-5.67	1.26	1.38
1	C	181	GLN	CD-NE2	5.67	1.45	1.33
1	F	195	ILE	CA-C	5.67	1.59	1.52
1	F	297	GLY	C-O	5.67	1.31	1.23
1	G	230	LYS	CG-CD	5.67	1.69	1.52
1	N	210	PHE	C-O	5.67	1.31	1.24
1	O	100	TRP	CA-CB	-5.67	1.44	1.53
1	O	195	ILE	CA-C	-5.67	1.46	1.53
1	B	192	ASN	CG-ND2	5.67	1.45	1.33
1	J	147	ILE	CB-CG2	-5.67	1.33	1.52
1	N	62	VAL	C-O	5.67	1.31	1.24
1	F	331	VAL	C-O	5.67	1.29	1.24
1	G	438	GLU	CG-CD	5.67	1.66	1.52
1	L	353	THR	N-CA	5.67	1.53	1.46
1	C	391	ILE	N-CA	5.67	1.53	1.46
1	M	155	GLN	C-O	-5.67	1.17	1.24
1	B	262	ASN	CA-CB	-5.66	1.45	1.53
1	J	150	ASP	N-CA	5.66	1.53	1.46
1	J	243	GLY	C-N	5.66	1.41	1.33
1	J	179	ALA	N-CA	5.66	1.53	1.46
1	E	100	TRP	C-O	5.66	1.31	1.23
1	F	442	LYS	CA-C	5.66	1.59	1.52
1	N	254	GLN	CD-OE1	5.66	1.34	1.23
1	I	88	THR	CA-C	-5.66	1.46	1.53
1	J	389	THR	CB-CG2	5.66	1.71	1.52
1	K	361	LYS	C-O	5.66	1.30	1.24
1	E	78	PRO	C-O	5.65	1.30	1.23
1	I	265	GLY	C-O	5.65	1.29	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	178	VAL	CB-CG2	5.65	1.71	1.52
1	A	367	GLY	N-CA	5.65	1.51	1.45
1	B	370	TYR	CA-CB	-5.65	1.43	1.53
1	C	31	THR	CB-OG1	5.65	1.52	1.43
1	G	190	LEU	CG-CD1	5.65	1.71	1.52
1	J	54	LYS	C-N	5.65	1.42	1.33
1	C	308	ASN	CA-CB	5.65	1.61	1.54
1	D	442	LYS	CA-C	-5.65	1.45	1.53
1	F	149	MET	CB-CG	5.65	1.69	1.52
1	F	97	ARG	CD-NE	5.65	1.54	1.46
1	C	21	VAL	CB-CG1	-5.65	1.33	1.52
1	E	71	ARG	C-O	5.65	1.30	1.23
1	M	150	ASP	CA-C	-5.65	1.46	1.53
1	C	443	LYS	CA-CB	5.65	1.62	1.53
1	D	126	LEU	C-O	-5.65	1.18	1.23
1	E	308	ASN	C-O	-5.65	1.13	1.24
1	N	106	GLU	C-N	5.65	1.41	1.33
1	L	269	GLU	N-CA	-5.64	1.38	1.45
1	O	106	GLU	C-N	5.64	1.39	1.33
1	E	108	GLY	N-CA	5.64	1.53	1.45
1	H	181	GLN	CD-NE2	5.64	1.45	1.33
1	L	149	MET	CB-CG	-5.64	1.35	1.52
1	L	163	PRO	CA-CB	-5.64	1.46	1.54
1	B	51	PRO	CG-CD	-5.64	1.31	1.50
1	B	389	THR	CA-CB	-5.64	1.44	1.53
1	N	259	HIS	N-CA	5.64	1.53	1.45
1	A	389	THR	C-O	5.64	1.30	1.24
1	C	113	LEU	CA-CB	-5.64	1.44	1.53
1	C	397	THR	N-CA	-5.64	1.39	1.46
1	I	179	ALA	C-O	5.64	1.31	1.24
1	O	332	THR	CB-OG1	5.64	1.52	1.43
1	D	176	THR	C-N	5.64	1.41	1.33
1	L	193	THR	N-CA	-5.64	1.39	1.46
1	D	253	GLU	CD-OE2	5.64	1.36	1.25
1	E	126	LEU	CA-C	-5.64	1.45	1.52
1	E	299	MET	N-CA	5.64	1.53	1.46
1	E	366	HIS	C-O	-5.64	1.17	1.23
1	F	204	GLY	CA-C	-5.64	1.44	1.51
1	I	390	TYR	CZ-OH	5.64	1.49	1.38
1	B	133	SER	N-CA	5.63	1.54	1.46
1	H	376	PHE	CD2-CE2	-5.63	1.21	1.38
1	J	231	TYR	C-O	5.63	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	31	THR	CB-CG2	5.63	1.71	1.52
1	B	181	GLN	CG-CD	5.63	1.66	1.52
1	B	368	GLU	C-O	5.63	1.31	1.23
1	C	203	THR	CA-CB	-5.63	1.45	1.54
1	D	320	ASN	CG-ND2	5.63	1.45	1.33
1	E	252	ARG	CZ-NH2	-5.63	1.26	1.33
1	J	359	ASN	CG-ND2	5.63	1.45	1.33
1	E	255	MET	CA-C	-5.63	1.45	1.52
1	I	327	ASN	C-O	5.63	1.31	1.23
1	I	471	GLN	C-O	5.63	1.31	1.24
1	J	185	CYS	C-N	5.63	1.38	1.33
1	J	379	CYS	C-O	5.63	1.31	1.23
1	K	50	PHE	C-O	-5.63	1.18	1.24
1	M	285	ASN	N-CA	-5.63	1.39	1.46
1	O	260	LEU	N-CA	-5.63	1.39	1.46
1	C	251	ARG	CZ-NH1	5.63	1.40	1.32
1	E	107	VAL	C-O	5.63	1.30	1.23
1	G	460	ASP	CA-C	-5.63	1.44	1.52
1	J	462	PHE	CB-CG	-5.63	1.37	1.50
1	L	349	SER	CB-OG	5.63	1.53	1.42
1	L	378	LEU	CG-CD1	-5.63	1.33	1.52
1	N	266	THR	CB-CG2	5.63	1.71	1.52
1	M	370	TYR	CB-CG	-5.62	1.39	1.51
1	A	42	LEU	C-N	5.62	1.41	1.33
1	B	181	GLN	N-CA	-5.62	1.37	1.46
1	F	392	HIS	C-N	5.62	1.41	1.33
1	H	221	PRO	CG-CD	5.62	1.69	1.50
1	K	34	TYR	CA-CB	-5.62	1.43	1.53
1	N	32	ASN	CG-ND2	5.62	1.45	1.33
1	O	40	SER	CB-OG	5.62	1.53	1.42
1	A	268	GLY	CA-C	5.62	1.59	1.51
1	F	455	PHE	CA-CB	-5.62	1.44	1.53
1	C	35	TYR	C-O	5.62	1.30	1.23
1	F	103	VAL	CB-CG2	5.62	1.71	1.52
1	H	104	GLY	N-CA	5.62	1.51	1.45
1	C	63	PRO	N-CA	5.62	1.54	1.47
1	F	376	PHE	CD2-CE2	-5.62	1.21	1.38
1	G	391	ILE	CB-CG2	5.62	1.71	1.52
1	J	184	ASP	CA-CB	5.62	1.62	1.53
1	O	88	THR	CA-C	5.62	1.59	1.52
1	H	456	SER	CA-C	-5.62	1.45	1.52
1	A	312	TRP	CA-C	-5.62	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	361	LYS	CD-CE	5.62	1.69	1.52
1	F	48	PRO	C-O	-5.62	1.16	1.24
1	G	53	LYS	CG-CD	-5.62	1.35	1.52
1	H	317	GLN	C-O	5.62	1.31	1.24
1	I	369	GLU	N-CA	-5.62	1.39	1.46
1	A	357	ASN	CG-ND2	5.61	1.45	1.33
1	E	315	ARG	CD-NE	5.61	1.54	1.46
1	E	403	ASN	CA-CB	5.61	1.64	1.53
1	H	129	THR	CA-C	-5.61	1.45	1.52
1	N	26	GLU	CB-CG	-5.61	1.35	1.52
1	A	262	ASN	C-O	5.61	1.30	1.24
1	L	221	PRO	CG-CD	-5.61	1.31	1.50
1	O	189	GLU	CA-C	5.61	1.58	1.52
1	D	334	VAL	N-CA	5.61	1.54	1.46
1	G	115	VAL	C-O	5.61	1.29	1.24
1	H	155	GLN	C-O	-5.61	1.17	1.24
1	J	442	LYS	CE-NZ	5.61	1.66	1.49
1	M	155	GLN	CD-NE2	5.61	1.45	1.33
1	N	261	PHE	CA-C	-5.61	1.45	1.52
1	O	26	GLU	CD-OE2	5.61	1.36	1.25
1	O	240	GLU	CA-C	5.61	1.60	1.52
1	O	292	PHE	CA-CB	5.61	1.63	1.53
1	M	438	GLU	CD-OE2	5.61	1.36	1.25
1	F	177	GLN	CA-CB	5.61	1.62	1.53
1	G	144	ARG	CZ-NH2	5.61	1.40	1.33
1	C	269	GLU	CB-CG	5.61	1.69	1.52
1	C	316	ALA	CA-C	-5.61	1.45	1.52
1	E	195	ILE	CA-C	-5.61	1.46	1.52
1	E	314	GLN	CA-C	5.61	1.60	1.52
1	G	333	VAL	CA-C	5.61	1.59	1.52
1	O	139	ALA	C-O	5.61	1.30	1.24
1	C	351	SER	C-O	5.60	1.31	1.24
1	G	289	SER	CA-C	5.60	1.60	1.52
1	I	349	SER	C-O	5.60	1.30	1.23
1	F	173	SER	N-CA	5.60	1.54	1.46
1	M	102	CYS	N-CA	-5.60	1.39	1.46
1	O	373	GLN	C-O	5.60	1.30	1.23
1	H	369	GLU	CA-C	-5.60	1.45	1.52
1	J	47	HIS	C-N	-5.60	1.27	1.34
1	J	99	VAL	N-CA	5.60	1.52	1.46
1	C	313	LEU	CA-CB	-5.60	1.44	1.53
1	G	300	VAL	CB-CG2	-5.60	1.34	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	354	THR	C-O	5.60	1.30	1.23
1	L	195	ILE	CA-CB	5.60	1.62	1.54
1	C	40	SER	C-O	5.60	1.30	1.24
1	E	86	PRO	CA-C	5.60	1.60	1.52
1	E	467	LYS	N-CA	-5.60	1.39	1.46
1	F	145	GLU	CA-C	-5.60	1.45	1.52
1	H	125	LYS	C-O	5.60	1.30	1.24
1	H	319	HIS	CB-CG	-5.60	1.42	1.50
1	N	45	VAL	CA-CB	5.60	1.62	1.54
1	O	86	PRO	CA-C	5.60	1.60	1.52
1	F	162	LYS	N-CA	5.60	1.54	1.45
1	M	78	PRO	CG-CD	-5.60	1.31	1.50
1	A	61	LEU	C-O	5.59	1.31	1.24
1	E	445	THR	CA-CB	-5.59	1.45	1.53
1	J	209	ASP	C-O	5.59	1.30	1.24
1	L	199	ASP	CG-OD1	5.59	1.35	1.25
1	C	115	VAL	CA-C	5.59	1.59	1.52
1	K	466	ARG	CA-C	-5.59	1.45	1.52
1	I	87	ASP	CG-OD1	5.59	1.35	1.25
1	L	183	GLY	C-O	-5.59	1.16	1.23
1	M	317	GLN	C-O	-5.59	1.16	1.24
1	G	320	ASN	CA-CB	-5.59	1.44	1.53
1	J	316	ALA	CA-C	-5.59	1.45	1.52
1	A	127	ASP	CG-OD1	5.59	1.35	1.25
1	C	260	LEU	N-CA	-5.59	1.39	1.46
1	G	180	VAL	CB-CG2	5.59	1.71	1.52
1	G	255	MET	CA-C	-5.59	1.46	1.52
1	K	315	ARG	CA-C	-5.59	1.45	1.52
1	D	354	THR	N-CA	-5.58	1.39	1.46
1	E	463	PRO	C-O	-5.58	1.16	1.24
1	H	317	GLN	CD-OE1	5.58	1.34	1.23
1	B	117	ILE	CG1-CD1	5.58	1.73	1.51
1	F	448	GLU	CA-C	5.58	1.60	1.52
1	A	157	CYS	CB-SG	-5.58	1.62	1.81
1	B	438	GLU	CG-CD	5.58	1.66	1.52
1	E	182	PRO	C-O	-5.58	1.16	1.24
1	G	459	LEU	N-CA	-5.58	1.38	1.46
1	K	188	LEU	C-O	-5.58	1.16	1.23
1	L	64	LYS	CA-C	-5.58	1.45	1.52
1	D	440	PRO	C-O	5.58	1.32	1.24
1	F	249	TYR	N-CA	5.58	1.52	1.46
1	G	207	ALA	N-CA	-5.58	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	97	ARG	CG-CD	5.58	1.69	1.52
1	O	330	PHE	C-O	-5.58	1.17	1.24
1	D	272	PRO	N-CA	-5.58	1.40	1.47
1	G	116	GLY	N-CA	5.58	1.53	1.46
1	I	257	VAL	C-O	5.58	1.30	1.23
1	J	94	ASP	CA-C	5.58	1.58	1.52
1	K	237	MET	SD-CE	5.58	1.93	1.79
1	D	115	VAL	C-N	5.58	1.39	1.33
1	E	101	ALA	C-O	5.58	1.30	1.23
1	G	394	MET	CG-SD	5.58	1.94	1.80
1	H	247	PHE	C-O	-5.58	1.15	1.23
1	K	58	ASN	CA-C	5.58	1.60	1.53
1	K	381	ILE	N-CA	-5.58	1.39	1.46
1	N	165	ILE	CG1-CD1	5.58	1.73	1.51
1	N	312	TRP	CD2-CE2	5.58	1.50	1.41
1	O	316	ALA	N-CA	5.58	1.53	1.46
1	A	449	VAL	CB-CG2	-5.57	1.34	1.52
1	E	381	ILE	CA-CB	-5.57	1.46	1.54
1	G	125	LYS	CA-C	-5.57	1.46	1.52
1	H	155	GLN	CB-CG	-5.57	1.35	1.52
1	H	205	PHE	CD1-CE1	5.57	1.55	1.38
1	E	254	GLN	C-N	5.57	1.40	1.33
1	G	278	LYS	CB-CG	5.57	1.69	1.52
1	E	373	GLN	CA-C	5.57	1.59	1.52
1	H	296	SER	CA-CB	-5.57	1.44	1.53
1	I	210	PHE	CA-C	5.57	1.59	1.52
1	K	306	ILE	CA-CB	-5.57	1.46	1.54
1	L	61	LEU	CG-CD2	5.57	1.71	1.52
1	L	280	SER	C-O	5.57	1.30	1.24
1	A	380	LYS	CE-NZ	5.57	1.66	1.49
1	D	331	VAL	CA-CB	5.57	1.60	1.54
1	H	381	ILE	CA-C	5.57	1.60	1.52
1	C	75	ILE	C-O	5.57	1.29	1.24
1	D	222	LEU	CA-C	5.57	1.60	1.52
1	F	132	ALA	C-O	5.57	1.30	1.23
1	G	201	VAL	N-CA	-5.57	1.39	1.46
1	L	35	TYR	C-O	5.57	1.31	1.24
1	N	76	HIS	CA-C	-5.57	1.45	1.52
1	K	370	TYR	CG-CD2	-5.57	1.27	1.39
1	M	62	VAL	CA-C	-5.57	1.47	1.52
1	N	149	MET	SD-CE	5.57	1.93	1.79
1	J	181	GLN	CD-NE2	5.56	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	21	VAL	CA-C	-5.56	1.46	1.52
1	F	228	ILE	N-CA	-5.56	1.39	1.46
1	G	207	ALA	C-O	5.56	1.30	1.24
1	G	259	HIS	CB-CG	-5.56	1.42	1.50
1	H	24	THR	CA-CB	-5.56	1.44	1.53
1	K	61	LEU	CG-CD1	5.56	1.71	1.52
1	M	201	VAL	C-O	5.56	1.30	1.24
1	F	153	GLN	CA-C	-5.56	1.45	1.52
1	A	251	ARG	N-CA	-5.56	1.39	1.45
1	B	100	TRP	CA-C	-5.56	1.45	1.52
1	G	363	TYR	CE1-CZ	5.56	1.51	1.38
1	L	178	VAL	C-O	5.56	1.30	1.24
1	N	457	ALA	N-CA	-5.56	1.39	1.46
1	A	375	ILE	C-O	5.56	1.30	1.24
1	H	262	ASN	C-O	5.56	1.30	1.24
1	O	106	GLU	N-CA	-5.56	1.39	1.46
1	D	178	VAL	CA-C	5.55	1.59	1.52
1	E	173	SER	CB-OG	5.55	1.53	1.42
1	B	201	VAL	C-O	-5.55	1.17	1.24
1	E	183	GLY	C-O	5.55	1.31	1.23
1	F	458	ASP	CG-OD2	5.55	1.35	1.25
1	C	295	PRO	N-CA	5.55	1.53	1.47
1	D	258	ARG	CA-C	-5.55	1.45	1.52
1	I	332	THR	C-O	5.55	1.30	1.24
1	J	331	VAL	CB-CG2	-5.55	1.34	1.52
1	L	438	GLU	CD-OE1	5.55	1.35	1.25
1	N	86	PRO	C-O	5.55	1.31	1.24
1	A	279	GLY	CA-C	5.55	1.58	1.51
1	A	295	PRO	N-CD	-5.55	1.40	1.47
1	B	122	LEU	CB-CG	5.55	1.64	1.53
1	C	228	ILE	C-O	-5.55	1.18	1.24
1	I	188	LEU	C-O	-5.55	1.16	1.23
1	J	327	ASN	CG-OD1	5.55	1.34	1.23
1	K	471	GLN	CD-OE1	5.55	1.34	1.23
1	G	59	LYS	C-O	5.55	1.30	1.24
1	G	249	TYR	C-O	-5.55	1.16	1.23
1	H	129	THR	CB-CG2	-5.55	1.34	1.52
1	B	340	THR	N-CA	-5.55	1.39	1.46
1	K	184	ASP	C-O	5.55	1.30	1.24
1	K	256	PHE	C-O	-5.55	1.16	1.23
1	E	125	LYS	N-CA	-5.54	1.39	1.46
1	G	25	ASP	CB-CG	5.54	1.66	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	390	TYR	CA-C	5.54	1.59	1.52
1	J	394	MET	CG-SD	5.54	1.94	1.80
1	A	93	PRO	N-CD	5.54	1.55	1.47
1	E	317	GLN	C-O	5.54	1.30	1.24
1	H	63	PRO	CB-CG	5.54	1.77	1.49
1	K	85	PHE	CA-C	-5.54	1.46	1.53
1	M	465	GLY	C-O	-5.54	1.16	1.23
1	O	242	TYR	CA-C	5.54	1.60	1.52
1	D	465	GLY	C-O	5.54	1.31	1.23
1	F	382	THR	CA-C	-5.54	1.45	1.52
1	G	439	ASP	CA-C	5.54	1.59	1.52
1	H	52	ILE	N-CA	-5.54	1.39	1.46
1	H	235	ILE	N-CA	5.54	1.53	1.46
1	B	439	ASP	N-CA	5.54	1.54	1.46
1	N	253	GLU	CA-C	5.54	1.59	1.52
1	A	300	VAL	CA-C	-5.54	1.45	1.52
1	C	196	GLN	CA-C	-5.54	1.45	1.53
1	D	25	ASP	CG-OD2	5.54	1.35	1.25
1	E	338	ARG	CZ-NH1	5.54	1.40	1.32
1	K	33	ILE	C-O	5.54	1.30	1.24
1	C	156	LEU	C-O	5.53	1.30	1.23
1	E	123	LEU	C-O	-5.53	1.17	1.23
1	L	394	MET	C-N	-5.53	1.26	1.33
1	A	20	ALA	C-O	5.53	1.34	1.23
1	A	157	CYS	N-CA	5.53	1.52	1.46
1	A	471	GLN	CA-C	5.53	1.55	1.52
1	E	277	ILE	CB-CG1	5.53	1.64	1.53
1	H	270	ASN	CA-C	-5.53	1.45	1.52
1	I	31	THR	N-CA	5.53	1.53	1.45
1	J	183	GLY	C-O	5.53	1.31	1.23
1	M	202	ASP	CG-OD1	5.53	1.35	1.25
1	G	379	CYS	C-O	-5.53	1.16	1.23
1	B	49	TYR	CA-C	5.53	1.58	1.52
1	B	328	GLN	N-CA	-5.53	1.39	1.45
1	C	216	ASN	CG-ND2	5.53	1.44	1.33
1	H	189	GLU	N-CA	5.53	1.53	1.46
1	J	453	GLU	CD-OE2	5.53	1.35	1.25
1	M	470	LEU	CA-CB	-5.53	1.45	1.53
1	N	470	LEU	CA-CB	-5.53	1.44	1.53
1	A	291	TYR	C-O	5.53	1.30	1.23
1	L	315	ARG	CD-NE	5.53	1.53	1.46
1	I	194	VAL	CB-CG1	5.52	1.70	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	398	ILE	C-O	5.52	1.30	1.24
1	O	126	LEU	CA-C	-5.52	1.45	1.52
1	A	160	GLY	C-O	5.52	1.29	1.23
1	A	222	LEU	C-O	5.52	1.30	1.24
1	A	368	GLU	CD-OE1	5.52	1.35	1.25
1	L	263	ARG	CZ-NH1	-5.52	1.25	1.32
1	A	160	GLY	N-CA	5.52	1.50	1.45
1	D	108	GLY	CA-C	5.52	1.58	1.52
1	J	264	ALA	C-O	5.52	1.31	1.23
1	O	72	VAL	CB-CG1	-5.52	1.34	1.52
1	A	164	PRO	CA-C	-5.52	1.45	1.52
1	B	226	THR	C-O	5.52	1.31	1.24
1	I	175	CYS	CA-CB	5.52	1.60	1.53
1	I	274	ASP	C-O	-5.52	1.16	1.24
1	J	42	LEU	C-N	5.52	1.40	1.33
1	J	380	LYS	N-CA	-5.52	1.39	1.45
1	K	233	ASP	CA-C	-5.52	1.47	1.53
1	D	397	THR	CA-CB	5.52	1.62	1.53
1	G	219	GLU	C-O	5.52	1.31	1.23
1	B	316	ALA	CA-CB	5.51	1.62	1.53
1	H	336	THR	N-CA	-5.51	1.39	1.46
1	K	121	PRO	C-O	-5.51	1.16	1.24
1	K	384	THR	C-O	-5.51	1.16	1.24
1	L	352	GLU	CA-C	-5.51	1.45	1.52
1	O	336	THR	CA-CB	-5.51	1.45	1.53
1	D	112	PRO	C-O	5.51	1.30	1.23
1	N	153	GLN	CA-C	5.51	1.60	1.52
1	D	103	VAL	N-CA	5.51	1.51	1.46
1	F	70	TYR	CG-CD2	-5.51	1.27	1.39
1	G	70	TYR	CA-C	5.51	1.60	1.52
1	B	133	SER	CB-OG	5.51	1.53	1.42
1	H	195	ILE	N-CA	-5.51	1.39	1.46
1	L	315	ARG	CZ-NH2	5.51	1.40	1.33
1	F	153	GLN	C-O	-5.51	1.17	1.24
1	H	181	GLN	CA-CB	-5.51	1.44	1.52
1	J	249	TYR	CA-C	-5.51	1.45	1.52
1	M	137	ALA	C-O	5.51	1.30	1.23
1	A	441	LEU	CB-CG	-5.51	1.42	1.53
1	I	163	PRO	CB-CG	5.51	1.77	1.49
1	J	312	TRP	CA-CB	-5.51	1.45	1.53
1	J	445	THR	CA-CB	5.51	1.62	1.53
1	O	168	HIS	C-O	-5.51	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	208	MET	C-O	-5.50	1.19	1.24
1	I	208	MET	C-O	5.50	1.29	1.24
1	M	244	ASP	CG-OD1	5.50	1.35	1.25
1	F	112	PRO	N-CA	5.50	1.53	1.47
1	G	348	ILE	CB-CG2	5.50	1.70	1.52
1	B	300	VAL	CB-CG1	5.50	1.70	1.52
1	F	181	GLN	N-CA	-5.50	1.38	1.46
1	J	99	VAL	C-O	-5.50	1.18	1.24
1	F	52	ILE	C-O	5.50	1.31	1.23
1	G	391	ILE	CA-CB	5.50	1.61	1.54
1	I	235	ILE	N-CA	5.50	1.53	1.46
1	J	296	SER	C-O	5.50	1.30	1.24
1	C	31	THR	CB-CG2	5.50	1.70	1.52
1	C	93	PRO	CA-C	5.50	1.60	1.52
1	D	127	ASP	CG-OD2	5.50	1.35	1.25
1	F	323	ILE	CG1-CD1	5.50	1.73	1.51
1	H	291	TYR	CA-CB	-5.50	1.44	1.53
1	I	342	MET	SD-CE	5.50	1.93	1.79
1	J	33	ILE	CA-C	5.50	1.59	1.52
1	O	167	GLU	N-CA	-5.50	1.39	1.46
1	F	444	TYR	CZ-OH	5.50	1.49	1.38
1	I	174	PRO	C-N	5.50	1.42	1.33
1	J	307	PHE	C-O	5.50	1.30	1.23
1	D	282	SER	CB-OG	5.49	1.53	1.42
1	I	173	SER	CA-C	5.49	1.59	1.52
1	B	54	LYS	CB-CG	5.49	1.69	1.52
1	F	461	GLN	CD-NE2	5.49	1.44	1.33
1	H	237	MET	CA-C	5.49	1.60	1.52
1	K	241	PRO	CA-CB	-5.49	1.46	1.53
1	L	83	PHE	C-O	5.49	1.31	1.23
1	L	168	HIS	CA-C	-5.49	1.45	1.52
1	C	104	GLY	C-O	5.49	1.31	1.23
1	E	32	ASN	CB-CG	5.49	1.65	1.52
1	H	233	ASP	CA-CB	5.49	1.59	1.52
1	L	201	VAL	CB-CG2	-5.49	1.34	1.52
1	M	60	ILE	C-N	-5.49	1.26	1.33
1	A	126	LEU	N-CA	5.49	1.53	1.46
1	A	144	ARG	C-O	-5.49	1.17	1.24
1	D	152	LYS	CD-CE	5.49	1.69	1.52
1	L	70	TYR	CG-CD1	-5.49	1.27	1.39
1	L	145	GLU	CA-C	-5.49	1.45	1.52
1	A	470	LEU	CG-CD1	5.49	1.70	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	102	CYS	C-O	-5.49	1.17	1.24
1	C	349	SER	CA-CB	5.49	1.62	1.53
1	G	309	LYS	CB-CG	5.49	1.69	1.52
1	H	80	PRO	N-CA	5.49	1.55	1.47
1	I	120	HIS	C-O	5.49	1.31	1.24
1	L	152	LYS	C-O	-5.49	1.17	1.23
1	C	271	VAL	C-N	-5.48	1.26	1.33
1	G	445	THR	N-CA	5.48	1.52	1.46
1	K	195	ILE	C-O	-5.48	1.14	1.23
1	A	138	ASN	C-O	5.48	1.30	1.24
1	B	31	THR	CB-CG2	5.48	1.70	1.52
1	K	113	LEU	CA-C	-5.48	1.45	1.52
1	A	388	MET	CA-C	-5.48	1.45	1.52
1	N	359	ASN	CA-C	5.48	1.59	1.52
1	C	31	THR	CA-CB	5.48	1.61	1.53
1	C	300	VAL	CB-CG2	-5.48	1.34	1.52
1	K	344	LEU	CA-C	-5.48	1.46	1.52
1	O	301	THR	N-CA	5.48	1.52	1.46
1	B	142	ASP	C-O	-5.48	1.15	1.23
1	F	352	GLU	CD-OE1	5.48	1.35	1.25
1	H	446	PHE	CD2-CE2	5.48	1.55	1.38
1	I	182	PRO	CA-CB	5.48	1.61	1.53
1	B	76	HIS	CA-C	5.47	1.59	1.52
1	C	356	LYS	C-O	-5.47	1.17	1.24
1	C	472	LEU	CA-CB	5.47	1.64	1.53
1	D	366	HIS	N-CA	5.47	1.52	1.46
1	K	239	SER	N-CA	5.47	1.53	1.46
1	M	161	CYS	C-O	-5.47	1.17	1.24
1	B	56	ASN	N-CA	5.47	1.53	1.46
1	B	323	ILE	CB-CG2	5.47	1.70	1.52
1	E	96	GLN	N-CA	-5.47	1.39	1.45
1	G	34	TYR	C-O	5.47	1.30	1.24
1	H	98	LEU	CG-CD2	-5.47	1.34	1.52
1	J	369	GLU	CA-C	-5.47	1.46	1.52
1	K	115	VAL	C-O	5.47	1.29	1.24
1	O	257	VAL	CA-CB	-5.47	1.47	1.53
1	B	195	ILE	C-O	-5.47	1.15	1.23
1	G	383	LEU	CA-CB	5.47	1.60	1.52
1	H	180	VAL	CB-CG2	5.47	1.70	1.52
1	J	54	LYS	CE-NZ	5.47	1.65	1.49
1	J	461	GLN	CA-C	5.47	1.60	1.52
1	N	102	CYS	N-CA	-5.47	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	289	SER	C-N	5.47	1.40	1.33
1	F	450	ASN	CG-ND2	5.47	1.44	1.33
1	D	145	GLU	N-CA	5.47	1.53	1.46
1	D	448	GLU	CA-CB	-5.47	1.45	1.53
1	E	20	ALA	C-N	5.47	1.41	1.33
1	F	464	LEU	CB-CG	5.47	1.64	1.53
1	G	276	TYR	N-CA	5.47	1.53	1.46
1	F	109	ARG	N-CA	5.46	1.52	1.46
1	G	336	THR	CB-CG2	-5.46	1.34	1.52
1	H	59	LYS	C-O	5.46	1.30	1.24
1	M	72	VAL	CA-C	5.46	1.59	1.52
1	N	164	PRO	N-CA	-5.46	1.40	1.47
1	A	73	PHE	C-O	5.46	1.30	1.23
1	B	193	THR	CA-CB	-5.46	1.44	1.53
1	C	284	ALA	CA-C	-5.46	1.45	1.52
1	E	208	MET	CA-CB	5.46	1.60	1.53
1	G	332	THR	C-O	5.46	1.30	1.24
1	K	149	MET	C-O	5.46	1.29	1.24
1	B	42	LEU	CG-CD2	5.46	1.70	1.52
1	E	303	ASP	C-O	-5.46	1.17	1.24
1	F	347	ALA	N-CA	5.46	1.53	1.45
1	G	471	GLN	CB-CG	-5.46	1.36	1.52
1	A	264	ALA	C-O	5.46	1.31	1.23
1	D	333	VAL	CA-C	5.46	1.59	1.52
1	E	310	PRO	CG-CD	-5.46	1.32	1.50
1	J	267	VAL	C-O	5.46	1.30	1.24
1	J	269	GLU	C-O	-5.46	1.17	1.24
1	N	228	ILE	CA-CB	5.46	1.60	1.54
1	N	280	SER	C-O	5.46	1.29	1.23
1	F	260	LEU	C-O	-5.46	1.17	1.24
1	J	444	TYR	CA-C	-5.46	1.46	1.52
1	M	353	THR	CB-CG2	5.46	1.70	1.52
1	D	364	LEU	C-O	5.45	1.30	1.24
1	E	174	PRO	CA-CB	5.45	1.61	1.53
1	E	256	PHE	CA-CB	-5.45	1.44	1.53
1	A	249	TYR	C-N	-5.45	1.26	1.33
1	B	116	GLY	N-CA	-5.45	1.38	1.45
1	E	34	TYR	CZ-OH	5.45	1.49	1.38
1	F	58	ASN	CG-OD1	5.45	1.33	1.23
1	I	467	LYS	CB-CG	5.45	1.68	1.52
1	J	235	ILE	CG1-CD1	5.45	1.73	1.51
1	N	387	VAL	CB-CG1	5.45	1.70	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	223	ASP	C-O	-5.45	1.17	1.24
1	C	269	GLU	CG-CD	5.45	1.65	1.52
1	D	144	ARG	CD-NE	-5.45	1.38	1.46
1	H	118	SER	C-N	5.45	1.39	1.33
1	J	398	ILE	N-CA	-5.45	1.39	1.46
1	L	72	VAL	N-CA	5.45	1.52	1.46
1	B	255	MET	SD-CE	5.45	1.93	1.79
1	E	236	LYS	CG-CD	5.45	1.68	1.52
1	E	342	MET	C-O	5.45	1.30	1.23
1	H	315	ARG	CA-C	-5.45	1.45	1.52
1	J	159	ILE	CB-CG2	-5.45	1.34	1.52
1	L	122	LEU	CG-CD2	-5.45	1.34	1.52
1	O	135	TYR	C-O	-5.45	1.17	1.23
1	H	253	GLU	N-CA	5.45	1.52	1.46
1	K	113	LEU	CB-CG	-5.45	1.42	1.53
1	E	279	GLY	C-O	-5.44	1.16	1.23
1	J	338	ARG	CG-CD	5.44	1.68	1.52
1	M	157	CYS	N-CA	5.44	1.52	1.46
1	K	167	GLU	CA-C	-5.44	1.46	1.52
1	O	203	THR	C-O	5.44	1.31	1.24
1	B	273	ASP	C-O	5.44	1.32	1.24
1	D	355	TYR	CZ-OH	5.44	1.49	1.38
1	E	175	CYS	CA-C	-5.44	1.46	1.52
1	I	136	ALA	CA-CB	5.44	1.62	1.53
1	M	155	GLN	CA-C	-5.44	1.46	1.52
1	N	88	THR	C-O	5.44	1.30	1.23
1	C	175	CYS	N-CA	5.44	1.52	1.46
1	E	269	GLU	CD-OE2	5.44	1.35	1.25
1	E	329	LEU	CG-CD2	5.44	1.70	1.52
1	K	144	ARG	C-O	5.44	1.30	1.24
1	O	32	ASN	CG-ND2	5.44	1.44	1.33
1	B	340	THR	CA-CB	5.44	1.62	1.53
1	C	157	CYS	C-O	-5.44	1.17	1.23
1	G	138	ASN	CG-ND2	5.44	1.44	1.33
1	G	233	ASP	CG-OD1	5.44	1.35	1.25
1	H	221	PRO	C-O	5.44	1.31	1.24
1	K	272	PRO	CB-CG	5.44	1.76	1.49
1	M	354	THR	N-CA	5.44	1.52	1.46
1	N	239	SER	C-O	5.44	1.30	1.24
1	N	313	LEU	CA-CB	-5.44	1.45	1.53
1	C	155	GLN	C-N	-5.44	1.26	1.33
1	J	336	THR	CA-C	-5.44	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	370	TYR	CZ-OH	5.44	1.49	1.38
1	A	128	ASP	N-CA	-5.43	1.39	1.46
1	C	100	TRP	C-O	-5.43	1.17	1.23
1	I	199	ASP	CA-C	-5.43	1.45	1.53
1	I	230	LYS	CE-NZ	5.43	1.65	1.49
1	J	448	GLU	CA-C	-5.43	1.46	1.52
1	M	162	LYS	CE-NZ	5.43	1.65	1.49
1	C	327	ASN	CG-ND2	5.43	1.44	1.33
1	D	266	THR	CB-CG2	5.43	1.70	1.52
1	D	390	TYR	CD1-CE1	5.43	1.54	1.38
1	F	360	PHE	CB-CG	-5.43	1.38	1.50
1	H	170	GLY	N-CA	5.43	1.51	1.45
1	L	33	ILE	CA-CB	5.43	1.61	1.54
1	A	292	PHE	CA-C	5.43	1.58	1.52
1	H	306	ILE	CA-CB	-5.43	1.47	1.54
1	K	102	CYS	N-CA	-5.43	1.39	1.46
1	I	449	VAL	CA-CB	5.43	1.61	1.54
1	K	471	GLN	CA-CB	-5.43	1.47	1.54
1	M	135	TYR	CA-C	-5.43	1.45	1.52
1	O	45	VAL	C-O	5.43	1.30	1.24
1	B	86	PRO	CG-CD	5.43	1.69	1.50
1	M	68	LEU	CB-CG	5.43	1.64	1.53
1	D	461	GLN	C-O	5.42	1.32	1.24
1	E	224	ILE	CB-CG2	-5.42	1.34	1.52
1	L	66	SER	CA-CB	-5.42	1.43	1.53
1	H	192	ASN	CG-ND2	5.42	1.44	1.33
1	I	57	ASN	C-O	5.42	1.30	1.23
1	I	279	GLY	N-CA	5.42	1.53	1.45
1	J	92	ASN	CG-OD1	5.42	1.33	1.23
1	K	231	TYR	CA-CB	-5.42	1.40	1.54
1	C	396	SER	CA-CB	5.42	1.62	1.53
1	F	212	THR	C-O	-5.42	1.17	1.24
1	N	161	CYS	C-O	5.42	1.31	1.24
1	N	398	ILE	CG1-CD1	5.42	1.72	1.51
1	B	355	TYR	CD2-CE2	5.42	1.54	1.38
1	E	458	ASP	CA-C	5.42	1.60	1.52
1	L	55	PRO	C-O	5.42	1.31	1.24
1	C	60	ILE	N-CA	-5.42	1.40	1.46
1	E	378	LEU	CA-C	-5.42	1.45	1.52
1	I	235	ILE	CA-C	-5.42	1.45	1.52
1	E	236	LYS	N-CA	-5.42	1.39	1.46
1	H	369	GLU	CA-CB	-5.42	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	368	GLU	CD-OE1	5.42	1.35	1.25
1	C	395	ASN	C-O	5.41	1.30	1.23
1	D	285	ASN	C-N	5.41	1.40	1.33
1	M	250	LEU	N-CA	5.41	1.52	1.46
1	M	303	ASP	CA-C	-5.41	1.45	1.52
1	N	59	LYS	CA-C	5.41	1.59	1.52
1	O	360	PHE	C-O	-5.41	1.17	1.23
1	B	45	VAL	CA-CB	5.41	1.61	1.54
1	D	307	PHE	C-O	-5.41	1.16	1.23
1	E	53	LYS	C-O	5.41	1.30	1.23
1	H	60	ILE	CA-CB	-5.41	1.47	1.53
1	N	109	ARG	CD-NE	5.41	1.53	1.46
1	J	27	TYR	C-O	5.41	1.31	1.24
1	J	37	ALA	C-O	5.41	1.30	1.23
1	M	347	ALA	CA-C	5.41	1.59	1.52
1	A	345	CYS	N-CA	-5.41	1.39	1.45
1	B	384	THR	CA-C	-5.41	1.46	1.53
1	G	78	PRO	CA-C	5.41	1.59	1.52
1	J	198	GLY	CA-C	5.41	1.59	1.51
1	N	74	ARG	C-O	5.41	1.30	1.24
1	A	129	THR	CA-CB	-5.41	1.45	1.53
1	D	449	VAL	CA-C	5.41	1.59	1.52
1	F	98	LEU	CA-C	5.41	1.59	1.52
1	F	152	LYS	CE-NZ	5.41	1.65	1.49
1	G	97	ARG	CB-CG	5.41	1.68	1.52
1	G	151	TYR	CB-CG	-5.41	1.39	1.51
1	G	188	LEU	CB-CG	5.41	1.64	1.53
1	K	177	GLN	CG-CD	5.41	1.65	1.52
1	L	32	ASN	C-O	5.41	1.33	1.23
1	N	176	THR	N-CA	5.41	1.53	1.46
1	C	236	LYS	N-CA	-5.40	1.39	1.46
1	N	42	LEU	C-O	5.40	1.30	1.23
1	B	168	HIS	C-N	-5.40	1.25	1.33
1	B	229	CYS	CA-CB	-5.40	1.46	1.53
1	D	100	TRP	CD2-CE2	-5.40	1.32	1.41
1	F	385	ALA	CA-C	-5.40	1.46	1.52
1	J	202	ASP	CG-OD2	5.40	1.35	1.25
1	L	148	SER	C-N	5.40	1.39	1.33
1	G	312	TRP	C-O	5.40	1.30	1.24
1	H	26	GLU	CG-CD	5.40	1.65	1.52
1	H	50	PHE	CE1-CZ	-5.40	1.22	1.38
1	M	214	GLN	CD-NE2	-5.40	1.22	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	141	VAL	N-CA	5.40	1.52	1.46
1	M	294	THR	CA-C	-5.40	1.46	1.53
1	E	400	GLU	C-O	5.40	1.30	1.24
1	F	231	TYR	C-N	5.40	1.39	1.33
1	L	319	HIS	C-O	-5.40	1.17	1.24
1	O	291	TYR	CA-C	5.40	1.60	1.53
1	B	220	VAL	N-CA	-5.39	1.40	1.46
1	C	224	ILE	CA-CB	5.39	1.61	1.54
1	F	471	GLN	C-N	5.39	1.41	1.33
1	G	103	VAL	CA-C	-5.39	1.45	1.52
1	J	136	ALA	CA-C	5.39	1.59	1.52
1	N	56	ASN	CA-C	5.39	1.57	1.52
1	A	249	TYR	C-O	-5.39	1.17	1.24
1	B	388	MET	CG-SD	5.39	1.94	1.80
1	C	143	ASN	C-O	5.39	1.30	1.24
1	M	280	SER	C-O	5.39	1.30	1.23
1	B	281	GLY	CA-C	5.39	1.59	1.51
1	C	170	GLY	N-CA	5.39	1.51	1.45
1	D	394	MET	CA-C	5.39	1.59	1.52
1	I	131	ASN	C-O	-5.39	1.17	1.24
1	L	251	ARG	NE-CZ	5.39	1.39	1.33
1	L	212	THR	CA-CB	-5.39	1.46	1.54
1	H	194	VAL	CA-C	-5.39	1.46	1.52
1	J	344	LEU	CA-C	-5.39	1.46	1.52
1	B	235	ILE	CA-C	-5.39	1.46	1.52
1	D	271	VAL	CA-CB	5.39	1.61	1.54
1	F	317	GLN	N-CA	5.39	1.53	1.46
1	G	194	VAL	CA-CB	-5.39	1.47	1.54
1	H	20	ALA	N-CA	5.39	1.56	1.46
1	J	86	PRO	CA-CB	5.39	1.61	1.53
1	J	310	PRO	CG-CD	-5.39	1.32	1.50
1	K	144	ARG	CD-NE	-5.39	1.38	1.46
1	K	175	CYS	CA-CB	5.39	1.63	1.53
1	K	290	ASN	N-CA	5.39	1.53	1.46
1	M	237	MET	CA-C	5.39	1.59	1.52
1	C	194	VAL	CB-CG2	5.38	1.70	1.52
1	D	385	ALA	N-CA	-5.38	1.41	1.46
1	D	467	LYS	C-O	-5.38	1.17	1.24
1	K	401	ASP	N-CA	5.38	1.52	1.46
1	G	223	ASP	CA-CB	-5.38	1.44	1.53
1	L	134	ALA	C-O	5.38	1.30	1.23
1	A	270	ASN	CA-CB	-5.38	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	368	GLU	N-CA	5.38	1.52	1.46
1	I	141	VAL	CA-CB	-5.38	1.47	1.54
1	K	175	CYS	CB-SG	5.38	1.99	1.81
1	M	72	VAL	CA-CB	-5.38	1.47	1.54
1	N	366	HIS	N-CA	5.38	1.52	1.46
1	O	335	ASP	CA-C	5.38	1.58	1.53
1	C	453	GLU	CG-CD	5.38	1.65	1.52
1	E	53	LYS	CA-C	5.38	1.59	1.52
1	J	449	VAL	CA-CB	5.38	1.60	1.54
1	K	49	TYR	CE1-CZ	-5.38	1.25	1.38
1	O	29	ALA	CA-CB	5.38	1.60	1.53
1	D	111	GLN	C-O	5.38	1.30	1.24
1	I	264	ALA	CA-CB	5.38	1.62	1.53
1	C	285	ASN	CG-OD1	5.38	1.33	1.23
1	D	438	GLU	CG-CD	5.38	1.65	1.52
1	H	154	THR	CA-CB	5.38	1.63	1.53
1	J	285	ASN	N-CA	-5.38	1.39	1.47
1	N	27	TYR	CD2-CE2	5.38	1.54	1.38
1	C	227	SER	C-N	5.38	1.40	1.33
1	C	248	PHE	CE2-CZ	5.38	1.54	1.38
1	F	438	GLU	CD-OE1	5.38	1.35	1.25
1	H	350	THR	CB-CG2	5.38	1.70	1.52
1	H	464	LEU	CG-CD1	5.38	1.70	1.52
1	N	212	THR	C-O	5.38	1.31	1.24
1	A	326	GLY	C-O	-5.37	1.16	1.24
1	D	126	LEU	CA-CB	-5.37	1.46	1.53
1	G	334	VAL	CA-CB	-5.37	1.47	1.54
1	G	396	SER	C-O	5.37	1.30	1.24
1	J	369	GLU	N-CA	-5.37	1.39	1.46
1	N	134	ALA	C-N	5.37	1.41	1.33
1	D	129	THR	CA-C	-5.37	1.45	1.52
1	G	306	ILE	CB-CG2	-5.37	1.34	1.52
1	L	195	ILE	CA-C	-5.37	1.46	1.52
1	A	56	ASN	CA-C	5.37	1.58	1.53
1	F	116	GLY	N-CA	-5.37	1.39	1.45
1	J	76	HIS	N-CA	5.37	1.52	1.46
1	A	162	LYS	CD-CE	5.37	1.68	1.52
1	D	347	ALA	N-CA	5.37	1.53	1.45
1	G	24	THR	CA-C	5.37	1.60	1.52
1	H	29	ALA	CA-C	-5.37	1.45	1.52
1	I	108	GLY	CA-C	5.37	1.59	1.51
1	M	338	ARG	CA-C	-5.37	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	374	PHE	CG-CD1	5.37	1.50	1.38
1	M	159	ILE	N-CA	5.37	1.52	1.46
1	D	196	GLN	CA-C	-5.37	1.46	1.52
1	H	299	MET	SD-CE	5.37	1.93	1.79
1	J	380	LYS	CD-CE	5.37	1.68	1.52
1	C	117	ILE	C-O	-5.36	1.17	1.24
1	G	36	HIS	CA-C	5.36	1.59	1.52
1	L	153	GLN	CG-CD	5.36	1.65	1.52
1	N	54	LYS	CE-NZ	5.36	1.65	1.49
1	I	240	GLU	CD-OE1	5.36	1.35	1.25
1	K	278	LYS	C-N	5.36	1.40	1.33
1	L	90	PHE	CA-C	-5.36	1.45	1.52
1	O	129	THR	CA-CB	-5.36	1.44	1.53
1	C	279	GLY	CA-C	5.36	1.59	1.51
1	C	291	TYR	CG-CD1	-5.36	1.28	1.39
1	G	248	PHE	CE2-CZ	5.36	1.54	1.38
1	H	181	GLN	N-CA	-5.36	1.37	1.46
1	H	221	PRO	N-CA	-5.36	1.40	1.47
1	J	162	LYS	C-O	-5.36	1.18	1.23
1	B	92	ASN	C-O	5.36	1.30	1.24
1	M	82	LYS	CD-CE	5.36	1.68	1.52
1	F	25	ASP	CG-OD1	5.36	1.35	1.25
1	G	125	LYS	CD-CE	5.36	1.68	1.52
1	I	117	ILE	C-O	-5.36	1.18	1.24
1	J	142	ASP	CG-OD2	5.36	1.35	1.25
1	K	237	MET	CB-CG	-5.36	1.36	1.52
1	K	261	PHE	CA-C	-5.36	1.45	1.52
1	L	71	ARG	CG-CD	-5.36	1.36	1.52
1	M	448	GLU	CA-C	-5.36	1.45	1.52
1	O	285	ASN	N-CA	-5.36	1.39	1.46
1	A	438	GLU	CD-OE2	5.36	1.35	1.25
1	D	212	THR	CA-CB	-5.36	1.46	1.54
1	G	230	LYS	C-O	-5.36	1.17	1.24
1	I	120	HIS	CA-C	5.36	1.59	1.52
1	I	283	THR	C-O	-5.36	1.16	1.24
1	J	219	GLU	CA-C	-5.36	1.45	1.52
1	K	106	GLU	N-CA	-5.36	1.40	1.46
1	K	112	PRO	N-CA	-5.36	1.40	1.47
1	L	103	VAL	CB-CG2	-5.36	1.34	1.52
1	C	106	GLU	CD-OE2	5.35	1.35	1.25
1	E	239	SER	CB-OG	5.35	1.52	1.42
1	E	375	ILE	CA-C	5.35	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	176	THR	CB-OG1	5.35	1.52	1.43
1	F	347	ALA	CA-C	5.35	1.60	1.53
1	K	213	LEU	C-O	5.35	1.30	1.24
1	M	380	LYS	CG-CD	5.35	1.68	1.52
1	A	59	LYS	CE-NZ	5.35	1.65	1.49
1	D	248	PHE	CB-CG	-5.35	1.38	1.50
1	D	269	GLU	CD-OE1	-5.35	1.15	1.25
1	L	131	ASN	C-O	-5.35	1.17	1.24
1	D	42	LEU	CA-CB	-5.35	1.45	1.53
1	H	158	LEU	C-O	5.35	1.29	1.23
1	H	200	MET	N-CA	5.35	1.52	1.46
1	I	25	ASP	N-CA	-5.35	1.39	1.46
1	O	366	HIS	CA-C	-5.35	1.46	1.52
1	B	89	SER	C-O	5.35	1.31	1.24
1	G	278	LYS	CA-C	-5.35	1.45	1.53
1	J	49	TYR	CA-C	-5.35	1.45	1.52
1	N	332	THR	CA-C	-5.35	1.46	1.52
1	O	32	ASN	CB-CG	5.35	1.65	1.52
1	D	30	ARG	C-O	-5.35	1.17	1.24
1	G	38	GLY	N-CA	5.35	1.53	1.45
1	L	96	GLN	N-CA	-5.35	1.39	1.46
1	L	449	VAL	N-CA	-5.35	1.39	1.46
1	N	40	SER	CA-C	5.35	1.59	1.52
1	O	124	ASN	CA-C	5.35	1.59	1.52
1	O	167	GLU	C-O	5.35	1.30	1.23
1	F	50	PHE	CD1-CE1	-5.35	1.22	1.38
1	F	112	PRO	CA-CB	-5.35	1.46	1.53
1	O	471	GLN	C-O	5.35	1.31	1.24
1	C	273	ASP	CG-OD2	5.34	1.35	1.25
1	J	175	CYS	C-O	5.34	1.30	1.24
1	N	190	LEU	C-O	-5.34	1.17	1.23
1	O	64	LYS	N-CA	-5.34	1.39	1.46
1	B	472	LEU	CG-CD2	5.34	1.70	1.52
1	G	245	SER	N-CA	5.34	1.53	1.46
1	H	244	ASP	N-CA	5.34	1.53	1.46
1	H	310	PRO	CA-CB	-5.34	1.47	1.53
1	I	196	GLN	CB-CG	-5.34	1.36	1.52
1	K	305	GLN	CA-C	5.34	1.59	1.52
1	B	32	ASN	CG-ND2	5.34	1.44	1.33
1	G	171	LYS	CG-CD	5.34	1.68	1.52
1	I	466	ARG	CA-C	-5.34	1.45	1.52
1	N	106	GLU	CD-OE2	5.34	1.35	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	309	LYS	CA-CB	5.34	1.61	1.53
1	A	315	ARG	CA-C	-5.34	1.45	1.52
1	F	450	ASN	CG-OD1	5.34	1.33	1.23
1	I	195	ILE	CA-CB	5.34	1.61	1.54
1	I	357	ASN	C-N	-5.34	1.27	1.33
1	J	194	VAL	CA-C	-5.34	1.47	1.53
1	M	126	LEU	CG-CD2	5.34	1.70	1.52
1	A	315	ARG	CA-CB	-5.34	1.46	1.53
1	E	171	LYS	CG-CD	5.34	1.68	1.52
1	L	401	ASP	CG-OD2	5.34	1.35	1.25
1	A	105	VAL	CA-C	-5.34	1.46	1.52
1	E	347	ALA	CA-CB	5.34	1.61	1.53
1	H	384	THR	N-CA	-5.34	1.39	1.46
1	J	154	THR	CA-C	-5.34	1.46	1.52
1	J	282	SER	CA-C	5.34	1.59	1.52
1	I	246	LEU	CA-C	-5.33	1.46	1.52
1	C	167	GLU	N-CA	-5.33	1.39	1.45
1	E	98	LEU	CA-C	5.33	1.59	1.52
1	L	394	MET	CA-C	-5.33	1.45	1.52
1	N	66	SER	CA-C	-5.33	1.46	1.52
1	O	262	ASN	CA-CB	-5.33	1.45	1.53
1	E	467	LYS	C-O	-5.33	1.18	1.24
1	J	47	HIS	CA-C	-5.33	1.47	1.52
1	O	162	LYS	C-O	5.33	1.30	1.24
1	C	228	ILE	N-CA	5.33	1.52	1.46
1	D	186	PRO	CA-CB	5.33	1.58	1.53
1	G	195	ILE	CA-C	-5.33	1.46	1.52
1	J	40	SER	C-O	5.33	1.30	1.24
1	K	120	HIS	N-CA	5.33	1.54	1.45
1	F	448	GLU	CG-CD	5.33	1.65	1.52
1	G	462	PHE	C-O	5.33	1.30	1.24
1	C	256	PHE	CE2-CZ	-5.33	1.22	1.38
1	D	356	LYS	CD-CE	5.33	1.68	1.52
1	E	297	GLY	CA-C	5.33	1.59	1.51
1	N	277	ILE	CA-C	5.33	1.58	1.52
1	C	278	LYS	CB-CG	5.33	1.68	1.52
1	G	73	PHE	CE2-CZ	5.33	1.54	1.38
1	J	62	VAL	CB-CG1	-5.33	1.34	1.52
1	K	397	THR	CB-OG1	5.33	1.52	1.43
1	M	235	ILE	CG1-CD1	-5.33	1.30	1.51
1	C	135	TYR	CD1-CE1	-5.32	1.22	1.38
1	C	387	VAL	CB-CG2	5.32	1.70	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	67	GLY	N-CA	-5.32	1.37	1.45
1	D	80	PRO	N-CD	5.32	1.55	1.47
1	H	338	ARG	CA-CB	-5.32	1.46	1.53
1	C	349	SER	CB-OG	5.32	1.52	1.42
1	F	247	PHE	CA-CB	-5.32	1.46	1.54
1	G	351	SER	CA-C	5.32	1.59	1.52
1	K	61	LEU	CA-CB	5.32	1.62	1.53
1	B	103	VAL	CA-CB	-5.32	1.47	1.54
1	D	205	PHE	CA-C	-5.32	1.45	1.52
1	M	21	VAL	CA-CB	-5.32	1.47	1.54
1	K	248	PHE	CE1-CZ	-5.32	1.22	1.38
1	B	245	SER	CB-OG	5.32	1.52	1.42
1	N	59	LYS	CD-CE	5.32	1.68	1.52
1	C	454	LYS	N-CA	-5.32	1.39	1.46
1	D	181	GLN	N-CA	-5.32	1.40	1.46
1	E	269	GLU	CB-CG	5.32	1.68	1.52
1	J	439	ASP	N-CA	5.32	1.53	1.46
1	N	471	GLN	C-O	5.32	1.31	1.24
1	C	67	GLY	C-O	-5.31	1.16	1.23
1	L	373	GLN	N-CA	5.31	1.52	1.45
1	N	386	ASP	C-O	-5.31	1.17	1.24
1	O	367	GLY	N-CA	5.31	1.50	1.44
1	A	27	TYR	N-CA	5.31	1.53	1.46
1	F	292	PHE	CA-CB	5.31	1.61	1.54
1	G	61	LEU	N-CA	-5.31	1.39	1.46
1	A	181	GLN	CD-NE2	5.31	1.44	1.33
1	E	250	LEU	CA-C	5.31	1.58	1.52
1	A	158	LEU	CA-C	-5.31	1.46	1.52
1	A	383	LEU	CA-C	-5.31	1.46	1.52
1	F	468	PHE	CG-CD1	5.31	1.50	1.38
1	N	344	LEU	CG-CD2	5.31	1.70	1.52
1	D	261	PHE	CE1-CZ	-5.31	1.22	1.38
1	D	316	ALA	C-O	-5.31	1.16	1.23
1	E	193	THR	N-CA	-5.31	1.39	1.46
1	G	236	LYS	C-O	5.31	1.30	1.24
1	H	56	ASN	CG-ND2	5.31	1.44	1.33
1	L	118	SER	C-O	-5.31	1.17	1.23
1	B	92	ASN	CA-C	5.31	1.59	1.52
1	B	308	ASN	N-CA	5.31	1.53	1.46
1	I	32	ASN	CA-C	5.31	1.60	1.52
1	B	258	ARG	C-N	5.30	1.40	1.33
1	B	261	PHE	CE2-CZ	-5.30	1.22	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	113	LEU	CA-C	-5.30	1.46	1.53
1	E	44	ALA	N-CA	5.30	1.52	1.46
1	E	93	PRO	CA-CB	5.30	1.61	1.53
1	F	299	MET	SD-CE	5.30	1.92	1.79
1	H	229	CYS	C-O	5.30	1.30	1.24
1	J	68	LEU	CG-CD2	-5.30	1.35	1.52
1	K	93	PRO	N-CA	-5.30	1.40	1.47
1	M	284	ALA	CA-CB	5.30	1.61	1.53
1	N	468	PHE	CA-C	5.30	1.59	1.52
1	O	162	LYS	CE-NZ	5.30	1.65	1.49
1	A	208	MET	N-CA	-5.30	1.39	1.46
1	E	291	TYR	CG-CD2	-5.30	1.28	1.39
1	G	391	ILE	C-O	5.30	1.30	1.24
1	H	257	VAL	CA-CB	5.30	1.60	1.54
1	G	87	ASP	CA-C	5.30	1.58	1.52
1	I	294	THR	C-O	5.30	1.32	1.24
1	K	169	TRP	C-O	5.30	1.30	1.23
1	K	212	THR	CB-OG1	5.30	1.52	1.43
1	A	46	GLY	N-CA	5.30	1.50	1.44
1	D	468	PHE	CE1-CZ	-5.30	1.22	1.38
1	H	40	SER	CA-C	5.30	1.59	1.52
1	H	283	THR	CB-CG2	5.30	1.70	1.52
1	H	298	SER	C-O	-5.30	1.16	1.23
1	M	208	MET	CA-C	-5.30	1.45	1.52
1	M	313	LEU	CG-CD2	5.30	1.70	1.52
1	N	86	PRO	CG-CD	5.30	1.68	1.50
1	O	95	THR	CB-CG2	5.30	1.70	1.52
1	B	223	ASP	CA-CB	-5.30	1.44	1.53
1	I	78	PRO	C-O	5.30	1.30	1.23
1	A	29	ALA	CA-C	-5.30	1.46	1.52
1	C	93	PRO	CG-CD	5.30	1.68	1.50
1	G	46	GLY	N-CA	5.30	1.50	1.44
1	I	156	LEU	CA-C	-5.30	1.45	1.52
1	K	283	THR	CB-OG1	5.30	1.52	1.43
1	M	448	GLU	C-O	5.30	1.30	1.24
1	N	385	ALA	CA-CB	5.30	1.60	1.53
1	H	360	PHE	CD2-CE2	5.29	1.54	1.38
1	J	200	MET	CA-C	-5.29	1.46	1.52
1	B	169	TRP	N-CA	-5.29	1.39	1.45
1	C	334	VAL	CA-CB	5.29	1.61	1.54
1	J	41	ARG	N-CA	5.29	1.53	1.46
1	M	25	ASP	CG-OD1	5.29	1.35	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	401	ASP	C-O	5.29	1.30	1.24
1	D	61	LEU	CA-C	5.29	1.60	1.52
1	E	168	HIS	C-N	-5.29	1.25	1.33
1	E	254	GLN	CA-C	5.29	1.59	1.52
1	J	325	TRP	CA-C	5.29	1.59	1.52
1	O	314	GLN	CA-C	5.29	1.60	1.52
1	B	123	LEU	C-N	-5.29	1.26	1.33
1	I	135	TYR	CB-CG	5.29	1.63	1.51
1	K	90	PHE	CA-C	5.29	1.59	1.52
1	O	299	MET	N-CA	5.29	1.52	1.46
1	B	362	GLU	CB-CG	5.29	1.68	1.52
1	D	117	ILE	CA-CB	-5.29	1.47	1.54
1	J	215	ALA	C-O	5.29	1.30	1.24
1	K	219	GLU	C-O	-5.29	1.17	1.24
1	K	250	LEU	C-O	5.29	1.29	1.23
1	O	75	ILE	C-O	-5.29	1.18	1.24
1	O	219	GLU	CA-CB	-5.29	1.46	1.53
1	A	329	LEU	C-O	5.29	1.29	1.24
1	N	93	PRO	C-O	5.29	1.30	1.24
1	A	289	SER	N-CA	-5.29	1.39	1.46
1	B	203	THR	C-O	-5.29	1.17	1.24
1	B	243	GLY	C-O	5.29	1.31	1.23
1	C	330	PHE	CE1-CZ	5.29	1.54	1.38
1	C	370	TYR	CE1-CZ	5.29	1.50	1.38
1	D	172	GLY	N-CA	5.29	1.53	1.45
1	D	242	TYR	C-O	5.29	1.30	1.24
1	E	73	PHE	CA-CB	-5.29	1.45	1.53
1	H	296	SER	N-CA	-5.29	1.39	1.46
1	J	358	THR	CB-OG1	5.29	1.52	1.43
1	K	216	ASN	CA-CB	-5.29	1.44	1.53
1	L	121	PRO	N-CA	-5.29	1.40	1.47
1	G	63	PRO	C-O	5.28	1.30	1.24
1	L	42	LEU	CA-CB	-5.28	1.45	1.53
1	D	42	LEU	C-O	5.28	1.31	1.23
1	A	267	VAL	C-O	5.28	1.30	1.24
1	C	373	GLN	CA-CB	5.28	1.63	1.53
1	I	53	LYS	CE-NZ	5.28	1.65	1.49
1	J	74	ARG	NE-CZ	5.28	1.38	1.33
1	J	187	PRO	CG-CD	5.28	1.68	1.50
1	L	239	SER	N-CA	5.28	1.53	1.46
1	O	40	SER	CA-C	5.28	1.59	1.52
1	E	112	PRO	N-CD	-5.28	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	184	ASP	CG-OD2	5.28	1.35	1.25
1	C	361	LYS	C-O	5.28	1.30	1.24
1	C	443	LYS	C-O	5.28	1.31	1.24
1	G	218	SER	CA-C	5.28	1.59	1.52
1	O	228	ILE	CA-CB	5.28	1.61	1.54
1	A	42	LEU	N-CA	-5.27	1.38	1.45
1	G	139	ALA	C-N	5.27	1.41	1.33
1	K	255	MET	CG-SD	-5.27	1.67	1.80
1	C	357	ASN	CG-OD1	5.27	1.33	1.23
1	E	135	TYR	C-O	-5.27	1.17	1.23
1	E	193	THR	C-O	5.27	1.30	1.23
1	G	440	PRO	N-CA	5.27	1.54	1.47
1	H	95	THR	C-O	5.27	1.31	1.23
1	K	375	ILE	CG1-CD1	-5.27	1.31	1.51
1	K	460	ASP	CG-OD1	5.27	1.35	1.25
1	M	299	MET	N-CA	5.27	1.52	1.46
1	O	381	ILE	CA-C	5.27	1.59	1.52
1	A	205	PHE	C-O	-5.27	1.17	1.24
1	A	302	SER	N-CA	-5.27	1.40	1.46
1	B	125	LYS	C-O	5.27	1.30	1.24
1	D	210	PHE	CA-C	5.27	1.60	1.52
1	H	454	LYS	C-O	5.27	1.30	1.24
1	I	253	GLU	C-O	5.27	1.30	1.23
1	I	277	ILE	N-CA	-5.27	1.40	1.46
1	K	187	PRO	CG-CD	5.27	1.68	1.50
1	L	173	SER	CA-C	5.27	1.59	1.52
1	M	35	TYR	C-O	5.27	1.30	1.24
1	C	298	SER	N-CA	-5.27	1.39	1.46
1	F	359	ASN	CA-C	5.27	1.59	1.52
1	I	205	PHE	CG-CD2	5.27	1.50	1.38
1	K	212	THR	C-O	-5.27	1.16	1.23
1	L	315	ARG	CA-C	-5.27	1.46	1.52
1	O	39	THR	N-CA	5.27	1.53	1.46
1	A	145	GLU	C-O	5.26	1.30	1.23
1	A	343	SER	CB-OG	5.26	1.52	1.42
1	H	340	THR	C-O	5.26	1.30	1.24
1	J	256	PHE	CE2-CZ	-5.26	1.22	1.38
1	L	208	MET	C-O	5.26	1.27	1.24
1	D	233	ASP	N-CA	5.26	1.53	1.46
1	N	26	GLU	CA-CB	-5.26	1.44	1.53
1	A	87	ASP	N-CA	5.26	1.52	1.46
1	C	131	ASN	N-CA	-5.26	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	342	MET	N-CA	-5.26	1.39	1.45
1	G	158	LEU	C-O	5.26	1.30	1.24
1	J	58	ASN	CA-C	5.26	1.60	1.52
1	O	471	GLN	CD-OE1	5.26	1.33	1.23
1	A	31	THR	CA-CB	-5.26	1.45	1.53
1	B	216	ASN	CA-CB	-5.26	1.44	1.53
1	E	274	ASP	CG-OD2	5.26	1.35	1.25
1	H	91	TYR	CD2-CE2	5.26	1.54	1.38
1	K	359	ASN	CG-ND2	5.26	1.44	1.33
1	L	294	THR	CA-C	-5.26	1.46	1.52
1	L	74	ARG	CA-C	5.26	1.59	1.53
1	L	148	SER	CA-C	5.26	1.59	1.52
1	L	203	THR	CA-CB	-5.26	1.45	1.53
1	N	457	ALA	C-O	-5.26	1.18	1.24
1	B	307	PHE	N-CA	-5.26	1.39	1.45
1	G	222	LEU	C-N	5.26	1.41	1.33
1	J	328	GLN	N-CA	5.26	1.52	1.45
1	M	257	VAL	CB-CG2	5.26	1.69	1.52
1	C	135	TYR	C-O	-5.25	1.17	1.23
1	G	299	MET	SD-CE	5.25	1.92	1.79
1	I	210	PHE	CA-CB	5.25	1.61	1.53
1	K	398	ILE	CA-C	5.25	1.59	1.52
1	L	72	VAL	C-O	5.25	1.30	1.24
1	C	281	GLY	N-CA	5.25	1.52	1.45
1	C	371	ASP	N-CA	5.25	1.52	1.46
1	H	259	HIS	N-CA	5.25	1.53	1.46
1	K	74	ARG	CB-CG	-5.25	1.36	1.52
1	K	292	PHE	CD2-CE2	5.25	1.54	1.38
1	L	444	TYR	CA-C	-5.25	1.46	1.52
1	M	39	THR	C-O	-5.25	1.17	1.23
1	N	85	PHE	CA-C	5.25	1.59	1.53
1	C	61	LEU	CG-CD1	5.25	1.69	1.52
1	C	456	SER	C-O	5.25	1.30	1.23
1	D	260	LEU	CG-CD2	-5.25	1.35	1.52
1	E	72	VAL	CB-CG2	-5.25	1.35	1.52
1	I	277	ILE	C-O	5.25	1.29	1.23
1	E	377	GLN	N-CA	5.25	1.52	1.46
1	I	266	THR	CA-CB	-5.25	1.44	1.53
1	J	401	ASP	CG-OD2	5.25	1.35	1.25
1	N	222	LEU	CA-C	-5.25	1.45	1.52
1	O	68	LEU	C-O	5.25	1.31	1.24
1	K	215	ALA	CA-CB	-5.25	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	62	VAL	CA-C	5.25	1.58	1.52
1	F	243	GLY	C-O	5.25	1.31	1.23
1	H	219	GLU	CA-C	-5.25	1.47	1.52
1	I	292	PHE	CE2-CZ	5.25	1.54	1.38
1	B	46	GLY	N-CA	5.25	1.50	1.44
1	E	450	ASN	CG-OD1	5.24	1.33	1.23
1	L	105	VAL	C-O	-5.24	1.17	1.23
1	N	81	ASN	N-CA	-5.24	1.39	1.46
1	D	58	ASN	CG-OD1	5.24	1.33	1.23
1	H	256	PHE	CB-CG	-5.24	1.38	1.50
1	B	216	ASN	CA-C	-5.24	1.45	1.52
1	F	376	PHE	N-CA	-5.24	1.39	1.46
1	G	112	PRO	C-O	5.24	1.30	1.24
1	H	192	ASN	CG-OD1	5.24	1.33	1.23
1	M	309	LYS	CA-CB	5.24	1.62	1.53
1	N	78	PRO	CA-CB	5.24	1.60	1.53
1	B	63	PRO	C-O	5.24	1.30	1.24
1	B	93	PRO	N-CD	5.24	1.55	1.47
1	C	185	CYS	CA-CB	5.24	1.61	1.53
1	H	391	ILE	CB-CG1	-5.24	1.43	1.53
1	I	280	SER	C-N	5.24	1.41	1.33
1	K	387	VAL	CB-CG1	5.24	1.69	1.52
1	M	155	GLN	CD-OE1	5.24	1.33	1.23
1	M	368	GLU	N-CA	-5.24	1.40	1.46
1	N	277	ILE	N-CA	-5.24	1.40	1.46
1	F	329	LEU	CG-CD2	5.24	1.69	1.52
1	H	196	GLN	N-CA	-5.24	1.39	1.45
1	M	285	ASN	CA-C	5.24	1.59	1.53
1	M	309	LYS	N-CA	5.24	1.55	1.45
1	M	319	HIS	C-O	5.24	1.30	1.24
1	M	356	LYS	N-CA	-5.24	1.40	1.46
1	N	291	TYR	CB-CG	-5.24	1.40	1.51
1	O	112	PRO	N-CD	-5.24	1.40	1.47
1	C	333	VAL	C-O	5.24	1.29	1.24
1	E	117	ILE	CB-CG1	5.24	1.64	1.53
1	N	438	GLU	CA-C	5.24	1.64	1.52
1	O	171	LYS	C-O	5.24	1.30	1.24
1	B	101	ALA	C-O	5.23	1.30	1.23
1	D	180	VAL	CA-CB	-5.23	1.47	1.54
1	L	205	PHE	CG-CD2	5.23	1.49	1.38
1	A	26	GLU	CG-CD	5.23	1.65	1.52
1	A	306	ILE	C-O	-5.23	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	157	CYS	N-CA	5.23	1.52	1.46
1	D	150	ASP	C-O	-5.23	1.17	1.23
1	F	166	GLY	C-O	5.23	1.29	1.23
1	F	307	PHE	C-O	-5.23	1.17	1.23
1	F	377	GLN	CA-C	5.23	1.59	1.52
1	I	155	GLN	C-O	5.23	1.29	1.24
1	J	186	PRO	C-N	5.23	1.38	1.33
1	J	384	THR	C-O	-5.23	1.18	1.23
1	L	438	GLU	N-CA	5.23	1.56	1.46
1	B	169	TRP	CD2-CE2	-5.23	1.32	1.41
1	D	158	LEU	N-CA	-5.23	1.39	1.46
1	E	69	GLN	C-N	5.23	1.40	1.33
1	G	158	LEU	CA-C	5.23	1.59	1.52
1	K	292	PHE	CD1-CE1	5.23	1.54	1.38
1	M	49	TYR	CA-C	-5.23	1.45	1.52
1	D	380	LYS	N-CA	5.23	1.52	1.45
1	G	228	ILE	N-CA	5.23	1.52	1.46
1	G	372	LEU	CG-CD1	-5.23	1.35	1.52
1	H	282	SER	N-CA	5.23	1.52	1.46
1	K	109	ARG	NE-CZ	5.23	1.38	1.33
1	L	54	LYS	CE-NZ	5.23	1.65	1.49
1	M	32	ASN	CG-ND2	5.23	1.44	1.33
1	B	165	ILE	CB-CG2	5.23	1.69	1.52
1	A	32	ASN	CG-OD1	5.22	1.33	1.23
1	E	27	TYR	CD1-CE1	5.22	1.54	1.38
1	G	53	LYS	CA-C	5.22	1.60	1.53
1	K	144	ARG	NE-CZ	-5.22	1.27	1.33
1	L	184	ASP	CA-C	5.22	1.59	1.52
1	M	159	ILE	CB-CG2	-5.22	1.35	1.52
1	O	106	GLU	C-O	5.22	1.29	1.23
1	E	368	GLU	CD-OE2	5.22	1.35	1.25
1	I	155	GLN	CD-OE1	5.22	1.33	1.23
1	J	306	ILE	CA-C	-5.22	1.46	1.52
1	K	440	PRO	C-N	5.22	1.41	1.33
1	B	373	GLN	CD-NE2	5.22	1.44	1.33
1	J	359	ASN	CA-C	5.22	1.60	1.52
1	M	81	ASN	CG-OD1	5.22	1.33	1.23
1	C	346	ALA	CA-CB	5.22	1.61	1.53
1	E	169	TRP	CG-CD1	5.22	1.50	1.36
1	G	297	GLY	N-CA	5.22	1.52	1.45
1	L	363	TYR	CA-C	5.22	1.58	1.52
1	M	71	ARG	CA-C	-5.22	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	292	PHE	C-O	5.22	1.30	1.24
1	J	20	ALA	N-CA	5.22	1.56	1.46
1	F	303	ASP	CG-OD2	5.22	1.35	1.25
1	G	61	LEU	C-N	-5.22	1.29	1.33
1	G	299	MET	CA-C	-5.22	1.45	1.52
1	K	299	MET	CB-CG	-5.22	1.36	1.52
1	L	52	ILE	CB-CG2	5.22	1.69	1.52
1	M	249	TYR	N-CA	5.22	1.52	1.46
1	N	67	GLY	C-O	-5.22	1.16	1.23
1	O	387	VAL	C-O	5.22	1.30	1.24
1	E	352	GLU	CD-OE1	5.21	1.35	1.25
1	F	42	LEU	C-O	-5.21	1.17	1.23
1	F	169	TRP	C-O	5.21	1.30	1.23
1	K	103	VAL	C-O	5.21	1.32	1.25
1	B	43	LEU	CG-CD2	-5.21	1.35	1.52
1	C	128	ASP	CG-OD1	5.21	1.35	1.25
1	K	163	PRO	CG-CD	-5.21	1.33	1.50
1	A	48	PRO	N-CA	-5.21	1.40	1.47
1	A	192	ASN	CA-CB	-5.21	1.45	1.53
1	C	22	VAL	C-O	5.21	1.29	1.23
1	F	197	ASP	CB-CG	5.21	1.65	1.52
1	F	291	TYR	C-O	5.21	1.30	1.23
1	L	61	LEU	N-CA	-5.21	1.40	1.46
1	L	341	ASN	CA-CB	5.21	1.63	1.53
1	I	472	LEU	N-CA	5.21	1.56	1.46
1	L	234	TYR	CG-CD2	5.21	1.50	1.39
1	B	44	ALA	N-CA	5.21	1.52	1.45
1	C	32	ASN	CG-ND2	5.21	1.44	1.33
1	E	91	TYR	C-O	5.21	1.30	1.23
1	O	96	GLN	CG-CD	5.21	1.65	1.52
1	B	86	PRO	C-O	5.21	1.30	1.24
1	B	233	ASP	C-O	-5.21	1.17	1.23
1	F	253	GLU	CD-OE2	5.21	1.35	1.25
1	I	61	LEU	C-O	5.21	1.30	1.24
1	J	27	TYR	CE1-CZ	5.21	1.50	1.38
1	M	438	GLU	C-O	5.21	1.33	1.23
1	B	194	VAL	N-CA	5.21	1.52	1.46
1	F	119	GLY	N-CA	5.21	1.50	1.45
1	O	244	ASP	C-O	5.21	1.30	1.24
1	B	444	TYR	CA-C	5.20	1.59	1.52
1	J	438	GLU	CD-OE2	5.20	1.35	1.25
1	M	25	ASP	C-O	-5.20	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	446	PHE	C-O	-5.20	1.17	1.23
1	M	75	ILE	CB-CG2	-5.20	1.35	1.52
1	M	33	ILE	C-O	5.20	1.29	1.24
1	A	52	ILE	N-CA	5.20	1.52	1.46
1	A	336	THR	C-N	-5.20	1.26	1.33
1	B	91	TYR	CA-C	5.20	1.59	1.52
1	D	360	PHE	CE2-CZ	-5.20	1.23	1.38
1	O	205	PHE	CA-C	-5.20	1.46	1.52
1	O	296	SER	N-CA	5.20	1.53	1.46
1	E	45	VAL	C-O	5.20	1.30	1.24
1	G	218	SER	C-O	5.20	1.30	1.24
1	H	53	LYS	N-CA	5.20	1.52	1.45
1	A	124	ASN	CA-C	-5.20	1.45	1.52
1	G	132	ALA	CA-CB	5.20	1.62	1.53
1	H	452	LYS	N-CA	-5.20	1.40	1.46
1	I	249	TYR	CA-C	5.20	1.58	1.52
1	A	219	GLU	C-O	-5.19	1.16	1.23
1	M	195	ILE	CA-CB	5.19	1.59	1.53
1	A	219	GLU	CB-CG	-5.19	1.36	1.52
1	E	233	ASP	CA-C	5.19	1.59	1.52
1	J	64	LYS	C-O	5.19	1.29	1.24
1	K	309	LYS	CA-C	5.19	1.59	1.52
1	K	472	LEU	CA-CB	5.19	1.63	1.53
1	A	109	ARG	N-CA	5.19	1.52	1.46
1	I	312	TRP	CA-CB	-5.19	1.46	1.53
1	J	347	ALA	C-N	5.19	1.40	1.33
1	L	39	THR	CA-CB	-5.19	1.44	1.53
1	D	144	ARG	CB-CG	5.19	1.68	1.52
1	K	20	ALA	CA-CB	5.19	1.69	1.52
1	L	177	GLN	CD-NE2	5.19	1.44	1.33
1	A	286	LEU	C-O	-5.19	1.17	1.23
1	E	310	PRO	CA-CB	-5.19	1.46	1.53
1	G	147	ILE	N-CA	5.19	1.52	1.46
1	I	137	ALA	CA-C	-5.19	1.46	1.52
1	J	134	ALA	CA-C	-5.19	1.46	1.52
1	N	53	LYS	CE-NZ	5.19	1.65	1.49
1	N	327	ASN	CA-CB	5.19	1.61	1.53
1	I	327	ASN	N-CA	5.19	1.54	1.46
1	C	177	GLN	CG-CD	5.18	1.65	1.52
1	E	43	LEU	CG-CD2	5.18	1.69	1.52
1	F	354	THR	C-O	5.18	1.30	1.23
1	K	31	THR	N-CA	5.18	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	125	LYS	C-O	-5.18	1.17	1.24
1	G	440	PRO	C-O	5.18	1.31	1.24
1	H	342	MET	CG-SD	5.18	1.93	1.80
1	J	461	GLN	C-O	5.18	1.30	1.24
1	N	133	SER	CA-C	-5.18	1.45	1.52
1	O	360	PHE	CG-CD1	-5.18	1.27	1.38
1	A	264	ALA	N-CA	-5.18	1.38	1.45
1	A	298	SER	CA-CB	-5.18	1.45	1.53
1	N	273	ASP	CB-CG	5.18	1.65	1.52
1	J	259	HIS	C-O	5.18	1.30	1.23
1	B	354	THR	CB-CG2	-5.18	1.35	1.52
1	J	292	PHE	CG-CD2	5.18	1.49	1.38
1	L	23	SER	C-O	-5.18	1.17	1.23
1	M	41	ARG	C-O	-5.18	1.17	1.24
1	N	374	PHE	CA-CB	5.18	1.63	1.53
1	A	74	ARG	CA-C	-5.18	1.46	1.52
1	E	349	SER	C-O	5.18	1.30	1.23
1	F	28	VAL	CB-CG1	5.18	1.69	1.52
1	G	52	ILE	N-CA	5.18	1.52	1.46
1	I	217	LYS	C-O	5.18	1.33	1.24
1	N	363	TYR	CA-C	5.18	1.58	1.52
1	O	74	ARG	CG-CD	-5.18	1.36	1.52
1	C	238	VAL	CB-CG1	-5.17	1.35	1.52
1	E	51	PRO	C-O	5.17	1.29	1.23
1	J	125	LYS	CG-CD	-5.17	1.36	1.52
1	K	225	CYS	C-O	-5.17	1.17	1.24
1	D	158	LEU	CA-C	5.17	1.58	1.52
1	I	27	TYR	CG-CD2	5.17	1.50	1.39
1	K	221	PRO	CG-CD	-5.17	1.33	1.50
1	F	387	VAL	N-CA	-5.17	1.39	1.46
1	H	138	ASN	C-O	5.17	1.30	1.24
1	J	470	LEU	CG-CD2	5.17	1.69	1.52
1	E	89	SER	C-O	5.17	1.30	1.24
1	G	305	GLN	C-N	-5.17	1.27	1.33
1	K	139	ALA	C-N	5.17	1.41	1.33
1	A	45	VAL	CA-CB	-5.17	1.47	1.54
1	A	329	LEU	CG-CD1	-5.17	1.35	1.52
1	F	128	ASP	C-O	-5.17	1.17	1.23
1	F	365	ARG	C-O	5.17	1.30	1.23
1	M	86	PRO	CB-CG	5.17	1.75	1.49
1	M	310	PRO	CA-CB	-5.17	1.46	1.53
1	C	70	TYR	CG-CD2	-5.17	1.28	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	93	PRO	N-CA	5.17	1.53	1.47
1	L	197	ASP	C-O	-5.17	1.17	1.23
1	L	319	HIS	CA-C	-5.17	1.46	1.52
1	O	56	ASN	N-CA	5.17	1.52	1.46
1	O	88	THR	C-O	5.17	1.30	1.24
1	B	51	PRO	N-CA	-5.17	1.41	1.46
1	I	167	GLU	N-CA	-5.17	1.38	1.46
1	K	462	PHE	CB-CG	-5.17	1.38	1.50
1	M	49	TYR	CG-CD1	-5.17	1.28	1.39
1	M	471	GLN	CB-CG	-5.17	1.36	1.52
1	N	270	ASN	CG-OD1	5.17	1.33	1.23
1	F	241	PRO	C-O	-5.16	1.17	1.24
1	G	122	LEU	N-CA	5.16	1.54	1.46
1	H	22	VAL	CA-CB	-5.16	1.47	1.55
1	H	47	HIS	C-N	-5.16	1.28	1.34
1	K	132	ALA	N-CA	5.16	1.52	1.45
1	L	103	VAL	N-CA	-5.16	1.41	1.46
1	N	306	ILE	CG1-CD1	5.16	1.71	1.51
1	O	97	ARG	CB-CG	5.16	1.68	1.52
1	O	193	THR	CA-C	5.16	1.59	1.52
1	C	75	ILE	CG1-CD1	-5.16	1.31	1.51
1	E	71	ARG	CA-CB	-5.16	1.46	1.52
1	O	344	LEU	C-N	5.16	1.40	1.33
1	C	291	TYR	CA-CB	-5.16	1.45	1.53
1	C	462	PHE	CG-CD1	-5.16	1.28	1.38
1	D	107	VAL	CA-CB	-5.16	1.47	1.54
1	D	263	ARG	CZ-NH1	5.16	1.40	1.32
1	E	63	PRO	CB-CG	5.16	1.75	1.49
1	F	372	LEU	CG-CD2	5.16	1.69	1.52
1	G	92	ASN	CA-C	5.16	1.58	1.52
1	G	152	LYS	CE-NZ	5.16	1.64	1.49
1	K	80	PRO	C-O	-5.16	1.18	1.24
1	K	323	ILE	N-CA	-5.16	1.40	1.46
1	L	442	LYS	CE-NZ	5.16	1.64	1.49
1	M	181	GLN	CG-CD	5.16	1.65	1.52
1	O	460	ASP	CA-C	-5.16	1.45	1.52
1	A	113	LEU	N-CA	-5.16	1.39	1.46
1	E	235	ILE	C-O	-5.16	1.18	1.24
1	E	403	ASN	CG-OD1	5.16	1.33	1.23
1	H	261	PHE	CE1-CZ	-5.16	1.23	1.38
1	L	29	ALA	C-O	5.16	1.29	1.23
1	N	39	THR	CB-CG2	-5.16	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	443	LYS	CB-CG	5.16	1.68	1.52
1	A	276	TYR	CA-C	-5.16	1.48	1.53
1	D	276	TYR	CG-CD2	-5.16	1.28	1.39
1	D	394	MET	CG-SD	-5.16	1.67	1.80
1	F	77	LEU	CA-C	-5.16	1.46	1.52
1	N	456	SER	C-O	5.16	1.29	1.23
1	A	370	TYR	CE2-CZ	-5.16	1.25	1.38
1	E	398	ILE	CA-CB	5.16	1.59	1.54
1	F	192	ASN	C-N	-5.16	1.27	1.33
1	H	226	THR	C-N	5.16	1.41	1.33
1	J	372	LEU	C-O	-5.16	1.17	1.24
1	F	224	ILE	C-O	5.15	1.29	1.24
1	G	56	ASN	CA-C	5.15	1.59	1.53
1	K	359	ASN	N-CA	-5.15	1.39	1.46
1	D	336	THR	CA-CB	5.15	1.61	1.53
1	G	385	ALA	C-O	5.15	1.29	1.23
1	I	41	ARG	C-O	-5.15	1.17	1.24
1	J	66	SER	C-O	5.15	1.30	1.23
1	K	311	TYR	CA-CB	-5.15	1.46	1.53
1	N	339	SER	C-O	-5.15	1.17	1.24
1	B	37	ALA	N-CA	-5.15	1.40	1.46
1	C	73	PHE	C-O	5.15	1.30	1.23
1	E	230	LYS	CB-CG	5.15	1.67	1.52
1	K	227	SER	N-CA	5.15	1.52	1.45
1	L	442	LYS	CA-CB	5.15	1.61	1.53
1	M	134	ALA	N-CA	-5.15	1.39	1.46
1	N	104	GLY	C-O	5.15	1.30	1.23
1	B	452	LYS	CA-C	-5.15	1.45	1.52
1	F	207	ALA	CA-C	-5.15	1.46	1.52
1	K	115	VAL	N-CA	-5.15	1.40	1.46
1	E	144	ARG	CZ-NH1	5.15	1.40	1.32
1	K	245	SER	CA-CB	5.15	1.61	1.53
1	O	155	GLN	CA-C	-5.15	1.46	1.52
1	G	64	LYS	C-N	5.15	1.40	1.33
1	I	394	MET	SD-CE	5.15	1.92	1.79
1	J	72	VAL	CA-C	5.15	1.59	1.52
1	C	158	LEU	CG-CD1	5.14	1.69	1.52
1	E	444	TYR	C-O	5.14	1.30	1.23
1	H	171	LYS	CB-CG	5.14	1.67	1.52
1	N	47	HIS	CB-CG	-5.14	1.43	1.50
1	D	233	ASP	CA-CB	5.14	1.60	1.52
1	H	338	ARG	CA-C	-5.14	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	471	GLN	C-N	5.14	1.40	1.33
1	M	250	LEU	CG-CD2	-5.14	1.35	1.52
1	H	366	HIS	CA-C	-5.14	1.46	1.52
1	I	403	ASN	C-O	5.14	1.33	1.23
1	A	329	LEU	CA-C	5.14	1.58	1.52
1	C	64	LYS	CB-CG	5.14	1.67	1.52
1	C	159	ILE	CA-CB	-5.14	1.47	1.54
1	J	386	ASP	N-CA	5.14	1.52	1.46
1	K	362	GLU	C-O	5.14	1.30	1.24
1	L	133	SER	C-N	-5.14	1.27	1.33
1	M	124	ASN	C-O	-5.14	1.17	1.24
1	C	26	GLU	C-O	-5.14	1.17	1.24
1	D	363	TYR	CZ-OH	5.14	1.48	1.38
1	F	125	LYS	CD-CE	5.14	1.67	1.52
1	H	100	TRP	CZ3-CH2	-5.14	1.27	1.40
1	K	268	GLY	C-O	5.14	1.30	1.23
1	L	214	GLN	CA-C	5.14	1.59	1.53
1	N	70	TYR	CG-CD1	-5.14	1.28	1.39
1	B	97	ARG	C-O	5.13	1.29	1.23
1	E	193	THR	CA-C	5.13	1.59	1.52
1	J	244	ASP	CG-OD1	5.13	1.35	1.25
1	J	369	GLU	CB-CG	5.13	1.67	1.52
1	L	147	ILE	N-CA	5.13	1.51	1.46
1	M	375	ILE	CA-CB	-5.13	1.47	1.54
1	O	309	LYS	N-CA	-5.13	1.38	1.46
1	D	256	PHE	CE2-CZ	-5.13	1.23	1.38
1	A	138	ASN	CA-CB	5.13	1.62	1.53
1	B	67	GLY	C-O	5.13	1.30	1.23
1	B	181	GLN	CD-OE1	5.13	1.33	1.23
1	E	103	VAL	CB-CG1	-5.13	1.35	1.52
1	F	89	SER	CA-C	5.13	1.59	1.52
1	I	470	LEU	CG-CD1	5.13	1.69	1.52
1	L	129	THR	CA-C	-5.13	1.45	1.52
1	N	177	GLN	C-N	5.13	1.40	1.33
1	N	231	TYR	CA-C	-5.13	1.47	1.52
1	O	175	CYS	C-O	5.13	1.30	1.24
1	O	352	GLU	CD-OE2	5.13	1.35	1.25
1	D	296	SER	CA-CB	-5.13	1.44	1.53
1	J	302	SER	N-CA	-5.13	1.40	1.46
1	J	360	PHE	CE1-CZ	-5.13	1.23	1.38
1	K	81	ASN	N-CA	-5.13	1.39	1.46
1	K	177	GLN	CA-CB	5.13	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	338	ARG	CG-CD	5.13	1.67	1.52
1	K	373	GLN	C-O	-5.13	1.17	1.24
1	N	220	VAL	CA-C	-5.13	1.47	1.52
1	E	82	LYS	CD-CE	5.13	1.67	1.52
1	G	289	SER	C-O	-5.13	1.17	1.24
1	H	137	ALA	CA-C	-5.13	1.46	1.52
1	J	91	TYR	N-CA	-5.13	1.39	1.45
1	J	345	CYS	CA-C	5.13	1.58	1.52
1	N	310	PRO	CA-C	5.13	1.59	1.52
1	B	170	GLY	C-O	5.12	1.28	1.23
1	B	215	ALA	C-O	5.12	1.30	1.24
1	C	244	ASP	CG-OD1	5.12	1.35	1.25
1	G	347	ALA	CA-CB	5.12	1.63	1.53
1	M	226	THR	C-O	5.12	1.30	1.24
1	G	286	LEU	CG-CD2	-5.12	1.35	1.52
1	I	394	MET	C-O	5.12	1.30	1.24
1	J	277	ILE	CA-C	-5.12	1.46	1.52
1	O	43	LEU	CG-CD2	5.12	1.69	1.52
1	L	158	LEU	N-CA	5.12	1.52	1.46
1	L	204	GLY	CA-C	-5.12	1.44	1.51
1	M	227	SER	CA-C	-5.12	1.46	1.53
1	N	109	ARG	NE-CZ	5.12	1.38	1.33
1	N	169	TRP	CB-CG	-5.12	1.34	1.50
1	A	120	HIS	CD2-NE2	-5.12	1.32	1.37
1	A	251	ARG	CD-NE	5.12	1.53	1.46
1	F	216	ASN	CB-CG	-5.12	1.39	1.52
1	G	353	THR	CB-CG2	5.12	1.69	1.52
1	I	62	VAL	CA-C	-5.12	1.47	1.52
1	I	137	ALA	CA-CB	5.12	1.61	1.53
1	J	153	GLN	CG-CD	-5.12	1.39	1.52
1	K	43	LEU	CA-CB	-5.12	1.45	1.53
1	H	165	ILE	C-N	5.12	1.40	1.33
1	L	97	ARG	NE-CZ	5.12	1.38	1.33
1	L	389	THR	CB-CG2	5.12	1.69	1.52
1	N	268	GLY	C-O	-5.12	1.17	1.23
1	D	44	ALA	C-O	5.12	1.30	1.23
1	F	385	ALA	CA-CB	-5.12	1.45	1.53
1	G	273	ASP	CG-OD2	5.12	1.35	1.25
1	O	267	VAL	C-O	-5.12	1.18	1.24
1	H	394	MET	CG-SD	-5.11	1.68	1.80
1	J	151	TYR	N-CA	5.11	1.52	1.46
1	J	390	TYR	CB-CG	-5.11	1.40	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	323	ILE	CA-CB	5.11	1.59	1.53
1	N	236	LYS	CE-NZ	5.11	1.64	1.49
1	C	64	LYS	CE-NZ	5.11	1.64	1.49
1	C	440	PRO	CB-CG	5.11	1.75	1.49
1	D	376	PHE	CA-C	-5.11	1.46	1.52
1	K	138	ASN	CG-OD1	5.11	1.33	1.23
1	A	264	ALA	CA-C	5.11	1.60	1.53
1	B	177	GLN	CG-CD	5.11	1.64	1.52
1	B	398	ILE	CG1-CD1	5.11	1.71	1.51
1	F	397	THR	N-CA	-5.11	1.39	1.46
1	G	56	ASN	N-CA	5.11	1.52	1.46
1	K	204	GLY	N-CA	-5.11	1.38	1.45
1	N	211	THR	C-O	-5.11	1.17	1.24
1	O	379	CYS	CA-C	5.11	1.59	1.52
1	A	189	GLU	N-CA	5.11	1.52	1.46
1	M	375	ILE	CB-CG2	-5.11	1.35	1.52
1	N	210	PHE	CB-CG	5.11	1.62	1.50
1	B	160	GLY	CA-C	-5.11	1.45	1.51
1	I	95	THR	CB-CG2	5.11	1.69	1.52
1	J	216	ASN	CA-C	-5.11	1.46	1.52
1	J	249	TYR	CD2-CE2	5.11	1.53	1.38
1	K	154	THR	N-CA	5.11	1.52	1.46
1	L	21	VAL	CA-CB	-5.11	1.47	1.54
1	A	68	LEU	N-CA	5.11	1.52	1.46
1	A	335	ASP	CG-OD1	-5.11	1.15	1.25
1	C	274	ASP	CA-C	-5.11	1.46	1.52
1	H	47	HIS	CA-CB	-5.11	1.43	1.53
1	O	96	GLN	C-N	5.11	1.40	1.33
1	C	391	ILE	C-O	5.10	1.30	1.24
1	D	62	VAL	CA-CB	-5.10	1.47	1.54
1	C	51	PRO	N-CD	5.10	1.54	1.47
1	E	175	CYS	C-O	5.10	1.29	1.24
1	G	452	LYS	CE-NZ	5.10	1.64	1.49
1	H	93	PRO	C-O	5.10	1.30	1.24
1	H	358	THR	CB-CG2	5.10	1.69	1.52
1	H	458	ASP	C-O	-5.10	1.17	1.24
1	I	183	GLY	C-O	5.10	1.30	1.23
1	L	174	PRO	CG-CD	5.10	1.68	1.50
1	N	362	GLU	CA-C	5.10	1.58	1.52
1	A	38	GLY	CA-C	5.10	1.59	1.51
1	A	232	PRO	CA-C	-5.10	1.47	1.52
1	D	41	ARG	CD-NE	5.10	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	295	PRO	N-CD	-5.10	1.40	1.47
1	M	439	ASP	N-CA	5.10	1.53	1.46
1	A	366	HIS	N-CA	5.10	1.52	1.46
1	E	305	GLN	N-CA	-5.10	1.39	1.45
1	F	139	ALA	N-CA	5.10	1.53	1.46
1	F	196	GLN	CD-NE2	5.10	1.44	1.33
1	F	236	LYS	CE-NZ	5.10	1.64	1.49
1	J	236	LYS	CA-CB	-5.10	1.45	1.53
1	L	438	GLU	C-O	5.10	1.33	1.23
1	N	338	ARG	CZ-NH1	5.10	1.39	1.32
1	N	370	TYR	CD2-CE2	-5.10	1.23	1.38
1	N	464	LEU	CB-CG	5.10	1.63	1.53
1	O	277	ILE	N-CA	-5.10	1.40	1.46
1	A	187	PRO	CA-C	5.10	1.57	1.52
1	C	101	ALA	CA-C	5.10	1.58	1.52
1	L	360	PHE	CB-CG	-5.10	1.39	1.50
1	M	138	ASN	CG-OD1	5.10	1.33	1.23
1	M	268	GLY	CA-C	-5.10	1.44	1.51
1	B	336	THR	CA-C	5.10	1.59	1.52
1	C	470	LEU	CG-CD1	5.10	1.69	1.52
1	G	356	LYS	CG-CD	5.10	1.67	1.52
1	H	246	LEU	CG-CD1	-5.10	1.35	1.52
1	I	210	PHE	CE1-CZ	5.10	1.53	1.38
1	B	385	ALA	CA-C	-5.09	1.46	1.52
1	C	220	VAL	N-CA	-5.09	1.40	1.46
1	D	360	PHE	N-CA	5.09	1.52	1.46
1	E	191	ILE	CA-C	5.09	1.58	1.52
1	H	453	GLU	CA-CB	-5.09	1.46	1.52
1	K	361	LYS	C-N	5.09	1.40	1.33
1	M	45	VAL	CA-C	-5.09	1.46	1.52
1	N	322	GLY	CA-C	-5.09	1.44	1.51
1	G	28	VAL	CA-CB	5.09	1.61	1.54
1	N	63	PRO	CB-CG	5.09	1.75	1.49
1	A	377	GLN	C-O	5.09	1.29	1.24
1	B	32	ASN	CG-OD1	5.09	1.33	1.23
1	C	439	ASP	N-CA	5.09	1.54	1.46
1	C	455	PHE	N-CA	5.09	1.52	1.46
1	D	175	CYS	C-O	5.09	1.29	1.24
1	E	203	THR	N-CA	5.09	1.52	1.45
1	I	332	THR	CA-C	-5.09	1.46	1.52
1	O	341	ASN	C-O	5.09	1.30	1.24
1	A	116	GLY	C-O	-5.09	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	249	TYR	CA-C	-5.09	1.46	1.52
1	G	40	SER	N-CA	5.09	1.52	1.46
1	K	193	THR	CA-CB	-5.09	1.45	1.53
1	K	348	ILE	C-O	5.09	1.30	1.24
1	M	145	GLU	C-O	5.09	1.30	1.24
1	N	42	LEU	N-CA	-5.09	1.39	1.45
1	A	250	LEU	C-O	-5.09	1.18	1.23
1	D	240	GLU	C-N	5.09	1.40	1.34
1	G	241	PRO	N-CA	5.09	1.53	1.47
1	M	35	TYR	C-N	5.09	1.40	1.33
1	D	118	SER	N-CA	5.09	1.52	1.45
1	D	202	ASP	CG-OD1	5.09	1.35	1.25
1	H	360	PHE	CE2-CZ	-5.09	1.23	1.38
1	K	108	GLY	C-O	-5.09	1.18	1.23
1	D	249	TYR	CA-C	-5.08	1.45	1.52
1	J	201	VAL	CA-CB	-5.08	1.47	1.54
1	C	255	MET	CA-C	-5.08	1.46	1.52
1	C	345	CYS	C-O	-5.08	1.18	1.23
1	G	363	TYR	N-CA	5.08	1.52	1.45
1	O	72	VAL	CB-CG2	-5.08	1.35	1.52
1	E	334	VAL	C-O	5.08	1.30	1.24
1	G	93	PRO	C-O	5.08	1.30	1.24
1	K	462	PHE	CG-CD1	-5.08	1.28	1.38
1	L	191	ILE	CA-CB	-5.08	1.48	1.54
1	N	239	SER	N-CA	5.08	1.52	1.46
1	N	337	THR	C-O	5.08	1.30	1.24
1	L	344	LEU	CA-C	5.08	1.58	1.52
1	M	120	HIS	C-N	-5.08	1.27	1.34
1	M	456	SER	C-N	-5.08	1.27	1.33
1	A	341	ASN	CG-OD1	5.08	1.33	1.23
1	B	120	HIS	CG-CD2	5.08	1.41	1.35
1	C	32	ASN	CB-CG	5.08	1.64	1.52
1	C	380	LYS	CA-C	-5.08	1.46	1.52
1	F	371	ASP	CA-C	5.08	1.59	1.52
1	G	150	ASP	CA-CB	-5.08	1.44	1.53
1	J	102	CYS	CA-CB	-5.08	1.45	1.53
1	J	186	PRO	CA-CB	5.08	1.58	1.53
1	O	330	PHE	CB-CG	5.08	1.62	1.50
1	B	76	HIS	C-O	5.08	1.30	1.24
1	H	83	PHE	C-O	5.08	1.30	1.23
1	B	252	ARG	C-O	-5.08	1.18	1.23
1	C	97	ARG	CZ-NH1	5.08	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	452	LYS	CG-CD	5.08	1.67	1.52
1	F	39	THR	CA-CB	-5.08	1.44	1.53
1	H	58	ASN	N-CA	5.08	1.52	1.46
1	N	301	THR	C-O	5.08	1.29	1.24
1	O	64	LYS	CB-CG	5.08	1.67	1.52
1	C	274	ASP	CG-OD2	5.07	1.34	1.25
1	C	277	ILE	CG1-CD1	5.07	1.71	1.51
1	C	284	ALA	CA-CB	-5.07	1.45	1.53
1	D	257	VAL	N-CA	5.07	1.52	1.46
1	E	438	GLU	CB-CG	5.07	1.67	1.52
1	H	148	SER	CB-OG	5.07	1.52	1.42
1	K	263	ARG	N-CA	5.07	1.52	1.46
1	K	464	LEU	N-CA	-5.07	1.39	1.46
1	D	283	THR	C-O	5.07	1.30	1.24
1	K	49	TYR	CZ-OH	-5.07	1.27	1.38
1	N	286	LEU	CA-CB	-5.07	1.45	1.53
1	A	464	LEU	CA-C	5.07	1.59	1.52
1	D	203	THR	CB-OG1	5.07	1.51	1.43
1	D	259	HIS	CA-CB	-5.07	1.46	1.53
1	D	317	GLN	CG-CD	5.07	1.64	1.52
1	F	158	LEU	C-N	5.07	1.39	1.33
1	J	114	GLY	CA-C	5.07	1.57	1.51
1	K	303	ASP	CA-C	-5.07	1.46	1.52
1	M	336	THR	N-CA	-5.07	1.39	1.45
1	N	198	GLY	C-O	5.07	1.31	1.24
1	O	100	TRP	CZ3-CH2	5.07	1.53	1.40
1	K	32	ASN	CG-OD1	5.07	1.33	1.23
1	K	50	PHE	CD2-CE2	-5.07	1.23	1.38
1	A	202	ASP	CG-OD2	5.07	1.34	1.25
1	B	223	ASP	C-O	-5.07	1.17	1.24
1	C	24	THR	C-O	5.07	1.30	1.24
1	D	255	MET	C-O	5.07	1.30	1.23
1	H	52	ILE	C-N	5.07	1.40	1.33
1	J	89	SER	C-O	5.07	1.30	1.24
1	N	294	THR	CB-OG1	5.07	1.51	1.43
1	O	132	ALA	N-CA	5.07	1.51	1.45
1	C	112	PRO	N-CD	-5.07	1.40	1.47
1	E	70	TYR	CA-C	5.07	1.59	1.52
1	G	43	LEU	CG-CD1	5.07	1.69	1.52
1	G	66	SER	C-N	5.07	1.40	1.33
1	H	88	THR	CB-CG2	5.07	1.69	1.52
1	M	73	PHE	CG-CD1	-5.07	1.28	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	356	LYS	CG-CD	5.07	1.67	1.52
1	H	469	LEU	CG-CD1	5.06	1.69	1.52
1	I	168	HIS	C-O	-5.06	1.17	1.24
1	M	64	LYS	CD-CE	5.06	1.67	1.52
1	F	250	LEU	CA-CB	5.06	1.61	1.53
1	I	171	LYS	CG-CD	5.06	1.67	1.52
1	J	62	VAL	C-O	-5.06	1.18	1.24
1	M	264	ALA	CA-C	5.06	1.59	1.53
1	B	213	LEU	C-O	-5.06	1.17	1.23
1	B	395	ASN	CB-CG	5.06	1.64	1.52
1	D	350	THR	CA-CB	5.06	1.62	1.53
1	D	448	GLU	C-O	5.06	1.30	1.23
1	F	464	LEU	CA-CB	-5.06	1.45	1.53
1	K	49	TYR	CB-CG	5.06	1.62	1.51
1	M	291	TYR	CG-CD2	-5.06	1.28	1.39
1	C	364	LEU	C-O	5.06	1.30	1.24
1	G	109	ARG	C-O	5.06	1.30	1.24
1	H	219	GLU	CB-CG	5.06	1.67	1.52
1	H	272	PRO	N-CA	-5.06	1.41	1.47
1	I	328	GLN	CA-C	5.06	1.59	1.52
1	M	98	LEU	CA-CB	-5.06	1.45	1.53
1	D	55	PRO	C-O	5.06	1.30	1.24
1	N	364	LEU	C-O	5.06	1.29	1.24
1	O	335	ASP	C-N	5.06	1.40	1.33
1	D	208	MET	CB-CG	5.06	1.67	1.52
1	F	255	MET	CA-CB	5.06	1.62	1.53
1	K	220	VAL	CA-CB	-5.06	1.47	1.54
1	M	34	TYR	N-CA	5.06	1.52	1.46
1	E	199	ASP	CG-OD1	5.05	1.34	1.25
1	F	262	ASN	CA-CB	-5.05	1.45	1.53
1	G	240	GLU	CD-OE1	5.05	1.34	1.25
1	H	317	GLN	CA-C	5.05	1.59	1.52
1	H	352	GLU	N-CA	5.05	1.52	1.46
1	H	466	ARG	N-CA	-5.05	1.39	1.46
1	O	327	ASN	CG-ND2	5.05	1.43	1.33
1	C	354	THR	C-O	5.05	1.29	1.23
1	F	141	VAL	CA-CB	-5.05	1.47	1.54
1	F	237	MET	SD-CE	-5.05	1.67	1.79
1	G	439	ASP	C-N	5.05	1.39	1.34
1	H	443	LYS	CE-NZ	5.05	1.64	1.49
1	J	176	THR	CB-CG2	5.05	1.69	1.52
1	M	62	VAL	CA-CB	5.05	1.60	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	215	ALA	N-CA	-5.05	1.39	1.46
1	I	310	PRO	CG-CD	-5.05	1.33	1.50
1	F	358	THR	CA-CB	5.05	1.60	1.53
1	K	243	GLY	C-O	5.05	1.30	1.23
1	L	291	TYR	CE1-CZ	-5.05	1.26	1.38
1	N	179	ALA	C-O	-5.05	1.17	1.24
1	O	116	GLY	CA-C	5.05	1.58	1.52
1	A	230	LYS	C-O	5.05	1.30	1.24
1	F	280	SER	CA-C	-5.05	1.46	1.52
1	J	471	GLN	CB-CG	-5.05	1.37	1.52
1	B	226	THR	N-CA	5.05	1.52	1.46
1	H	26	GLU	N-CA	-5.05	1.39	1.46
1	H	400	GLU	CD-OE2	5.05	1.34	1.25
1	I	308	ASN	CG-ND2	5.05	1.43	1.33
1	K	392	HIS	CA-C	5.05	1.58	1.52
1	M	459	LEU	CA-C	-5.05	1.45	1.52
1	A	150	ASP	C-O	-5.04	1.17	1.23
1	B	97	ARG	CG-CD	5.04	1.67	1.52
1	D	281	GLY	C-O	5.04	1.30	1.23
1	I	401	ASP	C-O	5.04	1.30	1.24
1	J	262	ASN	CG-OD1	5.04	1.33	1.23
1	N	30	ARG	CB-CG	5.04	1.67	1.52
1	O	65	VAL	C-O	-5.04	1.18	1.24
1	D	142	ASP	CA-C	5.04	1.59	1.52
1	G	369	GLU	CD-OE2	5.04	1.34	1.25
1	H	90	PHE	CG-CD2	5.04	1.49	1.38
1	K	251	ARG	CZ-NH1	-5.04	1.25	1.32
1	L	364	LEU	N-CA	5.04	1.52	1.46
1	C	45	VAL	C-O	5.04	1.29	1.24
1	C	53	LYS	CA-C	5.04	1.59	1.52
1	D	183	GLY	CA-C	-5.04	1.44	1.51
1	G	96	GLN	CA-C	5.04	1.59	1.52
1	H	470	LEU	C-O	-5.04	1.16	1.24
1	I	319	HIS	CA-CB	-5.04	1.45	1.53
1	I	336	THR	N-CA	-5.04	1.39	1.46
1	M	192	ASN	CG-ND2	5.04	1.43	1.33
1	G	356	LYS	CE-NZ	5.04	1.64	1.49
1	H	307	PHE	C-O	-5.04	1.17	1.23
1	I	447	TRP	C-O	5.04	1.29	1.24
1	K	221	PRO	CA-CB	-5.04	1.46	1.53
1	K	247	PHE	CG-CD2	5.04	1.49	1.38
1	L	120	HIS	N-CA	5.04	1.58	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	372	LEU	CG-CD1	-5.04	1.35	1.52
1	C	358	THR	N-CA	5.04	1.51	1.46
1	F	197	ASP	CA-CB	-5.04	1.45	1.53
1	H	135	TYR	C-O	-5.04	1.17	1.23
1	J	438	GLU	N-CA	5.04	1.55	1.46
1	L	213	LEU	C-O	-5.04	1.17	1.24
1	A	327	ASN	CG-OD1	5.04	1.33	1.23
1	E	123	LEU	CG-CD2	5.04	1.69	1.52
1	E	346	ALA	C-O	5.04	1.30	1.23
1	H	97	ARG	CA-C	-5.04	1.46	1.52
1	H	281	GLY	CA-C	5.04	1.58	1.51
1	I	62	VAL	C-O	-5.04	1.18	1.24
1	K	303	ASP	C-O	-5.04	1.17	1.24
1	D	43	LEU	CA-C	-5.03	1.46	1.52
1	G	347	ALA	C-O	5.03	1.30	1.23
1	H	219	GLU	C-O	-5.03	1.18	1.24
1	J	243	GLY	N-CA	5.03	1.53	1.45
1	O	104	GLY	CA-C	5.03	1.58	1.51
1	O	261	PHE	CG-CD2	5.03	1.49	1.38
1	A	307	PHE	CG-CD1	-5.03	1.28	1.38
1	E	365	ARG	CZ-NH1	5.03	1.39	1.32
1	M	445	THR	CA-C	-5.03	1.46	1.52
1	A	71	ARG	N-CA	5.03	1.52	1.46
1	B	147	ILE	CB-CG1	5.03	1.63	1.53
1	H	222	LEU	CG-CD2	5.03	1.69	1.52
1	L	186	PRO	CA-CB	-5.03	1.49	1.54
1	A	462	PHE	CA-CB	-5.03	1.47	1.54
1	K	73	PHE	C-O	-5.03	1.17	1.23
1	A	357	ASN	C-O	5.03	1.30	1.24
1	C	219	GLU	C-N	-5.03	1.27	1.33
1	D	274	ASP	CA-C	-5.03	1.45	1.52
1	I	226	THR	CB-OG1	5.03	1.51	1.43
1	I	327	ASN	CG-ND2	5.03	1.43	1.33
1	L	352	GLU	CD-OE1	5.03	1.34	1.25
1	M	461	GLN	N-CA	5.03	1.51	1.46
1	N	236	LYS	C-O	5.03	1.30	1.24
1	N	371	ASP	C-O	-5.03	1.18	1.23
1	O	71	ARG	CA-CB	-5.03	1.46	1.52
1	I	175	CYS	CB-SG	5.03	1.97	1.81
1	J	328	GLN	CA-C	5.03	1.59	1.52
1	J	350	THR	C-O	5.03	1.30	1.24
1	L	216	ASN	CB-CG	-5.03	1.39	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	451	LEU	CG-CD1	-5.03	1.35	1.52
1	A	23	SER	N-CA	-5.02	1.39	1.46
1	A	255	MET	C-O	5.02	1.29	1.23
1	A	286	LEU	CB-CG	5.02	1.63	1.53
1	D	371	ASP	CA-C	-5.02	1.48	1.53
1	B	214	GLN	C-N	5.02	1.41	1.33
1	G	189	GLU	C-O	-5.02	1.17	1.24
1	H	253	GLU	CA-C	5.02	1.58	1.52
1	H	280	SER	CA-C	-5.02	1.46	1.52
1	J	311	TYR	C-N	5.02	1.41	1.33
1	J	391	ILE	CA-C	-5.02	1.45	1.52
1	L	271	VAL	N-CA	-5.02	1.42	1.47
1	M	398	ILE	CA-CB	5.02	1.61	1.54
1	N	96	GLN	CD-OE1	5.02	1.33	1.23
1	A	371	ASP	CG-OD1	-5.02	1.15	1.25
1	G	32	ASN	CG-ND2	5.02	1.43	1.33
1	J	96	GLN	CG-CD	-5.02	1.39	1.52
1	A	300	VAL	N-CA	-5.02	1.40	1.46
1	C	363	TYR	CD1-CE1	5.02	1.53	1.38
1	I	251	ARG	N-CA	-5.02	1.40	1.45
1	L	94	ASP	N-CA	5.02	1.52	1.46
1	M	178	VAL	N-CA	5.02	1.52	1.46
1	B	213	LEU	CA-C	-5.02	1.46	1.52
1	D	261	PHE	N-CA	-5.02	1.38	1.46
1	I	68	LEU	C-O	5.02	1.31	1.24
1	O	325	TRP	CZ3-CH2	5.02	1.52	1.40
1	C	52	ILE	CA-CB	5.02	1.58	1.53
1	G	123	LEU	CA-C	-5.02	1.46	1.52
1	G	195	ILE	N-CA	5.02	1.52	1.46
1	L	444	TYR	C-O	-5.02	1.17	1.23
1	D	62	VAL	C-O	5.01	1.30	1.24
1	D	215	ALA	CA-C	-5.01	1.46	1.52
1	D	310	PRO	CA-CB	-5.01	1.47	1.53
1	D	444	TYR	CA-CB	-5.01	1.46	1.53
1	J	177	GLN	CD-OE1	5.01	1.33	1.23
1	K	271	VAL	CB-CG1	-5.01	1.36	1.52
1	O	199	ASP	CA-CB	5.01	1.61	1.53
1	O	375	ILE	CB-CG2	-5.01	1.36	1.52
1	D	199	ASP	CB-CG	-5.01	1.39	1.52
1	E	329	LEU	C-O	5.01	1.29	1.23
1	F	124	ASN	N-CA	-5.01	1.40	1.46
1	G	305	GLN	CA-CB	5.01	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	314	GLN	C-O	-5.01	1.18	1.24
1	J	361	LYS	CD-CE	5.01	1.67	1.52
1	E	77	LEU	CG-CD1	-5.01	1.36	1.52
1	E	145	GLU	CA-C	-5.01	1.46	1.52
1	E	291	TYR	CB-CG	-5.01	1.40	1.51
1	I	239	SER	C-O	-5.01	1.16	1.24
1	O	117	ILE	C-N	-5.01	1.26	1.33
1	A	182	PRO	CA-C	-5.01	1.45	1.52
1	F	93	PRO	CA-CB	5.01	1.60	1.53
1	F	471	GLN	CD-OE1	5.01	1.33	1.23
1	I	446	PHE	CA-C	-5.01	1.46	1.52
1	M	335	ASP	CG-OD2	5.01	1.34	1.25
1	N	335	ASP	N-CA	-5.01	1.40	1.46
1	G	51	PRO	C-O	5.01	1.29	1.23
1	I	362	GLU	CA-C	-5.01	1.46	1.52
1	J	338	ARG	CZ-NH2	5.01	1.40	1.33
1	K	105	VAL	C-N	-5.01	1.26	1.33
1	L	440	PRO	CB-CG	5.01	1.74	1.49
1	L	464	LEU	N-CA	-5.01	1.40	1.46
1	M	121	PRO	N-CA	-5.01	1.40	1.47
1	M	253	GLU	C-N	-5.01	1.27	1.33
1	B	129	THR	CA-CB	-5.00	1.47	1.54
1	C	366	HIS	C-O	5.00	1.29	1.23
1	F	223	ASP	CA-C	-5.00	1.45	1.52
1	M	298	SER	N-CA	-5.00	1.40	1.46
1	A	134	ALA	CA-C	-5.00	1.46	1.52
1	B	458	ASP	CA-C	-5.00	1.46	1.52
1	L	240	GLU	N-CA	-5.00	1.38	1.46
1	H	26	GLU	C-O	5.00	1.30	1.24
1	K	53	LYS	CB-CG	5.00	1.67	1.52
1	N	272	PRO	CA-CB	-5.00	1.47	1.53

All (3280) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	185	CYS	CA-C-N	21.35	135.03	119.66
1	L	185	CYS	C-N-CA	21.35	135.03	119.66
1	B	202	ASP	N-CA-C	-17.40	87.56	110.53
1	E	185	CYS	CA-C-N	17.27	132.26	119.66
1	E	185	CYS	C-N-CA	17.27	132.26	119.66
1	L	206	GLY	N-CA-C	-16.40	95.31	112.04
1	I	173	SER	CA-C-N	15.40	139.09	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	173	SER	C-N-CA	15.40	139.09	119.84
1	M	185	CYS	CA-C-N	15.22	130.77	119.66
1	M	185	CYS	C-N-CA	15.22	130.77	119.66
1	J	185	CYS	CA-C-N	15.10	130.68	119.66
1	J	185	CYS	C-N-CA	15.10	130.68	119.66
1	G	114	GLY	CA-C-O	-14.72	107.43	121.41
1	L	306	ILE	N-CA-C	-14.61	98.35	112.96
1	A	326	GLY	N-CA-C	-14.52	94.80	115.27
1	A	71	ARG	NE-CZ-NH2	14.44	132.20	119.20
1	J	442	LYS	N-CA-C	-14.32	93.63	112.68
1	L	173	SER	CA-C-N	14.27	137.67	119.84
1	L	173	SER	C-N-CA	14.27	137.67	119.84
1	B	47	HIS	CA-C-N	13.40	133.23	119.56
1	B	47	HIS	C-N-CA	13.40	133.23	119.56
1	N	47	HIS	CA-C-N	13.00	132.56	119.82
1	N	47	HIS	C-N-CA	13.00	132.56	119.82
1	D	160	GLY	O-C-N	-12.99	111.70	123.65
1	J	143	ASN	N-CA-C	-12.73	96.46	112.88
1	J	95	THR	N-CA-C	12.65	129.50	112.68
1	H	173	SER	CA-C-N	12.61	135.60	119.84
1	H	173	SER	C-N-CA	12.61	135.60	119.84
1	H	387	VAL	N-CA-C	-12.34	99.97	111.45
1	J	294	THR	CA-C-O	-12.33	109.55	119.66
1	G	238	VAL	N-CA-C	-12.19	100.11	111.45
1	H	258	ARG	N-CA-C	-12.15	98.24	113.55
1	D	185	CYS	CA-C-N	12.06	128.46	119.66
1	D	185	CYS	C-N-CA	12.06	128.46	119.66
1	D	251	ARG	NE-CZ-NH2	12.05	130.04	119.20
1	H	103	VAL	CA-C-N	-11.98	113.51	121.65
1	H	103	VAL	C-N-CA	-11.98	113.51	121.65
1	J	181	GLN	N-CA-C	-11.88	89.31	109.15
1	J	97	ARG	NE-CZ-NH2	11.87	129.88	119.20
1	M	173	SER	CA-C-N	11.82	134.62	119.84
1	M	173	SER	C-N-CA	11.82	134.62	119.84
1	B	173	SER	CA-C-N	11.77	134.55	119.84
1	B	173	SER	C-N-CA	11.77	134.55	119.84
1	J	387	VAL	N-CA-C	-11.72	100.07	110.74
1	J	163	PRO	N-CA-CB	-11.62	97.18	103.22
1	J	326	GLY	N-CA-C	-11.60	99.18	115.30
1	L	72	VAL	CB-CA-C	-11.52	96.18	111.15
1	L	398	ILE	N-CA-C	-11.51	99.37	110.42
1	H	211	THR	N-CA-C	-11.50	98.63	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	181	GLN	N-CA-C	-11.41	93.37	109.24
1	A	297	GLY	N-CA-C	-11.27	89.13	111.34
1	M	387	VAL	N-CA-C	-11.23	100.52	110.74
1	O	109	ARG	NE-CZ-NH2	11.22	129.29	119.20
1	N	88	THR	CB-CA-C	11.20	127.89	109.07
1	L	47	HIS	CA-C-N	11.19	131.05	119.19
1	L	47	HIS	C-N-CA	11.19	131.05	119.19
1	M	323	ILE	CB-CA-C	-11.08	100.06	111.80
1	G	98	LEU	N-CA-C	11.03	126.51	109.96
1	A	235	ILE	CB-CA-C	-10.93	97.72	112.04
1	D	297	GLY	N-CA-C	-10.91	87.33	113.18
1	D	160	GLY	CA-C-O	10.89	134.01	121.49
1	F	459	LEU	N-CA-C	-10.88	99.74	113.23
1	K	192	ASN	N-CA-C	-10.82	91.77	109.96
1	A	173	SER	CA-C-N	10.82	133.36	119.84
1	A	173	SER	C-N-CA	10.82	133.36	119.84
1	K	215	ALA	N-CA-C	-10.79	98.76	112.90
1	B	185	CYS	CA-C-N	10.76	131.46	120.38
1	B	185	CYS	C-N-CA	10.76	131.46	120.38
1	N	87	ASP	CA-C-N	-10.75	104.48	122.11
1	N	87	ASP	C-N-CA	-10.75	104.48	122.11
1	O	185	CYS	CA-C-N	10.71	131.41	120.38
1	O	185	CYS	C-N-CA	10.71	131.41	120.38
1	E	283	THR	N-CA-C	-10.68	100.97	112.93
1	N	27	TYR	N-CA-C	10.67	125.40	112.38
1	J	103	VAL	CB-CA-C	-10.64	100.22	110.65
1	L	283	THR	N-CA-C	-10.64	100.31	113.18
1	H	319	HIS	CA-C-O	-10.62	109.66	120.82
1	J	163	PRO	O-C-N	10.56	126.11	121.15
1	B	286	LEU	N-CA-C	10.55	125.76	110.24
1	A	215	ALA	N-CA-C	-10.50	99.64	111.82
1	H	223	ASP	N-CA-C	10.49	123.77	111.71
1	D	181	GLN	N-CA-C	-10.48	86.78	109.11
1	K	173	SER	CA-C-N	10.48	132.94	119.84
1	K	173	SER	C-N-CA	10.48	132.94	119.84
1	L	274	ASP	N-CA-C	-10.46	97.88	114.09
1	M	311	TYR	CA-C-O	-10.45	109.68	120.54
1	J	257	VAL	N-CA-C	10.44	122.62	108.84
1	D	447	TRP	N-CA-C	-10.43	93.29	109.25
1	N	173	SER	CA-C-N	10.42	132.86	119.84
1	N	173	SER	C-N-CA	10.42	132.86	119.84
1	L	468	PHE	N-CA-C	10.35	122.15	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	96	GLN	O-C-N	-10.32	110.06	122.65
1	M	101	ALA	CA-C-N	-10.32	107.97	122.93
1	M	101	ALA	C-N-CA	-10.32	107.97	122.93
1	C	185	CYS	CA-C-N	10.30	127.18	119.66
1	C	185	CYS	C-N-CA	10.30	127.18	119.66
1	I	111	GLN	CB-CG-CD	-10.26	95.17	112.60
1	A	185	CYS	CA-C-N	10.23	130.91	120.38
1	A	185	CYS	C-N-CA	10.23	130.91	120.38
1	D	173	SER	CA-C-N	10.22	132.62	119.84
1	D	173	SER	C-N-CA	10.22	132.62	119.84
1	J	251	ARG	NE-CZ-NH2	10.20	128.38	119.20
1	H	185	CYS	CA-C-N	10.20	130.88	120.38
1	H	185	CYS	C-N-CA	10.20	130.88	120.38
1	F	173	SER	CA-C-N	10.10	132.47	119.84
1	F	173	SER	C-N-CA	10.10	132.47	119.84
1	B	62	VAL	CB-CA-C	-10.08	99.45	109.33
1	J	256	PHE	CA-C-O	-10.08	110.50	121.28
1	B	163	PRO	CA-C-N	10.06	130.01	119.85
1	B	163	PRO	C-N-CA	10.06	130.01	119.85
1	A	194	VAL	CB-CA-C	-10.06	98.08	111.15
1	N	387	VAL	N-CA-C	-10.00	101.64	110.74
1	N	292	PHE	CA-C-O	-10.00	109.23	120.03
1	I	306	ILE	N-CA-C	-9.96	101.76	113.42
1	N	103	VAL	N-CA-C	-9.95	104.26	113.71
1	C	115	VAL	CA-C-N	-9.94	115.07	122.33
1	C	115	VAL	C-N-CA	-9.94	115.07	122.33
1	I	206	GLY	N-CA-C	-9.91	98.14	112.81
1	H	326	GLY	N-CA-C	-9.90	102.05	114.92
1	M	459	LEU	N-CA-C	-9.88	100.91	113.16
1	A	112	PRO	N-CD-CG	-9.83	88.45	103.20
1	A	258	ARG	N-CA-C	-9.81	99.88	112.93
1	K	29	ALA	CA-C-N	-9.79	109.34	123.05
1	K	29	ALA	C-N-CA	-9.79	109.34	123.05
1	E	322	GLY	CA-C-N	-9.79	110.11	122.93
1	E	322	GLY	C-N-CA	-9.79	110.11	122.93
1	F	365	ARG	NE-CZ-NH1	9.76	131.26	121.50
1	C	144	ARG	NE-CZ-NH1	9.75	131.25	121.50
1	A	181	GLN	N-CA-C	-9.74	92.89	109.15
1	J	206	GLY	N-CA-C	-9.73	99.25	111.70
1	C	173	SER	CA-C-N	9.69	131.95	119.84
1	C	173	SER	C-N-CA	9.69	131.95	119.84
1	C	201	VAL	CB-CA-C	-9.68	95.42	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	28	VAL	CB-CA-C	-9.62	96.50	110.83
1	K	333	VAL	N-CA-C	9.62	124.32	109.12
1	H	265	GLY	CA-C-O	9.61	130.11	122.52
1	B	181	GLN	N-CA-C	-9.61	97.71	109.72
1	H	103	VAL	CB-CA-C	-9.58	101.26	110.65
1	M	318	GLY	N-CA-C	-9.56	97.79	112.89
1	B	214	GLN	CA-C-O	-9.55	109.81	120.70
1	N	89	SER	N-CA-C	9.55	122.69	111.71
1	I	170	GLY	N-CA-C	-9.53	96.71	110.91
1	H	310	PRO	N-CA-CB	-9.50	95.47	103.36
1	E	40	SER	N-CA-C	-9.50	100.90	111.07
1	E	238	VAL	N-CA-C	-9.48	101.62	110.53
1	K	47	HIS	CA-C-N	9.47	129.10	119.82
1	K	47	HIS	C-N-CA	9.47	129.10	119.82
1	A	33	ILE	CB-CA-C	-9.47	99.62	110.41
1	J	334	VAL	N-CA-C	-9.47	95.30	108.27
1	I	283	THR	N-CA-C	-9.46	101.75	113.20
1	F	31	THR	CA-C-O	-9.45	109.89	121.89
1	M	197	ASP	CA-C-O	-9.45	111.26	121.56
1	F	144	ARG	NE-CZ-NH1	-9.44	112.06	121.50
1	H	297	GLY	N-CA-C	-9.43	90.83	113.18
1	A	29	ALA	CA-C-N	-9.42	109.72	122.72
1	A	29	ALA	C-N-CA	-9.42	109.72	122.72
1	O	50	PHE	N-CA-C	9.42	116.70	108.22
1	C	98	LEU	N-CA-C	9.39	123.74	110.50
1	C	311	TYR	CA-C-O	-9.39	110.42	120.46
1	L	166	GLY	N-CA-C	9.39	127.72	112.89
1	G	198	GLY	N-CA-C	9.38	127.76	115.47
1	C	22	VAL	N-CA-C	9.36	121.80	108.42
1	I	163	PRO	CA-C-N	9.34	129.28	120.03
1	I	163	PRO	C-N-CA	9.34	129.28	120.03
1	M	335	ASP	CA-C-N	-9.30	107.47	122.26
1	M	335	ASP	C-N-CA	-9.30	107.47	122.26
1	F	24	THR	N-CA-C	-9.29	101.20	112.54
1	A	247	PHE	N-CA-C	-9.28	102.54	114.04
1	H	219	GLU	N-CA-C	-9.21	98.30	113.50
1	L	99	VAL	CA-C-O	-9.20	112.01	121.67
1	C	65	VAL	N-CA-CB	-9.20	103.45	112.65
1	B	25	ASP	N-CA-C	-9.17	101.86	112.87
1	C	75	ILE	CA-CB-CG2	-9.17	94.91	110.50
1	I	274	ASP	N-CA-C	-9.14	99.90	113.61
1	N	27	TYR	CA-C-O	9.13	130.54	119.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	201	VAL	CB-CA-C	-9.13	96.31	111.29
1	J	263	ARG	N-CA-C	9.12	123.55	109.96
1	A	104	GLY	CA-C-O	-9.10	112.20	120.75
1	I	442	LYS	N-CA-C	-9.10	99.81	112.45
1	O	181	GLN	CB-CA-C	9.09	120.21	109.85
1	G	223	ASP	N-CA-C	-9.07	101.64	112.89
1	D	194	VAL	CB-CA-C	-9.07	100.47	111.08
1	D	175	CYS	N-CA-C	-9.03	93.49	108.76
1	H	177	GLN	CA-CB-CG	-9.02	96.06	114.10
1	N	348	ILE	N-CA-C	-9.01	100.73	113.07
1	A	256	PHE	CA-C-O	-9.00	111.60	121.23
1	J	361	LYS	O-C-N	-9.00	112.96	123.22
1	D	159	ILE	CA-C-N	8.99	131.01	121.48
1	D	159	ILE	C-N-CA	8.99	131.01	121.48
1	E	469	LEU	N-CA-C	-8.99	100.63	111.69
1	J	173	SER	CA-C-N	8.99	131.08	119.84
1	J	173	SER	C-N-CA	8.99	131.08	119.84
1	C	319	HIS	N-CA-C	8.96	121.96	111.02
1	J	97	ARG	NH1-CZ-NH2	-8.96	107.65	119.30
1	L	201	VAL	CB-CA-C	-8.95	96.62	111.29
1	F	123	LEU	N-CA-CB	-8.94	97.30	110.17
1	B	454	LYS	N-CA-C	-8.93	104.44	114.62
1	F	292	PHE	CA-C-O	-8.93	111.09	119.76
1	J	323	ILE	CB-CA-C	-8.92	101.60	111.23
1	E	144	ARG	NE-CZ-NH2	-8.91	111.19	119.20
1	M	283	THR	CA-C-N	-8.90	108.71	122.60
1	M	283	THR	C-N-CA	-8.90	108.71	122.60
1	I	258	ARG	NE-CZ-NH1	8.90	130.40	121.50
1	L	194	VAL	CA-C-O	8.89	131.05	120.65
1	E	223	ASP	N-CA-C	8.89	123.22	112.38
1	D	200	MET	N-CA-C	8.88	122.65	109.59
1	H	65	VAL	N-CA-CB	-8.88	102.01	112.40
1	B	306	ILE	N-CA-C	-8.87	103.04	113.42
1	M	142	ASP	N-CA-C	8.87	122.11	111.02
1	B	103	VAL	CA-C-N	-8.86	116.06	122.18
1	B	103	VAL	C-N-CA	-8.86	116.06	122.18
1	D	103	VAL	CA-C-N	-8.86	115.63	121.65
1	D	103	VAL	C-N-CA	-8.86	115.63	121.65
1	L	398	ILE	CB-CG1-CD1	-8.85	95.23	113.80
1	O	257	VAL	N-CA-C	8.85	121.34	107.98
1	F	113	LEU	N-CA-C	-8.83	98.87	110.53
1	O	284	ALA	N-CA-C	-8.82	100.38	113.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	180	VAL	N-CA-C	8.81	127.67	109.34
1	B	238	VAL	N-CA-C	-8.81	101.40	111.00
1	G	180	VAL	N-CA-C	8.80	127.65	109.34
1	G	216	ASN	OD1-CG-ND2	8.80	131.40	122.60
1	N	469	LEU	N-CA-C	-8.79	100.88	111.69
1	J	95	THR	OG1-CB-CG2	8.78	126.87	109.30
1	K	353	THR	N-CA-C	-8.79	101.91	114.12
1	C	181	GLN	N-CA-C	-8.78	92.33	109.10
1	A	21	VAL	CB-CA-C	-8.76	96.85	110.95
1	D	348	ILE	N-CA-C	-8.76	100.52	113.39
1	O	193	THR	N-CA-C	8.75	122.46	109.24
1	M	167	GLU	CA-C-O	-8.75	110.91	121.06
1	N	186	PRO	N-CA-C	8.74	121.37	110.70
1	I	456	SER	CA-C-N	-8.72	105.84	121.81
1	I	456	SER	C-N-CA	-8.72	105.84	121.81
1	E	173	SER	CA-C-N	8.72	130.74	119.84
1	E	173	SER	C-N-CA	8.72	130.74	119.84
1	C	296	SER	O-C-N	-8.70	113.57	123.40
1	I	174	PRO	N-CA-C	8.69	130.37	112.47
1	D	148	SER	N-CA-C	8.68	122.60	109.41
1	D	65	VAL	N-CA-CB	-8.66	103.99	112.65
1	H	213	LEU	N-CA-C	-8.65	102.47	113.72
1	L	194	VAL	O-C-N	-8.64	112.39	122.94
1	M	456	SER	N-CA-C	8.64	122.51	108.34
1	M	195	ILE	N-CA-C	-8.64	93.75	106.88
1	K	224	ILE	N-CA-C	8.63	124.52	112.35
1	L	39	THR	OG1-CB-CG2	-8.62	92.06	109.30
1	N	50	PHE	CA-C-N	8.62	129.87	120.13
1	N	50	PHE	C-N-CA	8.62	129.87	120.13
1	D	304	ALA	N-CA-C	8.60	127.47	113.89
1	M	253	GLU	N-CA-C	8.59	123.98	110.32
1	G	311	TYR	CA-C-O	-8.59	111.02	120.38
1	M	181	GLN	CB-CA-C	8.59	120.02	110.15
1	H	247	PHE	N-CA-C	-8.58	101.77	113.18
1	D	369	GLU	CA-C-O	-8.57	110.56	121.11
1	L	348	ILE	N-CA-C	-8.57	100.80	113.39
1	D	267	VAL	CA-C-O	-8.55	110.09	120.78
1	C	258	ARG	N-CA-C	-8.55	102.44	113.12
1	E	68	LEU	O-C-N	8.55	131.93	121.84
1	F	227	SER	N-CA-C	8.54	121.31	109.18
1	E	177	GLN	CB-CG-CD	8.53	127.10	112.60
1	I	135	TYR	CA-C-N	8.51	132.91	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	135	TYR	C-N-CA	8.51	132.91	120.90
1	B	111	GLN	N-CA-CB	-8.51	95.88	111.19
1	E	163	PRO	O-C-N	8.49	125.14	121.15
1	H	227	SER	N-CA-C	8.49	122.89	109.65
1	J	368	GLU	CA-C-N	-8.47	111.09	123.11
1	J	368	GLU	C-N-CA	-8.47	111.09	123.11
1	F	180	VAL	CB-CA-C	-8.45	97.43	111.29
1	M	86	PRO	CA-C-N	8.45	137.86	121.63
1	M	86	PRO	C-N-CA	8.45	137.86	121.63
1	H	29	ALA	CA-C-N	-8.45	110.73	123.07
1	H	29	ALA	C-N-CA	-8.45	110.73	123.07
1	A	334	VAL	N-CA-C	-8.45	95.20	107.78
1	B	442	LYS	N-CA-C	-8.44	100.72	112.45
1	A	294	THR	CA-C-O	-8.43	111.63	120.23
1	O	300	VAL	N-CA-CB	8.42	119.70	110.53
1	M	201	VAL	CB-CA-C	-8.41	97.49	111.29
1	F	71	ARG	NE-CZ-NH1	-8.39	113.11	121.50
1	G	185	CYS	CA-C-N	8.39	125.78	119.66
1	G	185	CYS	C-N-CA	8.39	125.78	119.66
1	N	285	ASN	N-CA-C	8.39	124.15	107.62
1	J	469	LEU	O-C-N	-8.38	113.38	122.09
1	E	447	TRP	CA-C-N	-8.37	111.63	122.77
1	E	447	TRP	C-N-CA	-8.37	111.63	122.77
1	G	181	GLN	N-CA-C	-8.36	93.64	108.69
1	D	251	ARG	NE-CZ-NH1	-8.36	113.14	121.50
1	B	326	GLY	N-CA-C	-8.36	102.94	114.64
1	N	294	THR	CA-CB-CG2	-8.36	96.29	110.50
1	J	341	ASN	N-CA-C	-8.35	95.28	108.90
1	C	111	GLN	N-CA-CB	-8.35	96.03	110.72
1	K	326	GLY	N-CA-C	-8.34	104.36	115.21
1	N	185	CYS	CA-C-N	8.34	128.97	120.38
1	N	185	CYS	C-N-CA	8.34	128.97	120.38
1	H	104	GLY	CA-C-O	-8.34	114.44	120.94
1	L	24	THR	N-CA-C	-8.34	103.00	113.01
1	E	319	HIS	N-CA-C	8.33	119.98	111.07
1	M	136	ALA	N-CA-C	8.33	121.98	110.24
1	N	202	ASP	N-CA-C	-8.33	98.15	110.48
1	L	299	MET	N-CA-C	8.33	122.79	110.30
1	D	449	VAL	CB-CA-C	-8.32	100.92	110.41
1	H	361	LYS	CD-CE-NZ	-8.32	85.27	111.90
1	I	97	ARG	NE-CZ-NH2	-8.31	111.72	119.20
1	E	129	THR	N-CA-C	-8.31	102.92	113.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	194	VAL	CB-CA-C	-8.30	101.37	111.08
1	G	271	VAL	CA-C-N	8.30	128.06	119.76
1	G	271	VAL	C-N-CA	8.30	128.06	119.76
1	I	258	ARG	NE-CZ-NH2	-8.30	111.73	119.20
1	J	95	THR	CB-CA-C	-8.30	96.39	110.24
1	O	163	PRO	CA-C-N	8.30	128.06	119.76
1	J	29	ALA	CA-C-N	-8.29	111.74	122.77
1	J	29	ALA	C-N-CA	-8.29	111.74	122.77
1	K	103	VAL	CB-CA-C	-8.29	102.83	110.63
1	M	101	ALA	N-CA-C	8.29	122.61	109.50
1	O	163	PRO	C-N-CA	8.30	128.06	119.76
1	J	312	TRP	CA-C-O	8.29	129.33	120.46
1	M	28	VAL	N-CA-C	8.29	121.06	108.71
1	F	326	GLY	N-CA-C	-8.29	103.07	115.00
1	M	181	GLN	N-CA-C	-8.29	95.31	109.15
1	G	331	VAL	CA-CB-CG2	-8.28	96.32	110.40
1	F	202	ASP	N-CA-C	-8.28	97.12	110.20
1	L	177	GLN	N-CA-C	-8.27	93.18	110.80
1	C	460	ASP	N-CA-C	-8.27	103.19	113.20
1	D	145	GLU	CA-C-N	-8.27	112.09	122.84
1	D	145	GLU	C-N-CA	-8.27	112.09	122.84
1	M	460	ASP	N-CA-C	-8.27	103.20	113.20
1	L	230	LYS	CA-CB-CG	-8.26	97.57	114.10
1	E	470	LEU	N-CA-C	8.26	124.77	113.37
1	G	251	ARG	CA-C-N	-8.25	108.97	121.26
1	G	251	ARG	C-N-CA	-8.25	108.97	121.26
1	C	34	TYR	CA-C-O	8.24	130.14	120.66
1	J	305	GLN	N-CA-C	8.24	122.66	110.30
1	E	197	ASP	CA-C-N	-8.23	113.86	123.08
1	E	197	ASP	C-N-CA	-8.23	113.86	123.08
1	J	460	ASP	N-CA-C	-8.23	102.50	112.54
1	K	306	ILE	N-CA-C	-8.23	102.86	111.58
1	L	294	THR	N-CA-C	-8.23	99.69	110.39
1	O	30	ARG	N-CA-C	8.23	121.42	108.67
1	F	194	VAL	CB-CA-C	-8.22	101.46	111.08
1	A	266	THR	CB-CA-C	-8.21	92.84	109.68
1	B	219	GLU	N-CA-C	-8.21	102.71	114.12
1	I	208	MET	N-CA-C	8.21	118.73	107.73
1	I	233	ASP	CA-CB-CG	-8.21	104.39	112.60
1	B	68	LEU	N-CA-C	-8.20	100.24	111.56
1	C	294	THR	CA-C-O	-8.19	112.95	119.66
1	D	116	GLY	CA-C-N	-8.18	111.57	122.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	116	GLY	C-N-CA	-8.18	111.57	122.94
1	N	92	ASN	CA-C-O	8.18	127.11	119.99
1	D	282	SER	N-CA-CB	-8.16	96.70	110.49
1	J	249	TYR	O-C-N	-8.16	114.92	123.56
1	A	192	ASN	N-CA-C	-8.15	97.79	110.42
1	D	235	ILE	CB-CA-C	-8.15	97.93	111.29
1	M	263	ARG	N-CA-C	8.15	120.88	109.15
1	G	263	ARG	NE-CZ-NH2	8.14	126.53	119.20
1	K	103	VAL	CA-C-N	-8.14	116.11	121.65
1	K	103	VAL	C-N-CA	-8.14	116.11	121.65
1	H	181	GLN	N-CA-C	-8.14	96.67	109.04
1	A	47	HIS	CA-C-N	8.13	130.01	119.84
1	A	47	HIS	C-N-CA	8.13	130.01	119.84
1	I	202	ASP	N-CA-C	-8.13	98.24	110.28
1	B	187	PRO	CB-CA-C	-8.13	104.00	111.40
1	N	297	GLY	N-CA-C	-8.13	93.92	113.18
1	N	68	LEU	N-CA-C	-8.12	100.35	113.19
1	B	29	ALA	N-CA-C	8.12	123.03	110.20
1	E	286	LEU	N-CA-C	8.12	122.18	110.24
1	K	231	TYR	CB-CA-C	-8.11	98.48	109.42
1	M	108	GLY	O-C-N	-8.10	114.91	122.93
1	H	231	TYR	CA-C-N	8.10	128.60	119.93
1	H	231	TYR	C-N-CA	8.10	128.60	119.93
1	H	222	LEU	CA-C-N	-8.09	108.62	120.28
1	H	222	LEU	C-N-CA	-8.09	108.62	120.28
1	K	302	SER	N-CA-C	-8.09	102.43	111.82
1	M	96	GLN	CA-C-O	-8.09	112.14	120.71
1	A	393	SER	N-CA-C	-8.09	103.40	113.18
1	D	160	GLY	N-CA-C	8.09	122.91	111.10
1	C	236	LYS	N-CA-C	8.08	120.17	111.36
1	A	69	GLN	CA-C-N	-8.08	111.40	122.30
1	A	69	GLN	C-N-CA	-8.08	111.40	122.30
1	H	50	PHE	CA-C-N	8.08	128.38	119.90
1	H	50	PHE	C-N-CA	8.08	128.38	119.90
1	F	379	CYS	CA-CB-SG	-8.07	95.83	114.40
1	K	310	PRO	CA-C-N	-8.07	112.34	122.84
1	K	310	PRO	C-N-CA	-8.07	112.34	122.84
1	F	226	THR	CB-CA-C	-8.07	96.92	110.56
1	F	319	HIS	N-CA-C	8.07	124.69	111.37
1	J	180	VAL	CB-CA-C	-8.07	98.05	111.29
1	D	276	TYR	N-CA-C	8.07	118.54	107.73
1	C	464	LEU	CB-CG-CD1	8.06	134.88	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	113	LEU	N-CA-C	-8.03	98.59	110.48
1	K	238	VAL	N-CA-C	-8.04	101.33	112.50
1	N	355	TYR	N-CA-C	-8.03	98.59	110.48
1	N	181	GLN	N-CA-C	-8.03	98.08	109.24
1	I	181	GLN	N-CA-C	-8.03	91.11	108.93
1	M	368	GLU	CA-C-N	-8.03	111.92	123.00
1	M	368	GLU	C-N-CA	-8.03	111.92	123.00
1	M	263	ARG	CG-CD-NE	-8.02	94.36	112.00
1	A	138	ASN	CA-C-O	8.02	128.42	120.88
1	E	177	GLN	N-CA-C	-8.01	93.73	110.80
1	J	163	PRO	CA-C-N	8.01	128.01	119.76
1	J	163	PRO	C-N-CA	8.01	128.01	119.76
1	D	47	HIS	CA-C-N	8.00	127.72	119.56
1	D	47	HIS	C-N-CA	8.00	127.72	119.56
1	N	212	THR	N-CA-C	8.00	123.17	113.41
1	G	147	ILE	CA-C-O	-8.00	113.52	121.67
1	G	197	ASP	CA-C-O	-7.99	113.08	121.55
1	O	286	LEU	N-CA-C	7.99	122.08	110.42
1	L	170	GLY	CA-C-N	-7.98	111.52	122.30
1	L	170	GLY	C-N-CA	-7.98	111.52	122.30
1	J	461	GLN	N-CA-C	7.98	121.82	112.72
1	L	31	THR	CB-CA-C	-7.97	95.44	110.51
1	E	442	LYS	N-CA-C	-7.97	102.46	112.90
1	M	294	THR	CA-C-O	-7.97	113.50	120.19
1	C	198	GLY	N-CA-C	7.96	125.91	115.40
1	H	357	ASN	N-CA-C	7.96	122.69	112.34
1	D	370	TYR	N-CA-C	7.95	121.33	110.35
1	B	80	PRO	N-CA-C	-7.95	102.92	113.65
1	C	263	ARG	N-CA-C	7.95	121.27	109.59
1	I	236	LYS	N-CA-C	7.93	122.22	112.23
1	I	457	ALA	N-CA-C	-7.93	99.43	111.56
1	K	48	PRO	N-CA-C	7.92	124.20	113.98
1	M	334	VAL	N-CA-C	-7.92	96.04	107.77
1	O	227	SER	N-CA-C	7.92	123.27	109.80
1	H	183	GLY	O-C-N	7.92	133.00	122.70
1	F	31	THR	O-C-N	7.92	132.02	122.84
1	G	200	MET	N-CA-C	7.91	122.13	109.24
1	A	364	LEU	CB-CG-CD1	-7.91	86.98	110.70
1	K	163	PRO	N-CA-C	7.90	119.03	110.58
1	N	191	ILE	CB-CA-C	-7.90	98.80	110.33
1	H	149	MET	N-CA-C	7.89	119.12	108.23
1	L	192	ASN	O-C-N	-7.89	114.04	122.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	180	VAL	CA-C-O	7.89	130.64	120.78
1	D	166	GLY	O-C-N	7.89	129.59	122.81
1	K	333	VAL	CB-CA-C	-7.89	99.93	111.68
1	A	264	ALA	N-CA-CB	-7.88	99.58	110.38
1	L	91	TYR	N-CA-C	7.88	121.39	109.41
1	H	275	LEU	CB-CG-CD2	7.88	134.32	110.70
1	D	263	ARG	NE-CZ-NH2	-7.87	112.11	119.20
1	H	235	ILE	CB-CA-C	-7.87	98.38	111.29
1	B	214	GLN	CA-CB-CG	-7.86	98.39	114.10
1	D	186	PRO	N-CA-C	7.85	118.01	110.47
1	D	29	ALA	CA-C-N	-7.85	112.06	123.05
1	D	29	ALA	C-N-CA	-7.85	112.06	123.05
1	K	196	GLN	CA-C-O	-7.85	112.55	121.81
1	F	290	ASN	N-CA-C	7.85	122.17	108.52
1	M	165	ILE	CA-C-N	-7.85	114.22	122.30
1	M	165	ILE	C-N-CA	-7.85	114.22	122.30
1	M	126	LEU	CB-CG-CD1	-7.84	87.17	110.70
1	I	63	PRO	CA-C-N	-7.84	110.29	121.50
1	I	63	PRO	C-N-CA	-7.84	110.29	121.50
1	L	195	ILE	CB-CG1-CD1	7.84	130.26	113.80
1	M	363	TYR	N-CA-CB	-7.84	98.50	111.20
1	B	158	LEU	CD1-CG-CD2	-7.83	93.57	110.80
1	B	283	THR	CA-C-N	-7.83	110.12	122.65
1	B	283	THR	C-N-CA	-7.83	110.12	122.65
1	I	195	ILE	CB-CG1-CD1	7.83	130.24	113.80
1	N	458	ASP	N-CA-C	7.83	121.16	108.63
1	G	124	ASN	CA-C-N	-7.82	111.59	122.93
1	G	124	ASN	C-N-CA	-7.82	111.59	122.93
1	J	227	SER	N-CA-C	7.82	123.10	109.80
1	H	201	VAL	CB-CA-C	-7.81	98.47	111.29
1	E	49	TYR	CA-C-N	-7.81	110.82	122.07
1	E	49	TYR	C-N-CA	-7.81	110.82	122.07
1	F	389	THR	OG1-CB-CG2	7.81	124.92	109.30
1	I	299	MET	CA-C-O	-7.80	112.46	120.96
1	E	167	GLU	CB-CG-CD	-7.79	99.35	112.60
1	G	265	GLY	CA-C-N	-7.79	109.80	120.87
1	G	265	GLY	C-N-CA	-7.79	109.80	120.87
1	E	284	ALA	N-CA-C	-7.79	103.34	112.92
1	C	296	SER	N-CA-C	7.79	120.23	107.23
1	K	320	ASN	CA-C-O	-7.79	112.84	121.87
1	G	115	VAL	CA-C-N	-7.78	115.25	122.80
1	G	115	VAL	C-N-CA	-7.78	115.25	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	224	ILE	CA-C-O	7.78	128.09	119.92
1	A	70	TYR	N-CA-C	-7.78	96.60	108.96
1	K	83	PHE	N-CA-C	-7.77	98.97	110.48
1	N	90	PHE	N-CA-C	7.77	121.70	111.75
1	B	149	MET	N-CA-C	7.77	118.21	108.19
1	I	194	VAL	N-CA-C	7.76	119.08	108.84
1	D	292	PHE	CA-C-O	-7.76	112.29	120.28
1	G	180	VAL	CB-CA-C	-7.76	98.57	111.29
1	N	226	THR	CB-CA-C	-7.75	97.08	110.17
1	A	259	HIS	CA-C-N	-7.75	111.32	122.94
1	A	259	HIS	C-N-CA	-7.75	111.32	122.94
1	A	202	ASP	N-CA-C	-7.72	99.05	110.48
1	H	224	ILE	CB-CA-C	-7.71	100.78	111.65
1	M	246	LEU	CA-C-O	7.71	129.53	120.66
1	C	51	PRO	CB-CG-CD	-7.71	81.43	106.10
1	D	153	GLN	CA-C-N	-7.70	112.37	123.00
1	D	153	GLN	C-N-CA	-7.70	112.37	123.00
1	E	459	LEU	N-CA-C	-7.70	103.86	113.18
1	N	144	ARG	NE-CZ-NH1	-7.70	113.80	121.50
1	H	353	THR	N-CA-C	-7.69	103.48	113.17
1	F	127	ASP	CA-C-O	-7.68	112.72	121.40
1	C	193	THR	O-C-N	-7.68	116.04	123.26
1	G	346	ALA	N-CA-C	-7.68	98.52	110.42
1	J	286	LEU	N-CA-C	7.68	121.10	110.35
1	O	109	ARG	CA-C-O	7.67	128.99	120.70
1	I	257	VAL	CB-CA-C	-7.67	101.51	111.25
1	I	358	THR	N-CA-C	7.66	121.23	112.57
1	K	245	SER	N-CA-C	-7.66	102.62	110.97
1	M	361	LYS	CA-C-N	-7.66	112.43	123.00
1	M	361	LYS	C-N-CA	-7.66	112.43	123.00
1	D	292	PHE	N-CA-CB	-7.65	97.41	111.19
1	J	22	VAL	N-CA-C	7.65	121.21	108.81
1	J	297	GLY	N-CA-C	-7.64	95.08	113.18
1	I	111	GLN	CA-C-N	7.64	128.08	119.83
1	I	111	GLN	C-N-CA	7.64	128.08	119.83
1	A	64	LYS	CB-CA-C	-7.64	97.99	109.90
1	G	181	GLN	O-C-N	7.64	128.37	121.19
1	K	87	ASP	CA-C-O	-7.63	113.28	121.45
1	J	147	ILE	CG1-CB-CG2	-7.63	87.81	110.70
1	F	336	THR	CA-CB-OG1	-7.63	98.16	109.60
1	D	116	GLY	CA-C-O	7.63	128.12	120.64
1	I	317	GLN	CA-C-N	7.62	128.30	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	317	GLN	C-N-CA	7.62	128.30	120.60
1	M	196	GLN	N-CA-C	7.62	120.58	110.53
1	N	334	VAL	CA-C-N	-7.62	111.04	122.47
1	N	334	VAL	C-N-CA	-7.62	111.04	122.47
1	G	236	LYS	N-CA-C	7.62	119.22	111.07
1	O	165	ILE	N-CA-C	7.62	118.84	107.80
1	A	152	LYS	N-CA-C	7.61	121.53	110.42
1	K	185	CYS	CA-C-N	7.61	128.22	120.38
1	K	185	CYS	C-N-CA	7.61	128.22	120.38
1	I	178	VAL	N-CA-C	7.61	125.16	109.34
1	M	108	GLY	N-CA-C	7.61	120.26	111.36
1	L	144	ARG	NH1-CZ-NH2	7.60	129.18	119.30
1	J	161	CYS	N-CA-C	-7.60	104.14	113.41
1	A	112	PRO	CA-CB-CG	-7.59	90.07	104.50
1	J	315	ARG	NE-CZ-NH1	-7.59	113.91	121.50
1	D	143	ASN	N-CA-C	-7.59	104.16	113.50
1	M	334	VAL	CB-CA-C	7.59	120.66	110.42
1	J	157	CYS	CA-C-O	-7.57	111.92	120.32
1	G	71	ARG	NE-CZ-NH2	-7.57	112.39	119.20
1	I	150	ASP	CB-CA-C	-7.57	99.58	110.62
1	N	276	TYR	N-CA-C	7.57	118.55	107.88
1	K	53	LYS	N-CA-C	7.55	121.80	109.94
1	A	206	GLY	CA-C-N	-7.55	111.98	122.93
1	A	206	GLY	C-N-CA	-7.55	111.98	122.93
1	B	132	ALA	CA-C-N	-7.55	110.53	122.08
1	B	132	ALA	C-N-CA	-7.55	110.53	122.08
1	E	393	SER	N-CA-C	-7.55	104.06	113.20
1	J	186	PRO	O-C-N	7.55	124.78	121.31
1	N	80	PRO	N-CA-C	-7.55	103.28	113.40
1	B	170	GLY	CA-C-N	-7.55	112.48	123.05
1	B	170	GLY	C-N-CA	-7.55	112.48	123.05
1	J	157	CYS	N-CA-C	7.55	121.51	108.76
1	C	330	PHE	CA-C-N	-7.54	113.02	123.13
1	C	330	PHE	C-N-CA	-7.54	113.02	123.13
1	D	388	MET	N-CA-C	7.54	120.45	111.33
1	H	293	PRO	CA-N-CD	-7.53	101.46	112.00
1	C	181	GLN	CB-CA-C	7.53	118.53	110.17
1	K	180	VAL	N-CA-C	7.53	125.00	109.34
1	J	181	GLN	CB-CA-C	7.52	118.80	110.15
1	L	284	ALA	CA-C-N	-7.52	112.12	122.95
1	L	284	ALA	C-N-CA	-7.52	112.12	122.95
1	L	48	PRO	N-CA-C	7.52	123.42	113.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	276	TYR	N-CA-CB	-7.52	101.84	109.51
1	E	336	THR	N-CA-CB	7.52	121.61	110.33
1	C	180	VAL	CB-CA-C	-7.51	98.97	111.29
1	D	459	LEU	N-CA-C	-7.50	104.10	113.18
1	E	213	LEU	CA-C-O	7.50	127.89	119.41
1	B	108	GLY	N-CA-C	7.49	121.81	112.14
1	D	300	VAL	CA-C-O	7.49	129.18	120.71
1	C	115	VAL	N-CA-C	7.49	120.27	108.89
1	H	215	ALA	CA-C-O	-7.49	112.61	120.55
1	A	339	SER	N-CA-C	7.48	122.40	113.28
1	E	375	ILE	CB-CA-C	-7.48	100.33	110.42
1	O	48	PRO	N-CA-C	7.48	123.56	113.84
1	M	147	ILE	CG1-CB-CG2	-7.47	88.28	110.70
1	C	441	LEU	N-CA-C	-7.47	100.62	111.30
1	G	272	PRO	N-CD-CG	-7.46	92.00	103.20
1	K	398	ILE	CA-C-N	7.46	130.58	120.44
1	K	398	ILE	C-N-CA	7.46	130.58	120.44
1	B	224	ILE	CB-CA-C	-7.45	104.15	111.30
1	K	364	LEU	CA-C-O	7.45	128.14	120.24
1	G	62	VAL	N-CA-C	-7.44	103.09	109.19
1	B	464	LEU	N-CA-C	-7.44	103.10	111.14
1	B	22	VAL	N-CA-C	7.43	118.45	108.27
1	A	203	THR	CA-C-O	7.43	127.95	119.18
1	C	156	LEU	N-CA-C	7.43	120.75	109.23
1	C	285	ASN	N-CA-C	7.43	121.02	108.02
1	J	40	SER	N-CA-C	-7.43	103.20	111.82
1	A	106	GLU	CA-C-O	-7.43	111.14	120.20
1	I	381	ILE	CB-CG1-CD1	-7.42	98.21	113.80
1	L	290	ASN	N-CA-CB	7.42	118.66	110.35
1	N	300	VAL	CB-CA-C	-7.41	101.06	111.21
1	B	389	THR	N-CA-C	7.41	119.00	111.07
1	M	138	ASN	CA-C-N	-7.41	112.59	123.11
1	M	138	ASN	C-N-CA	-7.41	112.59	123.11
1	N	68	LEU	CA-C-N	-7.41	112.50	122.72
1	N	68	LEU	C-N-CA	-7.41	112.50	122.72
1	C	68	LEU	CA-CB-CG	-7.40	90.41	116.30
1	L	67	GLY	O-C-N	-7.40	113.08	122.70
1	H	441	LEU	N-CA-C	-7.39	102.50	112.26
1	F	47	HIS	CA-C-N	7.39	127.10	119.56
1	F	47	HIS	C-N-CA	7.39	127.10	119.56
1	I	157	CYS	N-CA-C	7.38	121.24	108.76
1	J	194	VAL	CB-CA-C	-7.38	103.25	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	313	LEU	CB-CG-CD2	7.38	132.85	110.70
1	D	247	PHE	N-CA-C	-7.38	105.45	114.75
1	F	189	GLU	CA-C-N	-7.38	110.95	121.50
1	F	189	GLU	C-N-CA	-7.38	110.95	121.50
1	N	201	VAL	CB-CA-C	-7.38	99.19	111.29
1	N	203	THR	O-C-N	7.38	130.27	122.23
1	N	294	THR	CA-CB-OG1	7.38	120.67	109.60
1	L	159	ILE	CG1-CB-CG2	-7.37	88.58	110.70
1	O	296	SER	CA-C-O	-7.37	111.13	120.27
1	B	52	ILE	N-CA-C	7.37	118.18	106.32
1	N	182	PRO	CA-CB-CG	-7.36	90.51	104.50
1	E	467	LYS	N-CA-C	-7.36	102.86	111.03
1	L	44	ALA	O-C-N	-7.36	114.54	123.30
1	H	181	GLN	CA-C-N	7.36	129.04	119.84
1	H	181	GLN	C-N-CA	7.36	129.04	119.84
1	D	170	GLY	CA-C-N	-7.36	113.28	122.84
1	D	170	GLY	C-N-CA	-7.36	113.28	122.84
1	H	81	ASN	N-CA-C	-7.35	104.41	113.15
1	B	202	ASP	CA-C-O	-7.35	113.35	121.87
1	F	384	THR	CB-CA-C	-7.35	95.76	110.30
1	F	144	ARG	NE-CZ-NH2	7.34	125.81	119.20
1	B	182	PRO	CB-CA-C	7.33	123.66	111.56
1	E	368	GLU	CA-CB-CG	-7.33	99.43	114.10
1	K	286	LEU	N-CA-C	7.33	121.13	110.42
1	K	118	SER	CA-C-O	-7.33	112.69	121.56
1	I	238	VAL	N-CA-C	-7.33	103.01	111.00
1	I	188	LEU	N-CA-C	-7.33	99.97	110.59
1	B	469	LEU	O-C-N	-7.32	113.26	122.27
1	F	320	ASN	N-CA-C	-7.32	99.68	110.52
1	O	447	TRP	CA-C-N	-7.32	111.86	122.19
1	O	447	TRP	C-N-CA	-7.32	111.86	122.19
1	L	42	LEU	CB-CG-CD2	7.32	132.66	110.70
1	L	319	HIS	CA-C-O	-7.32	113.13	120.82
1	K	300	VAL	CB-CA-C	-7.32	100.14	111.26
1	O	330	PHE	N-CA-C	7.32	120.94	107.99
1	F	107	VAL	CA-CB-CG1	-7.31	97.97	110.40
1	H	391	ILE	CA-CB-CG1	-7.31	97.97	110.40
1	F	266	THR	CB-CA-C	-7.31	97.17	109.53
1	G	452	LYS	N-CA-C	-7.31	102.70	111.69
1	M	442	LYS	N-CA-C	-7.31	102.29	112.45
1	K	449	VAL	N-CA-C	7.31	118.39	107.80
1	E	206	GLY	N-CA-C	-7.30	103.16	112.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	255	MET	CG-SD-CE	7.29	116.94	100.90
1	L	269	GLU	N-CA-CB	-7.29	98.10	111.37
1	G	27	TYR	CA-C-N	-7.29	113.70	123.10
1	G	27	TYR	C-N-CA	-7.29	113.70	123.10
1	E	175	CYS	CA-CB-SG	-7.28	97.66	114.40
1	A	389	THR	CA-CB-OG1	-7.28	98.69	109.60
1	K	136	ALA	N-CA-C	7.28	120.93	110.24
1	L	117	ILE	N-CA-CB	-7.27	98.48	111.93
1	K	70	TYR	N-CA-C	-7.27	98.91	109.59
1	F	114	GLY	CA-C-O	-7.27	114.50	121.62
1	K	163	PRO	CB-CA-C	-7.26	104.34	111.17
1	N	149	MET	CA-CB-CG	-7.26	99.57	114.10
1	O	123	LEU	CB-CG-CD2	-7.26	88.91	110.70
1	D	52	ILE	N-CA-C	7.26	118.26	107.15
1	K	472	LEU	CD1-CG-CD2	7.26	126.77	110.80
1	E	306	ILE	CB-CA-C	-7.26	101.77	110.84
1	N	165	ILE	CA-CB-CG1	-7.26	98.06	110.40
1	O	333	VAL	CA-CB-CG2	-7.25	98.07	110.40
1	B	48	PRO	N-CA-C	7.25	123.27	113.84
1	G	215	ALA	CA-C-O	7.25	128.30	120.10
1	J	70	TYR	N-CA-C	-7.25	97.42	109.46
1	J	164	PRO	CA-C-N	-7.25	113.25	123.11
1	J	164	PRO	C-N-CA	-7.25	113.25	123.11
1	K	219	GLU	N-CA-C	-7.25	102.73	113.61
1	J	262	ASN	CA-C-O	-7.25	112.50	120.33
1	A	22	VAL	N-CA-C	7.25	118.78	108.42
1	C	193	THR	CA-C-O	7.25	129.38	121.26
1	H	347	ALA	N-CA-C	7.25	119.92	110.43
1	N	224	ILE	N-CA-C	7.25	122.57	112.35
1	D	215	ALA	N-CA-C	-7.24	103.42	111.82
1	F	181	GLN	O-C-N	7.24	128.01	121.35
1	N	180	VAL	N-CA-C	7.24	124.40	109.34
1	O	264	ALA	N-CA-C	-7.24	100.78	110.55
1	O	63	PRO	N-CD-CG	-7.24	92.35	103.20
1	A	206	GLY	N-CA-C	-7.23	103.58	112.33
1	O	177	GLN	N-CA-C	-7.23	97.15	108.14
1	D	216	ASN	N-CA-C	7.23	121.00	111.75
1	M	186	PRO	N-CA-C	7.23	117.41	110.47
1	H	181	GLN	N-CA-CB	-7.23	99.46	110.01
1	B	72	VAL	N-CA-C	7.23	117.80	108.12
1	O	316	ALA	CA-C-O	-7.23	110.18	120.51
1	M	269	GLU	CA-C-N	-7.22	111.41	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	269	GLU	C-N-CA	-7.22	111.41	122.09
1	A	471	GLN	CA-C-O	-7.22	115.66	119.77
1	C	156	LEU	CB-CG-CD2	-7.21	89.07	110.70
1	M	128	ASP	CA-C-O	-7.21	112.83	121.05
1	F	83	PHE	N-CA-C	-7.20	100.55	110.35
1	J	377	GLN	CA-CB-CG	7.20	128.51	114.10
1	G	115	VAL	CB-CA-C	-7.20	99.73	110.82
1	K	22	VAL	N-CA-C	7.19	120.46	108.81
1	H	108	GLY	CA-C-O	-7.19	115.03	121.64
1	B	247	PHE	N-CA-C	-7.19	105.04	114.31
1	O	61	LEU	N-CA-C	-7.19	103.98	112.89
1	H	338	ARG	N-CA-C	-7.19	93.65	108.53
1	A	186	PRO	N-CA-C	7.18	119.46	110.70
1	L	271	VAL	CB-CA-C	-7.18	103.96	111.00
1	N	118	SER	CA-C-O	-7.18	112.71	121.11
1	L	180	VAL	CA-C-O	7.17	129.75	120.78
1	J	43	LEU	O-C-N	7.17	131.80	123.41
1	B	369	GLU	CA-C-O	-7.17	112.69	120.36
1	I	207	ALA	CA-C-O	-7.16	112.57	120.38
1	N	129	THR	N-CA-C	-7.16	104.00	114.39
1	N	264	ALA	CA-C-N	-7.16	111.37	122.69
1	N	264	ALA	C-N-CA	-7.16	111.37	122.69
1	G	401	ASP	N-CA-C	-7.16	102.52	111.11
1	L	372	LEU	O-C-N	-7.16	114.81	123.19
1	A	357	ASN	N-CA-C	7.15	126.04	110.80
1	G	326	GLY	N-CA-C	-7.15	105.85	115.36
1	K	170	GLY	CA-C-N	-7.15	112.63	123.07
1	K	170	GLY	C-N-CA	-7.15	112.63	123.07
1	M	163	PRO	CA-C-N	7.14	127.17	119.89
1	M	163	PRO	C-N-CA	7.14	127.17	119.89
1	E	191	ILE	N-CA-CB	-7.13	101.57	111.41
1	B	162	LYS	CA-C-N	-7.13	114.53	119.66
1	B	162	LYS	C-N-CA	-7.13	114.53	119.66
1	M	281	GLY	N-CA-C	-7.13	96.28	113.18
1	D	258	ARG	CA-C-O	-7.12	112.93	120.55
1	O	262	ASN	N-CA-CB	-7.12	99.55	110.65
1	B	215	ALA	N-CA-C	-7.11	104.07	112.89
1	I	178	VAL	CA-C-N	7.11	135.13	121.54
1	I	178	VAL	C-N-CA	7.11	135.13	121.54
1	O	374	PHE	N-CA-C	7.11	120.16	108.99
1	J	113	LEU	CA-C-O	7.11	129.12	121.16
1	A	160	GLY	CA-C-N	-7.11	111.37	122.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	160	GLY	C-N-CA	-7.11	111.37	122.67
1	G	193	THR	O-C-N	-7.11	115.52	123.48
1	K	162	LYS	CG-CD-CE	-7.11	94.96	111.30
1	F	251	ARG	NE-CZ-NH2	-7.10	112.81	119.20
1	A	196	GLN	CA-C-O	-7.10	113.00	121.66
1	B	182	PRO	CA-CB-CG	-7.10	91.00	104.50
1	M	151	TYR	CA-C-N	-7.10	110.89	120.90
1	M	151	TYR	C-N-CA	-7.10	110.89	120.90
1	C	149	MET	CA-C-O	-7.10	113.83	121.14
1	J	75	ILE	CB-CA-C	-7.10	102.11	110.91
1	K	381	ILE	N-CA-CB	-7.10	101.16	111.52
1	J	147	ILE	CA-CB-CG1	-7.09	98.34	110.40
1	O	71	ARG	NE-CZ-NH2	-7.09	112.81	119.20
1	O	322	GLY	N-CA-C	-7.09	96.37	113.18
1	C	255	MET	CG-SD-CE	7.09	116.50	100.90
1	K	165	ILE	N-CA-C	7.09	117.99	106.72
1	H	51	PRO	N-CA-C	7.09	121.50	110.80
1	I	208	MET	CG-SD-CE	7.09	116.49	100.90
1	J	148	SER	O-C-N	-7.09	115.17	123.25
1	N	196	GLN	N-CA-C	7.08	120.11	110.55
1	J	224	ILE	CB-CA-C	-7.08	104.83	111.06
1	E	157	CYS	N-CA-C	7.08	120.72	108.76
1	O	173	SER	CA-C-N	7.08	128.68	119.84
1	O	173	SER	C-N-CA	7.08	128.68	119.84
1	B	266	THR	N-CA-C	7.07	120.95	110.48
1	E	141	VAL	CB-CA-C	-7.07	100.09	110.62
1	A	323	ILE	CB-CA-C	-7.07	104.31	111.80
1	B	213	LEU	N-CA-C	-7.07	104.93	113.97
1	K	463	PRO	N-CD-CG	-7.06	92.61	103.20
1	L	338	ARG	NE-CZ-NH2	7.06	125.56	119.20
1	M	75	ILE	CG1-CB-CG2	-7.06	89.52	110.70
1	D	379	CYS	N-CA-C	7.06	120.11	109.95
1	M	294	THR	CB-CA-C	-7.06	98.92	108.87
1	E	254	GLN	N-CA-C	7.05	120.06	108.99
1	L	70	TYR	N-CA-C	-7.05	99.39	109.96
1	N	375	ILE	CB-CA-C	-7.04	100.54	110.12
1	L	286	LEU	N-CA-C	7.04	120.17	110.24
1	D	159	ILE	CA-CB-CG2	-7.03	98.56	110.50
1	C	47	HIS	CA-C-N	7.02	126.65	119.56
1	C	47	HIS	C-N-CA	7.02	126.65	119.56
1	J	257	VAL	CA-CB-CG2	-7.02	98.46	110.40
1	M	247	PHE	N-CA-C	-7.02	105.33	114.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	80	PRO	N-CA-C	-7.02	103.99	113.40
1	A	154	THR	CA-C-O	-7.02	112.80	120.24
1	D	224	ILE	N-CA-C	7.02	119.02	111.58
1	E	326	GLY	N-CA-C	-7.02	105.38	115.27
1	M	299	MET	CB-CG-SD	-7.02	91.65	112.70
1	D	70	TYR	N-CA-C	-7.01	100.06	110.23
1	O	198	GLY	N-CA-C	7.01	125.31	115.43
1	N	68	LEU	CA-CB-CG	-7.01	91.78	116.30
1	G	334	VAL	N-CA-C	-7.00	97.34	107.78
1	L	208	MET	N-CA-C	7.00	117.89	108.23
1	O	109	ARG	NH1-CZ-NH2	-7.00	110.20	119.30
1	B	271	VAL	CA-C-O	7.00	125.21	119.47
1	C	140	GLY	CA-C-N	-7.00	111.56	122.69
1	C	140	GLY	C-N-CA	-7.00	111.56	122.69
1	L	228	ILE	CG1-CB-CG2	-7.00	89.70	110.70
1	I	193	THR	N-CA-CB	-6.99	100.73	111.56
1	L	208	MET	CG-SD-CE	6.99	116.27	100.90
1	O	464	LEU	CB-CA-C	-6.99	99.24	110.84
1	A	257	VAL	N-CA-C	6.98	118.03	109.30
1	B	440	PRO	CB-CA-C	6.98	121.87	111.68
1	I	166	GLY	N-CA-C	6.98	123.41	112.31
1	B	263	ARG	CA-C-O	6.98	128.83	120.81
1	H	292	PHE	CA-C-N	6.97	128.56	119.84
1	H	292	PHE	C-N-CA	6.97	128.56	119.84
1	N	75	ILE	N-CA-C	6.97	118.89	108.23
1	N	22	VAL	N-CA-C	6.96	120.46	108.90
1	J	190	LEU	CA-C-N	-6.96	113.31	122.99
1	J	190	LEU	C-N-CA	-6.96	113.31	122.99
1	B	236	LYS	CA-C-O	-6.96	113.11	120.55
1	C	318	GLY	N-CA-C	-6.96	102.63	112.37
1	A	336	THR	CA-C-O	6.95	126.79	119.14
1	C	25	ASP	N-CA-C	-6.95	103.91	112.38
1	K	188	LEU	N-CA-C	-6.95	101.17	110.55
1	I	226	THR	CB-CA-C	-6.94	98.02	110.37
1	M	212	THR	N-CA-C	6.94	122.86	113.97
1	C	117	ILE	CB-CA-C	6.94	119.51	110.91
1	C	466	ARG	NE-CZ-NH1	-6.94	114.56	121.50
1	K	258	ARG	NE-CZ-NH1	-6.94	114.56	121.50
1	M	313	LEU	N-CA-C	6.94	120.41	112.57
1	N	270	ASN	N-CA-C	6.94	120.98	109.46
1	A	241	PRO	CA-CB-CG	-6.94	91.32	104.50
1	D	141	VAL	CA-CB-CG1	-6.94	98.61	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	33	ILE	N-CA-C	6.94	117.64	107.37
1	O	147	ILE	CA-C-O	-6.94	112.90	120.67
1	A	64	LYS	CA-CB-CG	-6.93	100.23	114.10
1	N	106	GLU	CA-C-O	-6.93	110.88	120.52
1	O	336	THR	N-CA-C	-6.93	104.96	113.41
1	A	152	LYS	CG-CD-CE	-6.93	95.37	111.30
1	D	266	THR	CB-CA-C	-6.92	96.81	109.54
1	D	211	THR	N-CA-C	-6.92	104.10	112.54
1	F	186	PRO	N-CA-C	6.92	119.14	110.70
1	L	356	LYS	CD-CE-NZ	-6.91	89.77	111.90
1	A	180	VAL	N-CA-C	6.91	123.71	109.34
1	B	107	VAL	CB-CA-C	-6.91	105.48	113.22
1	H	97	ARG	O-C-N	6.91	131.70	123.27
1	I	211	THR	CA-C-N	-6.91	111.38	122.23
1	I	211	THR	C-N-CA	-6.91	111.38	122.23
1	A	317	GLN	CA-C-N	-6.91	114.28	122.16
1	A	317	GLN	C-N-CA	-6.91	114.28	122.16
1	C	250	LEU	CB-CG-CD1	-6.91	89.97	110.70
1	L	22	VAL	N-CA-C	6.91	120.00	108.81
1	N	204	GLY	O-C-N	6.90	131.67	122.70
1	H	192	ASN	N-CA-C	-6.90	99.73	110.42
1	M	374	PHE	N-CA-C	6.90	119.89	109.41
1	M	48	PRO	CB-CA-C	6.89	122.99	111.21
1	A	157	CYS	CA-C-O	-6.89	112.33	120.60
1	L	73	PHE	N-CA-C	-6.89	97.74	109.24
1	C	387	VAL	N-CA-C	-6.88	104.48	110.74
1	A	472	LEU	N-CA-CB	6.88	122.19	110.50
1	F	124	ASN	CA-C-O	6.88	129.71	121.66
1	F	176	THR	OG1-CB-CG2	6.88	123.06	109.30
1	I	133	SER	N-CA-C	-6.88	104.42	114.39
1	F	297	GLY	N-CA-C	-6.88	96.88	113.18
1	B	319	HIS	N-CA-C	6.87	118.77	111.28
1	F	264	ALA	N-CA-C	-6.87	101.95	110.41
1	I	117	ILE	N-CA-CB	-6.87	100.17	111.44
1	N	238	VAL	N-CA-C	-6.87	103.51	111.00
1	A	368	GLU	CA-C-N	-6.87	113.32	123.00
1	A	368	GLU	C-N-CA	-6.87	113.32	123.00
1	I	174	PRO	O-C-N	6.87	131.91	122.64
1	K	330	PHE	N-CA-C	6.87	121.49	107.69
1	H	300	VAL	CB-CA-C	-6.86	100.95	111.31
1	E	254	GLN	CA-C-O	-6.86	113.31	120.99
1	F	222	LEU	CA-C-N	-6.86	108.90	121.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	222	LEU	C-N-CA	-6.86	108.90	121.52
1	N	36	HIS	CA-C-O	-6.86	113.41	121.16
1	N	191	ILE	N-CA-C	6.86	117.99	108.12
1	E	130	GLU	N-CA-C	-6.85	102.89	111.11
1	O	159	ILE	N-CA-C	6.85	117.70	108.11
1	B	107	VAL	CA-C-O	-6.85	116.67	122.63
1	C	186	PRO	N-CA-CB	-6.84	99.36	103.19
1	G	346	ALA	CA-C-O	-6.84	113.31	121.66
1	B	463	PRO	CA-CB-CG	-6.84	91.51	104.50
1	G	263	ARG	CD-NE-CZ	-6.84	114.83	124.40
1	G	226	THR	N-CA-C	6.83	120.51	112.72
1	H	271	VAL	CA-C-O	6.83	126.38	119.82
1	B	83	PHE	N-CA-C	-6.83	101.06	110.35
1	H	289	SER	N-CA-CB	-6.83	99.94	110.46
1	N	21	VAL	CB-CA-C	-6.83	101.51	111.68
1	H	139	ALA	CA-C-O	-6.83	113.47	120.84
1	L	249	TYR	CA-C-O	-6.82	111.82	120.14
1	C	50	PHE	N-CA-C	6.82	114.36	108.22
1	C	155	GLN	CA-C-O	6.82	127.76	120.46
1	N	200	MET	N-CA-C	6.82	119.86	108.20
1	F	22	VAL	N-CA-C	6.82	117.35	108.35
1	G	467	LYS	CD-CE-NZ	6.82	133.72	111.90
1	G	319	HIS	N-CA-C	6.81	119.33	111.02
1	H	298	SER	N-CA-CB	-6.81	100.98	110.25
1	J	187	PRO	CB-CA-C	-6.80	105.21	111.40
1	L	22	VAL	CB-CA-C	-6.80	98.53	110.71
1	M	150	ASP	CB-CG-OD2	6.80	134.05	118.40
1	O	167	GLU	N-CA-C	-6.80	98.38	108.79
1	N	392	HIS	N-CA-C	-6.80	103.64	112.68
1	M	51	PRO	N-CA-C	6.80	121.06	110.80
1	I	50	PHE	CA-C-N	6.79	126.55	119.76
1	I	50	PHE	C-N-CA	6.79	126.55	119.76
1	I	468	PHE	N-CA-C	6.79	119.30	111.02
1	K	364	LEU	O-C-N	-6.79	115.33	123.27
1	D	399	LEU	O-C-N	6.78	129.06	122.07
1	H	191	ILE	CB-CG1-CD1	-6.78	99.55	113.80
1	I	137	ALA	N-CA-C	-6.78	100.45	110.48
1	O	292	PHE	CB-CA-C	6.78	119.28	109.45
1	A	159	ILE	CA-C-O	6.78	127.51	120.39
1	D	298	SER	N-CA-CB	-6.78	101.03	110.25
1	L	130	GLU	N-CA-C	-6.78	103.97	111.36
1	H	162	LYS	CA-C-N	-6.77	113.41	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	162	LYS	C-N-CA	-6.77	113.41	120.38
1	I	388	MET	CG-SD-CE	6.77	115.80	100.90
1	O	240	GLU	CG-CD-OE2	-6.77	102.83	118.40
1	M	68	LEU	CA-CB-CG	-6.77	92.60	116.30
1	G	463	PRO	CB-CG-CD	-6.77	84.44	106.10
1	O	296	SER	CB-CA-C	-6.77	102.55	111.42
1	B	370	TYR	CA-C-O	-6.77	113.54	121.46
1	D	60	ILE	CA-CB-CG1	-6.77	98.89	110.40
1	I	185	CYS	CA-C-N	6.77	127.35	120.38
1	I	185	CYS	C-N-CA	6.77	127.35	120.38
1	M	164	PRO	CA-C-O	-6.77	113.85	121.43
1	C	170	GLY	CA-C-N	-6.76	113.77	122.77
1	C	170	GLY	C-N-CA	-6.76	113.77	122.77
1	D	227	SER	N-CA-C	6.76	121.30	109.80
1	K	339	SER	N-CA-C	6.76	121.54	113.16
1	N	365	ARG	NE-CZ-NH2	-6.76	113.11	119.20
1	O	378	LEU	CB-CG-CD2	-6.76	90.42	110.70
1	G	365	ARG	CB-CG-CD	-6.76	95.76	111.30
1	I	255	MET	CG-SD-CE	6.76	115.77	100.90
1	M	440	PRO	N-CA-C	-6.76	105.72	114.03
1	N	261	PHE	CA-C-O	6.76	128.63	121.33
1	H	277	ILE	CB-CG1-CD1	-6.75	99.61	113.80
1	G	310	PRO	CA-C-N	-6.75	113.68	123.00
1	G	310	PRO	C-N-CA	-6.75	113.68	123.00
1	C	260	LEU	CA-C-O	-6.75	112.83	120.32
1	D	362	GLU	CA-C-O	6.75	127.74	120.38
1	I	143	ASN	N-CA-C	-6.75	104.62	112.92
1	D	194	VAL	N-CA-C	6.75	118.53	108.54
1	G	441	LEU	N-CA-C	-6.75	102.36	111.87
1	L	449	VAL	N-CA-C	6.74	117.59	107.75
1	J	147	ILE	CB-CA-C	-6.74	100.44	110.82
1	B	122	LEU	N-CA-C	6.74	118.04	108.54
1	J	467	LYS	N-CA-C	-6.74	103.18	111.40
1	D	203	THR	OG1-CB-CG2	6.74	122.77	109.30
1	K	253	GLU	N-CA-C	6.74	120.38	109.40
1	I	22	VAL	N-CA-C	6.73	117.24	108.35
1	L	165	ILE	O-C-N	6.73	130.18	123.18
1	L	176	THR	CB-CA-C	-6.73	100.44	110.67
1	A	285	ASN	CA-C-N	-6.73	111.33	120.82
1	A	285	ASN	C-N-CA	-6.73	111.33	120.82
1	G	283	THR	CA-C-N	-6.73	111.44	122.54
1	G	283	THR	C-N-CA	-6.73	111.44	122.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	264	ALA	CA-C-N	-6.73	113.61	122.63
1	J	264	ALA	C-N-CA	-6.73	113.61	122.63
1	N	107	VAL	CA-C-N	-6.73	113.80	120.60
1	N	107	VAL	C-N-CA	-6.73	113.80	120.60
1	C	284	ALA	CA-C-N	-6.73	113.25	123.07
1	C	284	ALA	C-N-CA	-6.73	113.25	123.07
1	J	163	PRO	CB-CG-CD	-6.73	84.57	106.10
1	H	178	VAL	O-C-N	6.73	130.98	122.57
1	K	439	ASP	CA-C-O	6.73	123.66	119.29
1	K	50	PHE	CA-C-N	6.72	130.34	120.46
1	K	50	PHE	C-N-CA	6.72	130.34	120.46
1	D	144	ARG	CG-CD-NE	-6.72	97.21	112.00
1	D	66	SER	CA-C-N	-6.72	108.24	121.41
1	D	66	SER	C-N-CA	-6.72	108.24	121.41
1	D	73	PHE	N-CA-C	6.72	120.43	110.48
1	E	209	ASP	N-CA-C	-6.72	97.46	108.41
1	G	65	VAL	N-CA-CB	-6.72	100.15	111.23
1	D	331	VAL	CA-CB-CG1	-6.72	98.98	110.40
1	K	149	MET	CA-C-O	-6.71	114.00	121.05
1	E	22	VAL	N-CA-C	6.71	119.80	108.86
1	B	267	VAL	CA-C-O	-6.71	112.39	120.78
1	G	139	ALA	CA-C-O	-6.71	113.56	120.54
1	E	211	THR	CA-C-N	-6.71	111.82	122.29
1	E	211	THR	C-N-CA	-6.71	111.82	122.29
1	I	456	SER	CA-CB-OG	-6.71	97.68	111.10
1	N	27	TYR	CA-C-N	-6.71	111.84	122.64
1	N	27	TYR	C-N-CA	-6.71	111.84	122.64
1	A	306	ILE	CA-CB-CG1	-6.70	99.00	110.40
1	E	274	ASP	N-CA-C	-6.70	103.30	113.89
1	E	281	GLY	N-CA-C	-6.70	97.29	113.18
1	O	271	VAL	CA-C-N	6.70	126.66	119.76
1	O	271	VAL	C-N-CA	6.70	126.66	119.76
1	L	117	ILE	CA-C-N	-6.70	111.64	122.36
1	L	117	ILE	C-N-CA	-6.70	111.64	122.36
1	D	226	THR	CB-CA-C	-6.70	99.12	110.64
1	L	372	LEU	CA-CB-CG	-6.70	92.86	116.30
1	N	187	PRO	CB-CA-C	-6.70	105.30	111.40
1	A	255	MET	CB-CA-C	-6.70	98.05	111.17
1	F	359	ASN	N-CA-C	-6.70	103.57	113.61
1	G	382	THR	CA-C-N	-6.70	112.86	122.77
1	G	382	THR	C-N-CA	-6.70	112.86	122.77
1	H	106	GLU	CA-C-O	-6.70	111.21	120.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	112	PRO	N-CD-CG	-6.70	93.16	103.20
1	L	148	SER	CA-C-O	-6.69	114.01	121.51
1	N	468	PHE	N-CA-C	6.69	125.05	110.80
1	F	27	TYR	CA-C-N	-6.69	114.47	123.10
1	F	27	TYR	C-N-CA	-6.69	114.47	123.10
1	L	445	THR	N-CA-C	6.69	119.80	108.90
1	N	181	GLN	O-C-N	6.69	127.50	121.35
1	J	31	THR	CA-C-O	-6.69	114.06	121.89
1	E	194	VAL	N-CA-C	6.68	117.65	108.84
1	N	459	LEU	N-CA-C	-6.68	105.24	113.19
1	A	237	MET	N-CA-C	6.67	119.12	111.11
1	E	347	ALA	O-C-N	6.67	130.40	122.79
1	L	309	LYS	CB-CA-C	6.67	117.91	108.76
1	N	288	SER	N-CA-C	6.67	120.52	110.64
1	N	368	GLU	CA-C-N	-6.67	114.16	122.84
1	N	368	GLU	C-N-CA	-6.67	114.16	122.84
1	A	147	ILE	CB-CA-C	-6.67	98.47	110.48
1	B	262	ASN	O-C-N	-6.67	115.73	123.27
1	G	163	PRO	CA-C-N	6.67	126.64	120.03
1	G	163	PRO	C-N-CA	6.67	126.64	120.03
1	L	199	ASP	O-C-N	-6.67	115.19	122.79
1	K	66	SER	N-CA-C	6.67	120.39	109.85
1	B	182	PRO	CB-CG-CD	-6.67	84.77	106.10
1	D	176	THR	O-C-N	6.66	131.45	122.59
1	G	167	GLU	N-CA-C	-6.66	99.03	108.96
1	B	460	ASP	N-CA-C	-6.66	105.02	113.01
1	F	93	PRO	CA-C-N	-6.66	110.91	122.36
1	F	93	PRO	C-N-CA	-6.66	110.91	122.36
1	I	443	LYS	N-CA-C	-6.66	105.03	113.02
1	N	159	ILE	CG1-CB-CG2	-6.65	90.75	110.70
1	A	250	LEU	CD1-CG-CD2	-6.65	96.17	110.80
1	K	105	VAL	CA-CB-CG1	-6.65	99.10	110.40
1	D	337	THR	N-CA-C	6.64	124.95	110.80
1	B	83	PHE	O-C-N	6.64	130.98	122.81
1	D	379	CYS	CA-CB-SG	-6.64	99.12	114.40
1	I	134	ALA	N-CA-C	-6.64	98.43	108.52
1	O	375	ILE	CA-C-O	6.64	126.98	120.27
1	D	152	LYS	CA-C-O	6.64	128.45	121.15
1	J	213	LEU	CA-C-O	6.63	127.07	119.18
1	C	60	ILE	N-CA-C	6.63	118.08	107.73
1	M	279	GLY	O-C-N	-6.63	114.08	122.70
1	O	24	THR	CA-C-O	6.63	127.59	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	202	ASP	CA-C-O	-6.63	113.85	121.47
1	D	176	THR	CA-C-N	6.63	134.20	121.54
1	D	176	THR	C-N-CA	6.63	134.20	121.54
1	H	381	ILE	O-C-N	-6.63	116.60	123.03
1	C	63	PRO	CA-C-N	-6.62	112.11	121.72
1	C	63	PRO	C-N-CA	-6.62	112.11	121.72
1	L	299	MET	CB-CA-C	-6.62	100.85	110.06
1	N	203	THR	CB-CA-C	-6.62	98.36	109.75
1	E	109	ARG	NE-CZ-NH2	6.62	125.16	119.20
1	E	257	VAL	CB-CA-C	-6.62	103.33	111.08
1	M	148	SER	O-C-N	-6.62	116.90	123.46
1	A	312	TRP	CA-C-O	6.62	127.85	120.43
1	E	121	PRO	CA-C-N	-6.62	113.92	122.79
1	E	121	PRO	C-N-CA	-6.62	113.92	122.79
1	C	109	ARG	NE-CZ-NH2	6.62	125.16	119.20
1	H	115	VAL	CA-C-O	6.62	128.08	120.67
1	F	467	LYS	CG-CD-CE	-6.62	96.08	111.30
1	B	27	TYR	CA-C-N	-6.61	113.80	122.99
1	B	27	TYR	C-N-CA	-6.61	113.80	122.99
1	A	92	ASN	N-CA-C	6.61	121.54	108.59
1	K	108	GLY	O-C-N	-6.61	116.39	122.93
1	B	364	LEU	CD1-CG-CD2	-6.60	96.28	110.80
1	H	170	GLY	CA-C-N	-6.60	113.99	122.77
1	H	170	GLY	C-N-CA	-6.60	113.99	122.77
1	K	27	TYR	N-CA-C	6.60	121.16	113.18
1	O	457	ALA	CA-C-N	-6.60	112.16	121.99
1	O	457	ALA	C-N-CA	-6.60	112.16	121.99
1	I	266	THR	N-CA-C	6.59	120.04	110.28
1	B	245	SER	CA-C-N	-6.59	112.46	122.81
1	B	245	SER	C-N-CA	-6.59	112.46	122.81
1	G	71	ARG	NE-CZ-NH1	6.59	128.09	121.50
1	J	258	ARG	N-CA-C	-6.59	104.88	113.12
1	B	319	HIS	CA-C-O	-6.59	113.56	120.55
1	G	257	VAL	N-CA-C	6.59	117.93	107.98
1	M	273	ASP	N-CA-C	6.59	121.03	113.19
1	J	64	LYS	N-CA-C	6.59	118.64	109.15
1	B	201	VAL	CB-CA-C	-6.59	100.49	111.29
1	L	372	LEU	N-CA-CB	-6.58	99.66	110.52
1	M	51	PRO	CB-CG-CD	-6.58	85.04	106.10
1	M	158	LEU	N-CA-CB	6.58	122.34	111.08
1	C	144	ARG	NE-CZ-NH2	-6.58	113.28	119.20
1	J	321	ASN	N-CA-C	6.58	121.25	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	103	VAL	CA-CB-CG1	-6.58	99.22	110.40
1	F	72	VAL	N-CA-C	6.57	123.01	109.34
1	M	47	HIS	CA-C-O	6.57	126.39	119.69
1	O	448	GLU	CA-C-O	-6.57	113.11	120.54
1	D	165	ILE	CA-CB-CG1	-6.57	99.23	110.40
1	F	98	LEU	N-CA-C	6.57	120.20	109.76
1	F	21	VAL	CB-CA-C	-6.57	101.39	111.31
1	O	319	HIS	N-CA-C	6.57	118.32	111.03
1	C	355	TYR	N-CA-C	-6.56	100.56	110.28
1	F	350	THR	N-CA-C	-6.56	105.14	113.02
1	L	63	PRO	CA-C-N	-6.56	111.76	120.95
1	L	63	PRO	C-N-CA	-6.56	111.76	120.95
1	I	252	ARG	N-CA-CB	-6.56	100.76	110.86
1	H	354	THR	CA-C-O	6.56	128.66	121.06
1	N	379	CYS	CA-CB-SG	-6.56	99.32	114.40
1	C	286	LEU	N-CA-C	6.55	119.87	110.10
1	E	180	VAL	N-CA-C	6.55	122.97	109.34
1	H	312	TRP	N-CA-C	6.55	118.83	108.67
1	O	300	VAL	CB-CA-C	-6.55	102.63	111.15
1	G	129	THR	CA-CB-OG1	-6.55	99.77	109.60
1	G	445	THR	N-CA-C	6.55	119.20	108.52
1	K	266	THR	N-CA-C	6.55	119.74	110.50
1	A	176	THR	N-CA-C	6.55	120.50	108.58
1	C	142	ASP	N-CA-C	6.55	118.57	110.91
1	K	65	VAL	N-CA-CB	-6.55	104.56	112.35
1	N	221	PRO	CA-C-N	6.55	129.94	120.38
1	N	221	PRO	C-N-CA	6.55	129.94	120.38
1	B	398	ILE	CB-CG1-CD1	-6.55	100.05	113.80
1	L	181	GLN	N-CA-C	-6.55	96.91	108.69
1	N	115	VAL	CA-CB-CG1	-6.55	99.27	110.40
1	A	302	SER	N-CA-C	-6.54	103.77	111.03
1	E	256	PHE	O-C-N	-6.54	116.39	123.26
1	N	139	ALA	CA-C-O	-6.54	114.06	121.39
1	C	298	SER	O-C-N	6.54	129.90	121.79
1	E	47	HIS	CA-C-N	6.54	126.23	119.82
1	E	47	HIS	C-N-CA	6.54	126.23	119.82
1	M	60	ILE	CA-C-O	6.54	128.70	121.04
1	A	234	TYR	N-CA-C	-6.54	103.84	110.97
1	B	31	THR	OG1-CB-CG2	6.54	122.38	109.30
1	C	348	ILE	CA-C-O	6.54	125.47	119.20
1	J	375	ILE	CA-C-O	6.53	126.71	120.31
1	K	300	VAL	N-CA-C	6.53	118.01	109.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	175	CYS	N-CA-CB	-6.53	99.47	110.83
1	I	177	GLN	CA-C-N	-6.53	110.22	121.97
1	I	177	GLN	C-N-CA	-6.53	110.22	121.97
1	E	101	ALA	CA-C-N	-6.53	113.99	123.00
1	E	101	ALA	C-N-CA	-6.53	113.99	123.00
1	A	298	SER	CA-CB-OG	-6.53	98.04	111.10
1	G	250	LEU	CA-C-N	6.53	133.06	122.81
1	G	250	LEU	C-N-CA	6.53	133.06	122.81
1	K	199	ASP	N-CA-CB	6.53	119.59	110.26
1	I	330	PHE	N-CA-C	6.52	119.88	107.75
1	K	117	ILE	CA-C-O	-6.52	113.61	120.39
1	G	368	GLU	CA-C-N	-6.52	113.81	123.00
1	G	368	GLU	C-N-CA	-6.52	113.81	123.00
1	H	460	ASP	CB-CG-OD1	6.52	133.39	118.40
1	K	220	VAL	CA-C-N	6.52	127.99	119.84
1	K	220	VAL	C-N-CA	6.52	127.99	119.84
1	H	399	LEU	CA-C-O	-6.52	113.99	120.70
1	M	175	CYS	N-CA-C	-6.52	97.15	108.69
1	B	69	GLN	O-C-N	-6.52	115.55	123.30
1	D	280	SER	N-CA-C	-6.51	97.62	108.75
1	K	373	GLN	CA-C-O	-6.51	113.67	120.70
1	E	343	SER	CA-CB-OG	6.51	124.12	111.10
1	H	456	SER	CA-C-N	-6.51	111.59	120.44
1	H	456	SER	C-N-CA	-6.51	111.59	120.44
1	N	266	THR	CA-C-N	-6.51	112.13	120.98
1	N	266	THR	C-N-CA	-6.51	112.13	120.98
1	B	271	VAL	N-CA-C	-6.50	103.04	108.63
1	F	169	TRP	CA-C-O	-6.50	114.05	121.72
1	M	258	ARG	N-CA-C	-6.50	104.28	112.93
1	O	441	LEU	CD1-CG-CD2	6.50	125.10	110.80
1	M	23	SER	N-CA-C	-6.50	100.81	110.23
1	E	70	TYR	N-CA-C	-6.49	100.42	110.10
1	I	375	ILE	CA-C-O	6.49	126.68	120.25
1	J	92	ASN	CA-C-O	-6.49	113.52	119.62
1	G	173	SER	CA-C-N	6.49	127.96	119.84
1	G	173	SER	C-N-CA	6.49	127.96	119.84
1	F	133	SER	N-CA-C	-6.49	105.94	114.31
1	M	308	ASN	N-CA-C	-6.49	99.70	113.20
1	B	356	LYS	CG-CD-CE	-6.48	96.40	111.30
1	G	115	VAL	CA-C-O	6.48	129.88	121.32
1	M	246	LEU	CA-C-N	-6.48	110.96	122.42
1	M	246	LEU	C-N-CA	-6.48	110.96	122.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	395	ASN	CB-CA-C	-6.47	102.04	111.23
1	F	125	LYS	CA-C-O	6.47	127.10	120.24
1	A	333	VAL	CA-C-O	-6.47	114.35	121.92
1	C	295	PRO	N-CD-CG	-6.47	93.49	103.20
1	F	331	VAL	N-CA-C	6.47	118.12	108.54
1	F	171	LYS	CA-C-O	6.47	127.38	120.46
1	O	177	GLN	CB-CG-CD	-6.47	101.60	112.60
1	I	205	PHE	N-CA-C	6.47	120.09	112.72
1	N	165	ILE	N-CA-CB	-6.47	103.75	111.90
1	O	98	LEU	N-CA-C	6.47	119.85	110.28
1	E	103	VAL	CB-CA-C	-6.46	105.09	111.30
1	O	323	ILE	CB-CA-C	-6.46	105.98	113.22
1	C	224	ILE	CG1-CB-CG2	-6.46	91.31	110.70
1	D	337	THR	CB-CA-C	-6.46	97.56	110.42
1	J	117	ILE	N-CA-CB	-6.46	102.46	111.25
1	E	181	GLN	N-CA-C	-6.46	99.22	109.04
1	H	306	ILE	N-CA-C	-6.46	103.53	113.16
1	F	347	ALA	N-CA-C	6.46	119.05	110.53
1	L	136	ALA	N-CA-C	6.46	119.35	110.24
1	H	144	ARG	CG-CD-NE	-6.46	97.80	112.00
1	N	301	THR	CA-C-O	6.46	127.49	120.32
1	E	163	PRO	N-CA-CB	-6.45	99.86	103.22
1	E	359	ASN	CA-C-O	6.45	127.00	119.32
1	F	129	THR	CB-CA-C	-6.45	99.27	110.17
1	J	62	VAL	CG1-CB-CG2	-6.45	96.61	110.80
1	M	331	VAL	CA-CB-CG2	-6.45	99.44	110.40
1	O	201	VAL	CB-CA-C	-6.45	100.72	111.29
1	H	50	PHE	O-C-N	6.45	126.36	121.65
1	M	331	VAL	CA-C-O	-6.45	113.56	120.59
1	B	230	LYS	CD-CE-NZ	-6.44	91.28	111.90
1	I	172	GLY	N-CA-C	-6.44	97.91	113.18
1	I	209	ASP	N-CA-C	-6.44	96.75	108.02
1	J	398	ILE	CB-CA-C	-6.44	100.72	111.29
1	C	177	GLN	CB-CG-CD	-6.44	101.65	112.60
1	I	290	ASN	N-CA-C	6.44	119.63	109.39
1	C	146	CYS	CB-CA-C	-6.44	100.19	110.81
1	M	151	TYR	N-CA-C	6.44	118.86	110.43
1	F	206	GLY	CA-C-N	-6.44	113.92	122.99
1	F	206	GLY	C-N-CA	-6.44	113.92	122.99
1	L	140	GLY	CA-C-N	-6.44	114.18	123.06
1	L	140	GLY	C-N-CA	-6.44	114.18	123.06
1	A	195	ILE	CB-CA-C	6.43	118.36	111.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	154	THR	CB-CA-C	-6.43	101.22	110.62
1	M	366	HIS	CA-C-N	-6.43	116.42	121.82
1	M	366	HIS	C-N-CA	-6.43	116.42	121.82
1	M	22	VAL	CB-CA-C	-6.43	100.74	111.29
1	J	300	VAL	CA-CB-CG2	-6.43	99.47	110.40
1	J	93	PRO	N-CA-C	6.43	125.71	112.47
1	N	292	PHE	CA-C-N	6.43	127.87	119.84
1	N	292	PHE	C-N-CA	6.43	127.87	119.84
1	N	88	THR	CA-C-O	6.42	125.84	118.97
1	K	224	ILE	CB-CA-C	-6.42	102.59	111.65
1	A	241	PRO	N-CD-CG	-6.42	93.57	103.20
1	A	311	TYR	CA-C-O	-6.42	113.86	120.54
1	K	82	LYS	N-CA-C	-6.42	104.14	114.09
1	J	115	VAL	CA-C-N	-6.42	116.58	122.80
1	J	115	VAL	C-N-CA	-6.42	116.58	122.80
1	C	305	GLN	N-CA-C	6.41	119.67	110.24
1	F	176	THR	N-CA-C	6.41	124.46	110.80
1	J	117	ILE	CB-CA-C	6.41	120.39	110.83
1	J	464	LEU	CD1-CG-CD2	-6.41	96.69	110.80
1	M	51	PRO	CA-C-O	6.41	128.34	121.03
1	D	186	PRO	O-C-N	-6.41	118.36	121.31
1	N	51	PRO	N-CA-C	6.41	121.00	110.55
1	E	168	HIS	O-C-N	-6.41	117.12	123.46
1	L	77	LEU	CA-C-N	6.41	126.17	119.76
1	L	77	LEU	C-N-CA	6.41	126.17	119.76
1	N	310	PRO	CA-C-N	-6.40	114.25	122.77
1	N	310	PRO	C-N-CA	-6.40	114.25	122.77
1	I	77	LEU	CA-C-N	6.40	126.74	119.83
1	I	77	LEU	C-N-CA	6.40	126.74	119.83
1	H	333	VAL	CB-CA-C	-6.40	101.16	110.63
1	L	341	ASN	N-CA-C	-6.40	98.47	108.90
1	C	294	THR	N-CA-C	-6.39	101.73	109.72
1	F	40	SER	CA-CB-OG	6.39	123.89	111.10
1	M	222	LEU	O-C-N	-6.39	115.34	122.12
1	K	132	ALA	N-CA-C	-6.39	99.75	109.85
1	K	341	ASN	N-CA-C	-6.39	98.10	108.52
1	M	130	GLU	CA-C-O	-6.39	113.77	120.55
1	N	73	PHE	CA-C-N	-6.39	113.76	122.77
1	N	73	PHE	C-N-CA	-6.39	113.76	122.77
1	G	232	PRO	CB-CA-C	-6.39	103.52	111.64
1	D	376	PHE	N-CA-C	6.39	119.87	109.59
1	N	446	PHE	N-CA-CB	-6.39	101.27	111.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	365	ARG	N-CA-C	6.38	119.93	109.85
1	K	376	PHE	N-CA-C	6.38	119.86	109.59
1	K	293	PRO	O-C-N	6.38	131.25	122.64
1	B	214	GLN	CB-CA-C	-6.38	100.25	111.22
1	J	235	ILE	CA-C-O	-6.38	114.42	121.05
1	F	365	ARG	NE-CZ-NH2	-6.38	113.46	119.20
1	I	244	ASP	N-CA-C	-6.38	104.55	112.90
1	M	252	ARG	NH1-CZ-NH2	6.38	127.59	119.30
1	B	186	PRO	CA-C-N	6.37	129.83	120.46
1	B	186	PRO	C-N-CA	6.37	129.83	120.46
1	O	65	VAL	O-C-N	6.37	130.54	122.57
1	E	72	VAL	CB-CA-C	-6.37	103.25	110.96
1	J	33	ILE	CA-C-O	6.37	127.02	120.39
1	K	162	LYS	O-C-N	-6.37	115.93	121.35
1	G	330	PHE	N-CA-C	6.37	119.60	107.75
1	M	457	ALA	N-CA-C	6.37	118.75	111.11
1	H	65	VAL	CB-CA-C	6.37	118.97	111.59
1	B	264	ALA	N-CA-C	-6.36	101.37	110.59
1	O	60	ILE	N-CA-C	6.36	116.40	107.37
1	C	365	ARG	NE-CZ-NH2	-6.36	113.48	119.20
1	H	448	GLU	N-CA-C	6.36	119.58	110.10
1	K	51	PRO	N-CA-C	6.36	120.64	110.21
1	I	165	ILE	CA-C-N	-6.36	113.19	121.96
1	I	165	ILE	C-N-CA	-6.36	113.19	121.96
1	K	72	VAL	O-C-N	-6.36	115.65	122.45
1	L	205	PHE	CA-C-N	-6.36	112.65	122.69
1	L	205	PHE	C-N-CA	-6.36	112.65	122.69
1	B	223	ASP	N-CA-C	6.36	119.19	111.82
1	H	178	VAL	CG1-CB-CG2	6.36	124.78	110.80
1	O	205	PHE	N-CA-C	-6.36	104.84	112.59
1	A	137	ALA	N-CA-C	6.35	120.27	110.42
1	D	359	ASN	N-CA-C	-6.35	104.79	113.30
1	I	200	MET	N-CA-C	6.35	119.06	108.20
1	I	296	SER	O-C-N	-6.35	117.66	123.50
1	B	266	THR	CB-CA-C	-6.35	97.78	109.46
1	F	294	THR	CA-C-O	6.35	126.70	120.23
1	G	105	VAL	CA-CB-CG1	-6.34	99.61	110.40
1	I	249	TYR	CA-C-O	-6.34	113.88	120.99
1	C	125	LYS	N-CA-C	-6.34	98.65	109.24
1	M	26	GLU	CA-C-O	-6.34	114.14	120.80
1	M	193	THR	O-C-N	-6.34	116.84	123.56
1	B	346	ALA	N-CA-C	-6.33	99.59	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	147	ILE	CA-CB-CG2	6.33	121.27	110.50
1	L	186	PRO	CB-CA-C	-6.33	105.22	111.17
1	O	175	CYS	N-CA-C	-6.33	98.58	108.90
1	A	299	MET	CB-CA-C	-6.33	97.82	110.42
1	H	147	ILE	CB-CG1-CD1	-6.33	100.50	113.80
1	I	113	LEU	CA-C-N	-6.33	111.57	120.56
1	I	113	LEU	C-N-CA	-6.33	111.57	120.56
1	J	330	PHE	CA-C-N	-6.33	112.94	121.80
1	J	330	PHE	C-N-CA	-6.33	112.94	121.80
1	D	381	ILE	CB-CA-C	-6.33	101.88	110.42
1	E	241	PRO	CB-CA-C	-6.33	101.12	111.56
1	H	35	TYR	N-CA-C	6.33	119.84	109.72
1	K	186	PRO	N-CA-C	6.33	118.42	110.70
1	L	248	PHE	N-CA-C	6.33	119.21	108.90
1	L	346	ALA	N-CA-C	-6.33	98.68	109.24
1	M	297	GLY	N-CA-C	-6.33	98.19	113.18
1	F	334	VAL	CA-CB-CG1	-6.32	99.65	110.40
1	K	120	HIS	CA-C-N	-6.32	113.11	119.56
1	K	120	HIS	C-N-CA	-6.32	113.11	119.56
1	J	288	SER	CA-CB-OG	6.32	123.74	111.10
1	B	136	ALA	N-CA-C	6.32	119.53	110.24
1	C	373	GLN	CA-C-N	-6.32	112.25	122.36
1	C	373	GLN	C-N-CA	-6.32	112.25	122.36
1	I	370	TYR	N-CA-C	6.32	120.16	110.36
1	J	147	ILE	O-C-N	-6.32	116.39	123.03
1	F	219	GLU	CA-CB-CG	-6.32	101.47	114.10
1	B	398	ILE	CB-CA-C	-6.32	103.89	111.97
1	C	134	ALA	N-CA-C	-6.32	98.92	108.52
1	D	286	LEU	N-CA-C	6.32	119.99	110.64
1	B	246	LEU	N-CA-C	6.31	119.82	109.72
1	C	203	THR	CA-CB-OG1	-6.31	100.13	109.60
1	A	24	THR	N-CA-C	-6.31	104.68	112.38
1	G	201	VAL	CB-CA-C	-6.31	100.94	111.29
1	K	180	VAL	CA-C-O	6.31	128.67	120.78
1	L	264	ALA	N-CA-C	-6.31	101.44	110.59
1	K	102	CYS	O-C-N	6.31	130.69	123.31
1	C	195	ILE	CB-CA-C	6.31	118.23	111.35
1	F	454	LYS	O-C-N	6.31	129.82	122.25
1	B	226	THR	N-CA-C	6.31	119.99	112.93
1	H	333	VAL	CA-C-N	-6.31	115.37	123.19
1	H	333	VAL	C-N-CA	-6.31	115.37	123.19
1	B	447	TRP	N-CA-C	-6.30	96.89	107.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	229	CYS	CA-C-N	6.30	132.06	123.11
1	L	229	CYS	C-N-CA	6.30	132.06	123.11
1	D	21	VAL	CA-C-N	-6.30	114.25	122.51
1	D	21	VAL	C-N-CA	-6.30	114.25	122.51
1	A	286	LEU	N-CA-C	6.30	119.49	110.10
1	L	341	ASN	N-CA-CB	6.30	121.26	110.68
1	M	330	PHE	CA-C-N	-6.30	114.84	122.90
1	M	330	PHE	C-N-CA	-6.30	114.84	122.90
1	J	361	LYS	CA-C-O	6.29	127.65	120.54
1	I	208	MET	CA-C-N	-6.29	113.89	123.07
1	I	208	MET	C-N-CA	-6.29	113.89	123.07
1	L	21	VAL	CB-CA-C	-6.29	100.82	110.95
1	E	159	ILE	N-CA-C	6.29	116.93	107.75
1	K	297	GLY	N-CA-C	-6.29	98.28	113.18
1	M	103	VAL	N-CA-C	6.29	119.69	113.53
1	M	117	ILE	CB-CA-C	6.29	119.85	110.98
1	F	455	PHE	CA-C-O	-6.29	114.95	121.87
1	F	95	THR	N-CA-CB	-6.28	102.65	111.00
1	I	193	THR	N-CA-C	6.28	118.40	108.79
1	H	60	ILE	N-CA-C	6.28	117.46	107.98
1	N	239	SER	N-CA-C	6.27	120.03	112.38
1	C	446	PHE	CA-C-O	-6.27	114.10	121.44
1	E	257	VAL	N-CA-C	6.27	117.82	108.54
1	F	262	ASN	CA-CB-CG	-6.27	106.33	112.60
1	A	85	PHE	O-C-N	6.27	128.07	121.42
1	H	215	ALA	N-CA-C	-6.27	104.45	111.28
1	J	97	ARG	N-CA-C	-6.27	98.03	108.75
1	N	129	THR	OG1-CB-CG2	6.27	121.83	109.30
1	H	300	VAL	CA-C-N	-6.26	111.60	122.37
1	H	300	VAL	C-N-CA	-6.26	111.60	122.37
1	N	127	ASP	CA-C-O	-6.26	114.56	121.33
1	J	237	MET	CA-C-O	6.26	127.21	120.20
1	A	252	ARG	CD-NE-CZ	-6.26	115.63	124.40
1	K	157	CYS	CA-C-O	-6.26	111.76	120.21
1	N	181	GLN	CB-CA-C	6.26	118.39	109.38
1	O	73	PHE	CA-C-O	6.26	128.12	120.92
1	N	361	LYS	CG-CD-CE	-6.26	96.91	111.30
1	M	126	LEU	CB-CG-CD2	6.25	129.47	110.70
1	F	205	PHE	CA-C-N	-6.25	111.77	122.21
1	F	205	PHE	C-N-CA	-6.25	111.77	122.21
1	K	180	VAL	CB-CA-C	-6.25	101.03	111.29
1	F	159	ILE	CG1-CB-CG2	-6.25	91.95	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	342	MET	O-C-N	-6.25	115.91	123.10
1	F	174	PRO	CA-C-N	6.25	131.73	122.86
1	F	174	PRO	C-N-CA	6.25	131.73	122.86
1	B	159	ILE	CG1-CB-CG2	-6.24	91.97	110.70
1	E	160	GLY	N-CA-C	-6.24	98.90	110.83
1	N	103	VAL	CB-CA-C	-6.24	104.76	110.63
1	F	283	THR	N-CA-C	-6.24	105.65	113.20
1	G	66	SER	CA-C-O	-6.24	113.79	121.78
1	H	297	GLY	CA-C-N	-6.24	110.43	121.29
1	H	297	GLY	C-N-CA	-6.24	110.43	121.29
1	J	229	CYS	CA-CB-SG	-6.24	100.05	114.40
1	L	375	ILE	CA-C-O	6.24	126.43	120.25
1	J	251	ARG	NH1-CZ-NH2	-6.24	111.19	119.30
1	D	114	GLY	CA-C-N	-6.24	112.28	122.57
1	D	114	GLY	C-N-CA	-6.24	112.28	122.57
1	I	88	THR	O-C-N	6.23	129.22	122.05
1	J	74	ARG	CB-CA-C	-6.23	100.63	110.79
1	N	74	ARG	N-CA-C	-6.23	98.12	108.34
1	N	257	VAL	CA-C-O	-6.23	113.36	120.65
1	J	149	MET	N-CA-CB	-6.23	100.46	110.55
1	I	261	PHE	N-CA-C	6.23	119.34	109.81
1	O	146	CYS	CA-CB-SG	-6.23	100.08	114.40
1	D	23	SER	CA-C-O	-6.22	114.30	121.15
1	N	28	VAL	O-C-N	6.22	129.78	122.69
1	O	130	GLU	N-CA-C	-6.22	104.60	111.82
1	C	212	THR	N-CA-C	6.22	121.00	113.41
1	L	375	ILE	CA-C-N	-6.22	113.04	122.81
1	L	375	ILE	C-N-CA	-6.22	113.04	122.81
1	E	98	LEU	N-CA-C	6.22	119.69	110.48
1	G	51	PRO	CB-CA-C	-6.22	103.83	111.11
1	N	113	LEU	CB-CG-CD2	-6.22	92.04	110.70
1	N	206	GLY	CA-C-N	-6.22	114.22	122.99
1	N	206	GLY	C-N-CA	-6.22	114.22	122.99
1	E	174	PRO	CA-C-N	6.22	131.77	123.00
1	E	174	PRO	C-N-CA	6.22	131.77	123.00
1	I	308	ASN	N-CA-CB	-6.21	103.02	113.15
1	L	37	ALA	CA-C-O	6.21	127.33	120.31
1	A	445	THR	CB-CA-C	-6.21	100.58	110.14
1	K	231	TYR	CA-C-N	6.21	127.18	119.98
1	K	231	TYR	C-N-CA	6.21	127.18	119.98
1	M	257	VAL	CB-CA-C	-6.21	103.08	111.15
1	A	162	LYS	CD-CE-NZ	-6.21	92.03	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	195	ILE	N-CA-CB	6.21	117.90	110.95
1	F	117	ILE	CG1-CB-CG2	6.21	129.32	110.70
1	H	238	VAL	N-CA-C	-6.20	105.00	111.58
1	B	203	THR	CA-CB-OG1	-6.20	100.30	109.60
1	I	97	ARG	NE-CZ-NH1	6.20	127.70	121.50
1	D	68	LEU	O-C-N	6.20	129.17	122.05
1	G	140	GLY	CA-C-O	6.20	131.35	120.57
1	I	143	ASN	CB-CA-C	-6.20	100.09	110.56
1	J	165	ILE	N-CA-C	6.20	116.54	107.37
1	N	277	ILE	N-CA-C	6.19	117.40	108.48
1	I	111	GLN	N-CA-CB	-6.19	102.16	110.77
1	M	252	ARG	NE-CZ-NH2	-6.19	113.63	119.20
1	E	255	MET	CG-SD-CE	6.19	114.52	100.90
1	A	289	SER	N-CA-CB	-6.19	101.52	110.56
1	B	442	LYS	CD-CE-NZ	6.19	131.70	111.90
1	H	114	GLY	CA-C-O	-6.18	115.75	121.63
1	L	62	VAL	CA-C-O	-6.18	111.66	119.95
1	O	333	VAL	CB-CA-C	-6.18	100.97	110.50
1	C	274	ASP	O-C-N	6.18	129.50	122.20
1	F	31	THR	OG1-CB-CG2	6.18	121.66	109.30
1	G	332	THR	CA-CB-CG2	-6.18	99.99	110.50
1	M	320	ASN	CA-C-N	-6.18	111.82	122.14
1	M	320	ASN	C-N-CA	-6.18	111.82	122.14
1	B	283	THR	N-CA-C	-6.18	105.84	113.19
1	E	277	ILE	CA-CB-CG2	-6.18	100.00	110.50
1	I	33	ILE	CB-CG1-CD1	-6.17	100.83	113.80
1	I	35	TYR	CA-C-O	6.17	128.13	120.54
1	O	72	VAL	CB-CA-C	-6.17	103.41	111.25
1	M	137	ALA	N-CA-C	-6.17	100.70	109.96
1	F	356	LYS	N-CA-C	6.17	119.00	108.02
1	I	101	ALA	CA-C-N	-6.17	113.69	122.94
1	I	101	ALA	C-N-CA	-6.17	113.69	122.94
1	M	194	VAL	CA-C-N	-6.17	115.30	122.95
1	M	194	VAL	C-N-CA	-6.17	115.30	122.95
1	C	278	LYS	CD-CE-NZ	-6.17	92.16	111.90
1	J	320	ASN	N-CA-C	-6.17	101.80	110.50
1	M	401	ASP	CB-CA-C	-6.17	100.50	110.74
1	N	37	ALA	CA-C-N	-6.17	109.33	121.41
1	N	37	ALA	C-N-CA	-6.17	109.33	121.41
1	D	264	ALA	N-CA-C	-6.17	102.23	110.55
1	N	322	GLY	N-CA-C	-6.16	98.57	113.18
1	B	99	VAL	CA-C-O	-6.16	114.13	121.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	180	VAL	CA-C-O	6.16	128.48	120.78
1	D	357	ASN	N-CA-C	6.16	123.92	110.80
1	M	186	PRO	CB-CA-C	-6.16	105.60	111.39
1	D	202	ASP	N-CA-C	-6.16	101.82	110.50
1	K	125	LYS	CG-CD-CE	-6.16	97.14	111.30
1	K	392	HIS	CA-C-O	6.16	126.75	119.67
1	L	39	THR	CB-CA-C	-6.16	98.17	110.42
1	L	180	VAL	N-CA-C	6.16	122.14	109.34
1	M	112	PRO	CA-CB-CG	-6.16	92.81	104.50
1	G	366	HIS	CA-C-O	-6.15	113.72	120.24
1	I	206	GLY	CA-C-N	-6.15	114.51	123.00
1	I	206	GLY	C-N-CA	-6.15	114.51	123.00
1	L	399	LEU	N-CA-C	-6.15	104.68	111.82
1	B	272	PRO	CA-N-CD	6.15	120.61	112.00
1	A	191	ILE	CB-CG1-CD1	-6.15	100.89	113.80
1	B	176	THR	N-CA-C	6.15	118.47	108.63
1	C	389	THR	N-CA-C	6.15	118.77	111.33
1	M	141	VAL	CA-C-N	-6.15	113.44	122.78
1	M	141	VAL	C-N-CA	-6.15	113.44	122.78
1	B	71	ARG	CB-CG-CD	-6.15	97.17	111.30
1	I	191	ILE	N-CA-C	6.15	116.71	107.80
1	C	112	PRO	CA-C-O	-6.14	114.43	121.56
1	C	344	LEU	CA-C-O	6.14	127.87	120.99
1	L	144	ARG	CG-CD-NE	-6.14	98.49	112.00
1	O	343	SER	N-CA-C	-6.14	100.18	109.95
1	A	39	THR	N-CA-C	-6.14	100.95	110.10
1	A	283	THR	CA-C-N	-6.14	112.97	122.49
1	A	283	THR	C-N-CA	-6.14	112.97	122.49
1	B	141	VAL	N-CA-C	-6.14	98.87	108.81
1	F	259	HIS	CA-C-O	6.14	128.70	121.58
1	H	356	LYS	CB-CG-CD	-6.14	97.19	111.30
1	K	77	LEU	CA-C-N	6.13	126.10	119.78
1	K	77	LEU	C-N-CA	6.13	126.10	119.78
1	C	80	PRO	N-CA-C	-6.13	105.54	113.57
1	C	399	LEU	CA-C-O	-6.13	114.58	120.90
1	N	23	SER	CA-C-O	-6.13	114.45	121.07
1	A	69	GLN	CA-C-O	-6.13	114.24	121.16
1	K	258	ARG	NE-CZ-NH2	6.13	124.71	119.20
1	L	144	ARG	NE-CZ-NH2	-6.13	113.69	119.20
1	L	25	ASP	N-CA-C	-6.12	103.91	111.75
1	H	277	ILE	CG1-CB-CG2	-6.12	92.33	110.70
1	N	161	CYS	N-CA-C	-6.12	105.94	113.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	190	LEU	N-CA-C	-6.12	100.78	109.96
1	I	186	PRO	N-CA-C	6.12	118.17	110.70
1	N	209	ASP	CA-C-O	6.12	127.68	120.70
1	G	392	HIS	O-C-N	6.12	130.21	122.19
1	M	158	LEU	CA-C-O	-6.12	114.20	121.11
1	O	398	ILE	CG1-CB-CG2	-6.12	92.35	110.70
1	B	68	LEU	N-CA-CB	-6.12	102.67	111.54
1	I	49	TYR	N-CA-C	6.11	121.25	113.55
1	L	29	ALA	CA-C-N	-6.11	114.89	122.84
1	L	29	ALA	C-N-CA	-6.11	114.89	122.84
1	J	376	PHE	N-CA-C	6.11	118.91	109.07
1	N	147	ILE	O-C-N	6.11	129.51	122.97
1	H	341	ASN	N-CA-C	-6.11	99.23	109.07
1	L	239	SER	CA-C-O	6.11	126.80	119.10
1	B	164	PRO	CA-C-N	-6.11	114.68	123.11
1	B	164	PRO	C-N-CA	-6.11	114.68	123.11
1	D	313	LEU	CD1-CG-CD2	-6.11	97.36	110.80
1	K	448	GLU	N-CA-CB	-6.11	99.91	110.17
1	L	71	ARG	NE-CZ-NH1	-6.11	115.39	121.50
1	N	65	VAL	N-CA-CB	-6.10	106.55	112.65
1	D	380	LYS	CB-CG-CD	6.10	125.33	111.30
1	M	456	SER	CA-C-N	-6.10	112.30	120.54
1	M	456	SER	C-N-CA	-6.10	112.30	120.54
1	F	300	VAL	CB-CA-C	-6.10	102.54	110.84
1	G	170	GLY	CA-C-N	-6.10	114.91	122.84
1	G	170	GLY	C-N-CA	-6.10	114.91	122.84
1	H	193	THR	N-CA-C	6.10	117.81	108.42
1	J	253	GLU	CB-CG-CD	-6.10	102.23	112.60
1	C	133	SER	N-CA-C	-6.09	106.45	114.31
1	D	141	VAL	CB-CA-C	-6.09	100.03	111.30
1	D	300	VAL	CB-CA-C	-6.09	103.35	110.91
1	H	115	VAL	CA-C-N	6.09	127.48	121.57
1	H	115	VAL	C-N-CA	6.09	127.48	121.57
1	M	313	LEU	CA-C-N	6.09	128.73	120.38
1	M	313	LEU	C-N-CA	6.09	128.73	120.38
1	C	399	LEU	N-CA-C	-6.09	104.27	111.03
1	N	47	HIS	N-CA-C	-6.09	99.65	109.40
1	O	310	PRO	CA-C-N	-6.09	114.41	123.00
1	O	310	PRO	C-N-CA	-6.09	114.41	123.00
1	B	217	LYS	CB-CA-C	6.09	119.91	111.63
1	C	265	GLY	CA-C-N	-6.09	113.08	122.09
1	C	265	GLY	C-N-CA	-6.09	113.08	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	165	ILE	N-CA-C	6.09	116.64	107.75
1	E	262	ASN	N-CA-CB	-6.09	101.01	110.57
1	H	308	ASN	CA-C-O	6.09	127.26	119.16
1	M	353	THR	CB-CA-C	-6.09	99.88	110.17
1	I	263	ARG	CA-C-O	6.09	127.55	120.49
1	J	296	SER	CA-CB-OG	-6.09	98.92	111.10
1	A	461	GLN	N-CA-C	6.09	120.73	112.88
1	J	377	GLN	CB-CG-CD	-6.09	102.25	112.60
1	L	206	GLY	CA-C-O	-6.09	118.07	122.45
1	C	456	SER	CA-C-N	-6.08	110.18	120.58
1	C	456	SER	C-N-CA	-6.08	110.18	120.58
1	I	260	LEU	CA-C-O	6.08	126.90	120.33
1	I	213	LEU	CB-CG-CD1	-6.08	92.47	110.70
1	N	105	VAL	CA-C-N	-6.08	114.20	122.95
1	N	105	VAL	C-N-CA	-6.08	114.20	122.95
1	A	381	ILE	CB-CA-C	-6.07	101.33	111.29
1	D	203	THR	CB-CA-C	-6.07	99.30	109.75
1	I	452	LYS	CA-C-O	6.07	127.75	121.07
1	N	144	ARG	NE-CZ-NH2	6.07	124.67	119.20
1	F	464	LEU	CA-C-N	-6.07	113.32	119.94
1	F	464	LEU	C-N-CA	-6.07	113.32	119.94
1	H	325	TRP	CA-C-N	-6.07	112.98	122.51
1	H	325	TRP	C-N-CA	-6.07	112.98	122.51
1	E	398	ILE	N-CA-C	-6.07	103.92	110.23
1	H	202	ASP	N-CA-C	-6.07	101.50	110.48
1	N	469	LEU	CA-CB-CG	6.07	137.54	116.30
1	M	138	ASN	CA-C-O	6.07	129.19	120.51
1	K	74	ARG	N-CA-C	-6.06	97.41	108.02
1	G	207	ALA	N-CA-CB	-6.06	101.04	110.55
1	C	319	HIS	CA-C-O	-6.06	114.41	121.07
1	D	99	VAL	CB-CA-C	-6.05	101.17	110.50
1	J	180	VAL	N-CA-C	6.05	121.94	109.34
1	L	197	ASP	CA-C-N	-6.05	114.09	122.63
1	L	197	ASP	C-N-CA	-6.05	114.09	122.63
1	A	177	GLN	N-CA-C	-6.05	97.91	110.80
1	B	148	SER	CA-CB-OG	-6.05	99.00	111.10
1	A	330	PHE	N-CA-CB	-6.05	100.24	110.46
1	K	459	LEU	CD1-CG-CD2	-6.05	97.49	110.80
1	M	33	ILE	CA-C-O	6.05	126.68	120.39
1	G	274	ASP	N-CA-C	-6.04	105.62	114.39
1	G	174	PRO	N-CA-C	6.04	124.91	112.47
1	F	50	PHE	N-CA-CB	-6.04	102.74	111.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	170	GLY	CA-C-N	-6.04	114.26	123.07
1	N	170	GLY	C-N-CA	-6.04	114.26	123.07
1	I	472	LEU	CD1-CG-CD2	6.03	124.07	110.80
1	N	317	GLN	CA-C-N	-6.03	115.29	122.16
1	N	317	GLN	C-N-CA	-6.03	115.29	122.16
1	C	197	ASP	CA-C-O	-6.03	114.99	121.56
1	E	161	CYS	N-CA-C	-6.03	106.09	113.50
1	I	106	GLU	CA-C-N	-6.03	114.91	123.11
1	I	106	GLU	C-N-CA	-6.03	114.91	123.11
1	A	339	SER	CA-CB-OG	-6.03	99.05	111.10
1	F	348	ILE	N-CA-C	-6.02	104.82	113.07
1	B	278	LYS	CA-C-N	-6.02	109.61	121.41
1	B	278	LYS	C-N-CA	-6.02	109.61	121.41
1	M	457	ALA	N-CA-CB	-6.02	100.97	109.94
1	I	174	PRO	CB-CA-C	-6.02	101.63	111.56
1	I	217	LYS	CD-CE-NZ	-6.02	92.64	111.90
1	K	81	ASN	N-CA-C	-6.02	105.79	113.01
1	A	398	ILE	CB-CA-C	-6.02	101.42	111.29
1	B	270	ASN	N-CA-C	6.02	119.89	110.32
1	G	226	THR	CA-CB-CG2	-6.02	100.27	110.50
1	J	76	HIS	O-C-N	6.02	131.06	123.12
1	M	52	ILE	CG1-CB-CG2	-6.02	92.65	110.70
1	E	177	GLN	N-CA-CB	6.02	120.66	110.49
1	K	116	GLY	O-C-N	6.02	130.52	122.70
1	A	170	GLY	CA-C-N	-6.01	114.63	123.05
1	A	170	GLY	C-N-CA	-6.01	114.63	123.05
1	C	178	VAL	CG1-CB-CG2	6.01	124.03	110.80
1	A	310	PRO	N-CA-C	6.01	120.35	110.55
1	J	269	GLU	CA-C-N	-6.01	113.69	122.65
1	J	269	GLU	C-N-CA	-6.01	113.69	122.65
1	L	83	PHE	N-CA-C	-6.01	102.59	110.53
1	O	283	THR	CA-C-N	-6.01	112.92	122.29
1	O	283	THR	C-N-CA	-6.01	112.92	122.29
1	B	398	ILE	N-CA-C	-6.01	104.65	110.42
1	J	215	ALA	O-C-N	6.01	128.26	122.07
1	K	175	CYS	O-C-N	6.01	130.45	123.30
1	O	146	CYS	CB-CA-C	-6.01	101.09	111.30
1	J	112	PRO	N-CD-CG	-6.00	94.19	103.20
1	K	49	TYR	CA-C-O	6.00	127.51	119.47
1	C	197	ASP	N-CA-C	-6.00	102.04	110.50
1	H	289	SER	CA-C-O	6.00	128.46	119.23
1	L	49	TYR	N-CA-C	6.00	121.11	113.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	194	VAL	CB-CA-C	-5.99	103.36	111.15
1	H	227	SER	CA-CB-OG	-5.99	99.12	111.10
1	E	80	PRO	O-C-N	5.99	129.41	122.23
1	N	37	ALA	O-C-N	-5.99	116.59	123.42
1	G	286	LEU	CB-CG-CD2	-5.99	92.74	110.70
1	H	180	VAL	CA-C-O	5.99	128.26	120.78
1	L	252	ARG	NE-CZ-NH2	5.99	124.59	119.20
1	A	315	ARG	N-CA-CB	-5.98	101.77	111.22
1	A	93	PRO	CA-C-N	-5.98	112.14	122.79
1	A	93	PRO	C-N-CA	-5.98	112.14	122.79
1	C	374	PHE	N-CA-C	5.98	118.05	109.14
1	C	175	CYS	N-CA-C	-5.98	99.16	108.90
1	D	237	MET	CB-CG-SD	-5.98	94.77	112.70
1	M	456	SER	O-C-N	-5.97	116.28	123.27
1	D	154	THR	CA-CB-CG2	5.97	120.65	110.50
1	K	113	LEU	CD1-CG-CD2	-5.97	97.66	110.80
1	K	277	ILE	CA-CB-CG2	-5.97	100.35	110.50
1	I	398	ILE	O-C-N	5.97	127.91	121.94
1	B	53	LYS	N-CA-C	5.97	118.92	110.14
1	C	336	THR	N-CA-CB	5.97	119.19	110.47
1	B	62	VAL	N-CA-C	-5.97	104.30	109.19
1	J	192	ASN	N-CA-C	-5.97	100.83	110.32
1	K	237	MET	N-CA-C	-5.97	104.71	112.23
1	I	353	THR	O-C-N	5.96	129.46	122.24
1	O	138	ASN	CA-C-O	5.96	129.04	120.51
1	D	328	GLN	O-C-N	-5.96	116.24	123.10
1	C	302	SER	N-CA-CB	-5.96	101.06	109.94
1	D	99	VAL	CA-C-O	-5.96	113.99	120.67
1	E	75	ILE	CA-C-O	5.96	127.09	120.59
1	M	139	ALA	CA-C-O	-5.96	114.08	120.46
1	O	181	GLN	N-CA-C	-5.96	99.98	109.04
1	K	120	HIS	N-CA-C	5.96	118.93	109.40
1	O	269	GLU	CA-C-N	-5.96	114.29	122.93
1	O	269	GLU	C-N-CA	-5.96	114.29	122.93
1	A	372	LEU	CA-C-O	-5.95	114.26	121.05
1	B	257	VAL	CA-C-O	5.95	128.15	120.95
1	G	146	CYS	CB-CA-C	-5.95	101.18	111.30
1	G	49	TYR	N-CA-C	5.95	121.42	114.04
1	B	126	LEU	CA-C-O	-5.95	114.16	120.71
1	N	67	GLY	O-C-N	-5.95	114.97	122.70
1	O	465	GLY	CA-C-O	-5.95	114.57	121.00
1	I	212	THR	CA-C-N	-5.95	111.19	121.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	212	THR	C-N-CA	-5.95	111.19	121.66
1	N	338	ARG	CA-CB-CG	5.95	126.00	114.10
1	A	144	ARG	CG-CD-NE	-5.95	98.92	112.00
1	D	172	GLY	O-C-N	5.95	130.43	122.70
1	L	33	ILE	CG1-CB-CG2	-5.95	92.86	110.70
1	C	263	ARG	CD-NE-CZ	-5.94	116.08	124.40
1	O	348	ILE	N-CA-C	-5.94	104.31	113.16
1	C	361	LYS	CA-C-N	-5.94	114.80	123.00
1	C	361	LYS	C-N-CA	-5.94	114.80	123.00
1	H	143	ASN	N-CA-C	-5.94	105.86	113.23
1	A	180	VAL	CB-CA-C	-5.94	101.55	111.29
1	M	125	LYS	N-CA-C	-5.94	99.72	109.40
1	G	452	LYS	CD-CE-NZ	5.93	130.89	111.90
1	J	206	GLY	CA-C-N	-5.93	114.33	122.93
1	J	206	GLY	C-N-CA	-5.93	114.33	122.93
1	I	180	VAL	N-CA-C	5.93	121.68	109.34
1	A	212	THR	CA-C-O	5.93	125.31	118.55
1	D	190	LEU	N-CA-C	-5.93	99.62	109.46
1	D	231	TYR	CA-C-O	5.93	125.74	119.69
1	K	209	ASP	CA-C-O	5.93	126.62	120.40
1	N	219	GLU	N-CA-CB	-5.93	102.70	110.88
1	O	35	TYR	CA-C-O	5.92	127.93	121.06
1	B	216	ASN	CA-C-O	5.92	126.83	120.20
1	H	218	SER	CA-CB-OG	-5.92	99.25	111.10
1	O	140	GLY	CA-C-O	5.92	130.88	120.57
1	O	255	MET	O-C-N	5.92	129.76	123.42
1	B	215	ALA	CA-C-O	5.92	126.65	119.31
1	A	164	PRO	CA-C-O	-5.92	114.59	121.34
1	K	457	ALA	CB-CA-C	-5.92	100.84	110.79
1	A	71	ARG	CB-CG-CD	-5.92	97.69	111.30
1	C	365	ARG	NE-CZ-NH1	5.92	127.42	121.50
1	K	379	CYS	N-CA-C	5.92	119.53	110.36
1	L	41	ARG	NE-CZ-NH2	5.92	124.53	119.20
1	L	205	PHE	CA-C-O	-5.92	112.27	119.43
1	A	399	LEU	N-CA-C	-5.92	104.46	111.03
1	M	150	ASP	CB-CG-OD1	-5.92	104.79	118.40
1	C	77	LEU	CD1-CG-CD2	5.92	123.81	110.80
1	K	331	VAL	CA-CB-CG2	-5.92	100.34	110.40
1	A	243	GLY	O-C-N	5.91	127.95	122.57
1	M	35	TYR	CA-C-N	5.91	131.50	122.93
1	M	35	TYR	C-N-CA	5.91	131.50	122.93
1	M	270	ASN	CA-C-O	-5.91	114.12	120.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	92	ASN	CA-CB-CG	5.91	118.51	112.60
1	E	332	THR	CA-C-O	5.91	126.74	120.36
1	D	323	ILE	CB-CG1-CD1	-5.91	101.39	113.80
1	A	71	ARG	NE-CZ-NH1	-5.91	115.59	121.50
1	D	152	LYS	CG-CD-CE	-5.91	97.72	111.30
1	F	298	SER	CA-C-O	5.90	128.70	122.03
1	M	210	PHE	N-CA-C	5.90	118.47	111.33
1	M	284	ALA	CA-C-N	-5.90	114.22	123.13
1	M	284	ALA	C-N-CA	-5.90	114.22	123.13
1	G	236	LYS	CB-CA-C	-5.90	101.62	110.88
1	K	73	PHE	O-C-N	-5.90	116.29	122.96
1	C	300	VAL	CB-CA-C	-5.90	102.96	111.34
1	G	292	PHE	CB-CA-C	5.90	118.30	109.63
1	A	48	PRO	CA-C-N	-5.90	111.84	122.46
1	A	48	PRO	C-N-CA	-5.90	111.84	122.46
1	N	266	THR	CB-CA-C	-5.90	98.19	110.40
1	O	180	VAL	CB-CA-C	-5.90	101.62	111.29
1	C	277	ILE	CG1-CB-CG2	-5.90	93.01	110.70
1	C	58	ASN	CA-C-N	-5.89	113.87	122.65
1	C	58	ASN	C-N-CA	-5.89	113.87	122.65
1	G	155	GLN	N-CA-C	-5.89	98.48	108.26
1	L	385	ALA	O-C-N	5.89	128.46	122.09
1	M	133	SER	N-CA-C	-5.89	107.08	114.56
1	B	334	VAL	N-CA-C	-5.89	99.05	107.77
1	C	462	PHE	CA-C-O	5.89	126.35	120.28
1	I	207	ALA	O-C-N	5.89	130.24	123.29
1	K	469	LEU	N-CA-CB	-5.89	101.16	109.94
1	N	122	LEU	CD1-CG-CD2	5.89	123.76	110.80
1	O	266	THR	CB-CA-C	-5.89	99.58	109.53
1	G	97	ARG	N-CA-C	5.89	118.50	108.90
1	G	107	VAL	CG1-CB-CG2	5.89	123.75	110.80
1	G	180	VAL	O-C-N	5.89	129.93	122.57
1	I	169	TRP	CA-C-O	-5.89	115.28	121.99
1	J	24	THR	N-CA-C	-5.89	104.22	111.75
1	J	176	THR	CB-CA-C	-5.89	98.71	110.42
1	D	69	GLN	CA-C-O	-5.88	113.85	120.32
1	N	159	ILE	N-CA-C	5.88	116.59	108.12
1	D	90	PHE	CA-C-N	-5.88	112.76	122.11
1	D	90	PHE	C-N-CA	-5.88	112.76	122.11
1	D	234	TYR	N-CA-C	-5.88	98.27	110.80
1	G	178	VAL	CG1-CB-CG2	5.88	123.74	110.80
1	F	278	LYS	CA-C-N	-5.88	109.89	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	278	LYS	C-N-CA	-5.88	109.89	121.41
1	L	135	TYR	CA-C-N	5.88	129.19	120.90
1	L	135	TYR	C-N-CA	5.88	129.19	120.90
1	I	387	VAL	N-CA-C	-5.88	104.89	110.42
1	N	124	ASN	CA-C-O	5.88	128.91	120.51
1	E	225	CYS	N-CA-C	5.87	123.31	110.80
1	A	99	VAL	N-CA-C	-5.87	99.71	108.46
1	I	291	TYR	CD1-CE1-CZ	5.87	130.17	119.60
1	J	456	SER	CA-CB-OG	5.87	122.84	111.10
1	M	228	ILE	CB-CG1-CD1	-5.87	101.47	113.80
1	O	345	CYS	N-CA-C	5.87	119.08	108.69
1	I	230	LYS	CA-CB-CG	-5.87	102.36	114.10
1	O	125	LYS	CG-CD-CE	-5.87	97.80	111.30
1	O	296	SER	O-C-N	5.87	130.03	123.40
1	L	109	ARG	NH1-CZ-NH2	-5.87	111.67	119.30
1	M	143	ASN	N-CA-C	-5.87	105.89	113.16
1	I	374	PHE	CA-C-O	5.87	127.86	121.06
1	J	346	ALA	CA-C-O	-5.87	114.50	121.66
1	C	381	ILE	CB-CA-C	-5.86	103.73	110.41
1	E	252	ARG	NH1-CZ-NH2	5.86	126.92	119.30
1	K	359	ASN	N-CA-C	-5.86	105.44	113.30
1	M	266	THR	CB-CA-C	-5.86	97.67	109.68
1	N	382	THR	CA-C-N	-5.86	113.80	122.41
1	N	382	THR	C-N-CA	-5.86	113.80	122.41
1	B	358	THR	O-C-N	5.86	129.70	122.20
1	G	47	HIS	CA-C-N	5.86	125.96	119.87
1	G	47	HIS	C-N-CA	5.86	125.96	119.87
1	A	463	PRO	O-C-N	5.85	129.55	122.23
1	E	112	PRO	CB-CA-C	5.85	119.02	111.64
1	I	80	PRO	N-CA-C	-5.85	105.90	113.57
1	N	89	SER	CA-CB-OG	-5.85	99.39	111.10
1	N	290	ASN	N-CA-C	5.85	119.00	108.17
1	E	266	THR	N-CA-C	5.85	118.20	109.25
1	F	65	VAL	N-CA-CB	-5.85	101.58	111.23
1	I	358	THR	OG1-CB-CG2	5.85	121.00	109.30
1	N	192	ASN	N-CA-C	-5.85	101.81	110.46
1	A	330	PHE	N-CA-C	5.84	119.14	107.62
1	C	237	MET	CG-SD-CE	5.84	113.76	100.90
1	G	113	LEU	CA-C-N	-5.84	110.98	120.51
1	G	113	LEU	C-N-CA	-5.84	110.98	120.51
1	N	48	PRO	N-CA-C	5.84	121.52	113.98
1	D	118	SER	O-C-N	5.84	130.42	123.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	275	LEU	N-CA-C	-5.84	105.47	113.30
1	O	177	GLN	O-C-N	5.84	129.13	123.29
1	D	378	LEU	N-CA-C	5.84	118.17	109.59
1	M	65	VAL	N-CA-C	5.84	121.48	109.34
1	J	217	LYS	N-CA-C	5.83	119.70	112.47
1	I	282	SER	N-CA-C	-5.83	101.81	111.37
1	C	285	ASN	N-CA-CB	-5.83	101.44	110.65
1	D	454	LYS	N-CA-C	-5.83	107.16	114.56
1	E	469	LEU	CA-CB-CG	5.83	136.71	116.30
1	C	98	LEU	CA-C-O	5.83	127.91	121.56
1	D	261	PHE	CA-C-O	5.83	128.25	121.49
1	A	377	GLN	CA-C-N	-5.83	113.17	121.50
1	A	377	GLN	C-N-CA	-5.83	113.17	121.50
1	K	96	GLN	N-CA-C	5.82	119.58	110.32
1	N	95	THR	OG1-CB-CG2	5.82	120.95	109.30
1	H	323	ILE	CA-C-N	-5.82	113.59	122.21
1	H	323	ILE	C-N-CA	-5.82	113.59	122.21
1	J	111	GLN	O-C-N	-5.82	115.92	121.57
1	N	60	ILE	CG1-CB-CG2	-5.82	93.23	110.70
1	G	338	ARG	NE-CZ-NH2	5.82	124.44	119.20
1	D	226	THR	N-CA-C	-5.82	104.73	112.94
1	L	281	GLY	CA-C-O	-5.82	113.43	121.46
1	A	258	ARG	CG-CD-NE	-5.82	99.20	112.00
1	L	200	MET	N-CA-C	5.82	118.20	108.96
1	G	41	ARG	NE-CZ-NH2	5.81	124.43	119.20
1	L	186	PRO	N-CA-C	5.81	116.80	110.58
1	B	141	VAL	CB-CA-C	-5.81	100.31	110.71
1	H	266	THR	N-CA-C	5.81	118.66	110.23
1	H	385	ALA	N-CA-C	-5.81	99.28	110.56
1	H	160	GLY	CA-C-O	5.81	127.71	121.61
1	M	121	PRO	CB-CG-CD	-5.81	87.51	106.10
1	B	49	TYR	N-CA-C	5.81	120.75	113.43
1	A	334	VAL	CA-CB-CG2	5.81	120.27	110.40
1	O	335	ASP	CB-CG-OD1	-5.81	105.04	118.40
1	E	215	ALA	CA-C-N	5.80	128.38	120.54
1	E	215	ALA	C-N-CA	5.80	128.38	120.54
1	F	165	ILE	N-CA-CB	-5.80	104.15	111.46
1	I	250	LEU	N-CA-CB	5.80	120.56	110.81
1	I	283	THR	OG1-CB-CG2	-5.80	97.69	109.30
1	J	129	THR	O-C-N	5.80	129.00	122.27
1	E	80	PRO	N-CA-C	-5.80	105.47	113.53
1	A	187	PRO	N-CA-C	-5.80	100.70	110.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	461	GLN	N-CA-C	5.80	120.36	112.88
1	K	33	ILE	N-CA-C	5.80	116.21	107.80
1	A	116	GLY	N-CA-C	5.80	122.08	111.12
1	A	161	CYS	N-CA-C	-5.80	105.52	112.59
1	J	219	GLU	CA-C-O	-5.80	112.42	119.32
1	B	71	ARG	NE-CZ-NH1	-5.79	115.70	121.50
1	E	268	GLY	N-CA-C	-5.79	99.45	113.18
1	G	312	TRP	CA-C-N	-5.79	113.40	122.73
1	G	312	TRP	C-N-CA	-5.79	113.40	122.73
1	I	74	ARG	NE-CZ-NH1	-5.79	115.70	121.50
1	E	338	ARG	NE-CZ-NH2	-5.79	113.98	119.20
1	I	70	TYR	N-CA-C	-5.79	99.84	109.46
1	I	283	THR	CA-CB-CG2	5.79	120.35	110.50
1	K	212	THR	N-CA-CB	-5.79	102.24	110.81
1	K	312	TRP	N-CA-C	5.79	118.11	109.59
1	F	354	THR	N-CA-C	-5.79	100.27	109.07
1	H	191	ILE	N-CA-C	5.79	116.22	108.11
1	I	180	VAL	CA-C-O	5.79	128.02	120.78
1	A	295	PRO	CA-C-N	-5.79	111.80	121.64
1	A	295	PRO	C-N-CA	-5.79	111.80	121.64
1	J	165	ILE	CA-C-N	-5.79	116.54	122.27
1	J	165	ILE	C-N-CA	-5.79	116.54	122.27
1	K	75	ILE	CB-CG1-CD1	-5.79	101.64	113.80
1	K	231	TYR	O-C-N	5.79	126.54	121.39
1	E	177	GLN	OE1-CD-NE2	-5.79	116.81	122.60
1	H	292	PHE	CB-CA-C	5.79	118.46	108.91
1	M	380	LYS	N-CA-C	5.79	118.20	109.23
1	D	347	ALA	N-CA-C	5.78	117.79	110.33
1	K	25	ASP	CB-CG-OD1	-5.78	105.11	118.40
1	B	211	THR	N-CA-C	-5.78	105.33	112.38
1	H	464	LEU	CB-CG-CD2	5.78	128.04	110.70
1	D	85	PHE	CA-C-N	5.78	127.06	119.84
1	D	85	PHE	C-N-CA	5.78	127.06	119.84
1	H	398	ILE	CB-CA-C	-5.78	101.81	111.29
1	N	227	SER	N-CA-C	5.78	118.01	109.69
1	O	186	PRO	CA-C-N	5.78	127.06	119.84
1	O	186	PRO	C-N-CA	5.78	127.06	119.84
1	E	258	ARG	N-CA-C	-5.78	102.72	111.56
1	L	259	HIS	CA-C-O	5.78	128.28	121.58
1	O	33	ILE	CB-CG1-CD1	-5.77	101.67	113.80
1	F	314	GLN	CA-C-O	-5.77	114.45	120.92
1	M	361	LYS	CB-CG-CD	-5.77	98.02	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	294	THR	N-CA-C	-5.77	102.34	110.31
1	C	307	PHE	CA-C-N	-5.77	114.98	125.66
1	C	307	PHE	C-N-CA	-5.77	114.98	125.66
1	K	191	ILE	N-CA-C	5.77	116.94	107.24
1	C	187	PRO	CA-N-CD	-5.77	103.93	112.00
1	L	285	ASN	CA-C-O	-5.77	112.50	120.52
1	B	76	HIS	N-CA-C	5.76	117.60	108.67
1	J	113	LEU	CB-CG-CD2	-5.76	93.41	110.70
1	C	106	GLU	CA-C-O	-5.76	114.11	120.33
1	E	337	THR	CA-C-N	-5.76	115.31	123.03
1	E	337	THR	C-N-CA	-5.76	115.31	123.03
1	F	123	LEU	CB-CA-C	5.76	120.14	109.54
1	G	144	ARG	CG-CD-NE	-5.76	99.33	112.00
1	K	226	THR	OG1-CB-CG2	5.76	120.82	109.30
1	N	44	ALA	CA-C-N	-5.76	114.41	122.71
1	N	44	ALA	C-N-CA	-5.76	114.41	122.71
1	N	109	ARG	CA-C-O	-5.76	114.14	120.36
1	D	293	PRO	CB-CA-C	-5.76	102.06	111.56
1	E	224	ILE	CB-CA-C	-5.76	105.77	111.30
1	I	306	ILE	CB-CA-C	-5.76	104.61	110.88
1	G	353	THR	N-CA-C	-5.75	104.93	112.41
1	K	266	THR	OG1-CB-CG2	5.75	120.81	109.30
1	A	264	ALA	N-CA-C	-5.75	103.33	110.41
1	B	315	ARG	CA-CB-CG	-5.75	102.59	114.10
1	C	238	VAL	CG1-CB-CG2	-5.75	98.14	110.80
1	D	136	ALA	CB-CA-C	-5.75	99.32	109.62
1	E	139	ALA	CA-C-O	-5.75	114.56	120.54
1	K	114	GLY	CA-C-O	-5.75	116.02	121.60
1	G	358	THR	CB-CA-C	-5.75	101.71	111.02
1	H	341	ASN	CA-C-O	-5.75	114.11	120.38
1	M	257	VAL	CA-CB-CG2	-5.75	100.63	110.40
1	K	307	PHE	N-CA-C	5.74	118.92	110.59
1	L	365	ARG	CA-C-O	-5.74	113.71	120.60
1	A	42	LEU	CD1-CG-CD2	5.74	123.43	110.80
1	B	67	GLY	O-C-N	-5.74	115.24	122.70
1	K	284	ALA	N-CA-C	5.74	119.91	113.02
1	B	123	LEU	N-CA-C	5.74	118.88	109.76
1	C	33	ILE	CB-CA-C	-5.74	102.67	110.42
1	J	64	LYS	CA-C-N	-5.74	115.83	123.17
1	J	64	LYS	C-N-CA	-5.74	115.83	123.17
1	K	235	ILE	CB-CG1-CD1	5.74	125.85	113.80
1	A	103	VAL	CB-CA-C	-5.74	101.88	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	222	LEU	N-CA-C	5.74	123.02	110.80
1	I	361	LYS	CD-CE-NZ	-5.74	93.54	111.90
1	D	237	MET	N-CA-C	5.74	117.99	111.11
1	E	154	THR	CA-C-O	5.74	127.20	120.20
1	H	152	LYS	CG-CD-CE	-5.74	98.11	111.30
1	M	309	LYS	CA-C-O	-5.74	113.45	120.05
1	N	312	TRP	O-C-N	-5.73	115.97	123.02
1	A	31	THR	CB-CA-C	-5.73	99.51	113.15
1	E	57	ASN	CA-C-N	-5.73	114.09	122.86
1	E	57	ASN	C-N-CA	-5.73	114.09	122.86
1	A	315	ARG	CA-C-O	-5.73	114.84	121.49
1	E	217	LYS	CD-CE-NZ	-5.73	93.57	111.90
1	H	66	SER	N-CA-C	5.73	118.56	110.14
1	L	47	HIS	CA-C-O	-5.73	115.44	120.60
1	K	264	ALA	N-CA-CB	-5.73	102.53	110.38
1	N	66	SER	CA-C-O	5.73	128.14	121.44
1	A	115	VAL	O-C-N	5.73	129.23	123.10
1	O	240	GLU	O-C-N	-5.73	116.33	121.31
1	G	244	ASP	N-CA-C	5.72	119.52	112.54
1	O	266	THR	N-CA-C	5.72	119.25	110.20
1	F	458	ASP	N-CA-C	5.72	118.49	109.96
1	M	168	HIS	CA-C-N	-5.72	113.19	122.81
1	M	168	HIS	C-N-CA	-5.72	113.19	122.81
1	E	390	TYR	O-C-N	5.72	127.96	122.07
1	C	306	ILE	N-CA-C	-5.72	104.64	113.16
1	G	217	LYS	CA-C-O	5.72	126.70	120.12
1	M	441	LEU	N-CA-C	-5.72	103.00	111.81
1	O	191	ILE	CB-CG1-CD1	-5.72	101.79	113.80
1	C	467	LYS	CA-C-O	-5.72	115.01	120.90
1	J	370	TYR	N-CA-C	5.72	118.88	110.59
1	K	451	LEU	CD1-CG-CD2	-5.72	98.22	110.80
1	M	23	SER	CA-C-N	5.72	128.51	120.28
1	M	23	SER	C-N-CA	5.72	128.51	120.28
1	M	187	PRO	CB-CA-C	-5.72	107.07	111.87
1	O	445	THR	CB-CA-C	-5.72	100.99	110.14
1	J	457	ALA	N-CA-CB	-5.71	101.69	109.98
1	K	157	CYS	O-C-N	5.71	130.47	123.44
1	B	295	PRO	CA-CB-CG	-5.71	93.65	104.50
1	F	115	VAL	O-C-N	5.71	129.03	123.03
1	K	250	LEU	CD1-CG-CD2	-5.71	98.24	110.80
1	K	447	TRP	O-C-N	-5.71	115.76	122.96
1	M	225	CYS	N-CA-C	5.71	122.97	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	260	LEU	N-CA-C	5.71	117.71	108.34
1	D	121	PRO	CA-C-N	-5.71	114.45	123.24
1	D	121	PRO	C-N-CA	-5.71	114.45	123.24
1	H	207	ALA	CA-C-O	-5.71	114.04	120.32
1	K	288	SER	N-CA-C	5.71	118.86	110.30
1	N	272	PRO	CB-CA-C	-5.71	104.45	111.64
1	D	277	ILE	CA-C-O	-5.71	114.31	120.36
1	O	157	CYS	O-C-N	5.71	130.24	123.33
1	K	115	VAL	CG1-CB-CG2	-5.71	98.25	110.80
1	A	150	ASP	CA-C-O	-5.70	112.77	120.47
1	D	391	ILE	CG1-CB-CG2	-5.70	93.59	110.70
1	M	144	ARG	NE-CZ-NH1	5.70	127.20	121.50
1	C	306	ILE	CA-C-N	-5.70	112.84	123.05
1	C	306	ILE	C-N-CA	-5.70	112.84	123.05
1	K	113	LEU	N-CA-C	-5.70	101.61	110.10
1	G	263	ARG	CA-C-O	5.70	127.10	120.49
1	K	181	GLN	N-CA-C	-5.70	98.44	108.69
1	C	40	SER	N-CA-C	-5.70	104.99	111.14
1	G	338	ARG	CA-CB-CG	5.70	125.49	114.10
1	J	248	PHE	CA-C-O	-5.70	114.55	120.70
1	N	267	VAL	N-CA-CB	5.70	117.31	110.31
1	O	52	ILE	CB-CA-C	-5.70	104.01	111.81
1	B	180	VAL	CB-CA-C	-5.69	101.95	111.29
1	K	112	PRO	N-CD-CG	-5.69	94.66	103.20
1	A	172	GLY	N-CA-C	-5.69	99.69	113.18
1	D	76	HIS	CA-C-O	5.69	126.46	120.54
1	E	272	PRO	O-C-N	5.69	129.55	123.01
1	H	359	ASN	N-CA-C	-5.69	105.07	113.61
1	H	133	SER	N-CA-C	-5.69	106.21	114.12
1	A	171	LYS	CD-CE-NZ	-5.69	93.70	111.90
1	F	97	ARG	CG-CD-NE	5.69	124.51	112.00
1	F	136	ALA	N-CA-C	5.69	118.48	110.23
1	H	301	THR	OG1-CB-CG2	5.69	120.67	109.30
1	K	464	LEU	CD1-CG-CD2	-5.69	98.29	110.80
1	C	124	ASN	O-C-N	-5.69	114.33	122.29
1	D	173	SER	O-C-N	5.69	127.86	121.32
1	O	358	THR	OG1-CB-CG2	5.69	120.67	109.30
1	F	220	VAL	CA-CB-CG1	-5.68	100.74	110.40
1	F	367	GLY	CA-C-O	5.68	128.69	121.53
1	I	153	GLN	CB-CA-C	-5.68	102.16	110.06
1	J	150	ASP	CB-CG-OD2	5.68	131.47	118.40
1	K	248	PHE	CA-C-O	-5.68	114.69	121.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	117	ILE	N-CA-CB	-5.68	100.15	111.91
1	B	208	MET	CG-SD-CE	5.68	113.40	100.90
1	E	334	VAL	CG1-CB-CG2	-5.68	98.30	110.80
1	F	305	GLN	N-CA-C	5.68	122.90	110.80
1	F	398	ILE	O-C-N	5.68	128.09	121.96
1	I	459	LEU	N-CA-C	-5.68	106.12	113.16
1	N	201	VAL	CA-CB-CG1	-5.68	100.75	110.40
1	A	345	CYS	N-CA-C	5.68	118.47	109.50
1	C	318	GLY	CA-C-O	-5.67	115.19	121.94
1	I	82	LYS	CG-CD-CE	-5.67	98.25	111.30
1	M	336	THR	OG1-CB-CG2	5.67	120.65	109.30
1	A	50	PHE	CA-C-N	5.67	126.54	120.13
1	A	50	PHE	C-N-CA	5.67	126.54	120.13
1	G	112	PRO	N-CD-CG	-5.67	94.69	103.20
1	E	331	VAL	CA-C-O	5.67	126.34	120.39
1	G	199	ASP	CA-C-N	-5.67	114.90	122.72
1	G	199	ASP	C-N-CA	-5.67	114.90	122.72
1	B	210	PHE	CA-C-O	5.67	126.49	119.97
1	C	173	SER	O-C-N	5.67	127.84	121.32
1	E	207	ALA	O-C-N	5.67	129.65	123.13
1	N	288	SER	CA-C-N	-5.67	113.19	122.54
1	N	288	SER	C-N-CA	-5.67	113.19	122.54
1	B	214	GLN	CB-CG-CD	5.66	122.23	112.60
1	C	61	LEU	N-CA-C	-5.66	105.87	112.89
1	F	323	ILE	CB-CA-C	-5.66	104.57	111.88
1	H	216	ASN	CA-C-N	-5.66	114.19	122.40
1	H	216	ASN	C-N-CA	-5.66	114.19	122.40
1	F	155	GLN	CG-CD-NE2	-5.66	107.91	116.40
1	K	397	THR	OG1-CB-CG2	5.66	120.62	109.30
1	N	50	PHE	O-C-N	5.66	125.33	121.71
1	O	63	PRO	CA-C-N	-5.66	113.41	121.50
1	O	63	PRO	C-N-CA	-5.66	113.41	121.50
1	G	42	LEU	N-CA-C	5.66	118.47	110.50
1	E	292	PHE	CB-CA-C	5.65	117.94	109.63
1	N	194	VAL	CB-CA-C	-5.65	104.47	111.08
1	F	193	THR	OG1-CB-CG2	-5.65	97.99	109.30
1	L	321	ASN	CA-C-N	-5.65	110.33	121.41
1	L	321	ASN	C-N-CA	-5.65	110.33	121.41
1	N	327	ASN	N-CA-C	-5.65	105.00	112.24
1	A	66	SER	CA-CB-OG	5.65	122.40	111.10
1	B	165	ILE	CB-CG1-CD1	-5.65	101.93	113.80
1	N	27	TYR	O-C-N	-5.65	115.05	122.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	222	LEU	CB-CG-CD2	-5.65	93.75	110.70
1	O	456	SER	CA-C-N	-5.65	112.27	120.29
1	O	456	SER	C-N-CA	-5.65	112.27	120.29
1	B	54	LYS	N-CA-C	5.65	116.10	109.60
1	F	177	GLN	N-CA-C	-5.65	98.77	110.80
1	F	284	ALA	N-CA-C	-5.65	106.05	113.17
1	O	156	LEU	N-CA-C	5.65	117.77	109.24
1	O	159	ILE	CA-CB-CG2	-5.65	100.90	110.50
1	F	268	GLY	CA-C-O	5.65	127.23	120.90
1	H	47	HIS	CA-C-N	5.65	125.36	119.82
1	H	47	HIS	C-N-CA	5.65	125.36	119.82
1	G	203	THR	N-CA-C	5.65	120.87	113.30
1	B	191	ILE	N-CA-C	5.64	115.99	107.75
1	D	381	ILE	N-CA-C	5.64	116.12	107.77
1	E	99	VAL	N-CA-C	-5.64	100.09	108.45
1	F	194	VAL	N-CA-C	5.64	116.89	108.54
1	M	237	MET	N-CA-C	5.64	117.43	111.28
1	O	74	ARG	CB-CA-C	-5.64	101.51	111.22
1	H	271	VAL	CA-C-N	-5.64	114.12	119.76
1	H	271	VAL	C-N-CA	-5.64	114.12	119.76
1	I	299	MET	CB-CG-SD	-5.64	95.77	112.70
1	L	101	ALA	CA-C-N	-5.64	115.03	122.99
1	L	101	ALA	C-N-CA	-5.64	115.03	122.99
1	K	332	THR	N-CA-C	5.64	117.92	107.99
1	F	200	MET	N-CA-C	5.64	118.43	109.24
1	C	339	SER	O-C-N	5.64	129.30	122.48
1	A	310	PRO	CA-C-O	-5.63	114.38	120.97
1	K	361	LYS	CA-CB-CG	-5.63	102.83	114.10
1	L	105	VAL	CG1-CB-CG2	-5.63	98.41	110.80
1	D	302	SER	CA-CB-OG	-5.63	99.83	111.10
1	E	300	VAL	CA-CB-CG2	-5.63	100.83	110.40
1	B	79	ASP	CA-C-O	5.63	124.70	119.24
1	F	366	HIS	CA-C-N	5.63	127.41	121.45
1	F	366	HIS	C-N-CA	5.63	127.41	121.45
1	E	263	ARG	NH1-CZ-NH2	-5.62	111.99	119.30
1	A	364	LEU	O-C-N	-5.62	116.61	123.30
1	H	320	ASN	N-CA-C	-5.62	102.96	110.55
1	I	215	ALA	N-CA-C	-5.62	105.30	111.82
1	K	121	PRO	CA-C-N	-5.62	115.49	123.03
1	K	121	PRO	C-N-CA	-5.62	115.49	123.03
1	A	185	CYS	N-CA-C	5.62	122.23	109.81
1	F	74	ARG	CB-CA-C	-5.62	101.15	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	337	THR	N-CA-C	5.62	122.77	110.80
1	K	85	PHE	CA-C-N	5.62	126.36	120.12
1	K	85	PHE	C-N-CA	5.62	126.36	120.12
1	N	211	THR	OG1-CB-CG2	-5.62	98.06	109.30
1	H	253	GLU	N-CA-C	5.62	118.64	109.59
1	K	366	HIS	CA-C-N	-5.62	116.62	122.69
1	K	366	HIS	C-N-CA	-5.62	116.62	122.69
1	M	243	GLY	N-CA-C	5.62	123.87	113.76
1	C	369	GLU	CA-C-O	5.62	126.30	120.40
1	I	68	LEU	CA-CB-CG	-5.62	96.64	116.30
1	K	375	ILE	CB-CA-C	-5.62	104.01	110.41
1	F	71	ARG	NE-CZ-NH2	5.61	124.25	119.20
1	L	340	THR	CA-CB-OG1	5.61	118.02	109.60
1	A	163	PRO	N-CA-CB	-5.61	97.64	103.08
1	I	149	MET	CB-CG-SD	5.61	129.54	112.70
1	A	174	PRO	N-CA-C	5.61	124.03	112.47
1	B	29	ALA	CA-C-N	-5.61	115.19	123.05
1	B	29	ALA	C-N-CA	-5.61	115.19	123.05
1	G	178	VAL	N-CA-C	5.61	121.01	109.34
1	J	148	SER	CA-C-O	5.61	127.39	121.33
1	K	464	LEU	CB-CG-CD1	-5.61	93.87	110.70
1	L	122	LEU	CB-CG-CD2	-5.61	93.87	110.70
1	N	449	VAL	CA-C-N	-5.61	114.88	123.07
1	N	449	VAL	C-N-CA	-5.61	114.88	123.07
1	A	346	ALA	CA-C-O	-5.61	114.77	121.11
1	H	105	VAL	CA-C-N	-5.61	114.88	122.95
1	H	105	VAL	C-N-CA	-5.61	114.88	122.95
1	H	296	SER	N-CA-C	5.61	118.57	108.48
1	D	222	LEU	O-C-N	-5.61	115.14	122.59
1	G	219	GLU	N-CA-C	5.61	120.23	113.17
1	F	340	THR	CA-C-N	-5.60	115.10	123.00
1	F	340	THR	C-N-CA	-5.60	115.10	123.00
1	K	358	THR	N-CA-CB	5.60	118.60	110.65
1	A	42	LEU	CA-C-O	-5.60	115.38	121.87
1	I	105	VAL	CA-CB-CG1	-5.60	100.88	110.40
1	M	52	ILE	CB-CG1-CD1	-5.60	102.04	113.80
1	N	113	LEU	N-CA-C	-5.60	103.14	110.53
1	D	366	HIS	O-C-N	5.60	129.86	123.31
1	J	65	VAL	N-CA-C	5.60	116.57	106.61
1	K	188	LEU	CB-CG-CD2	-5.60	93.91	110.70
1	L	381	ILE	CA-C-O	-5.60	114.71	120.25
1	A	452	LYS	CG-CD-CE	-5.59	98.43	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	48	PRO	N-CD-CG	-5.59	94.81	103.20
1	I	281	GLY	CA-C-N	5.59	130.09	121.19
1	I	281	GLY	C-N-CA	5.59	130.09	121.19
1	M	117	ILE	N-CA-CB	-5.59	101.91	110.86
1	C	312	TRP	N-CA-CB	-5.59	100.78	110.17
1	E	250	LEU	N-CA-C	-5.59	99.56	109.06
1	D	178	VAL	CG1-CB-CG2	5.59	123.09	110.80
1	E	48	PRO	N-CA-C	5.59	121.19	113.98
1	N	29	ALA	CA-C-N	-5.59	115.12	123.00
1	N	29	ALA	C-N-CA	-5.59	115.12	123.00
1	A	375	ILE	CA-C-O	-5.59	114.63	120.27
1	E	192	ASN	CA-C-O	5.59	128.31	121.72
1	G	306	ILE	CA-CB-CG1	-5.59	100.90	110.40
1	H	172	GLY	N-CA-C	-5.59	99.94	113.18
1	K	399	LEU	N-CA-C	-5.58	105.11	111.14
1	F	297	GLY	CA-C-O	5.58	130.29	120.57
1	H	258	ARG	NE-CZ-NH2	5.58	124.22	119.20
1	O	149	MET	N-CA-C	5.58	115.75	107.88
1	B	42	LEU	CA-C-O	-5.58	114.66	121.36
1	D	42	LEU	CA-C-O	-5.58	115.63	121.99
1	J	348	ILE	N-CA-C	-5.58	97.73	109.34
1	L	115	VAL	CA-C-O	5.58	127.20	120.67
1	M	152	LYS	N-CA-C	5.58	118.11	110.24
1	B	381	ILE	N-CA-C	5.58	116.61	107.24
1	C	445	THR	N-CA-C	5.58	117.49	108.34
1	D	161	CYS	N-CA-C	-5.58	106.52	113.38
1	M	223	ASP	CB-CA-C	-5.58	99.96	110.67
1	O	287	ALA	N-CA-C	-5.58	101.45	110.32
1	O	115	VAL	N-CA-C	5.58	116.61	108.58
1	O	289	SER	N-CA-C	-5.58	106.06	112.92
1	M	269	GLU	CG-CD-OE2	5.58	131.22	118.40
1	C	115	VAL	CA-C-O	5.57	128.48	121.40
1	C	264	ALA	N-CA-C	-5.57	103.17	110.53
1	G	300	VAL	N-CA-CB	5.57	116.61	110.53
1	B	133	SER	CA-C-O	5.57	124.90	118.55
1	C	211	THR	OG1-CB-CG2	5.57	120.44	109.30
1	D	174	PRO	N-CA-C	5.57	123.94	112.47
1	G	289	SER	N-CA-CB	-5.57	101.92	110.44
1	I	351	SER	CA-CB-OG	-5.57	99.96	111.10
1	M	163	PRO	N-CA-CB	-5.57	97.68	103.08
1	N	86	PRO	CB-CG-CD	-5.57	88.27	106.10
1	G	64	LYS	CB-CA-C	-5.57	102.20	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	116	GLY	CA-C-N	-5.57	113.84	122.69
1	L	116	GLY	C-N-CA	-5.57	113.84	122.69
1	H	186	PRO	N-CA-C	5.57	117.49	110.70
1	K	460	ASP	CB-CG-OD2	-5.57	105.59	118.40
1	L	459	LEU	CA-C-O	5.57	126.24	119.11
1	O	129	THR	CA-C-O	5.57	125.50	119.15
1	D	31	THR	CA-C-O	-5.57	115.09	121.82
1	G	74	ARG	NE-CZ-NH2	5.57	124.21	119.20
1	I	388	MET	N-CA-C	-5.57	106.45	113.18
1	N	50	PHE	CA-C-O	-5.57	115.38	120.50
1	C	135	TYR	CA-C-O	-5.56	114.58	120.92
1	C	155	GLN	CB-CG-CD	-5.56	103.14	112.60
1	A	152	LYS	O-C-N	-5.56	116.88	123.11
1	A	266	THR	N-CA-C	5.56	117.87	110.53
1	B	241	PRO	N-CD-CG	-5.56	94.86	103.20
1	I	248	PHE	CA-C-N	-5.56	112.01	121.85
1	I	248	PHE	C-N-CA	-5.56	112.01	121.85
1	F	294	THR	CA-CB-OG1	5.56	117.94	109.60
1	I	356	LYS	N-CA-CB	-5.56	102.04	110.77
1	J	294	THR	CB-CA-C	-5.56	100.80	109.08
1	M	64	LYS	CA-CB-CG	-5.56	102.98	114.10
1	M	253	GLU	N-CA-CB	-5.56	101.35	110.41
1	B	91	TYR	N-CA-C	5.55	117.42	109.14
1	D	257	VAL	CA-C-O	-5.55	113.97	120.75
1	F	276	TYR	N-CA-C	5.55	115.57	108.24
1	K	296	SER	CA-C-O	5.55	127.16	120.27
1	K	335	ASP	O-C-N	-5.55	115.79	123.12
1	L	208	MET	CA-C-N	-5.55	114.97	122.86
1	L	208	MET	C-N-CA	-5.55	114.97	122.86
1	A	194	VAL	N-CA-CB	5.55	116.58	110.53
1	B	313	LEU	CB-CA-C	-5.55	102.68	111.17
1	A	150	ASP	CB-CA-C	-5.55	103.35	111.23
1	F	70	TYR	O-C-N	-5.55	116.07	122.95
1	G	347	ALA	N-CA-C	-5.55	101.08	109.85
1	H	33	ILE	CB-CG1-CD1	-5.55	102.15	113.80
1	N	389	THR	CA-CB-CG2	-5.55	101.07	110.50
1	K	386	ASP	O-C-N	5.55	130.11	122.46
1	D	449	VAL	O-C-N	-5.54	117.98	122.97
1	L	283	THR	O-C-N	-5.54	114.34	122.43
1	N	256	PHE	CA-C-N	-5.54	115.44	122.37
1	N	256	PHE	C-N-CA	-5.54	115.44	122.37
1	N	163	PRO	CA-C-N	5.54	125.49	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	163	PRO	C-N-CA	5.54	125.49	119.78
1	A	256	PHE	O-C-N	5.54	129.35	123.42
1	J	330	PHE	N-CA-C	5.54	118.23	107.71
1	E	335	ASP	CA-C-O	5.54	127.13	120.27
1	H	470	LEU	CB-CG-CD1	-5.54	94.10	110.70
1	D	115	VAL	CA-CB-CG2	-5.53	100.99	110.40
1	F	150	ASP	CB-CA-C	-5.53	103.36	111.77
1	F	381	ILE	N-CA-CB	-5.53	104.93	111.90
1	L	176	THR	OG1-CB-CG2	5.53	120.37	109.30
1	N	192	ASN	CA-CB-CG	5.53	118.13	112.60
1	J	101	ALA	CA-C-N	-5.53	115.37	123.00
1	J	101	ALA	C-N-CA	-5.53	115.37	123.00
1	K	338	ARG	N-CA-C	-5.53	98.78	109.24
1	A	38	GLY	CA-C-N	5.53	128.62	120.82
1	A	38	GLY	C-N-CA	5.53	128.62	120.82
1	A	315	ARG	NH1-CZ-NH2	5.53	126.49	119.30
1	C	65	VAL	CG1-CB-CG2	-5.53	98.63	110.80
1	E	54	LYS	CD-CE-NZ	5.53	129.60	111.90
1	E	337	THR	CB-CA-C	-5.53	99.41	110.42
1	K	65	VAL	CG1-CB-CG2	-5.53	98.64	110.80
1	K	251	ARG	NE-CZ-NH2	5.53	124.18	119.20
1	M	74	ARG	NE-CZ-NH2	5.53	124.18	119.20
1	M	320	ASN	O-C-N	-5.53	116.01	122.81
1	D	95	THR	OG1-CB-CG2	5.53	120.36	109.30
1	D	370	TYR	CA-C-O	-5.53	115.63	121.88
1	A	74	ARG	N-CA-C	-5.53	98.35	108.02
1	C	312	TRP	N-CA-C	5.53	117.75	108.96
1	H	226	THR	O-C-N	5.53	128.82	122.25
1	H	103	VAL	CA-C-O	5.52	124.67	118.98
1	H	219	GLU	CB-CG-CD	-5.52	103.21	112.60
1	C	27	TYR	N-CA-C	5.52	119.50	112.87
1	O	148	SER	CA-CB-OG	-5.52	100.06	111.10
1	O	21	VAL	CA-C-O	-5.52	115.75	121.93
1	D	85	PHE	CA-C-O	-5.52	115.06	120.19
1	E	258	ARG	CB-CG-CD	5.52	123.99	111.30
1	M	461	GLN	CA-C-O	5.52	126.46	119.95
1	O	365	ARG	CB-CG-CD	-5.52	98.61	111.30
1	A	294	THR	CA-C-N	5.52	126.81	120.85
1	A	294	THR	C-N-CA	5.52	126.81	120.85
1	M	180	VAL	CB-CA-C	-5.52	102.24	111.29
1	A	348	ILE	N-CA-C	-5.52	105.28	113.39
1	L	35	TYR	N-CA-C	5.52	118.39	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	72	VAL	CA-CB-CG1	-5.51	101.03	110.40
1	J	28	VAL	CA-C-N	-5.51	115.21	122.99
1	J	28	VAL	C-N-CA	-5.51	115.21	122.99
1	O	449	VAL	CA-C-N	-5.51	115.67	122.84
1	O	449	VAL	C-N-CA	-5.51	115.67	122.84
1	J	175	CYS	CA-CB-SG	-5.51	101.72	114.40
1	C	131	ASN	N-CA-C	-5.51	99.06	110.80
1	D	118	SER	CA-C-O	-5.51	114.66	121.11
1	H	77	LEU	CA-C-N	5.51	125.78	119.83
1	H	77	LEU	C-N-CA	5.51	125.78	119.83
1	L	228	ILE	CA-C-N	-5.51	115.03	123.07
1	L	228	ILE	C-N-CA	-5.51	115.03	123.07
1	O	180	VAL	CA-C-O	5.51	127.67	120.78
1	O	200	MET	N-CA-C	5.51	118.22	109.24
1	D	155	GLN	CB-CA-C	-5.51	102.30	110.62
1	N	180	VAL	CB-CA-C	-5.51	102.26	111.29
1	H	215	ALA	O-C-N	5.51	127.96	122.12
1	I	175	CYS	CB-CA-C	5.51	119.77	110.79
1	O	73	PHE	O-C-N	-5.51	116.77	123.16
1	G	298	SER	CB-CA-C	-5.50	99.47	110.42
1	G	107	VAL	CA-C-O	5.50	127.53	120.76
1	I	181	GLN	CB-CA-C	5.50	117.49	110.34
1	J	398	ILE	CA-C-O	-5.50	113.90	120.78
1	L	319	HIS	CA-C-N	-5.50	112.44	120.75
1	L	319	HIS	C-N-CA	-5.50	112.44	120.75
1	N	237	MET	CA-C-O	5.50	126.30	119.97
1	D	27	TYR	N-CA-C	5.50	119.61	113.01
1	F	134	ALA	CA-C-O	-5.50	115.05	121.10
1	G	233	ASP	N-CA-CB	5.50	117.24	110.53
1	K	348	ILE	N-CA-C	-5.50	104.96	113.16
1	D	280	SER	O-C-N	5.50	129.84	123.41
1	M	192	ASN	O-C-N	-5.50	116.81	123.03
1	E	312	TRP	N-CA-CB	-5.50	101.92	110.55
1	F	120	HIS	CA-C-N	-5.50	113.23	119.28
1	F	120	HIS	C-N-CA	-5.50	113.23	119.28
1	I	202	ASP	CA-CB-CG	-5.50	107.10	112.60
1	E	470	LEU	CA-C-N	5.50	128.23	121.64
1	E	470	LEU	C-N-CA	5.50	128.23	121.64
1	F	259	HIS	CA-C-N	-5.50	115.24	122.99
1	F	259	HIS	C-N-CA	-5.50	115.24	122.99
1	F	441	LEU	N-CA-C	-5.50	106.36	112.57
1	A	355	TYR	CA-C-N	-5.49	113.05	121.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	355	TYR	C-N-CA	-5.49	113.05	121.40
1	I	28	VAL	CB-CA-C	-5.49	102.44	110.62
1	M	315	ARG	CA-CB-CG	-5.49	103.11	114.10
1	L	439	ASP	O-C-N	5.49	126.19	121.30
1	N	282	SER	N-CA-CB	-5.49	101.21	110.49
1	O	332	THR	CB-CA-C	-5.49	101.30	110.19
1	G	381	ILE	CB-CA-C	-5.49	104.15	110.41
1	L	444	TYR	CA-C-O	-5.49	115.04	121.46
1	E	358	THR	CA-C-O	5.49	127.40	120.65
1	G	338	ARG	CA-C-N	5.49	130.98	122.26
1	G	338	ARG	C-N-CA	5.49	130.98	122.26
1	J	155	GLN	CB-CG-CD	-5.49	103.28	112.60
1	O	271	VAL	CB-CA-C	-5.49	101.38	111.36
1	G	461	GLN	CA-C-O	5.48	125.95	119.48
1	A	71	ARG	NH1-CZ-NH2	-5.48	112.17	119.30
1	D	341	ASN	N-CA-C	-5.48	100.30	109.24
1	L	332	THR	CA-CB-CG2	-5.48	101.18	110.50
1	G	231	TYR	CA-C-N	5.48	125.79	119.93
1	G	231	TYR	C-N-CA	5.48	125.79	119.93
1	J	92	ASN	CB-CA-C	5.48	117.80	110.13
1	N	313	LEU	CB-CA-C	-5.48	101.91	111.23
1	D	159	ILE	CB-CG1-CD1	-5.48	102.29	113.80
1	L	240	GLU	CA-C-N	5.48	126.69	119.84
1	L	240	GLU	C-N-CA	5.48	126.69	119.84
1	D	181	GLN	CB-CA-C	5.47	117.79	110.13
1	D	294	THR	CA-C-O	-5.47	115.67	120.60
1	L	469	LEU	O-C-N	-5.47	116.40	122.09
1	B	306	ILE	N-CA-CB	-5.47	104.80	112.35
1	D	33	ILE	CA-C-O	5.47	126.14	120.39
1	D	311	TYR	CA-C-N	-5.47	115.17	122.72
1	D	311	TYR	C-N-CA	-5.47	115.17	122.72
1	I	108	GLY	CA-C-N	-5.47	115.45	123.00
1	I	108	GLY	C-N-CA	-5.47	115.45	123.00
1	J	93	PRO	CA-N-CD	-5.47	104.34	112.00
1	F	286	LEU	N-CA-C	5.47	118.41	110.42
1	O	282	SER	N-CA-C	-5.47	104.34	111.02
1	A	459	LEU	N-CA-CB	-5.47	100.82	110.39
1	B	375	ILE	CB-CA-C	-5.47	101.64	110.28
1	C	271	VAL	CB-CA-C	-5.47	101.41	111.36
1	G	348	ILE	CB-CG1-CD1	-5.47	102.31	113.80
1	O	219	GLU	CA-CB-CG	-5.47	103.16	114.10
1	K	112	PRO	CA-C-N	5.47	128.53	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	112	PRO	C-N-CA	5.47	128.53	120.82
1	N	223	ASP	N-CA-C	5.47	118.42	111.69
1	C	398	ILE	CA-C-N	5.47	128.06	120.63
1	C	398	ILE	C-N-CA	5.47	128.06	120.63
1	G	328	GLN	CA-C-O	5.47	126.95	120.66
1	N	75	ILE	CB-CG1-CD1	-5.47	102.32	113.80
1	F	99	VAL	CA-C-N	-5.46	112.79	122.74
1	F	99	VAL	C-N-CA	-5.46	112.79	122.74
1	H	219	GLU	CA-CB-CG	-5.46	103.17	114.10
1	M	164	PRO	CA-N-CD	-5.46	104.35	112.00
1	O	271	VAL	CA-C-O	-5.46	112.63	119.95
1	L	114	GLY	N-CA-C	-5.46	103.10	110.80
1	D	139	ALA	CA-C-O	-5.46	114.86	120.54
1	H	22	VAL	CB-CA-C	-5.46	101.35	111.18
1	H	221	PRO	CA-C-N	5.46	127.86	120.38
1	H	221	PRO	C-N-CA	5.46	127.86	120.38
1	J	82	LYS	CG-CD-CE	-5.46	98.74	111.30
1	M	226	THR	CA-C-O	5.46	126.39	119.95
1	O	167	GLU	CG-CD-OE1	-5.46	105.84	118.40
1	D	268	GLY	N-CA-C	-5.46	106.06	113.37
1	C	117	ILE	O-C-N	-5.46	116.73	122.95
1	J	88	THR	OG1-CB-CG2	5.46	120.21	109.30
1	J	157	CYS	N-CA-CB	-5.46	101.36	110.80
1	O	336	THR	N-CA-CB	5.46	118.44	110.47
1	E	191	ILE	N-CA-C	5.45	115.74	108.11
1	G	223	ASP	CA-C-N	-5.45	112.16	121.97
1	G	223	ASP	C-N-CA	-5.45	112.16	121.97
1	N	349	SER	CA-C-O	5.45	128.31	120.51
1	A	213	LEU	CA-C-O	5.45	125.98	119.60
1	B	294	THR	CA-CB-CG2	5.45	119.77	110.50
1	D	180	VAL	N-CA-C	5.45	120.68	109.34
1	E	164	PRO	O-C-N	-5.45	116.25	123.01
1	H	224	ILE	N-CA-C	5.45	120.03	112.35
1	I	31	THR	N-CA-CB	5.45	117.85	110.38
1	M	208	MET	CA-C-N	-5.45	113.88	122.76
1	M	208	MET	C-N-CA	-5.45	113.88	122.76
1	J	93	PRO	CB-CG-CD	-5.45	88.66	106.10
1	B	118	SER	O-C-N	5.45	129.76	123.17
1	F	34	TYR	CA-C-N	-5.45	114.10	122.87
1	F	34	TYR	C-N-CA	-5.45	114.10	122.87
1	H	21	VAL	CA-C-O	-5.45	114.51	120.72
1	A	112	PRO	N-CA-C	5.44	119.75	111.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	177	GLN	CA-C-N	5.44	131.77	121.97
1	H	177	GLN	C-N-CA	5.44	131.77	121.97
1	J	358	THR	OG1-CB-CG2	5.44	120.19	109.30
1	O	230	LYS	CD-CE-NZ	-5.44	94.48	111.90
1	D	33	ILE	CA-C-N	-5.44	113.19	122.33
1	D	33	ILE	C-N-CA	-5.44	113.19	122.33
1	M	72	VAL	O-C-N	-5.44	115.77	122.57
1	M	381	ILE	CB-CA-C	-5.44	102.36	111.29
1	G	263	ARG	NH1-CZ-NH2	-5.44	112.23	119.30
1	L	213	LEU	N-CA-C	-5.44	105.77	112.90
1	M	138	ASN	N-CA-C	5.44	122.39	110.80
1	D	315	ARG	NE-CZ-NH1	-5.44	116.06	121.50
1	N	264	ALA	N-CA-C	-5.44	101.93	110.36
1	B	464	LEU	CB-CG-CD1	5.44	127.02	110.70
1	J	34	TYR	CA-C-N	-5.44	113.67	122.81
1	J	34	TYR	C-N-CA	-5.44	113.67	122.81
1	O	397	THR	CA-CB-CG2	5.44	119.74	110.50
1	D	242	TYR	CA-C-O	5.44	126.07	119.11
1	N	236	LYS	CA-C-O	-5.44	113.37	120.00
1	B	469	LEU	CA-C-O	5.43	126.22	119.97
1	M	208	MET	CB-CA-C	-5.43	99.61	110.42
1	N	88	THR	O-C-N	-5.43	115.90	122.48
1	C	177	GLN	N-CA-C	-5.43	99.43	108.07
1	I	469	LEU	CD1-CG-CD2	5.43	122.75	110.80
1	K	239	SER	CA-C-N	5.43	127.95	120.67
1	K	239	SER	C-N-CA	5.43	127.95	120.67
1	M	34	TYR	N-CA-C	5.43	117.25	108.34
1	M	338	ARG	CG-CD-NE	5.43	123.95	112.00
1	H	43	LEU	CD1-CG-CD2	-5.43	98.85	110.80
1	L	111	GLN	CA-C-O	-5.43	114.32	120.46
1	N	35	TYR	N-CA-C	5.43	118.58	109.95
1	B	158	LEU	N-CA-CB	5.43	119.80	110.68
1	E	312	TRP	CA-C-O	5.43	126.29	120.32
1	G	136	ALA	N-CA-C	5.43	117.69	110.53
1	G	337	THR	N-CA-C	5.43	122.36	110.80
1	H	256	PHE	N-CA-C	5.43	117.09	108.79
1	N	361	LYS	CB-CG-CD	-5.43	98.82	111.30
1	B	110	GLY	CA-C-N	-5.42	111.67	122.90
1	B	110	GLY	C-N-CA	-5.42	111.67	122.90
1	E	143	ASN	N-CA-C	-5.42	106.43	113.16
1	H	115	VAL	CA-CB-CG1	5.42	119.62	110.40
1	M	71	ARG	NH1-CZ-NH2	-5.42	112.25	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	217	LYS	N-CA-C	5.42	119.06	111.90
1	B	277	ILE	CA-C-O	-5.42	115.53	121.28
1	E	257	VAL	CG1-CB-CG2	5.42	122.73	110.80
1	N	375	ILE	CA-C-N	-5.42	114.39	122.74
1	N	375	ILE	C-N-CA	-5.42	114.39	122.74
1	B	195	ILE	N-CA-CB	-5.42	105.48	111.66
1	F	129	THR	CA-C-N	5.42	127.48	120.44
1	F	129	THR	C-N-CA	5.42	127.48	120.44
1	E	195	ILE	CA-CB-CG2	-5.42	101.29	110.50
1	D	460	ASP	CB-CG-OD2	-5.42	105.95	118.40
1	K	459	LEU	CA-C-O	5.42	126.04	119.38
1	C	396	SER	CB-CA-C	5.41	119.83	110.84
1	M	267	VAL	CB-CA-C	-5.41	104.20	110.91
1	D	72	VAL	CA-CB-CG1	-5.41	101.20	110.40
1	F	325	TRP	N-CA-C	-5.41	102.19	110.30
1	G	461	GLN	N-CA-C	5.41	120.57	112.94
1	N	246	LEU	CA-C-N	-5.41	113.75	122.24
1	N	246	LEU	C-N-CA	-5.41	113.75	122.24
1	E	266	THR	CA-C-N	-5.41	112.24	121.97
1	E	266	THR	C-N-CA	-5.41	112.24	121.97
1	J	96	GLN	N-CA-C	5.41	117.06	110.41
1	J	130	GLU	CA-CB-CG	5.41	124.91	114.10
1	A	266	THR	CA-C-O	-5.40	115.60	121.87
1	C	332	THR	CA-CB-CG2	-5.40	101.31	110.50
1	C	231	TYR	CA-C-N	5.40	126.59	119.84
1	C	231	TYR	C-N-CA	5.40	126.59	119.84
1	G	216	ASN	N-CA-C	5.40	122.31	110.80
1	M	256	PHE	CA-C-O	-5.40	115.50	121.28
1	N	66	SER	CA-C-N	-5.40	110.82	121.41
1	N	66	SER	C-N-CA	-5.40	110.82	121.41
1	D	304	ALA	O-C-N	5.40	128.12	122.23
1	E	345	CYS	CA-C-N	-5.40	113.98	122.73
1	E	345	CYS	C-N-CA	-5.40	113.98	122.73
1	G	157	CYS	O-C-N	5.40	129.95	123.36
1	K	449	VAL	CB-CA-C	-5.40	103.08	110.96
1	O	117	ILE	N-CA-CB	-5.40	101.99	111.39
1	B	297	GLY	N-CA-C	-5.40	100.38	113.18
1	C	347	ALA	O-C-N	5.40	129.00	122.68
1	D	60	ILE	CG1-CB-CG2	-5.40	94.51	110.70
1	J	327	ASN	N-CA-C	-5.40	106.64	113.23
1	N	49	TYR	O-C-N	5.40	128.27	121.95
1	I	468	PHE	O-C-N	5.40	127.85	122.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	198	GLY	N-CA-C	-5.40	107.08	114.64
1	A	368	GLU	O-C-N	-5.39	116.57	123.26
1	K	381	ILE	O-C-N	-5.39	117.38	123.20
1	B	470	LEU	CB-CA-C	-5.39	101.48	110.81
1	D	392	HIS	N-CA-C	-5.39	106.38	113.12
1	E	263	ARG	CA-C-O	5.39	128.22	120.51
1	E	128	ASP	CA-C-O	-5.39	114.45	120.54
1	L	76	HIS	N-CA-C	5.39	117.09	108.41
1	O	92	ASN	O-C-N	5.39	126.54	120.83
1	B	60	ILE	N-CA-C	5.39	115.34	108.12
1	O	338	ARG	N-CA-C	5.39	117.95	107.71
1	B	267	VAL	O-C-N	5.39	129.30	122.57
1	F	179	ALA	N-CA-C	-5.39	102.35	110.70
1	F	247	PHE	CB-CA-C	5.39	118.07	109.02
1	H	153	GLN	CA-C-O	-5.39	114.33	120.58
1	H	467	LYS	CB-CG-CD	-5.39	98.91	111.30
1	K	277	ILE	CG1-CB-CG2	-5.39	94.54	110.70
1	B	196	GLN	CA-C-O	-5.38	115.46	121.81
1	B	449	VAL	CA-C-N	-5.38	115.21	123.07
1	B	449	VAL	C-N-CA	-5.38	115.21	123.07
1	F	77	LEU	O-C-N	5.38	126.72	121.66
1	I	294	THR	CB-CA-C	-5.38	101.20	108.68
1	M	402	TRP	CB-CA-C	-5.38	102.23	109.71
1	H	466	ARG	NH1-CZ-NH2	-5.38	112.30	119.30
1	L	211	THR	CA-C-N	-5.38	113.28	122.11
1	L	211	THR	C-N-CA	-5.38	113.28	122.11
1	M	164	PRO	N-CD-CG	-5.38	95.13	103.20
1	E	276	TYR	N-CA-CB	-5.38	102.58	110.97
1	J	232	PRO	N-CA-CB	-5.38	98.35	103.19
1	C	284	ALA	CA-C-O	5.38	125.28	119.15
1	D	115	VAL	N-CA-C	5.38	117.38	108.99
1	N	259	HIS	N-CA-C	5.38	117.16	109.14
1	I	22	VAL	CB-CA-C	-5.38	101.35	111.30
1	I	177	GLN	CA-CB-CG	-5.38	103.35	114.10
1	L	151	TYR	N-CA-CB	-5.38	101.40	110.49
1	I	98	LEU	N-CA-C	5.38	118.69	110.20
1	I	281	GLY	N-CA-C	-5.38	100.44	113.18
1	C	269	GLU	CA-C-N	-5.37	114.14	122.09
1	C	269	GLU	C-N-CA	-5.37	114.14	122.09
1	G	152	LYS	CB-CG-CD	-5.37	98.94	111.30
1	G	223	ASP	CA-CB-CG	-5.37	107.23	112.60
1	L	192	ASN	N-CA-CB	-5.37	102.12	110.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	166	GLY	CA-C-O	-5.37	116.67	122.47
1	D	326	GLY	N-CA-C	-5.37	107.91	115.32
1	M	339	SER	O-C-N	5.37	129.69	122.49
1	K	365	ARG	NE-CZ-NH1	-5.37	116.13	121.50
1	L	402	TRP	N-CA-C	-5.37	102.35	110.24
1	A	151	TYR	N-CA-C	5.37	122.23	110.80
1	B	271	VAL	CB-CA-C	-5.37	105.95	110.94
1	K	440	PRO	O-C-N	5.37	130.04	122.37
1	D	311	TYR	CA-C-O	-5.37	114.58	120.43
1	E	371	ASP	CA-C-N	-5.37	113.52	122.64
1	E	371	ASP	C-N-CA	-5.37	113.52	122.64
1	G	186	PRO	N-CA-C	5.37	115.62	110.47
1	K	193	THR	OG1-CB-CG2	-5.37	98.57	109.30
1	L	261	PHE	N-CA-CB	-5.37	102.77	110.87
1	M	68	LEU	O-C-N	5.37	128.17	121.84
1	M	466	ARG	N-CA-C	5.37	122.23	110.80
1	L	219	GLU	CA-C-O	5.36	124.85	118.79
1	A	348	ILE	CG1-CB-CG2	-5.36	94.62	110.70
1	F	315	ARG	CA-C-O	-5.36	115.36	121.68
1	F	463	PRO	N-CA-C	-5.36	106.22	113.40
1	J	269	GLU	CB-CG-CD	5.36	121.71	112.60
1	J	397	THR	CA-C-O	-5.36	114.92	120.92
1	A	457	ALA	N-CA-C	-5.36	102.74	111.04
1	B	198	GLY	N-CA-C	-5.36	107.62	114.37
1	C	442	LYS	N-CA-C	-5.36	105.88	112.90
1	F	124	ASN	O-C-N	-5.36	115.02	122.41
1	G	224	ILE	CB-CA-C	-5.36	102.51	111.29
1	I	235	ILE	CB-CA-C	-5.36	102.51	111.29
1	I	471	GLN	CA-CB-CG	-5.36	103.39	114.10
1	K	364	LEU	CB-CA-C	-5.35	101.57	110.14
1	C	31	THR	N-CA-C	5.35	116.99	110.41
1	E	150	ASP	CB-CA-C	-5.35	102.93	111.17
1	H	196	GLN	CB-CG-CD	5.35	121.70	112.60
1	I	211	THR	N-CA-C	-5.35	105.85	112.38
1	N	28	VAL	CG1-CB-CG2	5.35	122.58	110.80
1	F	27	TYR	CA-C-O	5.35	125.75	119.28
1	B	323	ILE	CA-C-O	5.35	127.30	121.04
1	K	105	VAL	CA-C-N	-5.35	113.68	121.76
1	K	105	VAL	C-N-CA	-5.35	113.68	121.76
1	M	68	LEU	CA-C-O	5.35	124.37	118.65
1	H	460	ASP	CB-CG-OD2	-5.35	106.10	118.40
1	J	270	ASN	CB-CA-C	-5.35	100.50	109.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	180	VAL	N-CA-C	5.35	120.46	109.34
1	F	295	PRO	CB-CA-C	-5.35	102.09	110.96
1	N	295	PRO	N-CD-CG	-5.35	95.18	103.20
1	D	226	THR	CA-C-O	-5.34	113.17	119.48
1	K	223	ASP	N-CA-C	5.34	118.02	111.82
1	C	85	PHE	CA-C-N	5.34	126.52	119.84
1	C	85	PHE	C-N-CA	5.34	126.52	119.84
1	D	236	LYS	N-CA-C	5.34	116.96	111.03
1	K	60	ILE	CG1-CB-CG2	-5.34	94.68	110.70
1	B	153	GLN	CB-CA-C	-5.34	102.55	110.67
1	I	155	GLN	N-CA-C	-5.34	99.74	108.76
1	I	375	ILE	CA-C-N	-5.34	114.93	122.94
1	I	375	ILE	C-N-CA	-5.34	114.93	122.94
1	D	64	LYS	CB-CA-C	-5.34	99.80	110.42
1	D	457	ALA	O-C-N	5.34	127.85	122.09
1	F	185	CYS	CA-C-N	5.33	125.88	120.38
1	F	185	CYS	C-N-CA	5.33	125.88	120.38
1	F	344	LEU	N-CA-C	-5.33	101.25	109.52
1	E	131	ASN	CA-C-N	-5.33	114.22	122.59
1	E	131	ASN	C-N-CA	-5.33	114.22	122.59
1	L	72	VAL	CA-CB-CG1	-5.33	101.33	110.40
1	N	274	ASP	OD1-CG-OD2	5.33	135.70	122.90
1	A	52	ILE	CG1-CB-CG2	-5.33	94.71	110.70
1	B	101	ALA	CA-C-N	-5.33	115.20	122.93
1	B	101	ALA	C-N-CA	-5.33	115.20	122.93
1	C	400	GLU	N-CA-C	5.33	120.11	111.37
1	H	398	ILE	CA-C-N	5.33	127.69	120.44
1	H	398	ILE	C-N-CA	5.33	127.69	120.44
1	J	201	VAL	CA-CB-CG1	-5.33	101.34	110.40
1	L	107	VAL	CA-C-N	5.33	125.78	120.98
1	L	107	VAL	C-N-CA	5.33	125.78	120.98
1	L	341	ASN	O-C-N	5.33	129.65	123.30
1	C	80	PRO	CB-CA-C	5.33	119.89	112.11
1	G	220	VAL	N-CA-C	5.33	113.56	109.19
1	K	235	ILE	CB-CA-C	-5.33	102.55	111.29
1	L	129	THR	CA-C-N	5.33	127.85	120.29
1	L	129	THR	C-N-CA	5.33	127.85	120.29
1	E	332	THR	OG1-CB-CG2	5.32	119.95	109.30
1	E	343	SER	O-C-N	5.32	129.54	123.31
1	O	65	VAL	CA-C-O	-5.32	114.13	120.78
1	A	325	TRP	CA-C-N	-5.32	113.52	122.25
1	A	325	TRP	C-N-CA	-5.32	113.52	122.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	173	SER	CA-CB-OG	5.32	121.74	111.10
1	F	28	VAL	CA-C-O	5.32	126.79	120.72
1	C	235	ILE	CA-C-O	-5.32	114.13	120.78
1	F	165	ILE	N-CA-C	5.32	115.51	107.80
1	O	326	GLY	N-CA-C	-5.32	107.98	115.32
1	I	60	ILE	CB-CA-C	5.32	120.01	111.29
1	E	185	CYS	N-CA-C	5.32	121.56	109.81
1	F	83	PHE	O-C-N	5.32	129.35	122.81
1	F	175	CYS	CA-CB-SG	-5.32	102.17	114.40
1	J	381	ILE	CG1-CB-CG2	5.32	126.65	110.70
1	L	71	ARG	NH1-CZ-NH2	5.32	126.21	119.30
1	B	220	VAL	CA-C-N	-5.32	113.19	119.84
1	B	220	VAL	C-N-CA	-5.32	113.19	119.84
1	F	58	ASN	CA-C-O	5.32	126.22	119.95
1	I	233	ASP	CB-CA-C	-5.32	103.83	111.91
1	I	372	LEU	CD1-CG-CD2	5.32	122.49	110.80
1	M	157	CYS	CA-C-O	-5.32	112.83	120.11
1	J	266	THR	OG1-CB-CG2	5.31	119.93	109.30
1	K	200	MET	CA-CB-CG	-5.31	103.47	114.10
1	O	293	PRO	CA-CB-CG	-5.31	94.40	104.50
1	C	105	VAL	CA-C-N	-5.31	115.32	122.86
1	C	105	VAL	C-N-CA	-5.31	115.32	122.86
1	G	60	ILE	N-CA-C	5.31	115.24	108.12
1	A	441	LEU	CB-CG-CD1	-5.31	94.77	110.70
1	J	294	THR	CA-CB-CG2	-5.31	101.47	110.50
1	C	75	ILE	CB-CA-C	-5.31	104.87	111.08
1	N	99	VAL	CA-C-N	-5.31	113.08	122.74
1	N	99	VAL	C-N-CA	-5.31	113.08	122.74
1	C	39	THR	CB-CA-C	-5.31	101.16	109.70
1	A	469	LEU	CB-CA-C	-5.30	101.98	110.79
1	C	353	THR	N-CA-C	-5.30	106.04	112.88
1	D	365	ARG	NE-CZ-NH1	5.30	126.81	121.50
1	E	174	PRO	N-CA-C	5.30	123.40	112.47
1	H	68	LEU	CB-CA-C	-5.30	99.86	110.42
1	K	470	LEU	N-CA-CB	-5.30	99.64	110.67
1	L	170	GLY	N-CA-C	5.30	119.25	110.55
1	M	115	VAL	O-C-N	5.30	128.64	122.97
1	B	222	LEU	CD1-CG-CD2	-5.30	99.14	110.80
1	G	74	ARG	NE-CZ-NH1	-5.30	116.20	121.50
1	H	147	ILE	CA-C-O	5.30	126.83	121.64
1	C	134	ALA	CA-C-N	5.30	128.29	120.82
1	C	134	ALA	C-N-CA	5.30	128.29	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	276	TYR	N-CA-C	5.30	115.23	108.24
1	N	34	TYR	N-CA-C	5.30	117.03	108.34
1	A	111	GLN	CA-C-N	-5.30	114.50	119.90
1	A	111	GLN	C-N-CA	-5.30	114.50	119.90
1	C	60	ILE	CB-CG1-CD1	-5.30	102.68	113.80
1	N	462	PHE	O-C-N	5.30	125.64	121.88
1	A	389	THR	CB-CA-C	-5.29	101.85	110.85
1	J	176	THR	O-C-N	5.29	129.63	122.59
1	J	448	GLU	O-C-N	5.29	129.22	123.13
1	A	445	THR	CA-C-O	-5.29	113.74	120.20
1	E	306	ILE	N-CA-C	-5.29	107.66	113.43
1	G	286	LEU	CA-CB-CG	-5.29	97.77	116.30
1	M	284	ALA	O-C-N	5.29	128.55	122.25
1	N	326	GLY	N-CA-C	-5.29	108.02	115.32
1	O	274	ASP	O-C-N	5.29	128.86	122.35
1	C	142	ASP	CA-C-N	-5.29	114.21	122.73
1	C	142	ASP	C-N-CA	-5.29	114.21	122.73
1	L	281	GLY	N-CA-C	-5.29	100.56	110.77
1	M	285	ASN	N-CA-C	5.29	118.32	107.69
1	A	291	TYR	N-CA-C	-5.29	101.54	109.95
1	D	48	PRO	CA-C-N	-5.29	113.80	122.79
1	D	48	PRO	C-N-CA	-5.29	113.80	122.79
1	G	212	THR	CA-C-N	-5.29	113.11	122.26
1	G	212	THR	C-N-CA	-5.29	113.11	122.26
1	I	319	HIS	CA-C-N	-5.29	112.64	120.94
1	I	319	HIS	C-N-CA	-5.29	112.64	120.94
1	L	350	THR	OG1-CB-CG2	-5.29	98.72	109.30
1	N	124	ASN	CA-C-N	-5.29	114.59	122.74
1	N	124	ASN	C-N-CA	-5.29	114.59	122.74
1	A	338	ARG	CB-CA-C	-5.29	101.07	112.12
1	B	359	ASN	CA-C-O	5.29	125.83	119.59
1	C	52	ILE	CB-CA-C	-5.29	105.06	111.88
1	E	222	LEU	N-CA-C	5.29	122.06	110.80
1	K	440	PRO	CB-CA-C	-5.29	103.90	111.62
1	C	111	GLN	CA-C-N	5.29	125.22	119.78
1	C	111	GLN	C-N-CA	5.29	125.22	119.78
1	H	176	THR	N-CA-C	5.29	122.06	110.80
1	K	233	ASP	N-CA-CB	5.29	118.58	110.60
1	L	31	THR	N-CA-CB	5.29	118.45	110.42
1	B	207	ALA	N-CA-C	-5.28	100.63	109.24
1	D	28	VAL	CA-CB-CG2	-5.28	101.42	110.40
1	C	266	THR	CB-CA-C	-5.28	100.81	109.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	145	GLU	CA-C-N	-5.28	115.61	123.11
1	E	145	GLU	C-N-CA	-5.28	115.61	123.11
1	E	335	ASP	N-CA-C	5.28	116.05	107.23
1	F	310	PRO	N-CA-CB	-5.28	98.98	103.36
1	G	50	PHE	CB-CA-C	-5.28	103.25	110.22
1	B	98	LEU	N-CA-C	5.28	117.88	109.96
1	F	50	PHE	CA-C-N	5.28	125.04	119.76
1	F	50	PHE	C-N-CA	5.28	125.04	119.76
1	M	360	PHE	N-CA-C	-5.28	100.43	109.24
1	H	138	ASN	O-C-N	5.28	129.61	122.59
1	L	275	LEU	N-CA-C	5.28	119.56	113.18
1	N	366	HIS	N-CA-C	5.28	118.03	108.69
1	L	348	ILE	CA-C-O	5.27	124.26	119.20
1	E	310	PRO	CA-C-N	-5.27	115.44	122.72
1	E	310	PRO	C-N-CA	-5.27	115.44	122.72
1	E	340	THR	CA-C-N	-5.27	115.72	123.00
1	E	340	THR	C-N-CA	-5.27	115.72	123.00
1	L	310	PRO	CA-CB-CG	-5.27	94.48	104.50
1	F	43	LEU	CD1-CG-CD2	-5.27	99.20	110.80
1	A	292	PHE	O-C-N	-5.27	118.14	121.88
1	F	71	ARG	CB-CG-CD	-5.27	99.18	111.30
1	I	251	ARG	NE-CZ-NH2	5.27	123.94	119.20
1	K	217	LYS	N-CA-CB	-5.27	103.91	111.70
1	L	175	CYS	CA-C-N	-5.27	113.44	121.66
1	L	175	CYS	C-N-CA	-5.27	113.44	121.66
1	M	86	PRO	CB-CA-C	5.27	120.25	111.56
1	H	148	SER	CA-C-N	-5.27	111.63	121.95
1	H	148	SER	C-N-CA	-5.27	111.63	121.95
1	I	470	LEU	CD1-CG-CD2	5.27	122.39	110.80
1	N	211	THR	CA-C-O	5.27	126.05	120.10
1	O	117	ILE	CB-CA-C	5.26	118.46	110.62
1	G	312	TRP	N-CA-CB	-5.26	102.29	110.55
1	H	106	GLU	CB-CA-C	-5.26	103.07	111.17
1	N	442	LYS	N-CA-C	-5.26	106.01	112.90
1	O	281	GLY	N-CA-C	-5.26	100.61	110.77
1	C	297	GLY	N-CA-C	-5.26	100.72	113.18
1	D	149	MET	CA-C-O	-5.26	115.46	120.56
1	G	66	SER	CB-CA-C	-5.26	101.00	110.36
1	L	118	SER	CA-CB-OG	5.26	121.62	111.10
1	B	254	GLN	CA-C-O	5.26	128.03	120.51
1	D	304	ALA	CA-C-N	5.26	131.58	121.54
1	D	304	ALA	C-N-CA	5.26	131.58	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	212	THR	CA-CB-OG1	5.26	117.49	109.60
1	L	97	ARG	CB-CG-CD	5.26	123.39	111.30
1	K	251	ARG	NE-CZ-NH1	-5.25	116.25	121.50
1	M	51	PRO	O-C-N	-5.25	117.22	123.10
1	M	300	VAL	CA-CB-CG2	-5.25	101.47	110.40
1	N	143	ASN	N-CA-C	-5.25	106.71	113.23
1	D	380	LYS	CG-CD-CE	-5.25	99.22	111.30
1	E	445	THR	CB-CA-C	-5.25	101.58	110.19
1	F	270	ASN	N-CA-C	5.25	118.38	109.76
1	H	154	THR	N-CA-CB	5.25	119.50	110.68
1	J	209	ASP	CA-C-O	5.25	125.92	120.40
1	M	220	VAL	CA-C-O	5.25	126.99	119.95
1	O	254	GLN	CG-CD-NE2	-5.25	108.52	116.40
1	G	98	LEU	CB-CA-C	-5.25	101.49	109.89
1	G	247	PHE	N-CA-C	-5.25	107.53	114.04
1	L	402	TRP	N-CA-CB	5.25	117.62	109.48
1	D	21	VAL	CB-CA-C	-5.25	104.03	111.38
1	D	470	LEU	N-CA-CB	-5.25	101.18	110.42
1	A	163	PRO	CA-C-N	5.25	125.17	119.76
1	A	163	PRO	C-N-CA	5.25	125.17	119.76
1	D	193	THR	CB-CA-C	-5.25	101.00	110.03
1	M	29	ALA	N-CA-C	5.25	117.52	109.07
1	A	365	ARG	NE-CZ-NH1	-5.25	116.25	121.50
1	D	387	VAL	N-CA-C	-5.25	105.21	110.30
1	E	198	GLY	N-CA-C	-5.25	108.24	114.48
1	I	394	MET	CA-C-N	-5.25	115.40	122.95
1	I	394	MET	C-N-CA	-5.25	115.40	122.95
1	L	69	GLN	O-C-N	-5.25	116.41	123.23
1	L	206	GLY	CA-C-N	-5.25	115.79	122.77
1	L	206	GLY	C-N-CA	-5.25	115.79	122.77
1	N	24	THR	N-CA-C	-5.25	106.14	112.54
1	C	160	GLY	CA-C-N	-5.25	113.34	122.36
1	C	160	GLY	C-N-CA	-5.25	113.34	122.36
1	D	75	ILE	N-CA-C	5.25	116.25	108.23
1	K	204	GLY	O-C-N	5.25	129.52	122.70
1	M	114	GLY	CA-C-O	-5.25	115.84	121.35
1	O	247	PHE	CA-C-O	5.25	128.01	120.51
1	A	162	LYS	CG-CD-CE	-5.24	99.24	111.30
1	F	191	ILE	N-CA-C	5.24	115.40	107.75
1	J	308	ASN	N-CA-C	-5.24	102.29	113.20
1	D	183	GLY	O-C-N	5.24	129.51	122.70
1	O	201	VAL	O-C-N	5.24	129.12	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	312	TRP	N-CA-CB	-5.24	101.88	110.21
1	I	306	ILE	CA-C-O	5.24	123.51	118.90
1	J	46	GLY	O-C-N	5.24	127.12	123.14
1	L	131	ASN	CB-CA-C	5.24	117.68	110.34
1	A	445	THR	O-C-N	5.24	129.98	123.28
1	C	174	PRO	N-CA-C	5.24	123.26	112.47
1	C	308	ASN	N-CA-C	-5.24	102.81	113.29
1	G	92	ASN	N-CA-C	5.24	117.85	108.47
1	A	372	LEU	CB-CA-C	5.24	118.38	109.53
1	B	286	LEU	CB-CG-CD2	-5.24	94.99	110.70
1	G	77	LEU	CA-C-N	5.24	125.15	119.76
1	G	77	LEU	C-N-CA	5.24	125.15	119.76
1	A	237	MET	N-CA-CB	-5.24	102.14	109.94
1	M	317	GLN	CB-CG-CD	-5.24	103.70	112.60
1	A	106	GLU	CB-CA-C	-5.23	102.08	110.14
1	E	350	THR	N-CA-C	-5.23	106.92	113.15
1	K	353	THR	O-C-N	5.23	128.34	122.27
1	N	123	LEU	CB-CG-CD2	5.23	126.40	110.70
1	D	308	ASN	CA-C-O	5.23	126.12	119.16
1	J	77	LEU	O-C-N	5.23	128.45	121.70
1	J	175	CYS	N-CA-C	-5.23	99.88	108.41
1	A	331	VAL	O-C-N	-5.23	116.56	122.94
1	G	138	ASN	CA-C-O	5.23	127.99	120.51
1	I	176	THR	N-CA-CB	5.23	119.33	110.49
1	L	374	PHE	N-CA-C	5.23	117.14	109.24
1	E	471	GLN	N-CA-C	5.23	117.11	108.48
1	H	329	LEU	CD1-CG-CD2	-5.23	99.30	110.80
1	N	72	VAL	N-CA-CB	5.23	117.55	111.90
1	L	113	LEU	CB-CA-C	-5.23	101.04	109.72
1	L	319	HIS	N-CA-C	5.23	116.66	111.07
1	O	225	CYS	N-CA-C	5.23	118.44	111.75
1	F	308	ASN	CB-CG-ND2	5.23	124.24	116.40
1	L	195	ILE	CG1-CB-CG2	5.23	126.38	110.70
1	G	356	LYS	O-C-N	5.22	129.97	123.28
1	L	104	GLY	N-CA-C	5.22	118.89	110.90
1	N	354	THR	O-C-N	5.22	129.23	123.33
1	N	371	ASP	CA-C-N	-5.22	113.14	122.07
1	N	371	ASP	C-N-CA	-5.22	113.14	122.07
1	B	269	GLU	CA-C-N	-5.22	113.14	122.07
1	B	269	GLU	C-N-CA	-5.22	113.14	122.07
1	F	63	PRO	N-CD-CG	-5.22	95.37	103.20
1	A	67	GLY	O-C-N	-5.22	115.92	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	339	SER	CA-C-N	-5.22	113.65	120.95
1	F	339	SER	C-N-CA	-5.22	113.65	120.95
1	J	256	PHE	O-C-N	5.22	128.51	123.29
1	O	444	TYR	N-CA-C	5.22	118.22	110.14
1	A	64	LYS	CD-CE-NZ	-5.21	95.22	111.90
1	A	398	ILE	CA-C-O	-5.21	114.26	120.78
1	C	286	LEU	CB-CG-CD2	-5.21	95.06	110.70
1	D	135	TYR	O-C-N	-5.21	116.08	123.01
1	G	216	ASN	CB-CG-ND2	-5.21	108.58	116.40
1	H	251	ARG	CB-CG-CD	5.21	123.29	111.30
1	I	47	HIS	CA-C-N	5.21	125.02	119.28
1	I	47	HIS	C-N-CA	5.21	125.02	119.28
1	K	82	LYS	CA-C-N	-5.21	112.73	121.39
1	K	82	LYS	C-N-CA	-5.21	112.73	121.39
1	M	71	ARG	CA-C-O	-5.21	115.74	121.58
1	N	331	VAL	CA-CB-CG2	-5.21	101.54	110.40
1	D	378	LEU	CD1-CG-CD2	-5.21	99.33	110.80
1	J	126	LEU	CB-CG-CD1	-5.21	95.06	110.70
1	N	199	ASP	N-CA-C	5.21	121.90	110.80
1	C	47	HIS	N-CA-C	-5.21	102.46	110.32
1	E	348	ILE	N-CA-C	-5.21	106.06	111.58
1	I	389	THR	CA-C-O	5.21	126.12	120.55
1	A	160	GLY	O-C-N	-5.21	117.77	123.29
1	C	194	VAL	CG1-CB-CG2	5.21	122.26	110.80
1	F	384	THR	O-C-N	-5.21	115.81	122.94
1	G	262	ASN	N-CA-CB	-5.21	102.40	110.57
1	H	185	CYS	O-C-N	5.21	127.31	121.32
1	F	76	HIS	CA-C-O	5.20	125.93	120.36
1	I	176	THR	CA-C-O	5.20	127.95	120.51
1	I	237	MET	CG-SD-CE	-5.20	89.45	100.90
1	L	203	THR	OG1-CB-CG2	5.20	119.71	109.30
1	L	368	GLU	CB-CA-C	-5.20	104.28	110.94
1	A	182	PRO	CA-CB-CG	-5.20	94.61	104.50
1	C	402	TRP	CA-C-O	5.20	126.42	120.80
1	H	274	ASP	CA-CB-CG	-5.20	107.40	112.60
1	G	72	VAL	CB-CA-C	-5.20	105.17	111.88
1	B	286	LEU	CB-CA-C	-5.20	102.05	109.84
1	D	257	VAL	N-CA-C	-5.20	99.62	107.73
1	F	139	ALA	CA-C-O	-5.20	115.58	121.66
1	I	182	PRO	CB-CA-C	5.20	120.13	111.56
1	J	112	PRO	CA-CB-CG	-5.20	94.63	104.50
1	L	69	GLN	CB-CG-CD	-5.20	103.77	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	65	VAL	CA-CB-CG1	5.19	119.23	110.40
1	H	461	GLN	CA-C-O	5.19	126.23	119.95
1	K	264	ALA	N-CA-C	-5.19	104.02	110.41
1	K	452	LYS	CG-CD-CE	-5.19	99.36	111.30
1	O	165	ILE	CB-CG1-CD1	-5.19	102.90	113.80
1	C	330	PHE	O-C-N	-5.19	117.14	123.27
1	C	60	ILE	CB-CA-C	-5.19	104.66	111.25
1	C	295	PRO	CA-CB-CG	-5.19	94.64	104.50
1	I	387	VAL	N-CA-CB	5.19	116.51	110.65
1	L	336	THR	CA-C-N	5.19	128.99	120.63
1	L	336	THR	C-N-CA	5.19	128.99	120.63
1	E	359	ASN	N-CA-CB	-5.19	102.78	110.61
1	F	247	PHE	CA-C-N	5.19	131.05	122.33
1	F	247	PHE	C-N-CA	5.19	131.05	122.33
1	G	378	LEU	CA-C-O	-5.19	115.35	121.16
1	L	273	ASP	CA-C-N	-5.19	113.19	121.44
1	L	273	ASP	C-N-CA	-5.19	113.19	121.44
1	M	364	LEU	CD1-CG-CD2	5.19	122.21	110.80
1	E	103	VAL	CA-C-O	5.18	125.17	120.30
1	E	127	ASP	N-CA-C	5.18	116.17	108.86
1	E	464	LEU	CB-CA-C	-5.18	102.23	110.84
1	G	193	THR	N-CA-C	5.18	116.95	108.76
1	I	215	ALA	CA-C-N	5.18	127.48	120.38
1	I	215	ALA	C-N-CA	5.18	127.48	120.38
1	K	382	THR	N-CA-C	-5.18	101.25	109.96
1	N	320	ASN	O-C-N	-5.18	116.74	122.86
1	D	115	VAL	O-C-N	5.18	128.51	122.97
1	G	65	VAL	N-CA-C	5.18	120.12	109.34
1	J	82	LYS	N-CA-C	-5.18	106.49	114.16
1	D	372	LEU	CA-C-O	-5.18	114.96	120.92
1	L	24	THR	CB-CA-C	-5.18	99.60	110.17
1	J	51	PRO	CA-C-O	5.18	127.03	120.97
1	M	361	LYS	O-C-N	-5.18	117.13	123.19
1	A	367	GLY	N-CA-C	5.18	121.07	112.89
1	I	306	ILE	CG1-CB-CG2	-5.18	95.17	110.70
1	C	388	MET	N-CA-C	5.18	117.32	111.11
1	D	117	ILE	N-CA-C	-5.18	100.75	108.46
1	J	115	VAL	N-CA-C	5.18	115.93	108.48
1	J	150	ASP	CB-CG-OD1	-5.18	106.50	118.40
1	J	298	SER	N-CA-CB	-5.18	103.29	110.38
1	M	192	ASN	N-CA-C	-5.18	102.40	110.42
1	B	85	PHE	CA-C-N	5.17	126.31	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	85	PHE	C-N-CA	5.17	126.31	119.84
1	D	239	SER	N-CA-C	-5.17	107.03	113.19
1	F	173	SER	CA-CB-OG	-5.17	100.75	111.10
1	F	294	THR	O-C-N	-5.17	114.60	121.64
1	O	60	ILE	O-C-N	-5.17	116.91	122.45
1	F	79	ASP	CA-C-N	5.17	124.67	119.19
1	F	79	ASP	C-N-CA	5.17	124.67	119.19
1	N	96	GLN	CA-C-N	5.17	130.93	122.81
1	N	96	GLN	C-N-CA	5.17	130.93	122.81
1	F	29	ALA	N-CA-C	5.17	118.05	109.46
1	F	208	MET	CB-CG-SD	5.17	128.22	112.70
1	K	143	ASN	N-CA-C	-5.17	106.97	113.28
1	M	363	TYR	N-CA-C	5.17	118.02	109.85
1	N	200	MET	CA-CB-CG	-5.17	103.76	114.10
1	J	398	ILE	CA-C-N	5.17	127.47	120.65
1	J	398	ILE	C-N-CA	5.17	127.47	120.65
1	F	366	HIS	N-CA-C	5.17	117.78	108.48
1	I	139	ALA	CA-C-N	-5.17	111.28	121.41
1	I	139	ALA	C-N-CA	-5.17	111.28	121.41
1	J	32	ASN	CB-CA-C	-5.17	100.13	110.42
1	J	145	GLU	CA-CB-CG	-5.17	103.76	114.10
1	L	99	VAL	CB-CA-C	-5.17	102.69	110.55
1	B	175	CYS	CA-C-N	-5.17	113.29	122.07
1	B	175	CYS	C-N-CA	-5.17	113.29	122.07
1	E	193	THR	N-CA-C	5.17	116.37	108.52
1	L	33	ILE	CB-CG1-CD1	-5.17	102.95	113.80
1	L	43	LEU	CB-CG-CD2	-5.17	95.20	110.70
1	F	97	ARG	N-CA-CB	-5.17	102.00	110.52
1	G	58	ASN	CA-C-N	-5.17	115.59	122.72
1	G	58	ASN	C-N-CA	-5.17	115.59	122.72
1	D	334	VAL	CA-C-N	-5.16	115.51	122.95
1	D	334	VAL	C-N-CA	-5.16	115.51	122.95
1	G	449	VAL	CB-CA-C	-5.16	102.12	110.28
1	M	315	ARG	CA-C-O	-5.16	115.59	121.58
1	C	223	ASP	N-CA-C	-5.16	106.83	113.23
1	K	177	GLN	N-CA-CB	5.16	119.21	110.49
1	E	194	VAL	CA-C-N	-5.16	114.58	121.80
1	E	194	VAL	C-N-CA	-5.16	114.58	121.80
1	L	113	LEU	CA-CB-CG	-5.16	98.24	116.30
1	N	402	TRP	N-CA-C	-5.16	102.22	109.96
1	C	31	THR	CA-CB-OG1	5.16	117.34	109.60
1	C	227	SER	CA-C-N	5.16	129.59	123.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	227	SER	C-N-CA	5.16	129.59	123.19
1	F	467	LYS	CD-CE-NZ	5.16	128.41	111.90
1	J	103	VAL	CA-C-O	5.16	124.29	118.98
1	L	322	GLY	O-C-N	5.16	129.41	122.70
1	A	346	ALA	O-C-N	5.16	129.90	123.19
1	M	185	CYS	N-CA-C	5.16	121.21	109.81
1	G	308	ASN	CA-C-O	5.16	125.30	119.78
1	K	45	VAL	CA-CB-CG2	5.15	119.16	110.40
1	C	238	VAL	N-CA-C	-5.15	105.69	110.53
1	D	220	VAL	CA-C-N	5.15	126.28	119.84
1	D	220	VAL	C-N-CA	5.15	126.28	119.84
1	I	185	CYS	N-CA-C	5.15	121.20	109.81
1	K	361	LYS	CA-C-O	-5.15	114.81	120.43
1	N	164	PRO	CA-C-O	-5.15	115.58	121.56
1	B	99	VAL	CA-CB-CG2	-5.15	101.64	110.40
1	O	174	PRO	N-CA-C	5.15	123.08	112.47
1	F	125	LYS	CD-CE-NZ	-5.15	95.42	111.90
1	J	346	ALA	O-C-N	5.15	128.85	123.03
1	K	111	GLN	N-CA-CB	-5.15	101.66	110.72
1	F	250	LEU	N-CA-CB	5.15	119.16	110.77
1	G	439	ASP	N-CA-C	5.15	119.95	109.60
1	K	363	TYR	N-CA-CB	-5.15	103.25	111.43
1	L	383	LEU	N-CA-C	5.15	117.66	107.98
1	C	388	MET	O-C-N	5.15	127.44	122.09
1	M	211	THR	CA-C-N	-5.15	113.67	122.11
1	M	211	THR	C-N-CA	-5.15	113.67	122.11
1	C	230	LYS	CA-C-N	5.14	131.19	122.65
1	C	230	LYS	C-N-CA	5.14	131.19	122.65
1	D	442	LYS	N-CA-C	-5.14	104.63	112.04
1	G	299	MET	CA-C-O	-5.14	115.25	120.80
1	I	449	VAL	CA-C-O	5.14	124.80	120.22
1	L	209	ASP	N-CA-C	-5.14	98.86	108.02
1	F	182	PRO	CA-CB-CG	-5.14	94.73	104.50
1	K	112	PRO	N-CA-C	5.14	119.26	111.19
1	K	266	THR	CB-CA-C	-5.14	100.08	109.54
1	L	287	ALA	N-CA-C	-5.14	102.17	110.14
1	D	441	LEU	N-CA-C	-5.14	103.95	111.30
1	F	35	TYR	N-CA-C	5.14	118.12	109.95
1	K	230	LYS	CG-CD-CE	5.14	123.12	111.30
1	C	274	ASP	N-CA-C	-5.14	105.90	113.61
1	H	51	PRO	CB-CG-CD	-5.14	89.66	106.10
1	N	399	LEU	CA-CB-CG	-5.14	98.32	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	127	ASP	CA-C-N	5.13	128.14	120.95
1	D	127	ASP	C-N-CA	5.13	128.14	120.95
1	G	313	LEU	CA-C-N	5.13	127.47	120.54
1	G	313	LEU	C-N-CA	5.13	127.47	120.54
1	H	30	ARG	NE-CZ-NH1	-5.13	116.37	121.50
1	J	195	ILE	CG1-CB-CG2	5.13	126.10	110.70
1	K	83	PHE	CB-CA-C	5.13	118.91	109.46
1	A	214	GLN	CA-C-N	5.13	128.11	120.31
1	A	214	GLN	C-N-CA	5.13	128.11	120.31
1	C	375	ILE	CA-CB-CG1	-5.13	101.67	110.40
1	E	333	VAL	N-CA-C	5.13	117.23	108.86
1	H	159	ILE	CG1-CB-CG2	-5.13	95.31	110.70
1	M	257	VAL	N-CA-C	5.13	115.66	108.89
1	G	287	ALA	CA-C-O	-5.13	115.76	121.81
1	H	313	LEU	CB-CA-C	-5.13	103.32	111.17
1	J	68	LEU	CA-CB-CG	-5.13	98.34	116.30
1	M	155	GLN	CA-C-O	-5.13	114.97	120.46
1	E	79	ASP	CA-C-O	5.13	124.54	119.51
1	F	167	GLU	N-CA-C	-5.13	101.50	109.24
1	F	456	SER	CA-C-N	-5.13	111.74	121.54
1	F	456	SER	C-N-CA	-5.13	111.74	121.54
1	I	153	GLN	N-CA-C	5.13	117.99	110.30
1	J	152	LYS	CB-CG-CD	-5.13	99.51	111.30
1	D	296	SER	N-CA-CB	-5.13	101.91	110.57
1	D	353	THR	OG1-CB-CG2	5.13	119.56	109.30
1	D	371	ASP	CA-C-N	-5.13	114.50	122.09
1	D	371	ASP	C-N-CA	-5.13	114.50	122.09
1	F	300	VAL	N-CA-CB	5.13	117.14	110.99
1	H	22	VAL	N-CA-C	5.13	115.75	108.42
1	L	50	PHE	CA-C-N	5.13	125.33	120.31
1	L	50	PHE	C-N-CA	5.13	125.33	120.31
1	L	103	VAL	CA-C-N	-5.13	116.59	121.46
1	L	103	VAL	C-N-CA	-5.13	116.59	121.46
1	J	111	GLN	N-CA-CB	-5.12	100.35	110.70
1	N	346	ALA	N-CA-C	-5.12	100.82	109.07
1	C	195	ILE	CB-CG1-CD1	5.12	124.56	113.80
1	H	61	LEU	CB-CG-CD1	5.12	126.07	110.70
1	H	178	VAL	CA-CB-CG2	-5.12	101.69	110.40
1	K	300	VAL	CA-C-N	-5.12	113.56	122.37
1	K	300	VAL	C-N-CA	-5.12	113.56	122.37
1	L	240	GLU	N-CA-C	-5.12	101.97	109.50
1	M	129	THR	CA-C-O	5.12	125.22	119.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	103	VAL	CA-CB-CG2	5.12	119.11	110.40
1	A	388	MET	CB-CG-SD	5.12	128.07	112.70
1	B	315	ARG	CD-NE-CZ	5.12	131.57	124.40
1	D	149	MET	CB-CA-C	-5.12	103.30	113.80
1	E	22	VAL	CA-C-O	-5.12	115.34	121.28
1	F	336	THR	CA-CB-CG2	5.12	119.20	110.50
1	G	260	LEU	CB-CG-CD1	-5.12	95.34	110.70
1	H	155	GLN	N-CA-CB	-5.12	102.91	110.90
1	M	220	VAL	O-C-N	-5.12	115.26	121.10
1	N	333	VAL	N-CA-C	5.12	116.67	108.89
1	N	387	VAL	N-CA-CB	5.12	116.79	110.64
1	N	460	ASP	N-CA-C	-5.12	107.09	113.19
1	O	233	ASP	N-CA-CB	5.12	117.48	110.57
1	D	208	MET	CB-CG-SD	5.12	128.06	112.70
1	E	125	LYS	CB-CG-CD	5.12	123.08	111.30
1	E	141	VAL	CA-CB-CG2	-5.12	101.70	110.40
1	J	220	VAL	N-CA-C	5.12	119.94	108.88
1	O	34	TYR	N-CA-C	5.12	117.75	109.40
1	I	193	THR	CA-C-N	-5.12	113.50	121.18
1	I	193	THR	C-N-CA	-5.12	113.50	121.18
1	J	457	ALA	N-CA-C	-5.12	105.35	111.03
1	O	258	ARG	NE-CZ-NH1	-5.12	116.38	121.50
1	B	223	ASP	N-CA-CB	-5.12	102.35	110.28
1	C	23	SER	N-CA-C	-5.12	102.81	110.23
1	C	310	PRO	CA-C-N	-5.12	115.85	123.11
1	C	310	PRO	C-N-CA	-5.12	115.85	123.11
1	L	232	PRO	N-CA-C	5.12	119.60	111.26
1	M	322	GLY	O-C-N	5.12	129.35	122.70
1	N	228	ILE	CB-CA-C	-5.12	103.21	110.83
1	G	163	PRO	N-CA-CB	-5.11	100.33	103.19
1	J	34	TYR	CA-C-O	5.11	125.88	120.36
1	O	225	CYS	CB-CA-C	-5.11	100.54	110.46
1	E	298	SER	CA-C-N	5.11	131.30	121.54
1	E	298	SER	C-N-CA	5.11	131.30	121.54
1	L	72	VAL	CA-C-N	-5.11	114.45	122.73
1	L	72	VAL	C-N-CA	-5.11	114.45	122.73
1	A	119	GLY	CA-C-O	-5.11	116.56	121.41
1	A	120	HIS	CA-CB-CG	5.11	118.91	113.80
1	A	453	GLU	CB-CA-C	-5.11	104.93	111.22
1	F	206	GLY	CA-C-O	-5.11	117.30	122.56
1	H	330	PHE	N-CA-C	5.11	117.04	107.99
1	J	149	MET	CA-C-O	-5.11	115.43	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	338	ARG	NE-CZ-NH1	-5.11	116.39	121.50
1	A	181	GLN	CA-C-N	5.11	126.23	119.84
1	A	181	GLN	C-N-CA	5.11	126.23	119.84
1	H	48	PRO	N-CA-C	5.11	120.57	113.98
1	D	72	VAL	CA-C-N	-5.11	112.91	121.39
1	D	72	VAL	C-N-CA	-5.11	112.91	121.39
1	G	271	VAL	CB-CA-C	-5.11	102.07	111.36
1	J	219	GLU	N-CA-C	-5.11	106.46	113.30
1	J	319	HIS	CA-C-O	-5.11	114.57	120.24
1	D	75	ILE	CA-CB-CG1	-5.11	101.72	110.40
1	E	295	PRO	N-CA-C	-5.11	101.95	112.47
1	F	72	VAL	CA-CB-CG1	-5.11	101.72	110.40
1	I	185	CYS	O-C-N	5.11	127.19	121.32
1	M	42	LEU	CA-C-O	-5.11	115.70	121.72
1	M	149	MET	N-CA-CB	-5.11	102.28	110.55
1	N	225	CYS	O-C-N	5.11	128.02	122.20
1	G	467	LYS	CB-CG-CD	-5.10	99.56	111.30
1	L	33	ILE	CA-C-O	-5.10	115.03	120.39
1	G	154	THR	CA-C-O	-5.10	114.66	120.32
1	K	345	CYS	CB-CA-C	-5.10	101.12	109.80
1	A	53	LYS	CA-C-O	-5.10	115.25	121.78
1	D	197	ASP	CA-C-O	-5.10	116.08	120.88
1	K	272	PRO	CB-CG-CD	-5.10	89.78	106.10
1	B	333	VAL	CB-CA-C	-5.10	103.02	110.62
1	E	387	VAL	N-CA-C	-5.10	98.73	109.34
1	M	264	ALA	O-C-N	-5.10	116.98	122.79
1	O	95	THR	OG1-CB-CG2	5.10	119.50	109.30
1	A	262	ASN	CA-C-O	-5.10	114.66	120.32
1	H	380	LYS	CA-C-N	-5.10	116.08	123.11
1	H	380	LYS	C-N-CA	-5.10	116.08	123.11
1	K	294	THR	N-CA-C	-5.10	103.28	110.31
1	K	350	THR	CA-CB-OG1	-5.10	101.95	109.60
1	O	381	ILE	CB-CG1-CD1	-5.10	103.09	113.80
1	C	342	MET	CA-C-N	-5.10	114.67	122.87
1	C	342	MET	C-N-CA	-5.10	114.67	122.87
1	D	30	ARG	NE-CZ-NH1	-5.10	116.40	121.50
1	G	143	ASN	N-CA-C	-5.10	107.11	113.38
1	H	239	SER	N-CA-C	5.09	118.96	112.34
1	J	172	GLY	O-C-N	5.09	129.32	122.70
1	K	201	VAL	CB-CA-C	-5.09	102.94	111.29
1	L	340	THR	CB-CA-C	-5.09	103.53	109.80
1	N	31	THR	OG1-CB-CG2	5.09	119.49	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	326	GLY	O-C-N	-5.09	116.49	122.50
1	D	192	ASN	N-CA-C	-5.09	102.98	110.52
1	N	305	GLN	CA-C-O	5.09	127.79	120.51
1	C	135	TYR	O-C-N	5.09	129.26	122.95
1	C	195	ILE	CA-CB-CG2	5.09	119.16	110.50
1	F	341	ASN	O-C-N	5.09	129.18	123.27
1	G	107	VAL	CA-CB-CG1	-5.09	101.74	110.40
1	M	48	PRO	CA-C-O	-5.09	112.27	118.99
1	M	451	LEU	N-CA-C	-5.09	107.10	113.72
1	B	148	SER	CA-C-O	-5.09	115.48	121.44
1	C	154	THR	CA-CB-CG2	5.09	119.15	110.50
1	E	200	MET	O-C-N	5.09	129.02	123.22
1	F	191	ILE	N-CA-CB	-5.09	105.02	111.64
1	L	346	ALA	CA-C-O	-5.09	114.81	120.66
1	E	123	LEU	N-CA-CB	-5.09	102.49	109.97
1	J	468	PHE	CA-C-O	-5.09	115.48	120.82
1	F	247	PHE	N-CA-C	-5.09	107.75	114.31
1	M	28	VAL	CA-CB-CG1	5.09	119.05	110.40
1	I	213	LEU	CA-C-O	5.08	125.22	119.27
1	B	269	GLU	N-CA-CB	-5.08	102.27	110.71
1	D	115	VAL	CB-CA-C	-5.08	103.58	110.90
1	J	107	VAL	N-CA-C	-5.08	99.15	106.88
1	J	386	ASP	N-CA-C	5.08	118.58	112.38
1	A	342	MET	O-C-N	-5.08	117.29	123.03
1	C	377	GLN	CA-C-O	5.08	125.91	120.32
1	E	164	PRO	CA-C-N	-5.08	116.34	123.10
1	E	164	PRO	C-N-CA	-5.08	116.34	123.10
1	E	263	ARG	NE-CZ-NH2	5.08	123.77	119.20
1	M	68	LEU	CB-CG-CD2	5.08	125.94	110.70
1	M	294	THR	CA-C-N	5.08	126.19	119.84
1	M	294	THR	C-N-CA	5.08	126.19	119.84
1	O	172	GLY	N-CA-C	-5.08	101.14	113.18
1	M	72	VAL	CG1-CB-CG2	5.08	121.98	110.80
1	E	260	LEU	CB-CG-CD2	-5.08	95.47	110.70
1	G	164	PRO	CA-C-N	-5.08	115.77	122.98
1	G	164	PRO	C-N-CA	-5.08	115.77	122.98
1	N	443	LYS	CA-C-N	-5.08	114.29	122.82
1	N	443	LYS	C-N-CA	-5.08	114.29	122.82
1	B	22	VAL	CB-CA-C	-5.08	101.71	110.65
1	C	113	LEU	CB-CG-CD2	-5.08	95.47	110.70
1	L	27	TYR	N-CA-C	5.08	119.34	113.20
1	A	200	MET	CB-CG-SD	-5.08	97.47	112.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	135	TYR	CA-C-N	5.08	127.92	120.71
1	C	135	TYR	C-N-CA	5.08	127.92	120.71
1	K	290	ASN	N-CA-C	5.08	117.56	108.17
1	O	28	VAL	N-CA-C	5.08	115.89	108.58
1	O	211	THR	CA-C-N	-5.08	114.26	122.23
1	O	211	THR	C-N-CA	-5.08	114.26	122.23
1	A	52	ILE	N-CA-C	5.07	119.89	109.34
1	A	233	ASP	N-CA-CB	5.07	117.89	110.58
1	B	258	ARG	O-C-N	5.07	128.00	122.11
1	H	232	PRO	CA-C-O	-5.07	115.79	121.32
1	I	150	ASP	CA-CB-CG	-5.07	107.53	112.60
1	K	72	VAL	N-CA-C	5.07	114.57	107.37
1	K	237	MET	CG-SD-CE	5.07	112.06	100.90
1	H	267	VAL	CA-C-O	-5.07	114.44	120.78
1	B	247	PHE	CB-CA-C	5.07	117.54	109.02
1	C	154	THR	N-CA-C	-5.07	100.03	108.34
1	D	105	VAL	CB-CA-C	-5.07	101.92	111.30
1	D	136	ALA	N-CA-C	5.07	117.25	110.35
1	D	327	ASN	CA-C-O	5.07	126.66	120.57
1	G	24	THR	CA-C-O	5.07	125.63	119.49
1	H	102	CYS	CA-C-N	-5.07	115.63	121.71
1	H	102	CYS	C-N-CA	-5.07	115.63	121.71
1	C	123	LEU	CA-C-O	-5.07	114.91	120.69
1	E	139	ALA	CA-C-N	-5.07	111.48	121.41
1	E	139	ALA	C-N-CA	-5.07	111.48	121.41
1	J	241	PRO	CA-CB-CG	-5.07	94.87	104.50
1	K	205	PHE	N-CA-CB	5.07	119.48	111.17
1	K	221	PRO	CA-C-N	5.07	127.58	120.28
1	K	221	PRO	C-N-CA	5.07	127.58	120.28
1	A	285	ASN	N-CA-C	5.07	116.88	108.02
1	C	132	ALA	CA-C-N	-5.07	114.29	122.24
1	C	132	ALA	C-N-CA	-5.07	114.29	122.24
1	D	212	THR	CA-CB-CG2	-5.07	101.89	110.50
1	L	30	ARG	CA-C-O	-5.07	115.27	120.54
1	L	269	GLU	O-C-N	-5.06	117.01	123.24
1	O	193	THR	O-C-N	-5.06	117.04	123.17
1	B	186	PRO	N-CD-CG	5.06	110.79	103.20
1	B	236	LYS	CG-CD-CE	5.06	122.94	111.30
1	H	294	THR	CA-CB-CG2	-5.06	101.89	110.50
1	L	207	ALA	O-C-N	-5.06	117.45	123.22
1	M	185	CYS	O-C-N	5.06	127.14	121.32
1	A	313	LEU	CB-CG-CD1	5.06	125.88	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	109	ARG	N-CA-C	-5.06	99.86	108.26
1	F	374	PHE	N-CA-C	5.06	116.76	109.07
1	I	200	MET	CB-CA-C	-5.06	102.69	110.78
1	L	138	ASN	CA-C-O	5.06	127.74	120.51
1	N	372	LEU	CA-C-O	-5.06	115.29	121.36
1	F	215	ALA	N-CA-C	-5.06	106.62	112.89
1	N	215	ALA	N-CA-C	-5.06	105.95	111.82
1	B	362	GLU	CA-C-O	5.06	125.82	120.36
1	H	379	CYS	N-CA-C	5.06	117.55	109.81
1	B	95	THR	N-CA-C	-5.05	107.06	113.43
1	B	157	CYS	CA-C-O	-5.05	114.06	120.28
1	B	299	MET	CB-CA-C	-5.05	102.68	109.71
1	G	251	ARG	CA-C-O	5.05	126.82	121.11
1	H	286	LEU	N-CA-C	5.05	118.12	110.64
1	K	194	VAL	O-C-N	5.05	128.42	122.81
1	L	124	ASN	CA-C-N	-5.05	114.54	122.73
1	L	124	ASN	C-N-CA	-5.05	114.54	122.73
1	A	463	PRO	CA-C-O	-5.05	112.42	119.74
1	C	161	CYS	N-CA-C	-5.05	107.67	113.88
1	D	252	ARG	CB-CG-CD	5.05	122.92	111.30
1	G	310	PRO	N-CA-CB	-5.05	98.39	103.19
1	G	385	ALA	O-C-N	5.05	128.07	122.11
1	H	309	LYS	CA-C-O	-5.05	115.49	120.19
1	I	108	GLY	O-C-N	-5.05	116.13	122.70
1	K	216	ASN	CA-C-N	5.05	129.53	122.36
1	K	216	ASN	C-N-CA	5.05	129.53	122.36
1	E	49	TYR	N-CA-C	5.05	119.18	112.72
1	F	99	VAL	CB-CA-C	-5.05	103.04	110.82
1	I	219	GLU	CA-CB-CG	-5.05	104.00	114.10
1	K	45	VAL	CA-CB-CG1	-5.05	101.82	110.40
1	N	267	VAL	CA-C-O	-5.05	115.28	121.04
1	B	262	ASN	N-CA-C	5.05	117.47	109.24
1	E	374	PHE	N-CA-C	5.05	117.05	109.23
1	F	162	LYS	CA-CB-CG	-5.05	104.01	114.10
1	G	302	SER	N-CA-C	-5.05	105.67	111.07
1	L	276	TYR	CB-CA-C	-5.05	100.38	110.42
1	L	372	LEU	CB-CG-CD1	5.05	125.84	110.70
1	N	123	LEU	N-CA-CB	-5.05	101.83	110.16
1	L	299	MET	CA-CB-CG	5.04	124.19	114.10
1	E	198	GLY	CA-C-O	5.04	124.41	119.37
1	M	28	VAL	CB-CA-C	-5.04	103.87	110.98
1	A	33	ILE	CA-C-O	5.04	124.71	120.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	89	SER	CA-C-O	5.04	125.74	119.79
1	I	222	LEU	N-CA-C	5.04	117.43	111.33
1	D	70	TYR	OH-CZ-CE2	-5.04	104.78	119.90
1	E	156	LEU	O-C-N	5.04	129.27	123.17
1	H	361	LYS	CB-CG-CD	-5.04	99.71	111.30
1	K	99	VAL	N-CA-C	-5.04	100.65	108.81
1	O	190	LEU	CB-CG-CD1	5.04	125.81	110.70
1	L	118	SER	CA-C-O	-5.04	115.87	121.51
1	M	113	LEU	CB-CG-CD1	-5.04	95.59	110.70
1	F	41	ARG	NE-CZ-NH2	5.04	123.73	119.20
1	F	343	SER	CA-C-N	-5.04	114.68	122.59
1	F	343	SER	C-N-CA	-5.04	114.68	122.59
1	I	372	LEU	O-C-N	-5.04	117.31	123.10
1	K	308	ASN	O-C-N	5.04	128.29	122.00
1	B	107	VAL	CG1-CB-CG2	-5.03	99.73	110.80
1	E	293	PRO	N-CD-CG	-5.03	95.65	103.20
1	G	391	ILE	CA-C-N	-5.03	113.14	122.60
1	G	391	ILE	C-N-CA	-5.03	113.14	122.60
1	I	252	ARG	CB-CG-CD	5.03	122.88	111.30
1	J	79	ASP	CA-C-O	5.03	123.97	119.59
1	K	283	THR	N-CA-C	5.03	121.52	110.80
1	L	389	THR	CA-CB-OG1	-5.03	102.05	109.60
1	K	254	GLN	N-CA-C	-5.03	100.40	108.55
1	L	286	LEU	CA-C-N	-5.03	114.06	122.92
1	L	286	LEU	C-N-CA	-5.03	114.06	122.92
1	A	24	THR	CA-CB-OG1	-5.03	102.05	109.60
1	D	317	GLN	N-CA-C	-5.03	106.97	113.01
1	E	142	ASP	N-CA-C	5.03	116.80	110.91
1	E	283	THR	OG1-CB-CG2	-5.03	99.24	109.30
1	F	147	ILE	CB-CG1-CD1	-5.03	103.23	113.80
1	I	48	PRO	CA-C-N	-5.03	113.84	122.79
1	I	48	PRO	C-N-CA	-5.03	113.84	122.79
1	M	108	GLY	CA-C-N	-5.03	113.72	122.37
1	M	108	GLY	C-N-CA	-5.03	113.72	122.37
1	N	293	PRO	CB-CA-C	-5.03	103.26	111.56
1	B	21	VAL	CB-CA-C	-5.03	103.72	111.31
1	C	65	VAL	N-CA-C	5.03	114.01	106.42
1	D	235	ILE	N-CA-C	5.03	119.80	109.34
1	E	186	PRO	CA-N-CD	-5.03	104.96	112.00
1	C	398	ILE	O-C-N	5.03	128.85	122.57
1	K	127	ASP	CA-C-N	5.03	128.61	121.42
1	K	127	ASP	C-N-CA	5.03	128.61	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	171	LYS	O-C-N	5.03	129.75	123.12
1	A	235	ILE	N-CA-C	5.02	116.35	110.62
1	O	42	LEU	CB-CG-CD1	-5.02	95.63	110.70
1	O	144	ARG	NE-CZ-NH1	5.02	126.52	121.50
1	O	193	THR	N-CA-CB	-5.02	102.95	111.69
1	O	353	THR	N-CA-C	-5.02	105.47	112.30
1	F	379	CYS	N-CA-C	5.02	117.05	109.41
1	J	50	PHE	CA-C-N	5.02	125.81	120.13
1	J	50	PHE	C-N-CA	5.02	125.81	120.13
1	B	251	ARG	CG-CD-NE	-5.02	100.95	112.00
1	L	364	LEU	CB-CG-CD1	5.02	125.76	110.70
1	L	381	ILE	CB-CG1-CD1	-5.02	103.26	113.80
1	G	336	THR	N-CA-C	-5.02	107.33	113.50
1	F	112	PRO	N-CD-CG	-5.01	95.68	103.20
1	I	277	ILE	CA-CB-CG2	-5.01	101.98	110.50
1	B	125	LYS	CB-CG-CD	5.01	122.83	111.30
1	B	350	THR	OG1-CB-CG2	-5.01	99.28	109.30
1	D	360	PHE	CA-C-O	-5.01	114.59	120.60
1	E	277	ILE	CA-C-O	-5.01	114.71	121.32
1	G	82	LYS	CG-CD-CE	-5.01	99.78	111.30
1	K	441	LEU	N-CA-C	-5.01	104.13	111.30
1	O	140	GLY	CA-C-N	-5.01	115.97	122.94
1	O	140	GLY	C-N-CA	-5.01	115.97	122.94
1	J	201	VAL	CB-CA-C	-5.01	103.08	111.29
1	B	365	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	E	323	ILE	CA-C-N	-5.01	114.52	122.23
1	E	323	ILE	C-N-CA	-5.01	114.52	122.23
1	K	149	MET	O-C-N	5.01	128.48	122.72
1	I	317	GLN	O-C-N	5.00	129.09	122.43
1	M	319	HIS	N-CA-C	-5.00	105.29	111.40
1	B	162	LYS	CD-CE-NZ	5.00	127.91	111.90
1	B	220	VAL	N-CA-C	5.00	119.69	108.88
1	C	309	LYS	N-CA-C	-5.00	101.84	109.64
1	D	77	LEU	CB-CG-CD2	-5.00	95.70	110.70
1	D	107	VAL	N-CA-CB	-5.00	102.98	111.23
1	G	459	LEU	N-CA-C	-5.00	107.13	113.18
1	H	336	THR	CA-CB-OG1	5.00	117.10	109.60
1	N	134	ALA	N-CA-CB	-5.00	103.96	111.56
1	O	334	VAL	O-C-N	5.00	128.18	123.03

There are no chirality outliers.

All (13) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	C	292	PHE	Sidechain
1	C	390	TYR	Sidechain
1	C	70	TYR	Sidechain
1	D	294	THR	Mainchain
1	E	234	TYR	Sidechain
1	F	383	LEU	Mainchain
1	G	135	TYR	Sidechain
1	L	276	TYR	Sidechain
1	L	311	TYR	Sidechain
1	L	390	TYR	Sidechain
1	M	271	VAL	Mainchain
1	N	249	TYR	Sidechain
1	O	291	TYR	Sidechain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3310	0	3213	580	0
1	B	3310	0	3213	569	0
1	C	3310	0	3213	543	0
1	D	3310	0	3213	570	11
1	E	3310	0	3213	528	5
1	F	3310	0	3213	576	5
1	G	3310	0	3213	608	0
1	H	3310	0	3213	550	5
1	I	3310	0	3213	589	26
1	J	3310	0	3213	569	26
1	K	3310	0	3213	553	0
1	L	3310	0	3213	544	0
1	M	3310	0	3213	555	5
1	N	3310	0	3213	551	11
1	O	3310	0	3213	555	0
All	All	49650	0	48195	7582	47

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 77.

All (7582) 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:D:115:VAL:CG1	1:D:115:VAL:CB	1.75	1.65
1:B:82:LYS:CB	1:B:82:LYS:CG	1.75	1.64
1:I:88:THR:CB	1:I:88:THR:CG2	1.76	1.64
1:F:176:THR:CB	1:F:176:THR:CG2	1.74	1.64
1:O:331:VAL:CB	1:O:331:VAL:CG1	1.75	1.63
1:N:95:THR:CB	1:N:95:THR:CG2	1.76	1.63
1:L:309:LYS:CD	1:L:309:LYS:CE	1.75	1.63
1:E:323:ILE:CB	1:E:323:ILE:CG2	1.76	1.62
1:C:348:ILE:CD1	1:C:348:ILE:CG1	1.74	1.61
1:F:353:THR:CB	1:F:353:THR:CG2	1.75	1.61
1:F:389:THR:CB	1:F:389:THR:CG2	1.75	1.61
1:I:61:LEU:CG	1:I:61:LEU:CD1	1.74	1.61
1:K:452:LYS:CG	1:K:452:LYS:CD	1.76	1.61
1:A:228:ILE:CD1	1:A:228:ILE:CG1	1.75	1.61
1:D:301:THR:CB	1:D:301:THR:CG2	1.75	1.61
1:J:300:VAL:CB	1:J:300:VAL:CG1	1.78	1.61
1:F:178:VAL:CG1	1:F:178:VAL:CB	1.75	1.61
1:B:33:ILE:CG1	1:B:33:ILE:CD1	1.79	1.61
1:D:64:LYS:CB	1:D:64:LYS:CG	1.76	1.61
1:J:180:VAL:CB	1:J:180:VAL:CG2	1.78	1.61
1:M:98:LEU:CG	1:M:98:LEU:CD1	1.76	1.61
1:A:178:VAL:CG1	1:A:178:VAL:CB	1.75	1.60
1:H:380:LYS:CE	1:H:380:LYS:CD	1.75	1.60
1:M:137:ALA:CA	1:M:137:ALA:CB	1.77	1.60
1:M:441:LEU:CD2	1:M:441:LEU:CG	1.77	1.60
1:K:346:ALA:CA	1:K:346:ALA:CB	1.75	1.60
1:D:380:LYS:CD	1:D:380:LYS:CE	1.77	1.60
1:K:230:LYS:CG	1:K:230:LYS:CD	1.78	1.60
1:B:61:LEU:CD1	1:B:61:LEU:CG	1.77	1.60
1:B:441:LEU:CD2	1:B:441:LEU:CG	1.80	1.60
1:H:469:LEU:CD2	1:H:469:LEU:CG	1.80	1.60
1:I:277:ILE:CG1	1:I:277:ILE:CD1	1.79	1.60
1:O:187:PRO:CG	1:O:187:PRO:CD	1.74	1.60
1:I:82:LYS:CD	1:I:82:LYS:CE	1.79	1.59
1:N:32:ASN:CG	1:N:32:ASN:CB	1.74	1.59
1:A:381:ILE:CB	1:A:381:ILE:CG2	1.77	1.59
1:B:467:LYS:CD	1:B:467:LYS:CG	1.79	1.59
1:D:53:LYS:CB	1:D:53:LYS:CG	1.75	1.59
1:E:389:THR:CB	1:E:389:THR:CG2	1.75	1.59
1:L:61:LEU:CG	1:L:61:LEU:CD1	1.75	1.59
1:F:154:THR:CB	1:F:154:THR:CG2	1.77	1.59
1:I:236:LYS:CB	1:I:236:LYS:CG	1.79	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:178:VAL:CG1	1:C:178:VAL:CB	1.80	1.59
1:F:117:ILE:CB	1:F:117:ILE:CG2	1.74	1.59
1:F:117:ILE:CG1	1:F:117:ILE:CD1	1.76	1.59
1:J:178:VAL:CB	1:J:178:VAL:CG1	1.77	1.59
1:M:32:ASN:CB	1:M:32:ASN:CG	1.76	1.59
1:D:194:VAL:CB	1:D:194:VAL:CG2	1.74	1.59
1:F:139:ALA:CA	1:F:139:ALA:CB	1.79	1.59
1:A:300:VAL:CG1	1:A:300:VAL:CB	1.77	1.58
1:F:33:ILE:CG1	1:F:33:ILE:CD1	1.80	1.58
1:J:236:LYS:CG	1:J:236:LYS:CD	1.79	1.58
1:N:228:ILE:CG1	1:N:228:ILE:CD1	1.78	1.58
1:O:452:LYS:CE	1:O:452:LYS:CD	1.74	1.58
1:C:59:LYS:CD	1:C:59:LYS:CE	1.77	1.58
1:E:33:ILE:CG1	1:E:33:ILE:CD1	1.75	1.58
1:C:217:LYS:CD	1:C:217:LYS:CE	1.78	1.58
1:I:193:THR:CB	1:I:193:THR:CG2	1.74	1.58
1:J:105:VAL:CB	1:J:105:VAL:CG2	1.77	1.58
1:K:30:ARG:CG	1:K:30:ARG:CD	1.74	1.58
1:F:467:LYS:CD	1:F:467:LYS:CE	1.79	1.58
1:F:383:LEU:CD2	1:F:383:LEU:CG	1.78	1.58
1:K:266:THR:CB	1:K:266:THR:CG2	1.77	1.58
1:N:112:PRO:CD	1:N:112:PRO:CG	1.78	1.58
1:O:235:ILE:CG1	1:O:235:ILE:CD1	1.82	1.58
1:B:171:LYS:CG	1:B:171:LYS:CD	1.75	1.57
1:E:213:LEU:CD1	1:E:213:LEU:CG	1.76	1.57
1:G:337:THR:CB	1:G:337:THR:CG2	1.74	1.57
1:I:358:THR:CB	1:I:358:THR:CG2	1.74	1.57
1:E:152:LYS:CD	1:E:152:LYS:CE	1.81	1.57
1:E:178:VAL:CB	1:E:178:VAL:CG1	1.76	1.57
1:C:356:LYS:NZ	1:C:356:LYS:CE	1.68	1.57
1:G:98:LEU:CG	1:G:98:LEU:CD1	1.78	1.57
1:N:28:VAL:CG1	1:N:28:VAL:CB	1.75	1.57
1:C:353:THR:CB	1:C:353:THR:CG2	1.77	1.57
1:N:338:ARG:CG	1:N:338:ARG:CD	1.75	1.57
1:A:178:VAL:CB	1:A:178:VAL:CG2	1.78	1.57
1:F:365:ARG:CD	1:F:365:ARG:CG	1.83	1.57
1:H:59:LYS:CD	1:H:59:LYS:CE	1.76	1.57
1:H:266:THR:CB	1:H:266:THR:CG2	1.74	1.57
1:J:88:THR:CB	1:J:88:THR:CG2	1.80	1.57
1:B:442:LYS:NZ	1:B:442:LYS:CE	1.68	1.56
1:E:177:GLN:CD	1:E:177:GLN:CG	1.78	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:179:ALA:CB	1:I:179:ALA:CA	1.81	1.56
1:N:61:LEU:CD1	1:N:61:LEU:CG	1.74	1.56
1:A:64:LYS:CB	1:A:64:LYS:CG	1.75	1.56
1:D:123:LEU:CD2	1:D:123:LEU:CG	1.76	1.56
1:O:98:LEU:CG	1:O:98:LEU:CD1	1.76	1.56
1:E:228:ILE:CG1	1:E:228:ILE:CD1	1.83	1.56
1:I:117:ILE:CG1	1:I:117:ILE:CD1	1.78	1.56
1:I:369:GLU:CB	1:I:369:GLU:CG	1.76	1.56
1:M:64:LYS:CG	1:M:64:LYS:CB	1.80	1.56
1:N:88:THR:CB	1:N:88:THR:CG2	1.75	1.56
1:O:117:ILE:CD1	1:O:117:ILE:CG1	1.77	1.56
1:N:313:LEU:CD2	1:N:313:LEU:CG	1.81	1.56
1:C:464:LEU:CG	1:C:464:LEU:CD1	1.84	1.56
1:G:201:VAL:CB	1:G:201:VAL:CG2	1.76	1.56
1:K:452:LYS:CD	1:K:452:LYS:CE	1.79	1.56
1:E:165:ILE:CD1	1:E:165:ILE:CG1	1.81	1.55
1:H:277:ILE:CG1	1:H:277:ILE:CD1	1.83	1.55
1:C:441:LEU:CD2	1:C:441:LEU:CG	1.83	1.55
1:G:470:LEU:CG	1:G:470:LEU:CD1	1.75	1.55
1:K:178:VAL:CG1	1:K:178:VAL:CB	1.77	1.55
1:N:382:THR:CB	1:N:382:THR:CG2	1.78	1.55
1:O:176:THR:CB	1:O:176:THR:CG2	1.77	1.55
1:F:54:LYS:NZ	1:F:54:LYS:CE	1.68	1.55
1:L:361:LYS:NZ	1:L:361:LYS:CE	1.70	1.55
1:C:77:LEU:CD2	1:C:77:LEU:CG	1.79	1.55
1:D:32:ASN:CB	1:D:32:ASN:CG	1.79	1.55
1:D:80:PRO:CG	1:D:80:PRO:CD	1.76	1.55
1:G:105:VAL:CB	1:G:105:VAL:CG2	1.78	1.55
1:H:139:ALA:CB	1:H:139:ALA:CA	1.78	1.55
1:H:361:LYS:CG	1:H:361:LYS:CB	1.77	1.55
1:L:152:LYS:CD	1:L:152:LYS:CE	1.79	1.55
1:B:123:LEU:CG	1:B:123:LEU:CD2	1.83	1.54
1:D:174:PRO:CB	1:D:174:PRO:CG	1.81	1.54
1:H:32:ASN:CB	1:H:32:ASN:CG	1.77	1.54
1:L:275:LEU:CD2	1:L:275:LEU:CG	1.83	1.54
1:G:230:LYS:NZ	1:G:230:LYS:CE	1.68	1.54
1:J:147:ILE:CG1	1:J:147:ILE:CD1	1.85	1.54
1:J:96:GLN:CA	1:J:96:GLN:C	1.76	1.54
1:M:86:PRO:CA	1:M:86:PRO:C	1.77	1.54
1:D:176:THR:CA	1:D:176:THR:CB	1.78	1.54
1:K:165:ILE:CG1	1:K:165:ILE:CD1	1.83	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:123:LEU:CD2	1:N:123:LEU:CG	1.82	1.54
1:K:159:ILE:CG1	1:K:159:ILE:CD1	1.76	1.54
1:K:162:LYS:CD	1:K:162:LYS:CE	1.79	1.54
1:M:178:VAL:CB	1:M:178:VAL:CG1	1.77	1.54
1:O:217:LYS:NZ	1:O:217:LYS:CE	1.70	1.54
1:O:164:PRO:CG	1:O:164:PRO:CD	1.77	1.53
1:D:137:ALA:CA	1:D:137:ALA:CB	1.77	1.53
1:F:467:LYS:CD	1:F:467:LYS:CG	1.87	1.53
1:G:178:VAL:CB	1:G:178:VAL:CG1	1.86	1.53
1:G:217:LYS:NZ	1:G:217:LYS:CE	1.68	1.53
1:L:152:LYS:CE	1:L:152:LYS:NZ	1.71	1.53
1:O:398:ILE:CD1	1:O:398:ILE:CG1	1.84	1.53
1:B:176:THR:CB	1:B:176:THR:CG2	1.84	1.53
1:G:20:ALA:CA	1:G:20:ALA:CB	1.81	1.53
1:D:181:GLN:CG	1:D:181:GLN:CD	1.79	1.53
1:E:235:ILE:CG1	1:E:235:ILE:CD1	1.80	1.53
1:M:147:ILE:CG1	1:M:147:ILE:CD1	1.86	1.53
1:C:467:LYS:CG	1:C:467:LYS:CD	1.80	1.53
1:G:309:LYS:NZ	1:G:309:LYS:CE	1.69	1.52
1:L:117:ILE:CD1	1:L:117:ILE:CG1	1.84	1.52
1:M:144:ARG:CG	1:M:144:ARG:CB	1.83	1.52
1:A:162:LYS:NZ	1:A:162:LYS:CE	1.72	1.52
1:A:278:LYS:NZ	1:A:278:LYS:CE	1.70	1.52
1:E:117:ILE:CG1	1:E:117:ILE:CD1	1.83	1.52
1:G:442:LYS:NZ	1:G:442:LYS:CE	1.69	1.52
1:N:454:LYS:NZ	1:N:454:LYS:CE	1.67	1.52
1:M:323:ILE:CG1	1:M:323:ILE:CD1	1.80	1.52
1:A:454:LYS:NZ	1:A:454:LYS:CE	1.69	1.52
1:C:60:ILE:CD1	1:C:60:ILE:CG1	1.87	1.52
1:H:178:VAL:CG1	1:H:178:VAL:CB	1.86	1.52
1:A:82:LYS:NZ	1:A:82:LYS:CE	1.68	1.51
1:D:361:LYS:CG	1:D:361:LYS:CD	1.86	1.51
1:L:228:ILE:CD1	1:L:228:ILE:CG1	1.88	1.51
1:D:356:LYS:NZ	1:D:356:LYS:CE	1.71	1.51
1:J:454:LYS:NZ	1:J:454:LYS:CE	1.71	1.51
1:A:64:LYS:CD	1:A:64:LYS:CE	1.85	1.51
1:A:443:LYS:NZ	1:A:443:LYS:CE	1.68	1.51
1:D:454:LYS:NZ	1:D:454:LYS:CE	1.71	1.51
1:O:230:LYS:NZ	1:O:230:LYS:CE	1.74	1.51
1:A:356:LYS:NZ	1:A:356:LYS:CE	1.73	1.50
1:D:178:VAL:CB	1:D:178:VAL:CG2	1.87	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:74:ARG:CG	1:J:74:ARG:CD	1.85	1.50
1:D:381:ILE:CG1	1:D:381:ILE:CD1	1.83	1.50
1:B:165:ILE:CD1	1:B:165:ILE:CG1	1.85	1.50
1:G:467:LYS:NZ	1:G:467:LYS:CE	1.74	1.50
1:L:230:LYS:NZ	1:L:230:LYS:CE	1.67	1.50
1:D:152:LYS:NZ	1:D:152:LYS:CE	1.70	1.49
1:C:241:PRO:CG	1:C:241:PRO:CB	1.83	1.49
1:A:152:LYS:NZ	1:A:152:LYS:CE	1.70	1.49
1:O:442:LYS:NZ	1:O:442:LYS:CE	1.76	1.49
1:D:60:ILE:CG1	1:D:60:ILE:CD1	1.91	1.49
1:L:159:ILE:CG1	1:L:159:ILE:CD1	1.90	1.49
1:B:272:PRO:CB	1:B:272:PRO:CG	1.82	1.48
1:B:463:PRO:CB	1:B:463:PRO:CG	1.84	1.48
1:N:356:LYS:NZ	1:N:356:LYS:CE	1.73	1.48
1:C:54:LYS:NZ	1:C:54:LYS:CE	1.73	1.48
1:C:467:LYS:NZ	1:C:467:LYS:CE	1.73	1.48
1:H:54:LYS:NZ	1:H:54:LYS:CE	1.74	1.47
1:M:82:LYS:NZ	1:M:82:LYS:CE	1.77	1.47
1:E:236:LYS:NZ	1:E:236:LYS:CE	1.77	1.47
1:I:217:LYS:NZ	1:I:217:LYS:CE	1.73	1.47
1:I:361:LYS:NZ	1:I:361:LYS:CE	1.75	1.47
1:O:452:LYS:CE	1:O:452:LYS:NZ	1.76	1.47
1:N:255:MET:CE	1:N:255:MET:SD	2.02	1.47
1:B:225:CYS:SG	1:B:225:CYS:CB	2.03	1.47
1:C:440:PRO:CG	1:C:440:PRO:CB	1.75	1.46
1:D:63:PRO:CB	1:D:63:PRO:CG	1.82	1.46
1:H:301:THR:CB	1:H:301:THR:CG2	1.94	1.46
1:L:165:ILE:CG1	1:L:165:ILE:CD1	1.90	1.46
1:G:241:PRO:CB	1:G:241:PRO:CG	1.81	1.46
1:A:64:LYS:CE	1:A:64:LYS:NZ	1.77	1.46
1:H:152:LYS:NZ	1:H:152:LYS:CE	1.72	1.46
1:I:241:PRO:CG	1:I:241:PRO:CB	1.79	1.46
1:K:272:PRO:CG	1:K:272:PRO:CB	1.76	1.45
1:M:356:LYS:NZ	1:M:356:LYS:CE	1.75	1.45
1:C:452:LYS:NZ	1:C:452:LYS:CE	1.78	1.45
1:H:59:LYS:CE	1:H:59:LYS:NZ	1.76	1.45
1:A:80:PRO:CG	1:A:80:PRO:CB	1.78	1.45
1:H:237:MET:SD	1:H:237:MET:CG	2.02	1.45
1:D:342:MET:CE	1:D:342:MET:SD	2.05	1.44
1:E:342:MET:CE	1:E:342:MET:SD	2.05	1.44
1:H:361:LYS:CG	1:H:361:LYS:CD	1.91	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:63:PRO:CB	1:H:63:PRO:CG	1.77	1.44
1:L:463:PRO:CB	1:L:463:PRO:CG	1.80	1.43
1:C:82:LYS:NZ	1:C:82:LYS:CE	1.78	1.43
1:M:63:PRO:CG	1:M:63:PRO:CB	1.78	1.43
1:F:175:CYS:SG	1:F:175:CYS:CB	2.05	1.43
1:L:440:PRO:CB	1:L:440:PRO:CG	1.74	1.43
1:J:388:MET:CE	1:J:388:MET:SD	2.05	1.42
1:F:59:LYS:NZ	1:F:59:LYS:CE	1.80	1.42
1:L:59:LYS:NZ	1:L:59:LYS:CE	1.81	1.41
1:N:63:PRO:CB	1:N:63:PRO:CG	1.75	1.40
1:M:230:LYS:NZ	1:M:230:LYS:CE	1.85	1.39
1:L:161:CYS:SG	1:L:161:CYS:CB	2.10	1.39
1:A:342:MET:SD	1:A:342:MET:CE	2.10	1.38
1:I:163:PRO:CG	1:I:163:PRO:CB	1.77	1.38
1:M:86:PRO:CG	1:M:86:PRO:CB	1.75	1.38
1:H:217:LYS:NZ	1:H:217:LYS:CE	1.88	1.36
1:C:51:PRO:CB	1:C:51:PRO:CG	1.92	1.36
1:G:51:PRO:CG	1:G:51:PRO:CB	1.89	1.35
1:L:272:PRO:CB	1:L:272:PRO:CG	1.96	1.35
1:O:241:PRO:CB	1:O:241:PRO:CG	1.78	1.34
1:E:63:PRO:CG	1:E:63:PRO:CB	1.75	1.34
1:I:356:LYS:NZ	1:I:356:LYS:CE	1.91	1.33
1:L:241:PRO:CB	1:L:241:PRO:CG	1.92	1.32
1:F:241:PRO:CG	1:F:241:PRO:CB	1.82	1.31
1:K:245:SER:OG	1:K:245:SER:CB	1.80	1.27
1:J:81:ASN:OD1	1:J:97:ARG:NH1	1.66	1.26
1:M:180:VAL:CG1	1:M:184:ASP:HB2	1.69	1.23
1:D:70:TYR:OH	1:D:232:PRO:HD3	1.33	1.23
1:N:151:TYR:CD2	1:N:203:THR:HB	1.76	1.20
1:C:345:CYS:SG	1:D:216:ASN:HB2	1.82	1.19
1:L:180:VAL:CG1	1:L:184:ASP:HB2	1.72	1.19
1:G:345:CYS:SG	1:H:216:ASN:HB2	1.82	1.17
1:C:180:VAL:HG12	1:C:184:ASP:HB2	1.22	1.17
1:O:70:TYR:OH	1:O:232:PRO:HD3	1.41	1.17
1:O:46:GLY:HA3	1:O:65:VAL:HG23	1.17	1.16
1:F:167:GLU:HB2	1:F:190:LEU:HD11	1.24	1.16
1:J:242:TYR:CD2	1:J:394:MET:HG3	1.81	1.16
1:G:151:TYR:CD2	1:G:203:THR:HB	1.78	1.16
1:D:98:LEU:HD13	1:D:378:LEU:HD11	1.19	1.16
1:F:151:TYR:CD2	1:F:203:THR:HB	1.81	1.15
1:I:472:LEU:CD2	1:M:138:ASN:HD22	1.59	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:152:LYS:HB2	1:L:255:MET:HB2	1.30	1.14
1:J:180:VAL:CG1	1:J:184:ASP:HB2	1.77	1.14
1:G:180:VAL:HG12	1:G:184:ASP:HB2	1.25	1.14
1:A:34:TYR:CE2	1:A:377:GLN:HG3	1.81	1.13
1:D:34:TYR:CE2	1:D:377:GLN:HG3	1.83	1.13
1:O:152:LYS:HB2	1:O:255:MET:HB2	1.31	1.12
1:D:68:LEU:O	1:D:201:VAL:HG22	1.49	1.12
1:G:463:PRO:HG2	1:G:464:LEU:H	1.12	1.12
1:M:79:ASP:OD2	1:M:81:ASN:HB2	1.49	1.11
1:A:286:LEU:HD12	1:E:122:LEU:HD21	1.33	1.11
1:B:54:LYS:HE3	1:B:55:PRO:HD2	1.30	1.11
1:M:117:ILE:HG21	1:N:293:PRO:HD3	1.33	1.11
1:A:65:VAL:HA	1:A:69:GLN:HE22	1.09	1.10
1:C:451:LEU:HD23	1:C:454:LYS:HG3	1.27	1.10
1:G:320:ASN:HD21	1:G:323:ILE:HB	1.11	1.10
1:N:75:ILE:HD12	1:N:75:ILE:N	1.55	1.10
1:D:112:PRO:HD3	1:E:231:TYR:CD2	1.84	1.10
1:G:74:ARG:HG3	1:G:330:PHE:CE2	1.87	1.10
1:K:216:ASN:HB2	1:O:345:CYS:SG	1.92	1.10
1:A:255:MET:HG2	1:A:256:PHE:N	1.33	1.09
1:F:78:PRO:HD3	1:F:452:LYS:HA	1.32	1.09
1:L:71:ARG:HH11	1:L:71:ARG:HA	1.15	1.09
1:A:345:CYS:SG	1:B:216:ASN:HB2	1.93	1.09
1:G:74:ARG:HG3	1:G:330:PHE:HE2	1.16	1.09
1:G:122:LEU:HD11	1:H:286:LEU:HD11	1.33	1.09
1:M:34:TYR:CE2	1:M:377:GLN:HB2	1.86	1.09
1:A:180:VAL:HG12	1:A:184:ASP:HB2	1.26	1.09
1:E:98:LEU:HD13	1:E:378:LEU:HD11	1.21	1.09
1:K:345:CYS:SG	1:L:216:ASN:HB2	1.91	1.09
1:G:180:VAL:CG1	1:G:184:ASP:HB2	1.83	1.09
1:N:344:LEU:HD23	1:N:344:LEU:N	1.68	1.09
1:J:98:LEU:HD22	1:J:378:LEU:CD1	1.83	1.08
1:M:74:ARG:NH2	1:M:441:LEU:HD12	1.67	1.08
1:M:115:VAL:H	1:N:255:MET:HE1	1.15	1.08
1:N:98:LEU:HD13	1:N:378:LEU:HD11	1.30	1.08
1:L:250:LEU:H	1:L:250:LEU:HD12	1.04	1.08
1:B:78:PRO:HD3	1:B:452:LYS:HA	1.34	1.08
1:N:217:LYS:HD3	1:O:274:ASP:O	1.53	1.08
1:N:67:GLY:O	1:N:68:LEU:HG	1.54	1.08
1:E:149:MET:HE3	1:E:294:THR:HG22	1.16	1.07
1:B:344:LEU:HD12	1:C:186:PRO:HD2	1.33	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:123:LEU:HD23	1:I:147:ILE:HB	1.37	1.07
1:I:167:GLU:HB2	1:I:190:LEU:HD11	1.34	1.07
1:J:180:VAL:HG12	1:J:184:ASP:HB2	1.27	1.07
1:A:54:LYS:HG3	1:A:55:PRO:HD2	1.35	1.07
1:A:286:LEU:CD1	1:E:122:LEU:HD11	1.84	1.07
1:N:78:PRO:HD3	1:N:452:LYS:HA	1.34	1.07
1:L:166:GLY:CA	1:L:195:ILE:HD11	1.84	1.06
1:N:151:TYR:OH	1:N:221:PRO:HG2	1.55	1.06
1:N:345:CYS:SG	1:O:216:ASN:HB2	1.95	1.06
1:K:152:LYS:HB2	1:K:255:MET:HB2	1.37	1.06
1:K:252:ARG:HD2	1:K:306:ILE:HD11	1.36	1.06
1:B:152:LYS:HB2	1:B:255:MET:HB2	1.37	1.06
1:J:98:LEU:CD2	1:J:378:LEU:HD11	1.85	1.06
1:H:345:CYS:SG	1:I:216:ASN:HB2	1.96	1.05
1:O:149:MET:HE3	1:O:294:THR:HG22	1.33	1.05
1:E:176:THR:O	1:E:177:GLN:HG3	1.56	1.05
1:A:139:ALA:HA	1:A:143:ASN:HD21	1.13	1.05
1:D:54:LYS:HE3	1:D:55:PRO:HD2	1.37	1.05
1:E:101:ALA:HA	1:E:322:GLY:O	1.56	1.05
1:E:152:LYS:HB2	1:E:255:MET:HB2	1.32	1.05
1:L:166:GLY:N	1:L:195:ILE:HD11	1.70	1.05
1:D:167:GLU:HB2	1:D:190:LEU:HD11	1.39	1.04
1:A:266:THR:OG1	1:E:361:LYS:HA	1.55	1.04
1:M:180:VAL:HG13	1:M:184:ASP:HB2	1.38	1.04
1:A:115:VAL:H	1:B:255:MET:HE1	1.18	1.04
1:O:46:GLY:HA3	1:O:65:VAL:CG2	1.87	1.04
1:H:259:HIS:C	1:H:260:LEU:HD12	1.82	1.04
1:J:255:MET:HG2	1:J:256:PHE:N	1.72	1.04
1:L:123:LEU:HD23	1:L:147:ILE:HB	1.35	1.04
1:L:344:LEU:HD11	1:M:185:CYS:SG	1.98	1.04
1:B:46:GLY:HA3	1:B:65:VAL:HG23	1.36	1.03
1:E:472:LEU:HD23	1:J:138:ASN:HD22	0.92	1.03
1:B:23:SER:OG	1:B:25:ASP:HB2	1.57	1.03
1:B:348:ILE:HG22	1:B:359:ASN:OD1	1.58	1.03
1:O:123:LEU:HD23	1:O:147:ILE:HB	1.40	1.03
1:D:30:ARG:HH11	1:D:377:GLN:HE22	1.07	1.03
1:A:255:MET:CG	1:A:256:PHE:N	2.22	1.02
1:H:169:TRP:HB3	1:H:188:LEU:HD12	1.42	1.02
1:D:152:LYS:HB2	1:D:255:MET:HB2	1.40	1.02
1:N:348:ILE:HG22	1:N:359:ASN:OD1	1.59	1.02
1:A:286:LEU:HD11	1:E:122:LEU:HD11	1.02	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:443:LYS:H	1:K:443:LYS:HD3	1.19	1.02
1:E:96:GLN:HB3	1:E:382:THR:HG22	1.39	1.01
1:K:67:GLY:O	1:K:68:LEU:HG	1.59	1.01
1:O:167:GLU:HB2	1:O:190:LEU:HD11	1.41	1.01
1:E:472:LEU:HD23	1:J:138:ASN:ND2	1.74	1.01
1:J:96:GLN:HA	1:J:382:THR:HA	1.36	1.01
1:D:176:THR:O	1:D:177:GLN:HG3	1.61	1.01
1:H:70:TYR:OH	1:H:232:PRO:HD3	1.60	1.01
1:N:66:SER:H	1:N:69:GLN:NE2	1.58	1.01
1:H:30:ARG:HH11	1:H:377:GLN:HE22	1.07	1.00
1:L:166:GLY:HA3	1:L:195:ILE:HD11	1.43	1.00
1:M:344:LEU:N	1:M:344:LEU:HD23	1.76	1.00
1:O:158:LEU:HB2	1:O:332:THR:OG1	1.61	1.00
1:C:74:ARG:HG3	1:C:330:PHE:CE2	1.96	1.00
1:K:180:VAL:CG1	1:K:184:ASP:HB2	1.92	1.00
1:D:252:ARG:HD2	1:D:306:ILE:HD11	1.39	1.00
1:J:44:ALA:O	1:J:45:VAL:HG23	1.61	1.00
1:N:152:LYS:HB2	1:N:255:MET:HB2	1.44	1.00
1:C:302:SER:O	1:C:304:ALA:N	1.93	1.00
1:H:342:MET:HB2	1:I:208:MET:HE1	1.43	1.00
1:J:130:GLU:HB2	1:J:260:LEU:HD13	1.39	1.00
1:H:71:ARG:HA	1:H:71:ARG:HH11	1.26	1.00
1:I:152:LYS:HB2	1:I:255:MET:HB2	1.43	1.00
1:A:75:ILE:HG23	1:A:451:LEU:HD12	1.44	0.99
1:F:71:ARG:HH11	1:F:71:ARG:HA	1.21	0.99
1:H:64:LYS:NZ	1:H:200:MET:HE2	1.78	0.99
1:G:361:LYS:HA	1:H:266:THR:OG1	1.61	0.99
1:H:68:LEU:HD22	1:H:203:THR:HG22	1.41	0.99
1:H:78:PRO:HD3	1:H:452:LYS:HA	1.44	0.99
1:L:250:LEU:HD12	1:L:250:LEU:N	1.72	0.99
1:A:71:ARG:HH11	1:A:71:ARG:HA	1.25	0.99
1:E:472:LEU:CD2	1:J:138:ASN:HD22	1.75	0.99
1:G:242:TYR:CD2	1:G:394:MET:HG3	1.98	0.98
1:F:21:VAL:HB	1:J:461:GLN:HE22	1.27	0.98
1:N:262:ASN:HD21	1:N:288:SER:HB3	1.26	0.98
1:D:71:ARG:HA	1:D:71:ARG:HH11	1.27	0.98
1:G:302:SER:O	1:G:304:ALA:N	1.97	0.98
1:B:325:TRP:CE2	1:B:394:MET:HE1	1.99	0.98
1:O:151:TYR:CD2	1:O:203:THR:HB	1.98	0.98
1:D:255:MET:HG2	1:D:256:PHE:N	1.78	0.98
1:G:54:LYS:HG3	1:G:55:PRO:HD2	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:71:ARG:HA	1:E:71:ARG:HH11	1.26	0.98
1:N:71:ARG:HH11	1:N:71:ARG:HA	1.28	0.98
1:G:255:MET:HG2	1:G:256:PHE:H	1.27	0.98
1:N:52:ILE:HD12	1:N:52:ILE:N	1.78	0.98
1:A:66:SER:H	1:A:69:GLN:NE2	1.62	0.97
1:A:286:LEU:HD11	1:E:122:LEU:CD1	1.94	0.97
1:A:279:GLY:HA3	1:A:283:THR:O	1.65	0.97
1:O:242:TYR:CE2	1:O:394:MET:HG3	1.99	0.97
1:F:149:MET:HE3	1:F:294:THR:HG22	1.46	0.97
1:N:167:GLU:HB2	1:N:190:LEU:HD11	1.46	0.97
1:E:99:VAL:HG11	1:E:323:ILE:HG22	1.46	0.97
1:K:54:LYS:HE3	1:K:55:PRO:HD2	1.44	0.97
1:M:74:ARG:HB2	1:M:330:PHE:HE2	1.30	0.97
1:A:65:VAL:HA	1:A:69:GLN:NE2	1.77	0.97
1:A:122:LEU:HD11	1:B:286:LEU:HD11	1.47	0.97
1:L:34:TYR:CE2	1:L:377:GLN:HB2	2.00	0.97
1:N:68:LEU:O	1:N:201:VAL:HG22	1.63	0.97
1:J:180:VAL:CG1	1:J:184:ASP:CB	2.42	0.96
1:K:279:GLY:HA3	1:K:283:THR:O	1.65	0.96
1:A:57:ASN:HD21	1:A:59:LYS:CB	1.77	0.96
1:H:152:LYS:HB2	1:H:255:MET:HB2	1.48	0.96
1:F:70:TYR:OH	1:F:232:PRO:HD3	1.63	0.96
1:N:262:ASN:ND2	1:N:288:SER:HB3	1.81	0.96
1:N:374:PHE:HB3	1:N:376:PHE:CE1	2.01	0.96
1:A:52:ILE:N	1:A:52:ILE:HD12	1.78	0.96
1:N:92:ASN:ND2	1:N:95:THR:H	1.61	0.96
1:C:190:LEU:HD12	1:C:191:ILE:H	1.28	0.96
1:M:361:LYS:HA	1:N:266:THR:OG1	1.64	0.96
1:H:176:THR:C	1:H:177:GLN:HG3	1.90	0.95
1:I:166:GLY:CA	1:I:195:ILE:HD11	1.94	0.95
1:I:472:LEU:HD23	1:M:138:ASN:HD22	1.28	0.95
1:M:383:LEU:HD23	1:M:388:MET:HE3	1.47	0.95
1:A:367:GLY:O	1:A:368:GLU:HG2	1.64	0.95
1:D:237:MET:O	1:D:240:GLU:HB3	1.66	0.95
1:L:70:TYR:OH	1:L:232:PRO:HD3	1.66	0.95
1:M:67:GLY:O	1:M:68:LEU:HG	1.67	0.95
1:B:345:CYS:SG	1:C:216:ASN:HB2	2.04	0.95
1:A:135:TYR:HE2	1:A:287:ALA:HB2	1.31	0.95
1:G:262:ASN:C	1:G:262:ASN:HD22	1.69	0.95
1:H:99:VAL:HG11	1:H:323:ILE:HG22	1.48	0.95
1:I:180:VAL:HG12	1:I:184:ASP:HB2	1.48	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:345:CYS:SG	1:N:216:ASN:HB2	2.05	0.95
1:A:180:VAL:CG1	1:A:184:ASP:HB2	1.95	0.95
1:G:180:VAL:CG1	1:G:184:ASP:CB	2.44	0.95
1:I:75:ILE:CD1	1:I:329:LEU:O	2.15	0.95
1:F:117:ILE:CG2	1:F:117:ILE:CA	2.44	0.94
1:F:216:ASN:HB2	1:J:345:CYS:SG	2.08	0.94
1:K:342:MET:HB2	1:L:208:MET:HE1	1.48	0.94
1:L:262:ASN:HD21	1:L:288:SER:HB3	1.27	0.94
1:M:383:LEU:CD2	1:M:388:MET:HE3	1.96	0.94
1:H:54:LYS:HZ2	1:H:55:PRO:HD2	1.32	0.94
1:K:259:HIS:C	1:K:260:LEU:HD12	1.90	0.94
1:M:98:LEU:HD13	1:M:378:LEU:HD21	1.48	0.94
1:F:97:ARG:HG2	1:F:383:LEU:HD11	1.49	0.94
1:O:180:VAL:CG1	1:O:184:ASP:HB2	1.95	0.94
1:E:123:LEU:HD23	1:E:147:ILE:HB	1.46	0.94
1:O:246:LEU:HD23	1:O:246:LEU:H	1.29	0.94
1:J:96:GLN:CA	1:J:382:THR:HA	1.97	0.94
1:I:152:LYS:CB	1:I:255:MET:HB2	1.97	0.94
1:J:23:SER:OG	1:J:25:ASP:HB2	1.66	0.94
1:A:242:TYR:CD2	1:A:394:MET:HG3	2.03	0.94
1:K:180:VAL:HG12	1:K:184:ASP:HB2	1.48	0.94
1:O:98:LEU:HD22	1:O:378:LEU:HD11	1.48	0.94
1:A:361:LYS:HA	1:B:266:THR:OG1	1.67	0.94
1:I:67:GLY:O	1:I:68:LEU:HG	1.68	0.94
1:F:180:VAL:CG1	1:F:184:ASP:HB2	1.97	0.94
1:H:320:ASN:OD1	1:H:321:ASN:N	2.01	0.94
1:J:96:GLN:HB3	1:J:382:THR:HG22	1.50	0.94
1:C:262:ASN:C	1:C:262:ASN:HD22	1.67	0.93
1:B:361:LYS:HA	1:C:266:THR:OG1	1.67	0.93
1:F:101:ALA:HA	1:F:322:GLY:O	1.67	0.93
1:G:49:TYR:HE2	1:G:118:SER:HA	1.32	0.93
1:K:202:ASP:OD2	1:O:112:PRO:HB2	1.68	0.93
1:N:358:THR:HA	1:O:266:THR:CG2	1.98	0.93
1:G:167:GLU:HG2	1:G:231:TYR:O	1.68	0.93
1:H:166:GLY:CA	1:H:195:ILE:HD11	1.97	0.93
1:D:443:LYS:HD3	1:D:443:LYS:H	1.33	0.93
1:G:74:ARG:CG	1:G:330:PHE:HE2	1.82	0.93
1:N:122:LEU:HD11	1:O:286:LEU:HD11	1.51	0.93
1:N:361:LYS:HA	1:O:266:THR:OG1	1.68	0.93
1:A:117:ILE:HG13	1:A:149:MET:O	1.69	0.93
1:C:188:LEU:CD1	1:C:213:LEU:HD11	1.99	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:97:ARG:CG	1:F:383:LEU:HD11	1.99	0.93
1:N:154:THR:H	1:N:336:THR:HG21	1.33	0.93
1:M:185:CYS:SG	1:M:186:PRO:HD2	2.08	0.93
1:F:23:SER:OG	1:F:25:ASP:HB2	1.69	0.93
1:G:44:ALA:HB3	1:G:368:GLU:HB2	1.51	0.93
1:H:49:TYR:HE2	1:H:118:SER:HA	1.31	0.93
1:H:67:GLY:O	1:H:68:LEU:HG	1.69	0.93
1:I:75:ILE:HD13	1:I:329:LEU:O	1.66	0.93
1:M:180:VAL:HG13	1:M:184:ASP:CB	1.99	0.93
1:C:115:VAL:HG22	1:D:255:MET:SD	2.09	0.92
1:C:180:VAL:CG1	1:C:184:ASP:HB2	1.99	0.92
1:C:361:LYS:HA	1:D:266:THR:OG1	1.69	0.92
1:G:71:ARG:HH12	1:G:198:GLY:H	1.10	0.92
1:O:65:VAL:HA	1:O:69:GLN:HE22	1.33	0.92
1:K:162:LYS:CE	1:K:162:LYS:CG	2.47	0.92
1:M:71:ARG:HA	1:M:71:ARG:HH11	1.32	0.92
1:N:180:VAL:HG13	1:N:184:ASP:HB2	1.49	0.92
1:A:262:ASN:HD21	1:A:288:SER:HB3	1.33	0.92
1:J:242:TYR:CE2	1:J:394:MET:HG3	2.05	0.92
1:B:115:VAL:HG21	1:C:257:VAL:HG13	1.50	0.92
1:F:266:THR:OG1	1:J:361:LYS:HA	1.67	0.92
1:M:117:ILE:CG2	1:N:293:PRO:HD3	2.00	0.92
1:M:281:GLY:O	1:M:284:ALA:N	2.02	0.92
1:N:344:LEU:HD23	1:N:344:LEU:H	1.32	0.92
1:F:443:LYS:H	1:F:443:LYS:HD3	1.30	0.92
1:H:115:VAL:H	1:I:255:MET:HE1	1.33	0.92
1:K:117:ILE:HG13	1:K:149:MET:O	1.70	0.92
1:K:320:ASN:OD1	1:K:321:ASN:N	2.03	0.92
1:N:79:ASP:OD2	1:N:81:ASN:HB2	1.68	0.92
1:B:344:LEU:HD11	1:C:185:CYS:SG	2.10	0.92
1:N:66:SER:H	1:N:69:GLN:HE21	1.05	0.92
1:N:126:LEU:HB3	1:N:262:ASN:HB3	1.52	0.92
1:J:260:LEU:N	1:J:260:LEU:HD12	1.84	0.92
1:K:466:ARG:HD3	1:L:319:HIS:CE1	2.05	0.92
1:A:74:ARG:NH2	1:A:441:LEU:HD12	1.84	0.91
1:A:139:ALA:HB1	1:A:143:ASN:OD1	1.70	0.91
1:D:305:GLN:HE22	1:D:337:THR:HG21	1.36	0.91
1:H:451:LEU:HD23	1:H:454:LYS:HG3	1.51	0.91
1:J:71:ARG:HG2	1:J:71:ARG:NH1	1.84	0.91
1:J:123:LEU:HD23	1:J:147:ILE:HB	1.51	0.91
1:M:98:LEU:CD1	1:M:98:LEU:CD2	2.47	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:28:VAL:HG22	1:B:381:ILE:HD11	1.52	0.91
1:H:74:ARG:HG3	1:H:330:PHE:CE2	2.06	0.91
1:H:75:ILE:HG23	1:H:451:LEU:HD12	1.51	0.91
1:J:71:ARG:HG2	1:J:71:ARG:HH11	1.36	0.91
1:C:385:ALA:O	1:C:389:THR:HG23	1.71	0.91
1:O:178:VAL:O	1:O:180:VAL:N	2.03	0.91
1:A:79:ASP:OD2	1:A:81:ASN:HB2	1.69	0.91
1:B:71:ARG:HA	1:B:71:ARG:HH11	1.35	0.91
1:F:344:LEU:HD12	1:G:186:PRO:HD2	1.52	0.91
1:H:30:ARG:HH11	1:H:377:GLN:NE2	1.68	0.91
1:K:123:LEU:HD23	1:K:147:ILE:HB	1.52	0.91
1:F:246:LEU:HD23	1:F:246:LEU:H	1.36	0.91
1:K:228:ILE:HD12	1:K:228:ILE:N	1.86	0.91
1:K:361:LYS:HA	1:L:266:THR:OG1	1.69	0.91
1:N:471:GLN:OE1	1:N:472:LEU:N	2.03	0.91
1:K:246:LEU:O	1:K:246:LEU:HD23	1.69	0.91
1:D:472:LEU:CD2	1:I:138:ASN:HD22	1.84	0.91
1:G:463:PRO:HG2	1:G:464:LEU:N	1.77	0.91
1:L:152:LYS:CB	1:L:255:MET:HB2	2.00	0.91
1:O:180:VAL:HG13	1:O:184:ASP:HB2	1.53	0.91
1:B:49:TYR:HE2	1:B:118:SER:HA	1.36	0.90
1:K:74:ARG:HG3	1:K:330:PHE:CE2	2.06	0.90
1:L:230:LYS:NZ	1:L:230:LYS:CD	2.34	0.90
1:N:154:THR:O	1:N:336:THR:HG23	1.70	0.90
1:D:66:SER:H	1:D:69:GLN:NE2	1.69	0.90
1:F:443:LYS:HD3	1:F:443:LYS:N	1.87	0.90
1:L:122:LEU:HD11	1:M:286:LEU:HD11	1.53	0.90
1:O:101:ALA:HA	1:O:322:GLY:O	1.72	0.90
1:A:156:LEU:C	1:A:156:LEU:HD12	1.97	0.90
1:H:167:GLU:HB2	1:H:190:LEU:HD11	1.53	0.90
1:D:246:LEU:HD23	1:D:246:LEU:H	1.37	0.90
1:H:112:PRO:HD3	1:I:231:TYR:CD2	2.06	0.90
1:H:260:LEU:HD12	1:H:260:LEU:N	1.80	0.90
1:L:67:GLY:O	1:L:68:LEU:HG	1.70	0.90
1:C:167:GLU:HG2	1:C:231:TYR:O	1.70	0.90
1:H:373:GLN:CB	1:H:464:LEU:HD12	2.01	0.90
1:L:66:SER:H	1:L:69:GLN:NE2	1.70	0.90
1:N:28:VAL:CG1	1:N:28:VAL:HB	2.02	0.90
1:O:242:TYR:CD2	1:O:394:MET:HG3	2.08	0.89
1:A:164:PRO:HG3	1:A:332:THR:OG1	1.71	0.89
1:I:378:LEU:HD12	1:I:379:CYS:N	1.86	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:344:LEU:HD13	1:E:213:LEU:CD1	2.02	0.89
1:F:255:MET:HE1	1:J:115:VAL:H	1.36	0.89
1:C:279:GLY:HA3	1:C:283:THR:O	1.72	0.89
1:F:52:ILE:HB	1:F:62:VAL:HB	1.53	0.89
1:J:54:LYS:HG3	1:J:55:PRO:HD2	1.53	0.89
1:O:65:VAL:HA	1:O:69:GLN:NE2	1.85	0.89
1:G:120:HIS:NE2	1:G:218:SER:HB3	1.87	0.89
1:L:39:THR:HG23	1:L:372:LEU:HB2	1.54	0.89
1:G:159:ILE:HD12	1:G:248:PHE:HD2	1.34	0.89
1:H:361:LYS:HD3	1:I:268:GLY:HA2	1.52	0.89
1:D:375:ILE:HG12	1:D:464:LEU:HD13	1.53	0.89
1:E:70:TYR:OH	1:E:232:PRO:HD3	1.72	0.89
1:I:166:GLY:HA3	1:I:195:ILE:HD11	1.53	0.89
1:M:255:MET:HG2	1:M:256:PHE:N	1.85	0.89
1:N:75:ILE:HD12	1:N:75:ILE:H	1.32	0.89
1:A:126:LEU:HB3	1:A:262:ASN:HB3	1.55	0.89
1:H:367:GLY:O	1:H:368:GLU:HG2	1.71	0.89
1:A:237:MET:O	1:A:240:GLU:HB3	1.73	0.89
1:D:54:LYS:HB3	1:D:57:ASN:HB3	1.55	0.89
1:D:383:LEU:HD23	1:D:388:MET:HE3	1.52	0.89
1:D:31:THR:HG23	1:D:378:LEU:O	1.72	0.88
1:M:78:PRO:HD3	1:M:452:LYS:HA	1.55	0.88
1:I:345:CYS:SG	1:J:216:ASN:HB2	2.12	0.88
1:J:167:GLU:HB2	1:J:190:LEU:HD11	1.55	0.88
1:N:115:VAL:H	1:O:255:MET:HE1	1.37	0.88
1:D:65:VAL:HA	1:D:69:GLN:HE22	1.36	0.88
1:O:320:ASN:OD1	1:O:323:ILE:HG12	1.73	0.88
1:H:373:GLN:HB3	1:H:464:LEU:HD12	1.55	0.88
1:O:74:ARG:HG3	1:O:330:PHE:HE2	1.38	0.88
1:D:250:LEU:HD12	1:D:250:LEU:N	1.88	0.88
1:G:361:LYS:HA	1:H:266:THR:HG1	1.34	0.88
1:K:260:LEU:HD12	1:K:260:LEU:N	1.84	0.88
1:A:286:LEU:CD1	1:E:122:LEU:HD21	2.04	0.88
1:C:300:VAL:HG23	1:C:300:VAL:O	1.72	0.88
1:A:255:MET:HG2	1:A:256:PHE:H	1.37	0.88
1:L:383:LEU:HD23	1:L:388:MET:HE3	1.55	0.88
1:O:280:SER:N	1:O:284:ALA:HB2	1.87	0.88
1:K:226:THR:HG21	1:L:275:LEU:HD22	1.54	0.88
1:N:344:LEU:N	1:N:344:LEU:CD2	2.34	0.88
1:E:50:PHE:HB2	1:E:51:PRO:HD2	1.55	0.88
1:G:463:PRO:CA	1:G:466:ARG:HH21	1.86	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:142:ASP:OD1	1:C:283:THR:OG1	1.91	0.88
1:C:250:LEU:N	1:C:250:LEU:HD12	1.87	0.88
1:D:126:LEU:HB3	1:D:262:ASN:HB3	1.54	0.88
1:G:216:ASN:CG	1:G:219:GLU:OE2	2.17	0.88
1:I:174:PRO:HG3	1:I:187:PRO:HG2	1.54	0.88
1:N:21:VAL:CG1	1:N:390:TYR:OH	2.22	0.88
1:A:64:LYS:CG	1:A:64:LYS:CA	2.53	0.87
1:B:152:LYS:CB	1:B:255:MET:HB2	2.04	0.87
1:B:344:LEU:CD1	1:C:186:PRO:HD2	2.03	0.87
1:C:82:LYS:HZ1	1:C:403:ASN:HD22	0.91	0.87
1:O:228:ILE:N	1:O:228:ILE:HD12	1.88	0.87
1:F:97:ARG:HG2	1:F:383:LEU:CD1	2.03	0.87
1:A:75:ILE:N	1:A:75:ILE:HD12	1.88	0.87
1:B:163:PRO:HD3	1:B:330:PHE:HE1	1.39	0.87
1:D:472:LEU:HD23	1:I:138:ASN:HD22	1.39	0.87
1:F:260:LEU:HD12	1:F:260:LEU:N	1.89	0.87
1:O:149:MET:CE	1:O:294:THR:HG22	2.05	0.87
1:A:68:LEU:HD23	1:A:201:VAL:HG21	1.56	0.87
1:B:74:ARG:HG3	1:B:330:PHE:CE2	2.09	0.87
1:I:74:ARG:HG3	1:I:330:PHE:CE2	2.09	0.87
1:J:383:LEU:HD22	1:J:388:MET:HE3	1.54	0.87
1:K:378:LEU:C	1:K:378:LEU:HD12	1.99	0.87
1:B:122:LEU:HD21	1:C:286:LEU:HD12	1.57	0.87
1:B:180:VAL:HG12	1:B:181:GLN:O	1.74	0.87
1:C:35:TYR:CE2	1:C:457:ALA:HB2	2.10	0.87
1:I:180:VAL:CG1	1:I:184:ASP:HB2	2.05	0.87
1:K:41:ARG:HH22	1:L:192:ASN:HD21	1.19	0.87
1:K:344:LEU:HD12	1:L:186:PRO:HD2	1.56	0.87
1:C:255:MET:HG2	1:C:256:PHE:H	1.38	0.87
1:L:255:MET:HG2	1:L:256:PHE:N	1.86	0.87
1:N:52:ILE:N	1:N:52:ILE:CD1	2.36	0.87
1:F:180:VAL:HG12	1:F:184:ASP:HB2	1.57	0.87
1:A:61:LEU:HD12	1:A:61:LEU:O	1.73	0.86
1:O:463:PRO:HB3	1:O:466:ARG:HH21	1.38	0.86
1:H:149:MET:HE3	1:H:294:THR:HG22	1.57	0.86
1:I:156:LEU:HG	1:I:334:VAL:HB	1.54	0.86
1:K:78:PRO:HD3	1:K:452:LYS:HA	1.56	0.86
1:L:142:ASP:O	1:M:283:THR:HG21	1.75	0.86
1:O:66:SER:H	1:O:69:GLN:NE2	1.73	0.86
1:F:260:LEU:HD23	1:J:117:ILE:HD11	1.57	0.86
1:I:171:LYS:HA	1:I:187:PRO:O	1.74	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:262:ASN:ND2	1:L:288:SER:HB3	1.89	0.86
1:O:66:SER:O	1:O:69:GLN:HG3	1.75	0.86
1:A:302:SER:HB2	1:B:253:GLU:H	1.40	0.86
1:G:242:TYR:CE2	1:G:394:MET:HG3	2.10	0.86
1:B:82:LYS:CB	1:B:82:LYS:CD	2.53	0.86
1:F:217:LYS:HD3	1:G:274:ASP:O	1.76	0.86
1:J:75:ILE:CG2	1:J:451:LEU:HD12	2.04	0.86
1:L:180:VAL:HG13	1:L:184:ASP:HB2	1.58	0.86
1:C:348:ILE:HG22	1:C:359:ASN:OD1	1.74	0.86
1:F:21:VAL:HG12	1:F:22:VAL:N	1.88	0.86
1:K:443:LYS:HD3	1:K:443:LYS:N	1.90	0.86
1:L:149:MET:HE3	1:L:294:THR:HG22	1.58	0.86
1:A:78:PRO:HD3	1:A:452:LYS:HA	1.57	0.86
1:F:154:THR:O	1:F:336:THR:HG23	1.76	0.86
1:N:153:GLN:HE22	1:N:300:VAL:HA	1.39	0.86
1:H:151:TYR:CD2	1:H:203:THR:HB	2.10	0.86
1:I:34:TYR:CE2	1:I:377:GLN:HB2	2.11	0.86
1:K:345:CYS:SG	1:L:216:ASN:CB	2.63	0.86
1:A:66:SER:H	1:A:69:GLN:HE21	1.24	0.86
1:J:207:ALA:HB1	1:J:229:CYS:O	1.75	0.86
1:M:262:ASN:C	1:M:262:ASN:HD22	1.82	0.86
1:B:172:GLY:O	1:B:173:SER:C	2.17	0.85
1:F:65:VAL:HA	1:F:69:GLN:HE22	1.38	0.85
1:F:126:LEU:HB3	1:F:262:ASN:HB3	1.58	0.85
1:G:96:GLN:HB3	1:G:382:THR:HG22	1.58	0.85
1:N:156:LEU:HG	1:N:334:VAL:HB	1.58	0.85
1:H:121:PRO:O	1:H:122:LEU:HD23	1.75	0.85
1:I:70:TYR:OH	1:I:232:PRO:HD3	1.77	0.85
1:N:363:TYR:CD1	1:O:185:CYS:HB2	2.11	0.85
1:F:254:GLN:HA	1:J:300:VAL:O	1.76	0.85
1:F:255:MET:SD	1:J:114:GLY:HA2	2.17	0.85
1:J:50:PHE:HB2	1:J:51:PRO:HD2	1.58	0.85
1:M:156:LEU:C	1:M:156:LEU:HD12	2.01	0.85
1:N:67:GLY:C	1:N:68:LEU:HG	1.94	0.85
1:O:443:LYS:HD3	1:O:443:LYS:H	1.40	0.85
1:C:40:SER:O	1:C:371:ASP:OD1	1.95	0.85
1:D:180:VAL:HG12	1:D:184:ASP:HB2	1.58	0.85
1:E:23:SER:OG	1:E:25:ASP:HB2	1.75	0.85
1:E:151:TYR:CD2	1:E:203:THR:HB	2.11	0.85
1:E:183:GLY:O	1:E:185:CYS:N	2.10	0.85
1:J:66:SER:H	1:J:69:GLN:NE2	1.74	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:78:PRO:HD3	1:D:452:LYS:HA	1.56	0.85
1:A:46:GLY:HA3	1:A:65:VAL:HG23	1.57	0.85
1:C:345:CYS:SG	1:D:216:ASN:CB	2.63	0.85
1:F:99:VAL:HG11	1:F:323:ILE:HG22	1.58	0.85
1:G:104:GLY:O	1:G:374:PHE:HA	1.75	0.85
1:C:142:ASP:OD2	1:C:144:ARG:HG3	1.76	0.85
1:L:74:ARG:HG3	1:L:330:PHE:CE2	2.11	0.85
1:F:253:GLU:H	1:J:302:SER:HB2	1.41	0.84
1:G:320:ASN:ND2	1:G:323:ILE:HB	1.91	0.84
1:O:74:ARG:HG3	1:O:330:PHE:CE2	2.12	0.84
1:B:46:GLY:HA3	1:B:65:VAL:CG2	2.07	0.84
1:F:345:CYS:SG	1:G:216:ASN:HB2	2.17	0.84
1:G:344:LEU:HD13	1:H:213:LEU:HD12	1.57	0.84
1:J:246:LEU:H	1:J:246:LEU:HD23	1.40	0.84
1:N:390:TYR:O	1:N:392:HIS:N	2.10	0.84
1:C:180:VAL:HG12	1:C:184:ASP:CB	2.05	0.84
1:G:255:MET:HG2	1:G:256:PHE:N	1.86	0.84
1:A:147:ILE:HA	1:B:129:THR:O	1.77	0.84
1:A:151:TYR:CD2	1:A:203:THR:HB	2.12	0.84
1:A:176:THR:O	1:A:177:GLN:HG3	1.77	0.84
1:C:166:GLY:CA	1:C:195:ILE:HD11	2.06	0.84
1:D:358:THR:HA	1:E:266:THR:CG2	2.07	0.84
1:K:156:LEU:HG	1:K:334:VAL:HB	1.57	0.84
1:M:117:ILE:HD11	1:N:260:LEU:HD23	1.59	0.84
1:D:52:ILE:N	1:D:52:ILE:HD12	1.93	0.84
1:J:151:TYR:CD2	1:J:203:THR:HB	2.12	0.84
1:L:172:GLY:O	1:L:173:SER:O	1.94	0.84
1:M:66:SER:H	1:M:69:GLN:NE2	1.75	0.84
1:M:180:VAL:HG12	1:M:184:ASP:HB2	1.58	0.84
1:O:451:LEU:HD23	1:O:454:LYS:HG3	1.57	0.84
1:D:272:PRO:HD2	1:D:275:LEU:HD12	1.59	0.84
1:G:176:THR:O	1:G:177:GLN:HG3	1.77	0.84
1:O:250:LEU:H	1:O:250:LEU:HD12	1.43	0.84
1:B:344:LEU:HD12	1:C:186:PRO:CD	2.06	0.84
1:G:112:PRO:HD3	1:H:231:TYR:CD2	2.12	0.84
1:H:171:LYS:HA	1:H:187:PRO:O	1.76	0.84
1:C:466:ARG:HD2	1:D:317:GLN:O	1.77	0.84
1:F:389:THR:CG2	1:F:389:THR:HB	2.04	0.84
1:G:188:LEU:CD1	1:G:213:LEU:HD11	2.07	0.84
1:N:154:THR:H	1:N:336:THR:CG2	1.89	0.84
1:A:300:VAL:O	1:B:254:GLN:HA	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:380:LYS:CE	1:D:380:LYS:CG	2.56	0.84
1:C:250:LEU:HD12	1:C:250:LEU:H	1.42	0.84
1:A:361:LYS:HA	1:B:266:THR:HG1	1.42	0.83
1:B:152:LYS:HB2	1:B:255:MET:CB	2.08	0.83
1:C:34:TYR:CE2	1:C:377:GLN:HB2	2.13	0.83
1:G:23:SER:OG	1:G:25:ASP:HB2	1.78	0.83
1:K:167:GLU:HB2	1:K:190:LEU:HD11	1.60	0.83
1:M:113:LEU:HD22	1:N:253:GLU:HG3	1.60	0.83
1:N:248:PHE:CZ	1:N:311:TYR:HB3	2.13	0.83
1:A:57:ASN:HD21	1:A:59:LYS:HB3	1.42	0.83
1:C:65:VAL:HA	1:C:69:GLN:NE2	1.93	0.83
1:E:67:GLY:O	1:E:68:LEU:HG	1.78	0.83
1:K:443:LYS:H	1:K:443:LYS:CD	1.91	0.83
1:N:70:TYR:OH	1:N:230:LYS:O	1.96	0.83
1:C:162:LYS:C	1:C:330:PHE:HD1	1.85	0.83
1:F:75:ILE:CG2	1:F:451:LEU:HD12	2.07	0.83
1:N:21:VAL:HG13	1:N:390:TYR:OH	1.78	0.83
1:E:152:LYS:CB	1:E:255:MET:HB2	2.07	0.83
1:F:154:THR:H	1:F:336:THR:HG21	1.44	0.83
1:L:92:ASN:ND2	1:L:95:THR:OG1	2.10	0.83
1:M:228:ILE:N	1:M:228:ILE:HD12	1.92	0.83
1:C:82:LYS:HZ1	1:C:403:ASN:ND2	1.74	0.83
1:E:57:ASN:ND2	1:E:59:LYS:H	1.76	0.83
1:E:156:LEU:HG	1:E:334:VAL:HB	1.58	0.83
1:J:152:LYS:HG3	1:J:152:LYS:O	1.78	0.83
1:K:276:TYR:HA	1:O:217:LYS:HG2	1.61	0.83
1:A:231:TYR:CD2	1:E:112:PRO:HD3	2.14	0.83
1:I:71:ARG:HH11	1:I:71:ARG:HA	1.42	0.83
1:L:180:VAL:HG12	1:L:184:ASP:HB2	1.59	0.83
1:L:470:LEU:O	1:L:470:LEU:HD23	1.78	0.83
1:O:36:HIS:CG	1:O:462:PHE:CD1	2.67	0.83
1:O:78:PRO:HD3	1:O:452:LYS:HA	1.58	0.83
1:O:98:LEU:CD1	1:O:98:LEU:HG	2.06	0.83
1:B:122:LEU:HD21	1:C:286:LEU:CD1	2.09	0.83
1:E:46:GLY:HA3	1:E:65:VAL:HG23	1.59	0.83
1:F:75:ILE:HD12	1:F:75:ILE:N	1.93	0.83
1:I:217:LYS:HD3	1:J:274:ASP:O	1.76	0.83
1:K:189:GLU:O	1:K:191:ILE:HG13	1.77	0.83
1:L:167:GLU:HB2	1:L:190:LEU:HD11	1.58	0.83
1:E:459:LEU:HB3	1:E:465:GLY:HA3	1.58	0.83
1:G:71:ARG:HH12	1:G:198:GLY:N	1.77	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:112:PRO:HB2	1:H:202:ASP:OD2	1.79	0.83
1:L:361:LYS:HA	1:M:266:THR:OG1	1.78	0.83
1:M:180:VAL:CG1	1:M:184:ASP:CB	2.53	0.83
1:A:171:LYS:HA	1:A:187:PRO:O	1.78	0.83
1:B:52:ILE:HD12	1:B:52:ILE:N	1.92	0.83
1:C:188:LEU:HD11	1:C:213:LEU:HD11	1.58	0.83
1:G:70:TYR:OH	1:G:232:PRO:HD3	1.79	0.83
1:I:152:LYS:HE2	1:I:202:ASP:HB3	1.59	0.83
1:L:166:GLY:N	1:L:195:ILE:CD1	2.41	0.83
1:N:72:VAL:HG21	1:N:195:ILE:O	1.79	0.83
1:O:152:LYS:HB2	1:O:255:MET:CB	2.09	0.83
1:O:279:GLY:HA3	1:O:283:THR:O	1.78	0.83
1:C:117:ILE:HD11	1:D:260:LEU:HD23	1.60	0.83
1:C:190:LEU:HD12	1:C:191:ILE:N	1.94	0.83
1:F:123:LEU:HD23	1:F:147:ILE:HB	1.61	0.83
1:G:71:ARG:NH1	1:G:198:GLY:H	1.75	0.83
1:M:65:VAL:HA	1:M:69:GLN:HE22	1.44	0.83
1:H:384:THR:HG23	1:H:387:VAL:HG21	1.60	0.82
1:J:178:VAL:O	1:J:180:VAL:N	2.12	0.82
1:C:71:ARG:HH11	1:C:71:ARG:HA	1.43	0.82
1:D:79:ASP:OD2	1:D:81:ASN:HB2	1.78	0.82
1:I:174:PRO:HG3	1:I:187:PRO:CG	2.09	0.82
1:D:361:LYS:HA	1:E:266:THR:OG1	1.79	0.82
1:E:43:LEU:HD12	1:E:369:GLU:HA	1.58	0.82
1:F:49:TYR:HE2	1:F:118:SER:HA	1.42	0.82
1:G:65:VAL:HA	1:G:69:GLN:HE22	1.44	0.82
1:H:122:LEU:HD13	1:H:144:ARG:NH2	1.94	0.82
1:I:109:ARG:NH1	1:I:370:TYR:CE1	2.47	0.82
1:O:272:PRO:HD2	1:O:275:LEU:HD11	1.61	0.82
1:A:92:ASN:ND2	1:A:95:THR:H	1.76	0.82
1:A:159:ILE:HD12	1:A:248:PHE:HD2	1.45	0.82
1:F:30:ARG:HH11	1:F:377:GLN:HE22	1.27	0.82
1:F:176:THR:O	1:F:177:GLN:HG3	1.78	0.82
1:B:52:ILE:HB	1:B:62:VAL:HB	1.59	0.82
1:D:101:ALA:HA	1:D:322:GLY:O	1.77	0.82
1:H:99:VAL:HG11	1:H:323:ILE:CG2	2.09	0.82
1:L:242:TYR:CE2	1:L:394:MET:HG3	2.14	0.82
1:M:75:ILE:HB	1:M:329:LEU:HB3	1.62	0.82
1:D:383:LEU:CD2	1:D:388:MET:HE3	2.09	0.82
1:J:144:ARG:C	1:J:145:GLU:HG2	2.05	0.82
1:A:139:ALA:CA	1:A:143:ASN:HD21	1.92	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:51:PRO:C	1:B:52:ILE:HD12	2.04	0.82
1:I:82:LYS:CE	1:I:82:LYS:CG	2.57	0.82
1:K:192:ASN:HD21	1:O:41:ARG:HH22	1.24	0.82
1:N:338:ARG:CD	1:N:338:ARG:CB	2.58	0.82
1:F:95:THR:O	1:F:383:LEU:N	2.11	0.82
1:O:92:ASN:ND2	1:O:95:THR:H	1.77	0.82
1:O:123:LEU:CD2	1:O:147:ILE:HB	2.10	0.82
1:E:98:LEU:HD22	1:E:379:CYS:O	1.80	0.82
1:F:451:LEU:HD23	1:F:454:LYS:HG3	1.59	0.82
1:M:451:LEU:HD23	1:M:454:LYS:HG3	1.61	0.82
1:N:97:ARG:HA	1:N:97:ARG:HH11	1.44	0.82
1:C:82:LYS:NZ	1:C:403:ASN:HD22	1.78	0.82
1:L:71:ARG:HA	1:L:71:ARG:NH1	1.95	0.82
1:L:237:MET:O	1:L:240:GLU:HB3	1.80	0.82
1:A:375:ILE:HG12	1:A:464:LEU:HD13	1.61	0.81
1:C:180:VAL:CG1	1:C:184:ASP:CB	2.57	0.81
1:J:156:LEU:C	1:J:156:LEU:HD12	2.04	0.81
1:M:115:VAL:H	1:N:255:MET:CE	1.92	0.81
1:B:122:LEU:HD13	1:B:144:ARG:NH2	1.95	0.81
1:F:72:VAL:HG21	1:F:195:ILE:O	1.78	0.81
1:F:156:LEU:HG	1:F:334:VAL:HB	1.62	0.81
1:H:24:THR:CG2	1:H:320:ASN:HA	2.10	0.81
1:K:242:TYR:CD2	1:K:394:MET:HG3	2.15	0.81
1:C:126:LEU:HB3	1:C:262:ASN:HB3	1.59	0.81
1:D:152:LYS:NZ	1:D:253:GLU:OE1	2.13	0.81
1:G:54:LYS:HB2	1:G:57:ASN:HD22	1.44	0.81
1:I:156:LEU:HD12	1:I:156:LEU:O	1.79	0.81
1:J:180:VAL:HG13	1:J:184:ASP:CB	2.09	0.81
1:K:171:LYS:HA	1:K:187:PRO:O	1.80	0.81
1:L:344:LEU:HD12	1:M:186:PRO:HG2	1.61	0.81
1:B:96:GLN:HB3	1:B:382:THR:HG22	1.61	0.81
1:F:361:LYS:HA	1:G:266:THR:OG1	1.80	0.81
1:H:156:LEU:HD11	1:H:334:VAL:HG23	1.63	0.81
1:H:391:ILE:HB	1:H:399:LEU:HD21	1.62	0.81
1:N:34:TYR:CE2	1:N:377:GLN:HB2	2.14	0.81
1:O:170:GLY:HA2	1:O:213:LEU:HD21	1.62	0.81
1:C:375:ILE:HG12	1:C:464:LEU:HD13	1.62	0.81
1:G:123:LEU:HD23	1:G:147:ILE:HB	1.60	0.81
1:H:70:TYR:OH	1:H:230:LYS:O	1.97	0.81
1:A:97:ARG:HH11	1:A:97:ARG:HA	1.46	0.81
1:G:470:LEU:CD1	1:G:470:LEU:CB	2.59	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:75:ILE:CG2	1:I:451:LEU:HD12	2.09	0.81
1:K:159:ILE:HD12	1:K:248:PHE:HD2	1.45	0.81
1:L:154:THR:O	1:L:336:THR:HG23	1.80	0.81
1:M:167:GLU:HG2	1:M:231:TYR:O	1.81	0.81
1:D:302:SER:HB2	1:E:253:GLU:H	1.43	0.81
1:I:305:GLN:C	1:I:306:ILE:HD13	2.06	0.81
1:K:122:LEU:HD13	1:K:144:ARG:NH2	1.95	0.81
1:M:237:MET:O	1:M:240:GLU:HB3	1.81	0.81
1:D:30:ARG:HH11	1:D:377:GLN:NE2	1.78	0.81
1:I:57:ASN:ND2	1:I:59:LYS:H	1.79	0.81
1:K:151:TYR:CD2	1:K:203:THR:HB	2.16	0.81
1:N:65:VAL:HA	1:N:69:GLN:HE22	1.46	0.81
1:A:52:ILE:N	1:A:52:ILE:CD1	2.43	0.81
1:G:262:ASN:HD22	1:G:263:ARG:N	1.79	0.81
1:K:70:TYR:OH	1:K:232:PRO:HD3	1.81	0.81
1:C:74:ARG:HG3	1:C:330:PHE:HE2	1.45	0.80
1:D:471:GLN:O	1:D:472:LEU:OXT	1.98	0.80
1:F:52:ILE:HD12	1:F:52:ILE:N	1.95	0.80
1:H:101:ALA:HA	1:H:322:GLY:O	1.80	0.80
1:I:358:THR:HG22	1:J:266:THR:HG22	1.62	0.80
1:L:344:LEU:HD12	1:M:186:PRO:HD2	1.63	0.80
1:A:262:ASN:ND2	1:A:288:SER:HB3	1.94	0.80
1:D:64:LYS:CG	1:D:64:LYS:CA	2.59	0.80
1:G:152:LYS:HB2	1:G:255:MET:HB2	1.63	0.80
1:J:99:VAL:HG11	1:J:323:ILE:HG23	1.63	0.80
1:D:34:TYR:CE2	1:D:377:GLN:CG	2.64	0.80
1:E:96:GLN:HB3	1:E:382:THR:CG2	2.11	0.80
1:F:96:GLN:HA	1:F:383:LEU:HD12	1.63	0.80
1:M:64:LYS:CG	1:M:64:LYS:CA	2.58	0.80
1:A:162:LYS:C	1:A:330:PHE:HD1	1.89	0.80
1:G:49:TYR:CE2	1:G:118:SER:HA	2.17	0.80
1:H:280:SER:O	1:H:280:SER:OG	1.99	0.80
1:L:241:PRO:HG2	1:L:242:TYR:H	1.45	0.80
1:A:101:ALA:HA	1:A:322:GLY:O	1.81	0.80
1:H:360:PHE:O	1:I:266:THR:OG1	2.00	0.80
1:L:344:LEU:N	1:L:344:LEU:HD23	1.96	0.80
1:M:344:LEU:HD23	1:M:344:LEU:H	1.43	0.80
1:A:74:ARG:CZ	1:A:441:LEU:HD12	2.11	0.80
1:A:461:GLN:HE22	1:B:21:VAL:HB	1.46	0.80
1:C:441:LEU:CD2	1:C:441:LEU:HG	2.07	0.80
1:F:246:LEU:H	1:F:246:LEU:CD2	1.93	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:367:GLY:O	1:I:368:GLU:HG2	1.81	0.80
1:M:299:MET:HE2	1:N:298:SER:HB2	1.64	0.80
1:N:313:LEU:CD2	1:N:313:LEU:CD1	2.59	0.80
1:N:361:LYS:HA	1:O:266:THR:HG1	1.44	0.80
1:O:230:LYS:NZ	1:O:230:LYS:CD	2.44	0.80
1:A:180:VAL:CG1	1:A:184:ASP:CB	2.60	0.80
1:D:71:ARG:HH11	1:D:71:ARG:CA	1.94	0.80
1:J:163:PRO:HD3	1:J:330:PHE:HE1	1.47	0.80
1:L:361:LYS:NZ	1:L:361:LYS:CD	2.45	0.80
1:M:52:ILE:HD12	1:M:52:ILE:N	1.94	0.80
1:N:112:PRO:HD3	1:O:231:TYR:CD2	2.16	0.80
1:O:452:LYS:CE	1:O:452:LYS:CG	2.59	0.80
1:B:96:GLN:HB3	1:B:382:THR:CG2	2.11	0.80
1:K:323:ILE:HD13	1:K:323:ILE:N	1.97	0.80
1:O:261:PHE:HB3	1:O:292:PHE:CE2	2.17	0.80
1:A:299:MET:HA	1:B:256:PHE:HB3	1.61	0.80
1:E:65:VAL:HA	1:E:69:GLN:NE2	1.97	0.80
1:F:78:PRO:CD	1:F:452:LYS:HA	2.12	0.80
1:F:363:TYR:CD1	1:G:185:CYS:HB2	2.17	0.80
1:M:463:PRO:HA	1:M:466:ARG:HE	1.47	0.80
1:D:70:TYR:HH	1:D:232:PRO:HD3	1.46	0.80
1:E:395:ASN:O	1:E:398:ILE:HG12	1.81	0.80
1:F:365:ARG:HD3	1:F:365:ARG:HA	1.64	0.80
1:H:180:VAL:CG1	1:H:184:ASP:HB2	2.12	0.80
1:K:156:LEU:C	1:K:156:LEU:HD12	2.07	0.80
1:G:30:ARG:HH11	1:G:377:GLN:NE2	1.80	0.79
1:G:72:VAL:HG22	1:G:332:THR:CG2	2.12	0.79
1:G:113:LEU:HD22	1:H:253:GLU:HG3	1.62	0.79
1:G:399:LEU:O	1:G:402:TRP:HB2	1.81	0.79
1:H:64:LYS:HZ2	1:H:200:MET:HE2	1.42	0.79
1:J:79:ASP:OD2	1:J:81:ASN:HB2	1.82	0.79
1:J:375:ILE:HG12	1:J:464:LEU:HD13	1.63	0.79
1:L:172:GLY:O	1:L:173:SER:C	2.24	0.79
1:M:74:ARG:HB2	1:M:330:PHE:CE2	2.16	0.79
1:N:252:ARG:HD2	1:N:306:ILE:HD11	1.63	0.79
1:B:77:LEU:HD22	1:B:455:PHE:CZ	2.17	0.79
1:B:451:LEU:O	1:B:454:LYS:HB2	1.82	0.79
1:G:466:ARG:HD2	1:H:317:GLN:O	1.80	0.79
1:M:130:GLU:HB2	1:M:260:LEU:HD13	1.65	0.79
1:M:255:MET:HG2	1:M:256:PHE:H	1.46	0.79
1:K:373:GLN:HB3	1:K:464:LEU:HD12	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:30:ARG:HH11	1:F:377:GLN:NE2	1.81	0.79
1:J:262:ASN:C	1:J:262:ASN:HD22	1.90	0.79
1:F:252:ARG:HD2	1:F:306:ILE:HD11	1.64	0.79
1:N:320:ASN:OD1	1:N:321:ASN:N	2.16	0.79
1:B:72:VAL:HG22	1:B:332:THR:HG23	1.65	0.79
1:B:172:GLY:O	1:B:173:SER:O	2.00	0.79
1:C:112:PRO:HB2	1:D:202:ASP:OD2	1.82	0.79
1:D:242:TYR:CE2	1:D:394:MET:HB2	2.17	0.79
1:E:30:ARG:HH11	1:E:377:GLN:NE2	1.81	0.79
1:G:461:GLN:HE22	1:H:21:VAL:HB	1.48	0.79
1:J:54:LYS:HG2	1:J:56:ASN:OD1	1.83	0.79
1:K:142:ASP:O	1:L:283:THR:HG21	1.82	0.79
1:M:323:ILE:HD13	1:M:323:ILE:N	1.97	0.79
1:N:390:TYR:C	1:N:392:HIS:H	1.91	0.79
1:O:442:LYS:NZ	1:O:442:LYS:HG2	1.97	0.79
1:A:117:ILE:HD12	1:B:293:PRO:HB3	1.65	0.79
1:D:23:SER:OG	1:D:25:ASP:HB2	1.83	0.79
1:J:95:THR:O	1:J:383:LEU:N	2.11	0.79
1:C:172:GLY:O	1:C:173:SER:C	2.26	0.79
1:C:344:LEU:HD13	1:D:213:LEU:HD12	1.65	0.79
1:E:160:GLY:HA3	1:E:245:SER:O	1.83	0.79
1:G:120:HIS:HE2	1:G:218:SER:HB3	1.46	0.79
1:K:323:ILE:HG21	1:K:325:TRP:CH2	2.18	0.79
1:M:381:ILE:HG22	1:M:381:ILE:O	1.83	0.79
1:O:280:SER:CA	1:O:284:ALA:HB2	2.12	0.79
1:G:54:LYS:HA	1:G:54:LYS:NZ	1.98	0.79
1:B:463:PRO:HB3	1:B:466:ARG:HH21	1.47	0.79
1:F:57:ASN:ND2	1:F:59:LYS:H	1.81	0.79
1:G:78:PRO:HD3	1:G:452:LYS:HA	1.64	0.79
1:D:72:VAL:HG22	1:D:332:THR:HG23	1.66	0.78
1:K:52:ILE:HD12	1:K:52:ILE:N	1.98	0.78
1:M:298:SER:OG	1:M:299:MET:N	2.12	0.78
1:A:162:LYS:NZ	1:A:162:LYS:CD	2.45	0.78
1:F:97:ARG:HA	1:F:97:ARG:HH11	1.45	0.78
1:I:228:ILE:HD12	1:I:228:ILE:N	1.96	0.78
1:J:96:GLN:HA	1:J:382:THR:CA	2.14	0.78
1:M:152:LYS:HB2	1:M:255:MET:HB2	1.64	0.78
1:B:117:ILE:HD11	1:C:260:LEU:HD23	1.65	0.78
1:B:123:LEU:CD2	1:B:123:LEU:HG	2.10	0.78
1:D:176:THR:O	1:D:177:GLN:CG	2.31	0.78
1:D:300:VAL:O	1:D:300:VAL:HG23	1.81	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:65:VAL:HA	1:F:69:GLN:NE2	1.97	0.78
1:H:30:ARG:NH1	1:H:377:GLN:HE22	1.80	0.78
1:K:117:ILE:HD12	1:L:293:PRO:HB3	1.64	0.78
1:K:41:ARG:HH22	1:L:192:ASN:ND2	1.81	0.78
1:A:207:ALA:HB1	1:A:229:CYS:O	1.82	0.78
1:B:220:VAL:O	1:B:221:PRO:C	2.22	0.78
1:E:257:VAL:HG12	1:E:293:PRO:HB2	1.62	0.78
1:F:97:ARG:HA	1:F:97:ARG:NH1	1.98	0.78
1:I:348:ILE:HG22	1:I:359:ASN:OD1	1.84	0.78
1:L:120:HIS:HA	1:L:222:LEU:HD13	1.65	0.78
1:M:323:ILE:CD1	1:M:323:ILE:CA	2.61	0.78
1:B:101:ALA:HA	1:B:322:GLY:O	1.84	0.78
1:F:363:TYR:CG	1:G:185:CYS:HB2	2.19	0.78
1:G:345:CYS:SG	1:H:216:ASN:CB	2.68	0.78
1:I:68:LEU:HD23	1:I:201:VAL:HG21	1.66	0.78
1:I:323:ILE:HD13	1:I:323:ILE:N	1.99	0.78
1:J:236:LYS:CD	1:J:236:LYS:CB	2.61	0.78
1:K:300:VAL:O	1:L:254:GLN:HA	1.82	0.78
1:L:348:ILE:HG22	1:L:359:ASN:OD1	1.83	0.78
1:N:152:LYS:NZ	1:N:253:GLU:OE1	2.17	0.78
1:D:117:ILE:HD11	1:E:260:LEU:HD23	1.65	0.78
1:F:255:MET:SD	1:J:114:GLY:CA	2.72	0.78
1:L:34:TYR:HE2	1:L:377:GLN:HB2	1.44	0.78
1:L:54:LYS:HG3	1:L:55:PRO:HD2	1.65	0.78
1:O:237:MET:HB3	1:O:246:LEU:HD22	1.64	0.78
1:C:151:TYR:CD2	1:C:203:THR:HB	2.19	0.78
1:D:66:SER:OG	1:D:67:GLY:N	2.15	0.78
1:E:193:THR:HG23	1:E:230:LYS:HD2	1.63	0.78
1:H:277:ILE:CD1	1:H:277:ILE:CB	2.61	0.78
1:H:469:LEU:CD2	1:H:469:LEU:CB	2.61	0.78
1:I:193:THR:CG2	1:I:193:THR:CA	2.62	0.78
1:N:66:SER:N	1:N:69:GLN:HE21	1.80	0.78
1:C:356:LYS:NZ	1:C:356:LYS:CD	2.45	0.78
1:D:60:ILE:O	1:D:60:ILE:HG13	1.84	0.78
1:D:395:ASN:HB3	1:D:398:ILE:HG12	1.66	0.78
1:E:250:LEU:N	1:E:250:LEU:HD12	1.98	0.78
1:G:156:LEU:HG	1:G:334:VAL:HB	1.63	0.78
1:G:201:VAL:CG2	1:G:201:VAL:CG1	2.61	0.78
1:K:180:VAL:CG1	1:K:184:ASP:CB	2.62	0.78
1:K:373:GLN:CB	1:K:464:LEU:HD12	2.13	0.78
1:M:300:VAL:HG23	1:M:300:VAL:O	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:75:ILE:N	1:N:75:ILE:CD1	2.37	0.78
1:D:162:LYS:C	1:D:330:PHE:HD1	1.91	0.78
1:J:66:SER:H	1:J:69:GLN:HE21	1.30	0.78
1:J:67:GLY:O	1:J:68:LEU:HG	1.84	0.78
1:L:39:THR:O	1:L:39:THR:OG1	1.92	0.78
1:O:49:TYR:HE2	1:O:118:SER:HA	1.47	0.78
1:O:54:LYS:HG3	1:O:55:PRO:HD2	1.64	0.78
1:E:250:LEU:HD12	1:E:250:LEU:H	1.47	0.77
1:F:176:THR:CG2	1:F:176:THR:CA	2.62	0.77
1:H:122:LEU:HD11	1:I:286:LEU:HD11	1.66	0.77
1:J:399:LEU:HD23	1:J:402:TRP:CE3	2.19	0.77
1:B:57:ASN:HD21	1:B:59:LYS:HB3	1.48	0.77
1:B:171:LYS:HA	1:B:187:PRO:O	1.83	0.77
1:C:156:LEU:HG	1:C:334:VAL:HB	1.66	0.77
1:D:54:LYS:CB	1:D:57:ASN:HB3	2.15	0.77
1:K:65:VAL:HA	1:K:69:GLN:HE22	1.49	0.77
1:K:375:ILE:CG1	1:K:464:LEU:HD22	2.15	0.77
1:M:262:ASN:HD22	1:M:263:ARG:N	1.82	0.77
1:H:30:ARG:NH1	1:H:377:GLN:NE2	2.32	0.77
1:H:49:TYR:HA	1:H:223:ASP:HB3	1.65	0.77
1:N:162:LYS:HB3	1:N:163:PRO:HD2	1.64	0.77
1:B:28:VAL:HG22	1:B:381:ILE:CD1	2.14	0.77
1:C:158:LEU:HD22	1:C:249:TYR:HB2	1.67	0.77
1:F:365:ARG:CD	1:F:365:ARG:HA	2.13	0.77
1:I:78:PRO:HD3	1:I:452:LYS:HA	1.64	0.77
1:K:54:LYS:HG3	1:K:55:PRO:HD2	1.67	0.77
1:K:122:LEU:HD21	1:L:286:LEU:HD12	1.67	0.77
1:B:210:PHE:O	1:B:214:GLN:HB2	1.84	0.77
1:E:246:LEU:HD23	1:E:246:LEU:H	1.48	0.77
1:F:24:THR:HG23	1:F:320:ASN:HA	1.66	0.77
1:K:68:LEU:HD23	1:K:201:VAL:HG21	1.64	0.77
1:K:363:TYR:CG	1:L:185:CYS:HB2	2.20	0.77
1:N:34:TYR:HE2	1:N:377:GLN:HB2	1.49	0.77
1:N:451:LEU:HD23	1:N:454:LYS:HG3	1.66	0.77
1:B:374:PHE:O	1:B:375:ILE:HD13	1.83	0.77
1:F:139:ALA:O	1:F:140:GLY:O	2.03	0.77
1:G:105:VAL:CG2	1:G:105:VAL:HB	2.11	0.77
1:H:380:LYS:CD	1:H:380:LYS:NZ	2.47	0.77
1:N:101:ALA:HA	1:N:322:GLY:O	1.84	0.77
1:M:74:ARG:CZ	1:M:441:LEU:HD12	2.15	0.77
1:N:344:LEU:H	1:N:344:LEU:CD2	1.97	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:382:THR:O	1:E:387:VAL:HG11	1.85	0.77
1:G:98:LEU:CD1	1:G:98:LEU:HG	2.10	0.77
1:L:471:GLN:O	1:L:472:LEU:OXT	2.03	0.77
1:N:98:LEU:HD13	1:N:378:LEU:CD1	2.11	0.77
1:O:459:LEU:HD23	1:O:459:LEU:N	1.99	0.77
1:A:66:SER:N	1:A:69:GLN:HE21	1.83	0.77
1:F:154:THR:H	1:F:336:THR:CG2	1.97	0.77
1:M:98:LEU:HD13	1:M:378:LEU:HD11	1.67	0.77
1:M:180:VAL:HG12	1:M:181:GLN:O	1.84	0.77
1:N:99:VAL:HG11	1:N:323:ILE:HG22	1.67	0.77
1:N:395:ASN:HB3	1:N:398:ILE:HG12	1.65	0.77
1:A:139:ALA:HA	1:A:143:ASN:ND2	1.97	0.77
1:B:180:VAL:HG13	1:B:184:ASP:HB2	1.66	0.77
1:C:170:GLY:HA2	1:C:213:LEU:HD21	1.67	0.77
1:F:78:PRO:HD3	1:F:452:LYS:CA	2.14	0.77
1:H:219:GLU:O	1:H:220:VAL:HG13	1.84	0.77
1:I:358:THR:CG2	1:I:358:THR:CA	2.62	0.77
1:J:391:ILE:HG21	1:J:402:TRP:CZ3	2.20	0.77
1:O:69:GLN:HA	1:O:199:ASP:O	1.85	0.77
1:C:35:TYR:CZ	1:C:457:ALA:HB2	2.19	0.76
1:D:154:THR:H	1:D:336:THR:HG21	1.49	0.76
1:E:23:SER:HG	1:E:25:ASP:HB2	1.48	0.76
1:G:451:LEU:HD23	1:G:454:LYS:HG3	1.67	0.76
1:H:220:VAL:O	1:H:221:PRO:C	2.25	0.76
1:H:361:LYS:HA	1:I:266:THR:OG1	1.84	0.76
1:J:246:LEU:H	1:J:246:LEU:CD2	1.96	0.76
1:L:260:LEU:HD12	1:L:260:LEU:N	2.00	0.76
1:F:185:CYS:SG	1:F:186:PRO:HD2	2.25	0.76
1:I:166:GLY:N	1:I:195:ILE:HD11	1.98	0.76
1:M:302:SER:O	1:M:304:ALA:N	2.18	0.76
1:B:122:LEU:HD11	1:C:286:LEU:HD11	1.67	0.76
1:B:395:ASN:O	1:B:398:ILE:HG12	1.85	0.76
1:F:344:LEU:HD11	1:G:185:CYS:SG	2.26	0.76
1:K:71:ARG:HH11	1:K:71:ARG:HA	1.50	0.76
1:M:123:LEU:HD23	1:M:147:ILE:HB	1.66	0.76
1:N:151:TYR:CG	1:N:203:THR:HB	2.19	0.76
1:F:79:ASP:OD2	1:F:81:ASN:HB2	1.85	0.76
1:G:375:ILE:HG12	1:G:464:LEU:HD13	1.67	0.76
1:J:242:TYR:CE2	1:J:394:MET:HB2	2.21	0.76
1:N:338:ARG:CG	1:N:338:ARG:NE	2.48	0.76
1:O:54:LYS:HG2	1:O:56:ASN:OD1	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:237:MET:O	1:E:240:GLU:HB3	1.86	0.76
1:H:117:ILE:HD12	1:I:293:PRO:HB3	1.66	0.76
1:K:105:VAL:CG1	1:K:106:GLU:N	2.47	0.76
1:L:385:ALA:O	1:L:389:THR:HG23	1.85	0.76
1:M:142:ASP:OD2	1:M:144:ARG:HG3	1.86	0.76
1:F:126:LEU:CB	1:F:262:ASN:HB3	2.15	0.76
1:K:378:LEU:HD12	1:K:379:CYS:N	2.00	0.76
1:N:200:MET:O	1:N:229:CYS:HA	1.86	0.76
1:O:300:VAL:HG11	1:O:337:THR:HA	1.68	0.76
1:A:344:LEU:HD13	1:B:213:LEU:HD12	1.65	0.76
1:D:348:ILE:HG22	1:D:359:ASN:OD1	1.86	0.76
1:F:107:VAL:HG23	1:F:311:TYR:HE1	1.50	0.76
1:G:166:GLY:CA	1:G:195:ILE:HD11	2.16	0.76
1:K:65:VAL:HA	1:K:69:GLN:NE2	2.01	0.76
1:N:54:LYS:HB3	1:N:57:ASN:HD22	1.51	0.76
1:B:97:ARG:HG3	1:B:383:LEU:HD13	1.66	0.76
1:D:120:HIS:NE2	1:D:218:SER:HB3	2.00	0.76
1:E:75:ILE:HD13	1:E:331:VAL:HG23	1.66	0.76
1:M:86:PRO:C	1:M:86:PRO:HA	2.06	0.76
1:A:266:THR:HG1	1:E:361:LYS:HA	1.47	0.76
1:A:323:ILE:HD13	1:A:323:ILE:N	2.01	0.76
1:E:367:GLY:O	1:E:368:GLU:HG2	1.85	0.76
1:F:231:TYR:CD2	1:J:112:PRO:HD3	2.21	0.76
1:I:255:MET:HG2	1:I:256:PHE:H	1.51	0.76
1:J:180:VAL:CG2	1:J:180:VAL:HB	2.13	0.76
1:K:153:GLN:NE2	1:K:300:VAL:HG12	2.00	0.76
1:L:228:ILE:N	1:L:228:ILE:HD12	2.01	0.76
1:C:60:ILE:HG21	1:C:60:ILE:HD13	1.67	0.76
1:H:209:ASP:O	1:H:213:LEU:HD23	1.86	0.76
1:H:220:VAL:O	1:H:221:PRO:O	2.04	0.76
1:A:66:SER:N	1:A:69:GLN:NE2	2.33	0.75
1:B:54:LYS:HZ1	1:B:54:LYS:HA	1.51	0.75
1:C:71:ARG:HH12	1:C:198:GLY:H	1.32	0.75
1:C:78:PRO:HD2	1:C:455:PHE:CE1	2.21	0.75
1:F:457:ALA:O	1:F:459:LEU:HD23	1.86	0.75
1:G:188:LEU:HD11	1:G:213:LEU:HD11	1.67	0.75
1:G:391:ILE:CG2	1:G:398:ILE:HG21	2.16	0.75
1:H:465:GLY:O	1:H:466:ARG:C	2.29	0.75
1:J:399:LEU:HD23	1:J:402:TRP:HE3	1.50	0.75
1:C:67:GLY:C	1:C:68:LEU:HG	2.12	0.75
1:C:142:ASP:O	1:D:283:THR:HG21	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:65:VAL:HA	1:E:69:GLN:HE22	1.50	0.75
1:G:171:LYS:HA	1:G:187:PRO:O	1.84	0.75
1:H:64:LYS:HZ3	1:H:200:MET:HE2	1.51	0.75
1:H:154:THR:O	1:H:336:THR:HG23	1.86	0.75
1:I:74:ARG:HG3	1:I:330:PHE:HE2	1.50	0.75
1:I:174:PRO:CG	1:I:187:PRO:HG2	2.16	0.75
1:I:472:LEU:HD23	1:M:138:ASN:ND2	2.02	0.75
1:J:52:ILE:HB	1:J:62:VAL:HB	1.69	0.75
1:K:141:VAL:HG13	1:O:357:ASN:H	1.49	0.75
1:F:255:MET:CE	1:J:115:VAL:H	2.00	0.75
1:G:246:LEU:HD12	1:G:249:TYR:HB3	1.68	0.75
1:I:160:GLY:HA3	1:I:245:SER:O	1.87	0.75
1:L:395:ASN:O	1:L:398:ILE:HG12	1.86	0.75
1:M:471:GLN:OE1	1:M:472:LEU:N	2.18	0.75
1:B:165:ILE:CD1	1:B:165:ILE:CB	2.63	0.75
1:C:54:LYS:HZ3	1:C:54:LYS:HA	1.52	0.75
1:C:60:ILE:HG13	1:C:60:ILE:O	1.84	0.75
1:C:395:ASN:O	1:C:398:ILE:HG12	1.85	0.75
1:F:113:LEU:HD22	1:G:253:GLU:HG3	1.67	0.75
1:K:21:VAL:HG13	1:K:390:TYR:OH	1.87	0.75
1:O:250:LEU:HD12	1:O:250:LEU:N	1.99	0.75
1:D:115:VAL:CG1	1:D:115:VAL:CA	2.62	0.75
1:H:363:TYR:CD2	1:I:185:CYS:HB2	2.21	0.75
1:J:171:LYS:HA	1:J:187:PRO:O	1.86	0.75
1:K:213:LEU:CD1	1:O:344:LEU:HD13	2.17	0.75
1:M:112:PRO:HB2	1:N:202:ASP:OD2	1.86	0.75
1:B:142:ASP:O	1:C:283:THR:HG21	1.87	0.75
1:B:214:GLN:OE1	1:B:219:GLU:HB2	1.87	0.75
1:E:341:ASN:HB3	1:E:366:HIS:HB2	1.67	0.75
1:F:237:MET:O	1:F:240:GLU:HB3	1.86	0.75
1:G:463:PRO:CB	1:G:466:ARG:HH21	1.99	0.75
1:H:28:VAL:HG12	1:H:29:ALA:N	2.00	0.75
1:H:300:VAL:HG23	1:H:300:VAL:O	1.85	0.75
1:J:375:ILE:CG1	1:J:464:LEU:HD13	2.16	0.75
1:N:61:LEU:HD12	1:N:61:LEU:O	1.86	0.75
1:A:363:TYR:CD2	1:B:185:CYS:HB2	2.22	0.75
1:B:383:LEU:HD23	1:B:388:MET:HE3	1.68	0.75
1:C:152:LYS:HB2	1:C:255:MET:HB2	1.69	0.75
1:D:122:LEU:HD11	1:E:286:LEU:HD11	1.68	0.75
1:D:345:CYS:SG	1:E:216:ASN:HB2	2.27	0.75
1:H:49:TYR:CE2	1:H:118:SER:HA	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:237:MET:O	1:J:240:GLU:HB3	1.87	0.75
1:B:78:PRO:CD	1:B:452:LYS:HA	2.17	0.75
1:F:117:ILE:CB	1:F:117:ILE:CD1	2.64	0.75
1:H:363:TYR:CG	1:I:185:CYS:HB2	2.21	0.75
1:M:299:MET:HE2	1:N:298:SER:CB	2.16	0.75
1:A:242:TYR:CE2	1:A:394:MET:HG3	2.21	0.75
1:D:34:TYR:HE2	1:D:377:GLN:HG3	1.52	0.75
1:D:250:LEU:HD12	1:D:250:LEU:H	1.49	0.75
1:E:246:LEU:HD23	1:E:246:LEU:N	1.99	0.75
1:K:112:PRO:HD3	1:L:231:TYR:CD2	2.22	0.75
1:L:70:TYR:HE1	1:L:201:VAL:HA	1.51	0.75
1:N:164:PRO:HG3	1:N:332:THR:HG21	1.69	0.75
1:O:104:GLY:O	1:O:374:PHE:HA	1.87	0.75
1:O:343:SER:HB3	1:O:364:LEU:HD23	1.69	0.75
1:B:66:SER:H	1:B:69:GLN:NE2	1.85	0.74
1:C:77:LEU:HD22	1:C:455:PHE:CZ	2.22	0.74
1:D:246:LEU:H	1:D:246:LEU:CD2	2.00	0.74
1:H:125:LYS:NZ	1:I:132:ALA:O	2.19	0.74
1:I:472:LEU:CD2	1:M:138:ASN:ND2	2.45	0.74
1:M:344:LEU:N	1:M:344:LEU:CD2	2.49	0.74
1:N:78:PRO:HD3	1:N:452:LYS:CA	2.17	0.74
1:A:112:PRO:HD3	1:B:231:TYR:CD2	2.22	0.74
1:D:71:ARG:HA	1:D:71:ARG:NH1	2.01	0.74
1:I:169:TRP:HB3	1:I:188:LEU:HD12	1.68	0.74
1:J:156:LEU:HG	1:J:334:VAL:HB	1.67	0.74
1:N:385:ALA:O	1:N:389:THR:HG23	1.86	0.74
1:J:180:VAL:HG13	1:J:184:ASP:HB3	1.69	0.74
1:K:344:LEU:HB3	1:L:213:LEU:HD12	1.67	0.74
1:M:115:VAL:N	1:N:255:MET:HE1	2.00	0.74
1:O:223:ASP:OD1	1:O:224:ILE:HG12	1.88	0.74
1:B:98:LEU:HD13	1:B:378:LEU:HD11	1.68	0.74
1:B:262:ASN:ND2	1:B:288:SER:HB3	2.02	0.74
1:C:33:ILE:HB	1:C:378:LEU:HB3	1.68	0.74
1:F:209:ASP:O	1:F:213:LEU:HD23	1.86	0.74
1:F:348:ILE:HG22	1:F:359:ASN:OD1	1.86	0.74
1:I:217:LYS:NZ	1:I:217:LYS:CD	2.49	0.74
1:J:463:PRO:HA	1:J:466:ARG:HE	1.52	0.74
1:O:385:ALA:O	1:O:389:THR:HG23	1.88	0.74
1:B:463:PRO:HG2	1:B:464:LEU:N	2.02	0.74
1:C:298:SER:OG	1:C:299:MET:N	2.12	0.74
1:F:168:HIS:HB2	1:F:208:MET:HA	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:21:VAL:HG12	1:I:390:TYR:OH	1.88	0.74
1:J:170:GLY:HA2	1:J:213:LEU:HD21	1.68	0.74
1:K:66:SER:H	1:K:69:GLN:NE2	1.86	0.74
1:M:75:ILE:CG2	1:M:451:LEU:HD12	2.17	0.74
1:M:150:ASP:CG	1:N:257:VAL:HG21	2.12	0.74
1:E:50:PHE:HB2	1:E:51:PRO:CD	2.18	0.74
1:E:71:ARG:HH11	1:E:71:ARG:CA	2.00	0.74
1:F:110:GLY:O	1:F:111:GLN:NE2	2.20	0.74
1:H:166:GLY:HA3	1:H:195:ILE:HD11	1.68	0.74
1:I:305:GLN:O	1:I:306:ILE:HD13	1.88	0.74
1:J:71:ARG:HH11	1:J:71:ARG:HA	1.51	0.74
1:J:74:ARG:HD2	1:J:330:PHE:CE2	2.23	0.74
1:J:81:ASN:CG	1:J:97:ARG:NH1	2.45	0.74
1:K:227:SER:C	1:K:228:ILE:HD12	2.13	0.74
1:K:348:ILE:HG22	1:K:359:ASN:OD1	1.87	0.74
1:K:367:GLY:O	1:K:368:GLU:HG2	1.88	0.74
1:M:151:TYR:CD2	1:M:203:THR:HB	2.23	0.74
1:M:395:ASN:HB3	1:M:398:ILE:HG12	1.69	0.74
1:C:464:LEU:CD1	1:C:464:LEU:HG	2.09	0.74
1:F:372:LEU:HB3	1:F:374:PHE:HE1	1.52	0.74
1:L:24:THR:HG21	1:L:323:ILE:HG13	1.70	0.74
1:M:144:ARG:CB	1:M:144:ARG:CD	2.66	0.74
1:N:358:THR:HA	1:O:266:THR:HG22	1.68	0.74
1:O:302:SER:O	1:O:304:ALA:N	2.20	0.74
1:D:112:PRO:HD3	1:E:231:TYR:CG	2.22	0.74
1:E:49:TYR:O	1:E:64:LYS:HE2	1.87	0.74
1:J:75:ILE:HB	1:J:329:LEU:CB	2.17	0.74
1:J:107:VAL:HG23	1:J:311:TYR:HE1	1.52	0.74
1:K:31:THR:HG23	1:K:378:LEU:O	1.86	0.74
1:L:66:SER:O	1:L:69:GLN:HG3	1.88	0.74
1:A:246:LEU:HD23	1:A:246:LEU:H	1.53	0.74
1:B:183:GLY:O	1:B:185:CYS:N	2.21	0.74
1:F:68:LEU:O	1:F:201:VAL:HG13	1.87	0.74
1:G:92:ASN:HD21	1:G:94:ASP:HB2	1.52	0.74
1:H:117:ILE:HD11	1:I:260:LEU:HB3	1.70	0.74
1:H:126:LEU:HB3	1:H:262:ASN:HB3	1.70	0.74
1:I:344:LEU:HD12	1:J:186:PRO:HD2	1.68	0.74
1:K:213:LEU:HD12	1:O:344:LEU:HD13	1.68	0.74
1:K:248:PHE:CZ	1:K:311:TYR:HB3	2.22	0.74
1:K:286:LEU:HD11	1:O:122:LEU:HD11	1.68	0.74
1:O:81:ASN:O	1:O:82:LYS:HG3	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:23:SER:OG	1:A:25:ASP:HB2	1.87	0.73
1:B:78:PRO:HD3	1:B:452:LYS:CA	2.16	0.73
1:B:142:ASP:OD2	1:B:144:ARG:HG3	1.88	0.73
1:B:361:LYS:HA	1:C:266:THR:HG1	1.50	0.73
1:B:472:LEU:HD23	1:G:138:ASN:HD22	1.53	0.73
1:C:214:GLN:OE1	1:C:219:GLU:HB2	1.87	0.73
1:D:154:THR:O	1:D:336:THR:HG23	1.86	0.73
1:F:21:VAL:HB	1:J:461:GLN:NE2	2.01	0.73
1:F:49:TYR:CE2	1:F:118:SER:HA	2.23	0.73
1:F:75:ILE:HB	1:F:329:LEU:HB3	1.69	0.73
1:G:159:ILE:HD12	1:G:248:PHE:CD2	2.22	0.73
1:I:150:ASP:OD1	1:I:296:SER:HA	1.88	0.73
1:L:189:GLU:O	1:L:191:ILE:HG13	1.88	0.73
1:M:67:GLY:C	1:M:68:LEU:HG	2.07	0.73
1:F:250:LEU:HD12	1:F:250:LEU:N	2.03	0.73
1:G:71:ARG:HB3	1:G:73:PHE:CE1	2.23	0.73
1:I:461:GLN:HE22	1:J:21:VAL:HB	1.51	0.73
1:N:345:CYS:SG	1:O:216:ASN:CB	2.76	0.73
1:C:242:TYR:CE2	1:C:394:MET:HB2	2.23	0.73
1:C:353:THR:CG2	1:C:353:THR:HB	2.14	0.73
1:H:130:GLU:HB2	1:H:260:LEU:HD13	1.70	0.73
1:I:23:SER:OG	1:I:25:ASP:HB2	1.88	0.73
1:J:81:ASN:CG	1:J:97:ARG:HH11	1.92	0.73
1:O:171:LYS:HA	1:O:187:PRO:O	1.89	0.73
1:C:30:ARG:HH11	1:C:377:GLN:NE2	1.85	0.73
1:D:99:VAL:HG11	1:D:323:ILE:HG22	1.69	0.73
1:E:213:LEU:CD1	1:E:213:LEU:CB	2.66	0.73
1:F:92:ASN:ND2	1:F:95:THR:OG1	2.18	0.73
1:F:266:THR:HG1	1:J:361:LYS:HA	1.53	0.73
1:F:271:VAL:HG12	1:F:276:TYR:HE2	1.52	0.73
1:G:170:GLY:HA2	1:G:213:LEU:HD21	1.69	0.73
1:N:162:LYS:C	1:N:330:PHE:HD1	1.95	0.73
1:B:325:TRP:NE1	1:B:394:MET:HE1	2.04	0.73
1:C:166:GLY:HA3	1:C:195:ILE:HD11	1.68	0.73
1:C:262:ASN:HD22	1:C:263:ARG:N	1.86	0.73
1:D:65:VAL:HA	1:D:69:GLN:NE2	2.03	0.73
1:E:200:MET:O	1:E:229:CYS:HA	1.88	0.73
1:G:316:ALA:HB3	1:G:321:ASN:OD1	1.87	0.73
1:J:122:LEU:HD13	1:J:144:ARG:NH2	2.04	0.73
1:K:74:ARG:HG3	1:K:330:PHE:HE2	1.54	0.73
1:M:34:TYR:CD2	1:M:377:GLN:HB2	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:153:GLN:NE2	1:N:300:VAL:HA	2.04	0.73
1:N:223:ASP:OD1	1:N:224:ILE:HG23	1.87	0.73
1:O:272:PRO:HD2	1:O:275:LEU:CD1	2.18	0.73
1:O:443:LYS:HD3	1:O:443:LYS:N	2.02	0.73
1:B:344:LEU:N	1:B:344:LEU:HD23	2.04	0.73
1:G:34:TYR:CE2	1:G:377:GLN:HB2	2.23	0.73
1:H:96:GLN:HB3	1:H:382:THR:HG22	1.70	0.73
1:H:247:PHE:HD1	1:H:248:PHE:H	1.35	0.73
1:I:49:TYR:HE2	1:I:118:SER:HA	1.53	0.73
1:K:147:ILE:HA	1:L:129:THR:O	1.88	0.73
1:M:96:GLN:HB3	1:M:382:THR:HG22	1.70	0.73
1:M:162:LYS:C	1:M:330:PHE:HD1	1.95	0.73
1:M:463:PRO:HB3	1:M:466:ARG:HH21	1.54	0.73
1:N:96:GLN:NE2	1:N:382:THR:HG22	2.03	0.73
1:N:276:TYR:C	1:N:277:ILE:HG12	2.14	0.73
1:N:374:PHE:CB	1:N:376:PHE:CE1	2.71	0.73
1:A:97:ARG:HA	1:A:97:ARG:NH1	2.04	0.73
1:C:34:TYR:HE2	1:C:377:GLN:HB2	1.52	0.73
1:C:79:ASP:OD2	1:C:81:ASN:HB2	1.88	0.73
1:D:248:PHE:CZ	1:D:311:TYR:HB3	2.22	0.73
1:D:320:ASN:OD1	1:D:321:ASN:N	2.22	0.73
1:E:272:PRO:HD2	1:E:275:LEU:CD1	2.18	0.73
1:E:325:TRP:CE2	1:E:394:MET:HE1	2.24	0.73
1:J:151:TYR:CG	1:J:203:THR:HB	2.23	0.73
1:L:464:LEU:C	1:L:464:LEU:CD2	2.62	0.73
1:C:255:MET:HG2	1:C:256:PHE:N	1.98	0.73
1:D:30:ARG:NH1	1:D:377:GLN:HE22	1.82	0.73
1:E:57:ASN:HD21	1:E:59:LYS:H	1.34	0.73
1:L:156:LEU:HG	1:L:334:VAL:HB	1.70	0.73
1:A:112:PRO:HB2	1:B:202:ASP:OD2	1.88	0.73
1:B:45:VAL:C	1:B:65:VAL:HG21	2.14	0.73
1:B:165:ILE:O	1:B:165:ILE:HG22	1.87	0.73
1:F:71:ARG:HH11	1:F:71:ARG:CA	2.01	0.73
1:H:176:THR:C	1:H:177:GLN:CG	2.61	0.73
1:I:159:ILE:HD12	1:I:248:PHE:HD2	1.53	0.73
1:I:463:PRO:CA	1:I:466:ARG:HH21	2.01	0.73
1:M:257:VAL:HG12	1:M:293:PRO:HB2	1.71	0.73
1:A:156:LEU:HG	1:A:334:VAL:HB	1.71	0.73
1:B:52:ILE:N	1:B:52:ILE:CD1	2.51	0.73
1:C:188:LEU:HD13	1:C:213:LEU:HD11	1.70	0.73
1:G:274:ASP:OD1	1:G:274:ASP:N	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:395:ASN:O	1:K:398:ILE:HG12	1.88	0.73
1:O:142:ASP:OD2	1:O:144:ARG:HG3	1.88	0.73
1:A:471:GLN:OE1	1:A:472:LEU:N	2.22	0.72
1:E:180:VAL:CG1	1:E:184:ASP:HB2	2.19	0.72
1:F:202:ASP:OD2	1:J:112:PRO:HB2	1.89	0.72
1:G:69:GLN:HA	1:G:199:ASP:O	1.89	0.72
1:K:154:THR:O	1:K:336:THR:HG23	1.89	0.72
1:K:459:LEU:HB3	1:K:465:GLY:HA3	1.71	0.72
1:M:200:MET:O	1:M:229:CYS:HA	1.88	0.72
1:N:75:ILE:HG23	1:N:451:LEU:HD12	1.71	0.72
1:B:121:PRO:HD3	1:B:222:LEU:HD22	1.71	0.72
1:B:237:MET:O	1:B:240:GLU:HB3	1.89	0.72
1:C:60:ILE:CD1	1:C:60:ILE:CB	2.67	0.72
1:F:115:VAL:HG21	1:G:257:VAL:HG13	1.70	0.72
1:I:151:TYR:CG	1:I:203:THR:HB	2.25	0.72
1:J:96:GLN:HA	1:J:381:ILE:O	1.88	0.72
1:M:462:PHE:O	1:M:466:ARG:HG3	1.89	0.72
1:O:66:SER:N	1:O:69:GLN:NE2	2.36	0.72
1:A:54:LYS:HG3	1:A:55:PRO:CD	2.17	0.72
1:B:21:VAL:HG12	1:B:22:VAL:N	2.04	0.72
1:C:464:LEU:C	1:C:464:LEU:CD2	2.62	0.72
1:G:151:TYR:CD2	1:G:203:THR:CB	2.66	0.72
1:H:201:VAL:HG23	1:H:202:ASP:O	1.89	0.72
1:H:372:LEU:HB3	1:H:374:PHE:CE1	2.24	0.72
1:J:101:ALA:O	1:J:376:PHE:HA	1.89	0.72
1:N:325:TRP:CE2	1:N:394:MET:HE1	2.24	0.72
1:F:24:THR:HA	1:F:27:TYR:CE2	2.24	0.72
1:H:42:LEU:HD12	1:H:73:PHE:HE2	1.53	0.72
1:B:113:LEU:HD22	1:C:253:GLU:HG3	1.71	0.72
1:B:344:LEU:CD1	1:C:185:CYS:SG	2.77	0.72
1:E:250:LEU:HD22	1:E:306:ILE:HG23	1.69	0.72
1:F:256:PHE:HB3	1:J:299:MET:HA	1.71	0.72
1:H:23:SER:OG	1:H:25:ASP:HB2	1.88	0.72
1:H:152:LYS:CB	1:H:255:MET:HB2	2.18	0.72
1:I:75:ILE:N	1:I:75:ILE:HD12	2.03	0.72
1:B:208:MET:SD	1:B:210:PHE:HE2	2.13	0.72
1:E:171:LYS:HA	1:E:187:PRO:O	1.88	0.72
1:I:61:LEU:CD1	1:I:61:LEU:HG	2.11	0.72
1:I:369:GLU:CG	1:I:369:GLU:CA	2.66	0.72
1:N:78:PRO:CD	1:N:452:LYS:HA	2.16	0.72
1:O:71:ARG:HA	1:O:71:ARG:HH11	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:72:VAL:HG23	1:C:197:ASP:HA	1.69	0.72
1:C:167:GLU:HB2	1:C:190:LEU:HD11	1.70	0.72
1:F:152:LYS:HB2	1:F:255:MET:HB2	1.71	0.72
1:I:67:GLY:C	1:I:68:LEU:HG	2.11	0.72
1:I:117:ILE:HG13	1:I:149:MET:O	1.89	0.72
1:N:29:ALA:O	1:N:379:CYS:HB3	1.89	0.72
1:A:67:GLY:O	1:A:68:LEU:HG	1.89	0.72
1:B:49:TYR:CE2	1:B:118:SER:HA	2.21	0.72
1:E:157:CYS:HB2	1:E:307:PHE:HE2	1.55	0.72
1:H:274:ASP:OD1	1:H:274:ASP:N	2.23	0.72
1:H:465:GLY:O	1:H:467:LYS:N	2.22	0.72
1:I:75:ILE:HD12	1:I:329:LEU:O	1.89	0.72
1:A:152:LYS:HB2	1:A:255:MET:HB2	1.72	0.72
1:F:117:ILE:CG2	1:F:117:ILE:N	2.52	0.72
1:G:248:PHE:HE2	1:G:311:TYR:CD1	2.07	0.72
1:H:372:LEU:HB3	1:H:374:PHE:HE1	1.55	0.72
1:I:177:GLN:O	1:I:178:VAL:C	2.30	0.72
1:I:200:MET:O	1:I:229:CYS:HA	1.90	0.72
1:L:57:ASN:ND2	1:L:59:LYS:H	1.87	0.72
1:O:152:LYS:CB	1:O:255:MET:HB2	2.15	0.72
1:D:151:TYR:CD2	1:D:203:THR:HB	2.25	0.72
1:F:142:ASP:O	1:G:283:THR:HG21	1.90	0.72
1:F:375:ILE:HG12	1:F:464:LEU:HD13	1.72	0.72
1:I:122:LEU:HD11	1:J:286:LEU:HD11	1.70	0.72
1:K:361:LYS:HA	1:L:266:THR:HG1	1.54	0.72
1:H:74:ARG:HG3	1:H:330:PHE:HE2	1.55	0.71
1:H:166:GLY:H	1:H:195:ILE:HG13	1.54	0.71
1:J:54:LYS:HG3	1:J:55:PRO:CD	2.20	0.71
1:L:344:LEU:CD1	1:M:185:CYS:SG	2.76	0.71
1:M:98:LEU:CD1	1:M:378:LEU:HD21	2.20	0.71
1:N:142:ASP:OD2	1:N:144:ARG:HG3	1.90	0.71
1:G:49:TYR:HA	1:G:223:ASP:HB3	1.71	0.71
1:J:472:LEU:CD2	1:N:138:ASN:HD22	2.02	0.71
1:K:230:LYS:CD	1:K:230:LYS:CB	2.67	0.71
1:L:464:LEU:O	1:L:464:LEU:HD23	1.90	0.71
1:O:463:PRO:HB3	1:O:466:ARG:NH2	2.04	0.71
1:B:70:TYR:OH	1:B:230:LYS:O	2.06	0.71
1:B:121:PRO:HG3	1:C:289:SER:OG	1.90	0.71
1:C:464:LEU:CD1	1:C:464:LEU:CD2	2.68	0.71
1:D:33:ILE:HB	1:D:378:LEU:HB3	1.71	0.71
1:D:188:LEU:CD1	1:D:213:LEU:HD11	2.18	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:300:VAL:HG11	1:E:337:THR:HA	1.70	0.71
1:G:104:GLY:HA3	1:G:375:ILE:HB	1.71	0.71
1:G:463:PRO:HB3	1:G:466:ARG:HH21	1.55	0.71
1:J:162:LYS:C	1:J:330:PHE:HD1	1.97	0.71
1:L:66:SER:H	1:L:69:GLN:HE21	1.38	0.71
1:N:72:VAL:HG22	1:N:332:THR:HG23	1.71	0.71
1:N:92:ASN:HD21	1:N:95:THR:H	1.36	0.71
1:N:109:ARG:NH1	1:N:370:TYR:CE1	2.58	0.71
1:N:219:GLU:C	1:N:220:VAL:HG13	2.16	0.71
1:D:281:GLY:O	1:D:284:ALA:N	2.20	0.71
1:E:220:VAL:O	1:E:221:PRO:C	2.32	0.71
1:G:80:PRO:HG2	1:G:98:LEU:O	1.90	0.71
1:J:99:VAL:HG11	1:J:323:ILE:CG2	2.20	0.71
1:L:66:SER:N	1:L:69:GLN:NE2	2.39	0.71
1:N:459:LEU:HB3	1:N:465:GLY:HA3	1.73	0.71
1:A:34:TYR:HE2	1:A:377:GLN:HG3	1.52	0.71
1:B:33:ILE:HG23	1:B:33:ILE:HD12	1.72	0.71
1:E:383:LEU:HD23	1:E:388:MET:HE3	1.71	0.71
1:E:451:LEU:HD23	1:E:454:LYS:HG3	1.72	0.71
1:H:160:GLY:HA3	1:H:245:SER:O	1.90	0.71
1:J:236:LYS:CG	1:J:236:LYS:CE	2.67	0.71
1:J:255:MET:HG2	1:J:256:PHE:H	1.54	0.71
1:L:152:LYS:NZ	1:L:253:GLU:OE1	2.24	0.71
1:M:166:GLY:CA	1:M:195:ILE:HD11	2.20	0.71
1:N:57:ASN:ND2	1:N:59:LYS:H	1.89	0.71
1:N:262:ASN:HD21	1:N:288:SER:CB	2.01	0.71
1:C:281:GLY:O	1:C:284:ALA:HB3	1.90	0.71
1:E:33:ILE:CD1	1:E:33:ILE:CB	2.68	0.71
1:E:323:ILE:CG2	1:E:323:ILE:CA	2.65	0.71
1:F:213:LEU:HD12	1:J:344:LEU:HD13	1.72	0.71
1:L:110:GLY:C	1:L:111:GLN:HG2	2.14	0.71
1:A:113:LEU:HB2	1:B:253:GLU:OE1	1.90	0.71
1:C:24:THR:CG2	1:C:320:ASN:HA	2.20	0.71
1:C:192:ASN:C	1:C:193:THR:HG22	2.15	0.71
1:C:471:GLN:O	1:C:472:LEU:OXT	2.09	0.71
1:D:160:GLY:HA3	1:D:245:SER:O	1.89	0.71
1:E:220:VAL:O	1:E:221:PRO:O	2.08	0.71
1:E:348:ILE:HG22	1:E:359:ASN:OD1	1.89	0.71
1:F:280:SER:CA	1:F:284:ALA:HB2	2.21	0.71
1:H:75:ILE:HB	1:H:329:LEU:HB3	1.73	0.71
1:K:42:LEU:HD12	1:K:73:PHE:HE2	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:126:LEU:HB3	1:K:262:ASN:HB3	1.72	0.71
1:L:30:ARG:HH11	1:L:377:GLN:NE2	1.88	0.71
1:D:272:PRO:HD2	1:D:275:LEU:CD1	2.21	0.71
1:D:457:ALA:O	1:D:459:LEU:HD23	1.90	0.71
1:F:21:VAL:CG1	1:F:22:VAL:N	2.53	0.71
1:G:348:ILE:HG22	1:G:359:ASN:OD1	1.90	0.71
1:I:101:ALA:HA	1:I:322:GLY:O	1.91	0.71
1:I:398:ILE:HG22	1:I:402:TRP:CZ3	2.25	0.71
1:K:190:LEU:HD12	1:K:191:ILE:H	1.55	0.71
1:N:180:VAL:CG1	1:N:184:ASP:HB2	2.20	0.71
1:O:74:ARG:CG	1:O:330:PHE:HE2	2.04	0.71
1:C:246:LEU:HD23	1:C:246:LEU:H	1.56	0.71
1:C:325:TRP:CE2	1:C:394:MET:HE1	2.24	0.71
1:J:78:PRO:HD2	1:J:455:PHE:CE1	2.25	0.71
1:K:67:GLY:C	1:K:68:LEU:HG	2.16	0.71
1:K:167:GLU:HG2	1:K:231:TYR:O	1.91	0.71
1:M:31:THR:HG23	1:M:379:CYS:HA	1.72	0.71
1:M:137:ALA:CB	1:M:137:ALA:C	2.61	0.71
1:C:163:PRO:HD3	1:C:330:PHE:HE1	1.55	0.71
1:D:99:VAL:HG11	1:D:323:ILE:CG2	2.20	0.71
1:E:75:ILE:HG23	1:E:451:LEU:HD12	1.71	0.71
1:F:188:LEU:HD11	1:F:213:LEU:HD11	1.73	0.71
1:G:391:ILE:HB	1:G:399:LEU:HD21	1.72	0.71
1:J:345:CYS:HB2	1:J:362:GLU:OE2	1.91	0.71
1:K:365:ARG:NH2	1:L:269:GLU:OE1	2.24	0.71
1:L:27:TYR:HH	1:L:390:TYR:HE2	1.39	0.71
1:L:92:ASN:O	1:L:94:ASP:N	2.23	0.71
1:N:242:TYR:CE2	1:N:394:MET:HB2	2.26	0.71
1:O:235:ILE:HG23	1:O:235:ILE:HD12	1.73	0.71
1:O:331:VAL:CG1	1:O:331:VAL:CG2	2.68	0.71
1:B:70:TYR:OH	1:B:232:PRO:HD3	1.91	0.70
1:D:115:VAL:CG1	1:D:115:VAL:HB	2.14	0.70
1:I:246:LEU:HD23	1:I:246:LEU:H	1.54	0.70
1:K:149:MET:HE2	1:K:295:PRO:HD2	1.73	0.70
1:N:92:ASN:ND2	1:N:95:THR:OG1	2.24	0.70
1:N:95:THR:CG2	1:N:95:THR:CA	2.67	0.70
1:N:151:TYR:CD2	1:N:203:THR:CB	2.67	0.70
1:A:178:VAL:CG2	1:A:178:VAL:HB	2.14	0.70
1:B:33:ILE:CD1	1:B:33:ILE:CB	2.68	0.70
1:B:262:ASN:HD21	1:B:288:SER:HB3	1.54	0.70
1:C:299:MET:HA	1:D:256:PHE:HB3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:74:ARG:NH2	1:F:441:LEU:HD12	2.06	0.70
1:G:372:LEU:HB3	1:G:374:PHE:CE1	2.25	0.70
1:K:266:THR:HG22	1:O:358:THR:HG22	1.72	0.70
1:M:156:LEU:HG	1:M:334:VAL:HB	1.74	0.70
1:N:149:MET:CE	1:N:205:PHE:CE1	2.74	0.70
1:C:60:ILE:CG1	1:C:60:ILE:O	2.38	0.70
1:D:325:TRP:HB3	1:D:398:ILE:HD11	1.72	0.70
1:E:75:ILE:HB	1:E:329:LEU:HB3	1.72	0.70
1:F:440:PRO:HA	1:F:443:LYS:HZ2	1.54	0.70
1:K:464:LEU:HD23	1:K:464:LEU:O	1.91	0.70
1:M:147:ILE:HG22	1:M:148:SER:H	1.55	0.70
1:M:307:PHE:O	1:M:308:ASN:HB2	1.89	0.70
1:A:149:MET:HA	1:B:260:LEU:HD21	1.74	0.70
1:A:159:ILE:HD12	1:A:248:PHE:CD2	2.26	0.70
1:B:74:ARG:HG3	1:B:330:PHE:HE2	1.55	0.70
1:D:148:SER:OG	1:E:129:THR:HB	1.92	0.70
1:H:344:LEU:HD13	1:I:213:LEU:CD1	2.20	0.70
1:K:162:LYS:C	1:K:330:PHE:HD1	1.98	0.70
1:L:78:PRO:HD3	1:L:452:LYS:HA	1.74	0.70
1:L:344:LEU:HD12	1:M:186:PRO:CG	2.21	0.70
1:M:323:ILE:CD1	1:M:323:ILE:CB	2.68	0.70
1:N:219:GLU:O	1:N:263:ARG:NH2	2.18	0.70
1:O:46:GLY:CA	1:O:65:VAL:CG2	2.66	0.70
1:O:149:MET:HE3	1:O:294:THR:CG2	2.16	0.70
1:O:235:ILE:CD1	1:O:235:ILE:CB	2.68	0.70
1:A:325:TRP:HB3	1:A:398:ILE:HD12	1.71	0.70
1:E:272:PRO:HD2	1:E:275:LEU:HD11	1.71	0.70
1:F:117:ILE:HG22	1:F:117:ILE:H	1.55	0.70
1:G:237:MET:O	1:G:240:GLU:HB3	1.90	0.70
1:K:144:ARG:HD3	1:O:355:TYR:CD1	2.27	0.70
1:A:54:LYS:CG	1:A:55:PRO:HD2	2.19	0.70
1:A:99:VAL:HG11	1:A:323:ILE:HG23	1.73	0.70
1:C:65:VAL:HA	1:C:69:GLN:HE22	1.56	0.70
1:C:463:PRO:HB3	1:C:466:ARG:HH21	1.56	0.70
1:D:53:LYS:CB	1:D:53:LYS:CD	2.70	0.70
1:D:180:VAL:CG1	1:D:184:ASP:HB2	2.21	0.70
1:G:152:LYS:O	1:G:152:LYS:HG3	1.91	0.70
1:H:260:LEU:N	1:H:260:LEU:CD1	2.53	0.70
1:J:101:ALA:HA	1:J:322:GLY:O	1.90	0.70
1:J:220:VAL:O	1:J:221:PRO:C	2.30	0.70
1:N:348:ILE:HD12	1:O:182:PRO:O	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:24:THR:CG2	1:O:320:ASN:HA	2.20	0.70
1:O:246:LEU:H	1:O:246:LEU:CD2	2.03	0.70
1:A:65:VAL:CA	1:A:69:GLN:NE2	2.55	0.70
1:A:466:ARG:HD2	1:B:317:GLN:O	1.92	0.70
1:C:343:SER:HB3	1:C:364:LEU:HD23	1.74	0.70
1:D:70:TYR:OH	1:D:232:PRO:CD	2.28	0.70
1:D:117:ILE:HG13	1:D:149:MET:O	1.91	0.70
1:D:210:PHE:CE1	1:D:224:ILE:HB	2.27	0.70
1:E:30:ARG:HH11	1:E:377:GLN:HE22	1.37	0.70
1:F:458:ASP:OD2	1:F:458:ASP:N	2.25	0.70
1:J:71:ARG:HH11	1:J:71:ARG:CG	2.03	0.70
1:K:255:MET:HE1	1:O:115:VAL:H	1.56	0.70
1:M:74:ARG:HD3	1:M:448:GLU:OE1	1.92	0.70
1:D:74:ARG:HG3	1:D:330:PHE:CE2	2.27	0.70
1:D:443:LYS:HD3	1:D:443:LYS:N	2.05	0.70
1:F:183:GLY:O	1:F:184:ASP:C	2.35	0.70
1:G:101:ALA:HA	1:G:322:GLY:O	1.92	0.70
1:G:463:PRO:HA	1:G:466:ARG:HE	1.56	0.70
1:H:112:PRO:HB3	1:I:231:TYR:CD1	2.27	0.70
1:J:105:VAL:CG2	1:J:105:VAL:HB	2.13	0.70
1:J:178:VAL:CG1	1:J:178:VAL:CA	2.70	0.70
1:K:162:LYS:CE	1:K:162:LYS:HG2	2.21	0.70
1:N:74:ARG:NH2	1:N:441:LEU:HD12	2.07	0.70
1:N:121:PRO:HG3	1:O:289:SER:HB2	1.74	0.70
1:N:172:GLY:O	1:N:173:SER:C	2.35	0.70
1:O:320:ASN:HD21	1:O:323:ILE:HB	1.57	0.70
1:A:178:VAL:O	1:A:180:VAL:N	2.22	0.70
1:C:60:ILE:CD1	1:C:60:ILE:HG21	2.22	0.70
1:F:320:ASN:OD1	1:F:321:ASN:N	2.24	0.70
1:F:443:LYS:N	1:F:443:LYS:CD	2.55	0.70
1:H:180:VAL:HG13	1:H:184:ASP:HB2	1.74	0.70
1:K:344:LEU:HD11	1:L:185:CYS:SG	2.32	0.70
1:L:364:LEU:HD11	1:M:290:ASN:HA	1.71	0.70
1:F:34:TYR:HE2	1:F:377:GLN:HB2	1.56	0.70
1:H:344:LEU:HB3	1:I:213:LEU:HD12	1.74	0.70
1:I:74:ARG:CG	1:I:330:PHE:HE2	2.05	0.70
1:L:66:SER:N	1:L:69:GLN:HE21	1.90	0.70
1:O:463:PRO:CB	1:O:466:ARG:HH21	2.05	0.70
1:B:154:THR:O	1:B:336:THR:HG23	1.92	0.69
1:E:188:LEU:HD11	1:E:213:LEU:HD11	1.73	0.69
1:E:470:LEU:HD23	1:E:470:LEU:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:196:GLN:O	1:G:199:ASP:OD2	2.09	0.69
1:M:77:LEU:HD22	1:M:455:PHE:HZ	1.56	0.69
1:N:21:VAL:HG12	1:N:390:TYR:OH	1.90	0.69
1:N:365:ARG:CG	1:N:365:ARG:HH11	2.05	0.69
1:O:317:GLN:HE21	1:O:317:GLN:C	2.00	0.69
1:C:167:GLU:CG	1:C:231:TYR:O	2.39	0.69
1:D:154:THR:H	1:D:336:THR:CG2	2.05	0.69
1:E:193:THR:CG2	1:E:230:LYS:HD2	2.20	0.69
1:F:443:LYS:H	1:F:443:LYS:CD	1.97	0.69
1:I:241:PRO:HG2	1:I:242:TYR:H	1.58	0.69
1:I:361:LYS:NZ	1:I:361:LYS:CD	2.54	0.69
1:J:75:ILE:HB	1:J:329:LEU:HB3	1.75	0.69
1:J:75:ILE:HG23	1:J:451:LEU:HD12	1.74	0.69
1:N:390:TYR:C	1:N:392:HIS:N	2.50	0.69
1:O:273:ASP:OD2	1:O:273:ASP:N	2.24	0.69
1:C:307:PHE:O	1:C:308:ASN:HB2	1.93	0.69
1:E:152:LYS:NZ	1:E:253:GLU:OE1	2.25	0.69
1:H:188:LEU:CD1	1:H:213:LEU:HD11	2.22	0.69
1:J:383:LEU:CD2	1:J:388:MET:HE3	2.21	0.69
1:K:190:LEU:HD12	1:K:191:ILE:N	2.07	0.69
1:O:34:TYR:CE2	1:O:377:GLN:HB2	2.28	0.69
1:O:459:LEU:HB3	1:O:465:GLY:HA3	1.74	0.69
1:B:375:ILE:HG21	1:B:468:PHE:CD2	2.27	0.69
1:F:66:SER:O	1:F:69:GLN:HG3	1.93	0.69
1:F:129:THR:O	1:J:147:ILE:HA	1.92	0.69
1:F:151:TYR:CG	1:F:203:THR:HB	2.26	0.69
1:G:320:ASN:HD21	1:G:323:ILE:CB	1.98	0.69
1:G:457:ALA:O	1:G:459:LEU:HD23	1.93	0.69
1:G:463:PRO:CG	1:G:464:LEU:N	2.55	0.69
1:H:307:PHE:C	1:H:309:LYS:H	1.99	0.69
1:A:178:VAL:CG1	1:A:178:VAL:CA	2.69	0.69
1:A:286:LEU:HD12	1:E:122:LEU:CD2	2.18	0.69
1:F:34:TYR:CE2	1:F:377:GLN:HB2	2.27	0.69
1:F:95:THR:O	1:F:383:LEU:HB2	1.92	0.69
1:G:49:TYR:O	1:G:223:ASP:HA	1.92	0.69
1:H:399:LEU:HA	1:H:402:TRP:HE3	1.57	0.69
1:J:300:VAL:CG1	1:J:300:VAL:CG2	2.69	0.69
1:N:65:VAL:HA	1:N:69:GLN:NE2	2.07	0.69
1:O:66:SER:N	1:O:69:GLN:HE21	1.91	0.69
1:O:75:ILE:CG2	1:O:451:LEU:HD12	2.22	0.69
1:D:141:VAL:HG12	1:D:142:ASP:N	1.96	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:21:VAL:HG13	1:H:390:TYR:OH	1.93	0.69
1:I:152:LYS:HG3	1:I:152:LYS:O	1.93	0.69
1:N:164:PRO:HG3	1:N:332:THR:CG2	2.23	0.69
1:N:344:LEU:CD1	1:O:185:CYS:SG	2.80	0.69
1:C:363:TYR:CE2	1:D:269:GLU:HG3	2.28	0.69
1:F:280:SER:C	1:F:284:ALA:HB2	2.18	0.69
1:G:66:SER:H	1:G:69:GLN:NE2	1.90	0.69
1:H:36:HIS:C	1:H:36:HIS:ND1	2.50	0.69
1:H:451:LEU:HA	1:H:454:LYS:HG3	1.75	0.69
1:I:272:PRO:HD2	1:I:275:LEU:HD12	1.75	0.69
1:J:34:TYR:CE2	1:J:377:GLN:HB2	2.27	0.69
1:J:49:TYR:HE2	1:J:118:SER:HA	1.58	0.69
1:K:79:ASP:OD2	1:K:81:ASN:HB2	1.93	0.69
1:N:345:CYS:HA	1:N:361:LYS:O	1.93	0.69
1:A:115:VAL:H	1:B:255:MET:CE	2.02	0.69
1:A:180:VAL:HG12	1:A:184:ASP:CB	2.13	0.69
1:B:80:PRO:C	1:B:82:LYS:H	2.01	0.69
1:B:463:PRO:HG2	1:B:464:LEU:H	1.56	0.69
1:C:69:GLN:HA	1:C:199:ASP:O	1.91	0.69
1:D:34:TYR:HE2	1:D:377:GLN:CG	2.04	0.69
1:D:188:LEU:HD11	1:D:213:LEU:HD11	1.74	0.69
1:E:151:TYR:OH	1:E:221:PRO:HB2	1.93	0.69
1:E:152:LYS:CE	1:E:152:LYS:CG	2.67	0.69
1:H:345:CYS:SG	1:I:216:ASN:CB	2.79	0.69
1:J:451:LEU:HD23	1:J:454:LYS:HG3	1.75	0.69
1:K:105:VAL:HG12	1:K:106:GLU:N	2.01	0.69
1:K:344:LEU:CD1	1:L:186:PRO:HD2	2.23	0.69
1:L:242:TYR:CD2	1:L:394:MET:HG3	2.27	0.69
1:M:80:PRO:HD3	1:M:100:TRP:CD1	2.27	0.69
1:O:166:GLY:HA3	1:O:195:ILE:HD11	1.74	0.69
1:A:52:ILE:HB	1:A:62:VAL:HB	1.75	0.69
1:A:440:PRO:O	1:A:443:LYS:NZ	2.26	0.69
1:B:65:VAL:HA	1:B:69:GLN:HE22	1.57	0.69
1:B:139:ALA:O	1:B:140:GLY:O	2.11	0.69
1:C:237:MET:O	1:C:240:GLU:HB3	1.93	0.69
1:E:116:GLY:N	1:E:339:SER:OG	2.26	0.69
1:F:181:GLN:HE22	1:J:348:ILE:HD11	1.58	0.69
1:F:395:ASN:O	1:F:398:ILE:HG12	1.93	0.69
1:J:78:PRO:HD3	1:J:452:LYS:HA	1.74	0.69
1:K:81:ASN:ND2	1:K:402:TRP:CD1	2.61	0.69
1:K:182:PRO:O	1:O:348:ILE:HD12	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:357:ASN:H	1:N:141:VAL:HG13	1.56	0.69
1:O:205:PHE:CD1	1:O:220:VAL:HG12	2.28	0.69
1:D:176:THR:C	1:D:177:GLN:HG3	2.15	0.69
1:G:250:LEU:HD12	1:G:250:LEU:N	2.08	0.69
1:H:54:LYS:O	1:H:57:ASN:O	2.11	0.69
1:K:143:ASN:O	1:K:144:ARG:O	2.10	0.69
1:B:468:PHE:CD1	1:B:468:PHE:O	2.46	0.68
1:C:23:SER:OG	1:C:25:ASP:HB2	1.93	0.68
1:C:217:LYS:CE	1:C:217:LYS:CG	2.72	0.68
1:D:82:LYS:NZ	1:D:403:ASN:HD22	1.92	0.68
1:E:180:VAL:HG12	1:E:184:ASP:HB2	1.75	0.68
1:E:312:TRP:CH2	1:E:468:PHE:HB2	2.28	0.68
1:F:348:ILE:HD11	1:G:181:GLN:HE22	1.58	0.68
1:F:372:LEU:HB3	1:F:374:PHE:CE1	2.27	0.68
1:G:24:THR:HG23	1:G:320:ASN:HA	1.73	0.68
1:H:279:GLY:HA3	1:H:283:THR:O	1.91	0.68
1:H:451:LEU:O	1:H:454:LYS:HB2	1.93	0.68
1:L:52:ILE:HB	1:L:62:VAL:HB	1.75	0.68
1:L:378:LEU:HD12	1:L:379:CYS:H	1.57	0.68
1:B:30:ARG:HH11	1:B:377:GLN:NE2	1.91	0.68
1:D:37:ALA:HB1	1:D:451:LEU:HD13	1.75	0.68
1:D:120:HIS:HE2	1:D:218:SER:HB3	1.57	0.68
1:E:66:SER:H	1:E:69:GLN:NE2	1.91	0.68
1:H:54:LYS:NZ	1:H:54:LYS:HA	2.09	0.68
1:J:54:LYS:HA	1:J:54:LYS:NZ	2.08	0.68
1:K:452:LYS:CG	1:K:452:LYS:CE	2.71	0.68
1:N:120:HIS:HA	1:N:222:LEU:HD13	1.76	0.68
1:E:49:TYR:HE2	1:E:118:SER:HA	1.58	0.68
1:F:66:SER:H	1:F:69:GLN:NE2	1.92	0.68
1:F:442:LYS:HB3	1:F:443:LYS:HD3	1.75	0.68
1:G:216:ASN:OD1	1:G:218:SER:C	2.37	0.68
1:G:237:MET:HB3	1:G:246:LEU:HD22	1.75	0.68
1:H:247:PHE:HD1	1:H:248:PHE:N	1.92	0.68
1:I:30:ARG:HH11	1:I:377:GLN:NE2	1.90	0.68
1:I:66:SER:O	1:I:69:GLN:HG3	1.93	0.68
1:M:115:VAL:HG22	1:N:255:MET:SD	2.34	0.68
1:M:250:LEU:N	1:M:250:LEU:HD12	2.06	0.68
1:O:64:LYS:NZ	1:O:200:MET:HE2	2.08	0.68
1:O:163:PRO:N	1:O:330:PHE:HD1	1.91	0.68
1:B:107:VAL:O	1:B:107:VAL:HG12	1.94	0.68
1:B:115:VAL:H	1:C:255:MET:HE1	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:461:GLN:HE22	1:C:21:VAL:HB	1.56	0.68
1:D:262:ASN:ND2	1:D:288:SER:HB3	2.08	0.68
1:D:465:GLY:O	1:D:468:PHE:N	2.26	0.68
1:F:383:LEU:CD2	1:F:383:LEU:CD1	2.70	0.68
1:J:98:LEU:HD22	1:J:378:LEU:HD11	0.89	0.68
1:K:242:TYR:CE2	1:K:394:MET:HG3	2.29	0.68
1:B:252:ARG:HD2	1:B:306:ILE:HD11	1.74	0.68
1:C:54:LYS:HZ2	1:C:55:PRO:HD2	1.57	0.68
1:D:66:SER:H	1:D:69:GLN:HE21	1.39	0.68
1:G:316:ALA:CB	1:G:321:ASN:OD1	2.41	0.68
1:N:262:ASN:HD22	1:N:263:ARG:N	1.91	0.68
1:A:21:VAL:HG12	1:A:22:VAL:N	2.07	0.68
1:F:57:ASN:HD21	1:F:59:LYS:CB	2.06	0.68
1:F:75:ILE:HG23	1:F:451:LEU:HD12	1.76	0.68
1:F:115:VAL:CG2	1:G:257:VAL:HG13	2.23	0.68
1:F:353:THR:CG2	1:F:353:THR:HB	2.12	0.68
1:J:74:ARG:CD	1:J:74:ARG:CB	2.71	0.68
1:K:185:CYS:SG	1:O:344:LEU:HD11	2.33	0.68
1:K:237:MET:HE3	1:K:246:LEU:HD13	1.75	0.68
1:N:91:TYR:C	1:N:91:TYR:CD2	2.69	0.68
1:O:29:ALA:HB3	1:O:380:LYS:HG3	1.73	0.68
1:O:77:LEU:HD22	1:O:455:PHE:HZ	1.59	0.68
1:A:97:ARG:HG3	1:A:383:LEU:HD11	1.74	0.68
1:B:151:TYR:CD2	1:B:203:THR:HB	2.29	0.68
1:B:463:PRO:HA	1:B:466:ARG:HE	1.58	0.68
1:C:151:TYR:OH	1:C:221:PRO:HB2	1.94	0.68
1:E:46:GLY:HA3	1:E:65:VAL:CG2	2.22	0.68
1:E:302:SER:O	1:E:304:ALA:N	2.27	0.68
1:J:65:VAL:HA	1:J:69:GLN:HE22	1.59	0.68
1:K:52:ILE:HG12	1:L:269:GLU:CD	2.19	0.68
1:K:202:ASP:OD2	1:O:112:PRO:CB	2.41	0.68
1:L:74:ARG:HG3	1:L:330:PHE:HE2	1.56	0.68
1:L:117:ILE:HD11	1:M:260:LEU:HB3	1.74	0.68
1:N:49:TYR:HE2	1:N:118:SER:HA	1.58	0.68
1:O:116:GLY:N	1:O:339:SER:OG	2.23	0.68
1:O:120:HIS:NE2	1:O:218:SER:HB3	2.09	0.68
1:A:115:VAL:N	1:B:255:MET:HE1	2.03	0.68
1:A:122:LEU:HD11	1:B:286:LEU:CD1	2.23	0.68
1:B:305:GLN:HE22	1:B:337:THR:HG21	1.58	0.68
1:C:149:MET:HE3	1:C:294:THR:HG22	1.74	0.68
1:D:246:LEU:CD2	1:D:246:LEU:N	2.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:152:LYS:CB	1:G:255:MET:HB2	2.24	0.68
1:H:162:LYS:C	1:H:330:PHE:HD1	2.02	0.68
1:I:96:GLN:HB3	1:I:382:THR:HG22	1.73	0.68
1:J:196:GLN:O	1:J:199:ASP:OD2	2.11	0.68
1:K:96:GLN:HA	1:K:381:ILE:O	1.94	0.68
1:K:219:GLU:O	1:K:220:VAL:HG13	1.94	0.68
1:L:24:THR:HG23	1:L:320:ASN:HA	1.76	0.68
1:M:220:VAL:O	1:M:221:PRO:C	2.35	0.68
1:B:57:ASN:HD21	1:B:59:LYS:CB	2.07	0.68
1:B:163:PRO:HD3	1:B:330:PHE:CE1	2.25	0.68
1:D:80:PRO:C	1:D:82:LYS:H	1.98	0.68
1:E:271:VAL:HG13	1:E:275:LEU:HD12	1.76	0.68
1:G:337:THR:CG2	1:G:337:THR:CA	2.67	0.68
1:I:78:PRO:HD2	1:I:455:PHE:CE1	2.29	0.68
1:J:83:PHE:HB3	1:J:85:PHE:CE1	2.28	0.68
1:J:152:LYS:O	1:J:152:LYS:CG	2.42	0.68
1:K:237:MET:O	1:K:240:GLU:HB3	1.94	0.68
1:N:293:PRO:O	1:N:293:PRO:HG2	1.93	0.68
1:A:68:LEU:O	1:A:201:VAL:HG22	1.94	0.68
1:H:54:LYS:NZ	1:H:55:PRO:HD2	2.08	0.68
1:M:262:ASN:C	1:M:262:ASN:ND2	2.51	0.68
1:M:441:LEU:CD2	1:M:441:LEU:HG	2.12	0.68
1:B:160:GLY:HA3	1:B:245:SER:O	1.93	0.67
1:E:219:GLU:O	1:E:263:ARG:NH2	2.20	0.67
1:G:71:ARG:HA	1:G:71:ARG:HH11	1.58	0.67
1:L:92:ASN:C	1:L:94:ASP:H	2.02	0.67
1:L:159:ILE:HG22	1:L:247:PHE:HE1	1.57	0.67
1:L:363:TYR:CD2	1:M:185:CYS:HB2	2.29	0.67
1:M:52:ILE:N	1:M:52:ILE:CD1	2.57	0.67
1:M:383:LEU:HD22	1:M:388:MET:HE3	1.74	0.67
1:C:54:LYS:NZ	1:C:54:LYS:HA	2.09	0.67
1:C:70:TYR:HE1	1:C:201:VAL:HA	1.59	0.67
1:D:113:LEU:HD22	1:E:253:GLU:HG3	1.76	0.67
1:D:120:HIS:HA	1:D:222:LEU:HD13	1.77	0.67
1:E:98:LEU:CD1	1:E:378:LEU:HD11	2.12	0.67
1:E:117:ILE:CD1	1:E:117:ILE:CB	2.73	0.67
1:F:176:THR:C	1:F:177:GLN:HG3	2.19	0.67
1:H:373:GLN:HB2	1:H:464:LEU:HD12	1.74	0.67
1:I:75:ILE:CG2	1:I:451:LEU:CD1	2.72	0.67
1:L:115:VAL:H	1:M:255:MET:HE1	1.58	0.67
1:M:348:ILE:HD12	1:N:182:PRO:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:46:GLY:HA3	1:N:63:PRO:O	1.94	0.67
1:A:36:HIS:ND1	1:A:37:ALA:N	2.42	0.67
1:A:70:TYR:OH	1:A:232:PRO:HD3	1.94	0.67
1:A:223:ASP:OD1	1:A:224:ILE:N	2.28	0.67
1:F:60:ILE:HG13	1:F:60:ILE:O	1.93	0.67
1:F:92:ASN:O	1:F:94:ASP:N	2.27	0.67
1:G:112:PRO:HD3	1:H:231:TYR:CG	2.29	0.67
1:G:358:THR:HA	1:H:266:THR:CG2	2.24	0.67
1:H:152:LYS:NZ	1:H:152:LYS:CD	2.57	0.67
1:J:242:TYR:CE2	1:J:394:MET:CG	2.77	0.67
1:L:98:LEU:HD13	1:L:378:LEU:HD11	1.75	0.67
1:M:395:ASN:O	1:M:398:ILE:HG12	1.95	0.67
1:N:115:VAL:HG22	1:O:255:MET:SD	2.34	0.67
1:N:356:LYS:NZ	1:N:356:LYS:CD	2.57	0.67
1:O:45:VAL:C	1:O:65:VAL:HG21	2.19	0.67
1:A:213:LEU:HD12	1:E:344:LEU:HD13	1.75	0.67
1:G:129:THR:HG21	1:G:291:TYR:HD2	1.59	0.67
1:H:262:ASN:HD21	1:H:288:SER:CB	2.07	0.67
1:H:342:MET:CB	1:I:208:MET:HE1	2.21	0.67
1:I:36:HIS:ND1	1:I:37:ALA:N	2.42	0.67
1:I:123:LEU:CD2	1:I:147:ILE:HB	2.22	0.67
1:M:204:GLY:HA3	1:M:295:PRO:HG3	1.75	0.67
1:N:24:THR:CG2	1:N:320:ASN:HA	2.24	0.67
1:O:246:LEU:HD23	1:O:246:LEU:N	2.03	0.67
1:A:216:ASN:HB2	1:E:345:CYS:SG	2.34	0.67
1:A:280:SER:N	1:A:284:ALA:HB2	2.10	0.67
1:A:300:VAL:O	1:A:300:VAL:HG23	1.94	0.67
1:C:323:ILE:HG21	1:C:325:TRP:CZ2	2.30	0.67
1:C:451:LEU:HD23	1:C:454:LYS:CG	2.14	0.67
1:C:463:PRO:HA	1:C:466:ARG:HE	1.59	0.67
1:D:97:ARG:HH11	1:D:97:ARG:HA	1.59	0.67
1:D:255:MET:HG2	1:D:256:PHE:H	1.57	0.67
1:I:179:ALA:CB	1:I:179:ALA:C	2.67	0.67
1:K:363:TYR:CD1	1:L:185:CYS:HB2	2.30	0.67
1:L:180:VAL:CG1	1:L:184:ASP:CB	2.64	0.67
1:M:188:LEU:HD11	1:M:213:LEU:HD11	1.76	0.67
1:O:139:ALA:O	1:O:140:GLY:O	2.13	0.67
1:G:180:VAL:CG1	1:G:184:ASP:HB3	2.22	0.67
1:H:54:LYS:HG2	1:H:57:ASN:HB3	1.75	0.67
1:H:68:LEU:HD23	1:H:201:VAL:CG2	2.24	0.67
1:I:369:GLU:OE1	1:J:190:LEU:HD21	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:247:PHE:HD1	1:L:248:PHE:H	1.41	0.67
1:M:163:PRO:HD3	1:M:330:PHE:HE1	1.60	0.67
1:N:220:VAL:O	1:N:221:PRO:C	2.37	0.67
1:A:57:ASN:ND2	1:A:59:LYS:H	1.93	0.67
1:A:135:TYR:CE2	1:A:287:ALA:HB2	2.21	0.67
1:B:472:LEU:CD2	1:G:138:ASN:HD22	2.07	0.67
1:C:220:VAL:O	1:C:221:PRO:O	2.13	0.67
1:C:464:LEU:C	1:C:464:LEU:HD22	2.20	0.67
1:G:163:PRO:N	1:G:330:PHE:HD1	1.93	0.67
1:G:219:GLU:HB3	1:G:263:ARG:CZ	2.24	0.67
1:L:249:TYR:CG	1:L:249:TYR:O	2.47	0.67
1:B:82:LYS:CG	1:B:82:LYS:CA	2.69	0.67
1:D:121:PRO:HG2	1:E:289:SER:HB2	1.77	0.67
1:F:467:LYS:CE	1:F:467:LYS:CG	2.72	0.67
1:I:30:ARG:HH11	1:I:377:GLN:HE22	1.40	0.67
1:I:34:TYR:HE2	1:I:377:GLN:HB2	1.58	0.67
1:I:302:SER:O	1:I:304:ALA:N	2.28	0.67
1:K:142:ASP:OD1	1:L:283:THR:OG1	2.11	0.67
1:N:122:LEU:O	1:N:218:SER:HB2	1.95	0.67
1:N:178:VAL:O	1:N:180:VAL:N	2.25	0.67
1:A:92:ASN:HD21	1:A:94:ASP:HB2	1.59	0.67
1:E:78:PRO:HB3	1:E:452:LYS:HG2	1.77	0.67
1:E:391:ILE:HG21	1:E:402:TRP:CZ3	2.30	0.67
1:F:21:VAL:HG13	1:F:390:TYR:OH	1.95	0.67
1:I:36:HIS:ND1	1:I:36:HIS:C	2.52	0.67
1:I:120:HIS:HA	1:I:222:LEU:HD13	1.77	0.67
1:M:462:PHE:HB3	1:M:463:PRO:HD2	1.75	0.67
1:N:142:ASP:O	1:O:283:THR:HG21	1.95	0.67
1:N:255:MET:HG2	1:N:256:PHE:N	2.10	0.67
1:O:450:ASN:HD21	1:O:452:LYS:HD2	1.59	0.67
1:A:30:ARG:HH11	1:A:377:GLN:NE2	1.91	0.67
1:D:123:LEU:CD2	1:D:123:LEU:CD1	2.70	0.67
1:F:246:LEU:CD2	1:F:246:LEU:N	2.57	0.67
1:H:112:PRO:HB3	1:I:231:TYR:CG	2.30	0.67
1:K:41:ARG:NH2	1:L:192:ASN:HD21	1.90	0.67
1:K:42:LEU:CD1	1:K:73:PHE:HE2	2.07	0.67
1:K:97:ARG:HA	1:K:97:ARG:HH11	1.59	0.67
1:L:139:ALA:HB1	1:L:143:ASN:OD1	1.95	0.67
1:M:57:ASN:ND2	1:M:59:LYS:H	1.94	0.67
1:M:151:TYR:OH	1:M:221:PRO:HB2	1.94	0.67
1:N:363:TYR:CG	1:O:185:CYS:HB2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:257:VAL:HG12	1:A:293:PRO:HB2	1.76	0.66
1:B:77:LEU:HD22	1:B:455:PHE:CE1	2.29	0.66
1:C:178:VAL:CG1	1:C:178:VAL:HB	2.16	0.66
1:D:52:ILE:N	1:D:52:ILE:CD1	2.57	0.66
1:E:152:LYS:HE2	1:E:202:ASP:HB3	1.77	0.66
1:H:24:THR:HG21	1:H:320:ASN:HA	1.76	0.66
1:I:70:TYR:HE1	1:I:201:VAL:HA	1.59	0.66
1:J:96:GLN:HB3	1:J:382:THR:CG2	2.24	0.66
1:J:462:PHE:HB3	1:J:463:PRO:HD2	1.75	0.66
1:K:180:VAL:HG13	1:K:184:ASP:CB	2.25	0.66
1:L:194:VAL:HG21	1:L:444:TYR:CE2	2.29	0.66
1:N:375:ILE:HG12	1:N:464:LEU:HD13	1.77	0.66
1:O:30:ARG:HH11	1:O:377:GLN:NE2	1.93	0.66
1:A:122:LEU:HD13	1:A:144:ARG:NH2	2.09	0.66
1:B:103:VAL:HG23	1:B:104:GLY:N	2.09	0.66
1:C:77:LEU:HD22	1:C:455:PHE:HZ	1.61	0.66
1:C:113:LEU:HD12	1:C:113:LEU:N	2.08	0.66
1:E:266:THR:O	1:E:267:VAL:C	2.36	0.66
1:F:109:ARG:NH1	1:F:370:TYR:CE1	2.63	0.66
1:G:280:SER:N	1:G:284:ALA:HB2	2.10	0.66
1:G:450:ASN:HD21	1:G:452:LYS:HD2	1.60	0.66
1:H:308:ASN:HD22	1:I:251:ARG:HH22	1.42	0.66
1:I:111:GLN:HG2	1:I:369:GLU:CB	2.26	0.66
1:J:320:ASN:HD21	1:J:323:ILE:HB	1.60	0.66
1:K:159:ILE:HD12	1:K:248:PHE:CD2	2.30	0.66
1:L:375:ILE:HG21	1:L:468:PHE:CD2	2.31	0.66
1:M:344:LEU:HD11	1:N:188:LEU:HD21	1.77	0.66
1:M:375:ILE:HG12	1:M:464:LEU:HD13	1.76	0.66
1:N:68:LEU:HB3	1:N:201:VAL:CG2	2.25	0.66
1:O:166:GLY:CA	1:O:195:ILE:HD11	2.24	0.66
1:O:367:GLY:O	1:O:368:GLU:HG2	1.94	0.66
1:B:110:GLY:C	1:B:111:GLN:HG2	2.20	0.66
1:D:21:VAL:CG1	1:D:390:TYR:OH	2.43	0.66
1:F:114:GLY:HA3	1:F:340:THR:OG1	1.95	0.66
1:H:178:VAL:CG1	1:H:178:VAL:CA	2.71	0.66
1:J:70:TYR:OH	1:J:232:PRO:HD3	1.96	0.66
1:L:241:PRO:CG	1:L:242:TYR:H	2.07	0.66
1:M:172:GLY:O	1:M:173:SER:C	2.38	0.66
1:O:77:LEU:HD22	1:O:455:PHE:CZ	2.31	0.66
1:A:46:GLY:HA3	1:A:63:PRO:O	1.96	0.66
1:A:237:MET:HB3	1:A:246:LEU:CD2	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:109:ARG:N	1:C:308:ASN:OD1	2.28	0.66
1:F:98:LEU:HD13	1:F:378:LEU:HD11	1.76	0.66
1:G:463:PRO:N	1:G:466:ARG:HH21	1.92	0.66
1:H:36:HIS:ND1	1:H:37:ALA:N	2.43	0.66
1:K:81:ASN:HD21	1:K:402:TRP:CD1	2.12	0.66
1:L:344:LEU:HD12	1:M:186:PRO:CD	2.24	0.66
1:L:383:LEU:CD2	1:L:388:MET:HE3	2.26	0.66
1:N:391:ILE:O	1:N:391:ILE:HG22	1.96	0.66
1:O:81:ASN:OD1	1:O:97:ARG:NH1	2.28	0.66
1:B:345:CYS:SG	1:C:216:ASN:CB	2.82	0.66
1:C:205:PHE:CD1	1:C:220:VAL:HG12	2.30	0.66
1:D:252:ARG:CD	1:D:306:ILE:HD11	2.20	0.66
1:F:115:VAL:H	1:G:255:MET:HE1	1.59	0.66
1:G:42:LEU:HD13	1:G:447:TRP:CE2	2.30	0.66
1:H:54:LYS:HZ2	1:H:55:PRO:CD	2.08	0.66
1:K:299:MET:HA	1:L:256:PHE:HB3	1.76	0.66
1:L:151:TYR:OH	1:L:221:PRO:HB2	1.96	0.66
1:M:77:LEU:HD22	1:M:455:PHE:CZ	2.31	0.66
1:M:237:MET:HB3	1:M:246:LEU:CD2	2.26	0.66
1:A:97:ARG:HH11	1:A:97:ARG:CA	2.07	0.66
1:A:300:VAL:CG1	1:A:300:VAL:CG2	2.70	0.66
1:B:363:TYR:CD1	1:C:185:CYS:HB2	2.31	0.66
1:C:374:PHE:N	1:C:374:PHE:CD1	2.63	0.66
1:H:68:LEU:HD23	1:H:201:VAL:HG21	1.77	0.66
1:A:75:ILE:HB	1:A:329:LEU:CB	2.25	0.66
1:B:72:VAL:HG13	1:B:332:THR:HG23	1.76	0.66
1:B:320:ASN:OD1	1:B:321:ASN:N	2.29	0.66
1:C:178:VAL:CG1	1:C:178:VAL:CA	2.73	0.66
1:H:464:LEU:HD23	1:H:464:LEU:O	1.95	0.66
1:I:208:MET:CG	1:I:210:PHE:CE2	2.79	0.66
1:J:67:GLY:C	1:J:68:LEU:HG	2.19	0.66
1:K:228:ILE:N	1:K:228:ILE:CD1	2.58	0.66
1:L:355:TYR:CD1	1:M:144:ARG:HD3	2.30	0.66
1:O:54:LYS:HG2	1:O:57:ASN:HB3	1.77	0.66
1:C:158:LEU:HD13	1:C:237:MET:HE1	1.76	0.66
1:D:400:GLU:O	1:D:402:TRP:N	2.28	0.66
1:G:358:THR:HA	1:H:266:THR:HG23	1.77	0.66
1:H:33:ILE:HB	1:H:378:LEU:HB3	1.78	0.66
1:H:115:VAL:H	1:I:255:MET:CE	2.07	0.66
1:I:363:TYR:CD1	1:J:185:CYS:HB2	2.30	0.66
1:A:213:LEU:CD1	1:E:344:LEU:HD13	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:219:GLU:C	1:B:220:VAL:HG13	2.21	0.66
1:D:440:PRO:HA	1:D:443:LYS:NZ	2.10	0.66
1:F:145:GLU:OE1	1:G:134:ALA:CA	2.44	0.66
1:G:147:ILE:HA	1:H:129:THR:O	1.96	0.66
1:I:70:TYR:CD2	1:I:195:ILE:HG21	2.31	0.66
1:I:152:LYS:HB3	1:I:255:MET:HB2	1.77	0.66
1:I:277:ILE:CD1	1:I:277:ILE:CB	2.74	0.66
1:I:320:ASN:OD1	1:I:322:GLY:N	2.23	0.66
1:K:219:GLU:HB3	1:K:263:ARG:CZ	2.25	0.66
1:L:77:LEU:HD22	1:L:455:PHE:HZ	1.61	0.66
1:L:227:SER:C	1:L:228:ILE:HD12	2.20	0.66
1:M:54:LYS:HB3	1:M:57:ASN:HD22	1.60	0.66
1:M:466:ARG:HD2	1:N:317:GLN:O	1.96	0.66
1:N:246:LEU:O	1:N:246:LEU:HD23	1.95	0.66
1:A:302:SER:O	1:A:304:ALA:N	2.29	0.66
1:J:444:TYR:HB3	1:J:446:PHE:CZ	2.31	0.66
1:K:122:LEU:HD11	1:L:286:LEU:HD11	1.77	0.66
1:K:219:GLU:C	1:K:220:VAL:HG13	2.21	0.66
1:B:383:LEU:CD2	1:B:388:MET:HE3	2.26	0.65
1:G:188:LEU:HD13	1:G:213:LEU:HD11	1.75	0.65
1:J:188:LEU:HD11	1:J:213:LEU:HD11	1.77	0.65
1:K:383:LEU:HD23	1:K:388:MET:CE	2.26	0.65
1:L:115:VAL:HG22	1:M:255:MET:SD	2.37	0.65
1:M:147:ILE:CD1	1:M:147:ILE:CB	2.74	0.65
1:M:255:MET:CG	1:M:256:PHE:N	2.58	0.65
1:N:344:LEU:HD12	1:O:185:CYS:SG	2.35	0.65
1:B:123:LEU:HD23	1:B:147:ILE:HB	1.77	0.65
1:B:361:LYS:HD2	1:C:183:GLY:HA3	1.77	0.65
1:F:71:ARG:HA	1:F:71:ARG:NH1	2.03	0.65
1:F:325:TRP:CE2	1:F:394:MET:HE1	2.31	0.65
1:F:459:LEU:HB3	1:F:465:GLY:HA3	1.78	0.65
1:G:33:ILE:HB	1:G:378:LEU:HB3	1.78	0.65
1:G:118:SER:HB2	1:G:151:TYR:CE1	2.32	0.65
1:G:305:GLN:HE22	1:G:337:THR:HG21	1.61	0.65
1:H:463:PRO:HA	1:H:466:ARG:HE	1.61	0.65
1:J:323:ILE:HG21	1:J:325:TRP:CZ2	2.30	0.65
1:K:344:LEU:CB	1:L:213:LEU:HD12	2.25	0.65
1:B:54:LYS:CE	1:B:55:PRO:HD2	2.17	0.65
1:B:75:ILE:CG2	1:B:451:LEU:HD12	2.26	0.65
1:C:79:ASP:HA	1:C:327:ASN:ND2	2.11	0.65
1:D:31:THR:CG2	1:D:378:LEU:O	2.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:216:ASN:CB	1:J:345:CYS:SG	2.85	0.65
1:G:260:LEU:HD12	1:G:260:LEU:N	2.11	0.65
1:H:172:GLY:O	1:H:173:SER:C	2.40	0.65
1:I:322:GLY:C	1:I:323:ILE:HD13	2.21	0.65
1:L:124:ASN:OD1	1:L:264:ALA:N	2.27	0.65
1:B:220:VAL:O	1:B:221:PRO:O	2.15	0.65
1:C:262:ASN:C	1:C:262:ASN:ND2	2.41	0.65
1:J:74:ARG:HD2	1:J:330:PHE:HE2	1.61	0.65
1:J:255:MET:CG	1:J:256:PHE:N	2.56	0.65
1:N:188:LEU:HD11	1:N:213:LEU:HD11	1.79	0.65
1:O:24:THR:O	1:O:25:ASP:C	2.38	0.65
1:A:54:LYS:HA	1:A:54:LYS:NZ	2.11	0.65
1:A:241:PRO:HG2	1:A:242:TYR:H	1.61	0.65
1:D:54:LYS:HG2	1:D:57:ASN:HB3	1.78	0.65
1:G:151:TYR:OH	1:G:221:PRO:HB2	1.95	0.65
1:I:358:THR:HG22	1:J:266:THR:CG2	2.27	0.65
1:J:200:MET:O	1:J:229:CYS:HA	1.96	0.65
1:L:464:LEU:C	1:L:464:LEU:HD23	2.21	0.65
1:O:52:ILE:N	1:O:52:ILE:HD12	2.09	0.65
1:O:92:ASN:HD21	1:O:94:ASP:HB2	1.62	0.65
1:A:240:GLU:HG3	1:A:243:GLY:H	1.61	0.65
1:B:77:LEU:HB2	1:B:327:ASN:HB3	1.79	0.65
1:C:49:TYR:HE2	1:C:118:SER:HA	1.60	0.65
1:C:323:ILE:HG21	1:C:325:TRP:CE2	2.32	0.65
1:D:96:GLN:HE22	1:D:380:LYS:HE3	1.61	0.65
1:E:189:GLU:O	1:E:191:ILE:HG13	1.96	0.65
1:E:439:ASP:OD2	1:E:440:PRO:HD2	1.96	0.65
1:G:129:THR:HG21	1:G:291:TYR:CD2	2.32	0.65
1:I:109:ARG:NH1	1:I:370:TYR:CZ	2.65	0.65
1:K:300:VAL:O	1:K:300:VAL:HG23	1.97	0.65
1:L:373:GLN:CB	1:L:464:LEU:HD12	2.26	0.65
1:M:54:LYS:HE3	1:M:55:PRO:HD2	1.79	0.65
1:M:299:MET:HA	1:N:256:PHE:HB3	1.78	0.65
1:M:439:ASP:O	1:M:442:LYS:HB2	1.96	0.65
1:O:52:ILE:N	1:O:52:ILE:CD1	2.59	0.65
1:O:92:ASN:HD22	1:O:95:THR:H	1.45	0.65
1:E:49:TYR:CE2	1:E:118:SER:HA	2.32	0.65
1:E:442:LYS:HB3	1:E:443:LYS:HD3	1.78	0.65
1:F:153:GLN:HE22	1:F:300:VAL:HA	1.62	0.65
1:I:139:ALA:O	1:I:140:GLY:O	2.15	0.65
1:J:44:ALA:O	1:J:45:VAL:CG2	2.40	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:166:GLY:HA3	1:J:195:ILE:HD11	1.79	0.65
1:M:75:ILE:HG23	1:M:451:LEU:HD12	1.78	0.65
1:N:274:ASP:N	1:N:274:ASP:OD1	2.28	0.65
1:O:49:TYR:CE2	1:O:118:SER:HA	2.30	0.65
1:B:30:ARG:HH11	1:B:377:GLN:HE22	1.45	0.65
1:B:263:ARG:HG2	1:B:292:PHE:HD2	1.61	0.65
1:C:123:LEU:HD23	1:C:147:ILE:HB	1.78	0.65
1:C:300:VAL:HG22	1:D:255:MET:O	1.97	0.65
1:D:34:TYR:OH	1:D:377:GLN:OE1	2.11	0.65
1:H:391:ILE:O	1:H:391:ILE:HG22	1.97	0.65
1:I:111:GLN:HG2	1:I:369:GLU:HB3	1.79	0.65
1:I:219:GLU:HA	1:I:263:ARG:HH12	1.62	0.65
1:J:149:MET:HE3	1:J:294:THR:HG22	1.78	0.65
1:J:372:LEU:HB3	1:J:374:PHE:HE1	1.61	0.65
1:J:463:PRO:HG2	1:J:464:LEU:H	1.62	0.65
1:K:164:PRO:HG3	1:K:332:THR:CG2	2.26	0.65
1:K:450:ASN:HD21	1:K:452:LYS:HD2	1.62	0.65
1:M:220:VAL:O	1:M:221:PRO:O	2.15	0.65
1:N:74:ARG:HG3	1:N:330:PHE:CE2	2.32	0.65
1:N:123:LEU:CD2	1:N:123:LEU:HG	2.16	0.65
1:N:151:TYR:HD2	1:N:203:THR:O	1.79	0.65
1:A:54:LYS:HA	1:A:54:LYS:HZ2	1.62	0.65
1:A:67:GLY:H	1:A:366:HIS:HE1	1.42	0.65
1:B:54:LYS:HA	1:B:54:LYS:NZ	2.10	0.65
1:C:223:ASP:OD1	1:C:224:ILE:HG12	1.96	0.65
1:D:72:VAL:HG22	1:D:332:THR:CG2	2.27	0.65
1:D:142:ASP:O	1:E:283:THR:HG21	1.97	0.65
1:E:77:LEU:HD22	1:E:455:PHE:HZ	1.61	0.65
1:G:70:TYR:HE1	1:G:201:VAL:HA	1.62	0.65
1:G:172:GLY:O	1:G:173:SER:C	2.39	0.65
1:H:141:VAL:O	1:H:142:ASP:HB3	1.96	0.65
1:H:166:GLY:HA2	1:H:195:ILE:HD11	1.77	0.65
1:I:27:TYR:CE2	1:I:390:TYR:HE2	2.15	0.65
1:J:463:PRO:O	1:J:467:LYS:HG3	1.97	0.65
1:L:228:ILE:CD1	1:L:228:ILE:N	2.60	0.65
1:M:35:TYR:CE2	1:M:457:ALA:HB2	2.31	0.65
1:O:323:ILE:O	1:O:325:TRP:N	2.28	0.65
1:B:373:GLN:HB3	1:B:464:LEU:HD12	1.79	0.65
1:C:216:ASN:OD1	1:C:218:SER:N	2.29	0.65
1:C:440:PRO:O	1:C:443:LYS:NZ	2.29	0.65
1:D:121:PRO:CG	1:E:289:SER:HB2	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:266:THR:CG2	1:H:266:THR:CA	2.73	0.65
1:K:31:THR:CG2	1:K:378:LEU:O	2.45	0.65
1:M:33:ILE:HB	1:M:378:LEU:HB3	1.77	0.65
1:M:149:MET:HE2	1:M:205:PHE:CE1	2.32	0.65
1:N:390:TYR:O	1:N:393:SER:N	2.30	0.65
1:A:92:ASN:ND2	1:A:95:THR:OG1	2.30	0.64
1:F:214:GLN:OE1	1:F:219:GLU:HB2	1.98	0.64
1:J:323:ILE:HG21	1:J:325:TRP:CH2	2.32	0.64
1:K:149:MET:HE1	1:K:205:PHE:CZ	2.31	0.64
1:M:201:VAL:HG23	1:M:202:ASP:O	1.97	0.64
1:M:365:ARG:HH11	1:M:365:ARG:HG3	1.62	0.64
1:O:171:LYS:HG3	1:O:187:PRO:HD2	1.78	0.64
1:O:451:LEU:CD2	1:O:454:LYS:HG3	2.26	0.64
1:A:196:GLN:N	1:A:199:ASP:OD2	2.30	0.64
1:C:188:LEU:HD11	1:C:213:LEU:CD1	2.27	0.64
1:F:57:ASN:HD21	1:F:59:LYS:H	1.45	0.64
1:J:188:LEU:CD1	1:J:213:LEU:HD11	2.27	0.64
1:K:52:ILE:HB	1:K:62:VAL:HB	1.79	0.64
1:K:192:ASN:ND2	1:O:41:ARG:HH22	1.95	0.64
1:L:70:TYR:CE1	1:L:201:VAL:HA	2.33	0.64
1:M:217:LYS:HD3	1:N:274:ASP:O	1.97	0.64
1:N:77:LEU:HD22	1:N:455:PHE:CZ	2.33	0.64
1:A:36:HIS:ND1	1:A:36:HIS:C	2.54	0.64
1:A:60:ILE:O	1:A:60:ILE:HG13	1.98	0.64
1:B:257:VAL:HG12	1:B:293:PRO:HB2	1.79	0.64
1:G:162:LYS:C	1:G:330:PHE:HD1	2.06	0.64
1:H:24:THR:HG23	1:H:320:ASN:HA	1.78	0.64
1:I:65:VAL:HA	1:I:69:GLN:NE2	2.13	0.64
1:I:80:PRO:O	1:I:85:PHE:HE1	1.79	0.64
1:J:88:THR:CG2	1:J:88:THR:CA	2.72	0.64
1:K:70:TYR:OH	1:K:230:LYS:O	2.10	0.64
1:O:156:LEU:HG	1:O:334:VAL:HB	1.77	0.64
1:A:240:GLU:OE1	1:A:241:PRO:HG2	1.98	0.64
1:B:391:ILE:CG2	1:B:391:ILE:O	2.45	0.64
1:E:71:ARG:HA	1:E:71:ARG:NH1	2.08	0.64
1:H:250:LEU:N	1:H:250:LEU:HD12	2.10	0.64
1:I:151:TYR:CD2	1:I:203:THR:HB	2.32	0.64
1:J:242:TYR:CD2	1:J:394:MET:CG	2.71	0.64
1:L:110:GLY:O	1:L:111:GLN:HG2	1.97	0.64
1:N:148:SER:OG	1:O:129:THR:HB	1.97	0.64
1:N:363:TYR:CE1	1:O:185:CYS:HB2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:162:LYS:C	1:B:330:PHE:HD1	2.05	0.64
1:B:461:GLN:HA	1:B:461:GLN:HE21	1.61	0.64
1:C:116:GLY:N	1:C:339:SER:OG	2.31	0.64
1:D:344:LEU:HD13	1:E:213:LEU:HD12	1.79	0.64
1:F:54:LYS:HG2	1:F:56:ASN:OD1	1.96	0.64
1:F:67:GLY:O	1:F:68:LEU:HG	1.97	0.64
1:F:158:LEU:HD23	1:F:249:TYR:HB2	1.79	0.64
1:G:158:LEU:HB2	1:G:332:THR:OG1	1.97	0.64
1:H:384:THR:HG23	1:H:387:VAL:CG2	2.28	0.64
1:J:391:ILE:HG21	1:J:402:TRP:HZ3	1.59	0.64
1:L:279:GLY:HA3	1:L:283:THR:O	1.98	0.64
1:N:77:LEU:HD22	1:N:455:PHE:HZ	1.61	0.64
1:N:193:THR:HG21	1:N:230:LYS:HD3	1.79	0.64
1:O:384:THR:H	1:O:387:VAL:HB	1.62	0.64
1:C:60:ILE:CD1	1:C:60:ILE:CG2	2.75	0.64
1:F:271:VAL:HG12	1:F:276:TYR:CE2	2.32	0.64
1:F:298:SER:HB2	1:J:299:MET:HE2	1.79	0.64
1:H:153:GLN:HE22	1:H:300:VAL:HA	1.63	0.64
1:I:329:LEU:HD13	1:I:374:PHE:CE2	2.33	0.64
1:K:96:GLN:HB3	1:K:382:THR:HG22	1.79	0.64
1:L:363:TYR:CE2	1:M:185:CYS:HB2	2.33	0.64
1:M:147:ILE:HG22	1:M:148:SER:N	2.11	0.64
1:M:440:PRO:O	1:M:443:LYS:NZ	2.30	0.64
1:N:320:ASN:OD1	1:N:320:ASN:C	2.41	0.64
1:A:279:GLY:C	1:A:284:ALA:HB2	2.22	0.64
1:F:68:LEU:HD23	1:F:201:VAL:HG21	1.80	0.64
1:F:344:LEU:HD21	1:F:365:ARG:HG2	1.79	0.64
1:G:470:LEU:HD23	1:G:470:LEU:O	1.96	0.64
1:M:65:VAL:HA	1:M:69:GLN:NE2	2.12	0.64
1:M:166:GLY:HA3	1:M:195:ILE:HD11	1.80	0.64
1:O:110:GLY:O	1:O:111:GLN:NE2	2.31	0.64
1:O:163:PRO:N	1:O:330:PHE:CD1	2.65	0.64
1:A:91:TYR:HD1	1:A:96:GLN:HG3	1.63	0.64
1:C:467:LYS:CD	1:C:467:LYS:CB	2.76	0.64
1:J:54:LYS:HB3	1:J:57:ASN:HD22	1.62	0.64
1:J:74:ARG:HG2	1:J:76:HIS:NE2	2.13	0.64
1:K:99:VAL:HG11	1:K:323:ILE:HG22	1.80	0.64
1:L:24:THR:HG21	1:L:323:ILE:CG1	2.28	0.64
1:L:123:LEU:O	1:L:125:LYS:N	2.30	0.64
1:M:21:VAL:O	1:M:22:VAL:HG13	1.97	0.64
1:N:54:LYS:CB	1:N:57:ASN:HD22	2.09	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:35:TYR:CE2	1:B:457:ALA:HB2	2.33	0.64
1:C:105:VAL:HA	1:C:373:GLN:O	1.98	0.64
1:C:114:GLY:HA2	1:D:255:MET:SD	2.38	0.64
1:C:320:ASN:HD21	1:C:323:ILE:HB	1.63	0.64
1:D:21:VAL:HG13	1:D:390:TYR:OH	1.98	0.64
1:D:42:LEU:CD1	1:D:73:PHE:HE2	2.10	0.64
1:D:67:GLY:O	1:D:68:LEU:HG	1.97	0.64
1:D:110:GLY:O	1:D:111:GLN:NE2	2.29	0.64
1:E:79:ASP:OD2	1:E:81:ASN:HB2	1.98	0.64
1:E:274:ASP:OD1	1:E:274:ASP:N	2.30	0.64
1:F:180:VAL:CG1	1:F:184:ASP:CB	2.75	0.64
1:F:363:TYR:CD2	1:G:185:CYS:HB2	2.32	0.64
1:G:280:SER:CA	1:G:284:ALA:HB2	2.28	0.64
1:G:323:ILE:HD13	1:G:323:ILE:N	2.12	0.64
1:I:57:ASN:HD21	1:I:59:LYS:H	1.44	0.64
1:J:36:HIS:CG	1:J:462:PHE:CD1	2.86	0.64
1:J:152:LYS:HB2	1:J:255:MET:HB2	1.79	0.64
1:J:348:ILE:HG22	1:J:359:ASN:OD1	1.98	0.64
1:J:444:TYR:CB	1:J:446:PHE:CZ	2.81	0.64
1:L:250:LEU:N	1:L:250:LEU:CD1	2.44	0.64
1:M:64:LYS:CB	1:M:64:LYS:CD	2.75	0.64
1:M:320:ASN:OD1	1:M:321:ASN:N	2.31	0.64
1:N:30:ARG:HH11	1:N:377:GLN:HE22	1.45	0.64
1:N:52:ILE:HB	1:N:62:VAL:HB	1.80	0.64
1:C:78:PRO:HD3	1:C:452:LYS:HA	1.80	0.64
1:E:439:ASP:O	1:E:442:LYS:HB2	1.98	0.64
1:F:440:PRO:HA	1:F:443:LYS:NZ	2.12	0.64
1:J:49:TYR:O	1:J:64:LYS:HE2	1.97	0.64
1:L:65:VAL:HA	1:L:69:GLN:HE22	1.61	0.64
1:N:183:GLY:O	1:N:184:ASP:C	2.40	0.64
1:A:323:ILE:HG21	1:A:325:TRP:CZ2	2.32	0.63
1:A:465:GLY:O	1:A:466:ARG:C	2.41	0.63
1:B:180:VAL:CG1	1:B:184:ASP:HB2	2.28	0.63
1:D:66:SER:N	1:D:69:GLN:NE2	2.43	0.63
1:G:143:ASN:O	1:G:145:GLU:HG2	1.98	0.63
1:G:316:ALA:C	1:G:318:GLY:H	2.06	0.63
1:I:262:ASN:HD22	1:I:263:ARG:N	1.95	0.63
1:I:342:MET:HB2	1:J:208:MET:HE1	1.79	0.63
1:J:81:ASN:O	1:J:82:LYS:HG3	1.97	0.63
1:K:255:MET:HG2	1:K:256:PHE:N	2.13	0.63
1:K:452:LYS:CD	1:K:452:LYS:CB	2.73	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:104:GLY:HA3	1:N:375:ILE:HB	1.80	0.63
1:N:383:LEU:CD2	1:N:388:MET:HE3	2.28	0.63
1:O:158:LEU:CD2	1:O:249:TYR:HB2	2.29	0.63
1:A:262:ASN:HD21	1:A:288:SER:CB	2.08	0.63
1:C:54:LYS:NZ	1:C:55:PRO:HD2	2.13	0.63
1:C:74:ARG:CG	1:C:330:PHE:HE2	2.11	0.63
1:D:194:VAL:CG2	1:D:194:VAL:CA	2.74	0.63
1:H:255:MET:HG2	1:H:256:PHE:N	2.12	0.63
1:I:208:MET:SD	1:I:210:PHE:HE2	2.21	0.63
1:I:363:TYR:CG	1:J:185:CYS:HB2	2.34	0.63
1:K:266:THR:HG23	1:O:358:THR:HA	1.80	0.63
1:N:237:MET:O	1:N:240:GLU:HB3	1.98	0.63
1:C:162:LYS:C	1:C:330:PHE:CD1	2.74	0.63
1:C:240:GLU:HG3	1:C:243:GLY:H	1.62	0.63
1:F:250:LEU:HD22	1:F:306:ILE:HG23	1.80	0.63
1:F:255:MET:CE	1:J:115:VAL:HG22	2.27	0.63
1:F:471:GLN:O	1:F:472:LEU:OXT	2.17	0.63
1:I:54:LYS:CB	1:I:57:ASN:HD22	2.10	0.63
1:I:99:VAL:HG11	1:I:323:ILE:HG22	1.79	0.63
1:K:375:ILE:HG12	1:K:464:LEU:HD22	1.80	0.63
1:L:273:ASP:OD2	1:L:273:ASP:N	2.30	0.63
1:A:67:GLY:H	1:A:366:HIS:CE1	2.16	0.63
1:A:67:GLY:N	1:A:366:HIS:HE1	1.95	0.63
1:A:363:TYR:CE2	1:B:185:CYS:HB2	2.33	0.63
1:D:54:LYS:CE	1:D:55:PRO:HD2	2.22	0.63
1:D:137:ALA:CB	1:D:137:ALA:C	2.70	0.63
1:D:228:ILE:N	1:D:228:ILE:HD12	2.14	0.63
1:F:122:LEU:HD13	1:F:144:ARG:NH2	2.14	0.63
1:G:228:ILE:N	1:G:228:ILE:HD12	2.13	0.63
1:G:230:LYS:NZ	1:G:230:LYS:CD	2.59	0.63
1:H:260:LEU:O	1:H:261:PHE:CD2	2.51	0.63
1:K:180:VAL:HG13	1:K:184:ASP:HB2	1.80	0.63
1:K:307:PHE:C	1:K:309:LYS:H	2.06	0.63
1:L:458:ASP:OD2	1:L:458:ASP:N	2.30	0.63
1:M:147:ILE:HA	1:N:129:THR:O	1.99	0.63
1:O:54:LYS:HG3	1:O:55:PRO:CD	2.28	0.63
1:D:43:LEU:HD12	1:D:369:GLU:HA	1.79	0.63
1:E:316:ALA:C	1:E:318:GLY:H	2.07	0.63
1:F:248:PHE:CZ	1:F:311:TYR:HB3	2.33	0.63
1:F:280:SER:N	1:F:284:ALA:HB2	2.14	0.63
1:G:29:ALA:HB3	1:G:380:LYS:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:358:THR:CG2	1:J:266:THR:HG22	2.28	0.63
1:J:103:VAL:HA	1:J:313:LEU:HB2	1.80	0.63
1:K:220:VAL:O	1:K:221:PRO:O	2.16	0.63
1:L:461:GLN:HE22	1:M:21:VAL:HG23	1.64	0.63
1:B:22:VAL:O	1:B:23:SER:C	2.42	0.63
1:B:105:VAL:HG11	1:B:159:ILE:CD1	2.29	0.63
1:B:467:LYS:CD	1:B:467:LYS:CB	2.72	0.63
1:E:75:ILE:CG2	1:E:451:LEU:HD12	2.28	0.63
1:E:80:PRO:HG2	1:E:98:LEU:O	1.99	0.63
1:G:193:THR:CG2	1:G:230:LYS:HD3	2.28	0.63
1:G:342:MET:HE1	1:H:169:TRP:CD1	2.34	0.63
1:H:188:LEU:HD13	1:H:213:LEU:HD11	1.80	0.63
1:I:33:ILE:HB	1:I:378:LEU:HB3	1.79	0.63
1:I:151:TYR:OH	1:I:221:PRO:HB2	1.99	0.63
1:I:397:THR:HB	1:I:401:ASP:OD2	1.99	0.63
1:J:242:TYR:CE2	1:J:394:MET:CB	2.82	0.63
1:K:29:ALA:HB3	1:K:380:LYS:O	1.99	0.63
1:K:363:TYR:CD2	1:L:185:CYS:HB2	2.33	0.63
1:L:152:LYS:HE2	1:L:202:ASP:CG	2.23	0.63
1:D:196:GLN:NE2	1:D:444:TYR:HD2	1.96	0.63
1:D:464:LEU:O	1:D:464:LEU:HD23	1.98	0.63
1:G:54:LYS:HA	1:G:54:LYS:HZ2	1.63	0.63
1:G:115:VAL:HG21	1:H:257:VAL:HG13	1.81	0.63
1:J:75:ILE:HG21	1:J:451:LEU:HD12	1.81	0.63
1:J:307:PHE:O	1:J:308:ASN:HB2	1.97	0.63
1:K:153:GLN:HE22	1:K:300:VAL:HA	1.63	0.63
1:K:266:THR:CG2	1:K:266:THR:CA	2.72	0.63
1:O:162:LYS:C	1:O:330:PHE:HD1	2.07	0.63
1:A:345:CYS:SG	1:B:216:ASN:CB	2.80	0.63
1:B:391:ILE:HG22	1:B:399:LEU:CD2	2.29	0.63
1:D:170:GLY:O	1:D:188:LEU:HA	1.98	0.63
1:E:471:GLN:OE1	1:E:472:LEU:N	2.32	0.63
1:I:378:LEU:HD12	1:I:379:CYS:H	1.62	0.63
1:J:459:LEU:HB3	1:J:465:GLY:HA3	1.81	0.63
1:K:159:ILE:CD1	1:K:159:ILE:CB	2.74	0.63
1:N:250:LEU:N	1:N:250:LEU:HD12	2.14	0.63
1:A:381:ILE:CG2	1:A:381:ILE:CA	2.74	0.63
1:C:30:ARG:HH11	1:C:377:GLN:HE22	1.45	0.63
1:C:185:CYS:SG	1:C:186:PRO:HD2	2.39	0.63
1:D:52:ILE:HB	1:D:62:VAL:HB	1.81	0.63
1:D:465:GLY:O	1:D:466:ARG:C	2.42	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:96:GLN:HE21	1:G:382:THR:HG23	1.64	0.63
1:H:141:VAL:O	1:H:142:ASP:CB	2.41	0.63
1:J:60:ILE:O	1:J:60:ILE:HG13	1.97	0.63
1:K:49:TYR:HA	1:K:223:ASP:HB3	1.81	0.63
1:L:36:HIS:ND1	1:L:37:ALA:N	2.46	0.63
1:L:325:TRP:CE2	1:L:394:MET:HE1	2.34	0.63
1:N:365:ARG:NH2	1:O:269:GLU:OE1	2.32	0.63
1:O:375:ILE:HG21	1:O:468:PHE:CD2	2.33	0.63
1:C:77:LEU:CD2	1:C:77:LEU:HG	2.14	0.62
1:D:107:VAL:HG21	1:D:157:CYS:SG	2.39	0.62
1:F:240:GLU:HG3	1:F:243:GLY:HA2	1.81	0.62
1:G:36:HIS:CG	1:G:462:PHE:CD1	2.87	0.62
1:H:69:GLN:HA	1:H:199:ASP:O	1.98	0.62
1:I:193:THR:CG2	1:I:193:THR:N	2.61	0.62
1:J:325:TRP:HB3	1:J:398:ILE:HD12	1.79	0.62
1:K:443:LYS:N	1:K:443:LYS:CD	2.56	0.62
1:M:113:LEU:N	1:M:113:LEU:HD12	2.14	0.62
1:M:395:ASN:HB3	1:M:398:ILE:CG1	2.28	0.62
1:N:22:VAL:O	1:N:23:SER:C	2.42	0.62
1:A:64:LYS:CG	1:A:64:LYS:CE	2.77	0.62
1:A:75:ILE:HB	1:A:329:LEU:HB3	1.80	0.62
1:B:21:VAL:HG13	1:B:390:TYR:OH	1.99	0.62
1:B:57:ASN:ND2	1:B:59:LYS:H	1.97	0.62
1:C:81:ASN:ND2	1:C:402:TRP:HD1	1.97	0.62
1:F:257:VAL:HG21	1:J:150:ASP:HB3	1.81	0.62
1:G:46:GLY:HA3	1:G:63:PRO:O	1.98	0.62
1:K:266:THR:CG2	1:K:266:THR:HB	2.16	0.62
1:M:141:VAL:HG12	1:M:142:ASP:N	2.14	0.62
1:N:217:LYS:HG2	1:O:276:TYR:HA	1.81	0.62
1:N:343:SER:HB3	1:N:364:LEU:HD23	1.80	0.62
1:N:384:THR:H	1:N:387:VAL:HB	1.64	0.62
1:A:99:VAL:HG11	1:A:323:ILE:CG2	2.29	0.62
1:B:150:ASP:OD2	1:B:150:ASP:N	2.33	0.62
1:E:67:GLY:C	1:E:68:LEU:HG	2.23	0.62
1:E:395:ASN:HB3	1:E:398:ILE:HG12	1.80	0.62
1:F:255:MET:SD	1:J:115:VAL:HG22	2.38	0.62
1:J:71:ARG:HH11	1:J:71:ARG:CA	2.13	0.62
1:J:79:ASP:HA	1:J:327:ASN:HD21	1.65	0.62
1:L:180:VAL:HG13	1:L:184:ASP:CB	2.28	0.62
1:M:71:ARG:NH1	1:M:197:ASP:OD1	2.32	0.62
1:M:456:SER:O	1:M:457:ALA:C	2.37	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:117:ILE:HG21	1:B:293:PRO:HD3	1.81	0.62
1:B:96:GLN:HE21	1:B:382:THR:HG23	1.63	0.62
1:D:73:PHE:N	1:D:73:PHE:CD1	2.66	0.62
1:D:262:ASN:HD21	1:D:288:SER:HB3	1.64	0.62
1:E:160:GLY:O	1:E:329:LEU:HD23	2.00	0.62
1:F:66:SER:N	1:F:69:GLN:NE2	2.48	0.62
1:F:112:PRO:HD3	1:G:231:TYR:CD2	2.34	0.62
1:I:79:ASP:OD2	1:I:81:ASN:HB2	1.99	0.62
1:I:142:ASP:O	1:J:283:THR:HG21	1.98	0.62
1:I:259:HIS:CE1	1:J:130:GLU:HG2	2.35	0.62
1:K:48:PRO:HB3	1:K:341:ASN:HD22	1.64	0.62
1:L:440:PRO:O	1:L:443:LYS:NZ	2.32	0.62
1:M:305:GLN:HE22	1:M:337:THR:HG21	1.64	0.62
1:A:34:TYR:CE2	1:A:377:GLN:CG	2.72	0.62
1:F:451:LEU:O	1:F:454:LYS:HB2	1.99	0.62
1:H:176:THR:O	1:H:177:GLN:HG2	1.99	0.62
1:I:85:PHE:CE2	1:I:378:LEU:HD22	2.34	0.62
1:I:237:MET:O	1:I:240:GLU:HB3	1.99	0.62
1:K:308:ASN:HD22	1:L:251:ARG:HH22	1.47	0.62
1:L:21:VAL:HG12	1:L:22:VAL:N	2.14	0.62
1:M:27:TYR:CE2	1:M:390:TYR:CE2	2.87	0.62
1:M:74:ARG:CZ	1:M:441:LEU:CD1	2.76	0.62
1:N:259:HIS:HE1	1:O:130:GLU:CG	2.12	0.62
1:O:74:ARG:NH2	1:O:441:LEU:HD12	2.14	0.62
1:A:125:LYS:NZ	1:B:132:ALA:O	2.30	0.62
1:C:77:LEU:CD2	1:C:77:LEU:CB	2.75	0.62
1:C:92:ASN:ND2	1:C:95:THR:OG1	2.32	0.62
1:C:471:GLN:OE1	1:C:472:LEU:N	2.32	0.62
1:E:280:SER:N	1:E:284:ALA:HB2	2.14	0.62
1:E:373:GLN:HB3	1:E:464:LEU:HD12	1.81	0.62
1:F:61:LEU:HD12	1:F:61:LEU:O	1.98	0.62
1:F:325:TRP:CZ2	1:F:394:MET:HE1	2.34	0.62
1:G:54:LYS:CB	1:G:57:ASN:HD22	2.13	0.62
1:G:463:PRO:HB3	1:G:466:ARG:NH2	2.15	0.62
1:I:220:VAL:HB	1:I:224:ILE:HD12	1.80	0.62
1:J:107:VAL:HG23	1:J:311:TYR:CE1	2.34	0.62
1:K:29:ALA:HB3	1:K:380:LYS:HG3	1.81	0.62
1:K:290:ASN:HA	1:O:364:LEU:HD11	1.82	0.62
1:M:348:ILE:HG22	1:M:359:ASN:OD1	1.99	0.62
1:N:381:ILE:O	1:N:381:ILE:HG22	2.00	0.62
1:O:443:LYS:H	1:O:443:LYS:CD	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:172:GLY:O	1:A:173:SER:C	2.41	0.62
1:D:73:PHE:N	1:D:331:VAL:O	2.30	0.62
1:E:397:THR:HB	1:E:401:ASP:OD2	1.99	0.62
1:F:96:GLN:CA	1:F:383:LEU:HD12	2.29	0.62
1:F:153:GLN:NE2	1:F:300:VAL:HG12	2.14	0.62
1:F:358:THR:HG22	1:G:266:THR:HG22	1.80	0.62
1:J:163:PRO:HG2	1:J:163:PRO:O	2.00	0.62
1:L:54:LYS:HE3	1:L:55:PRO:HD2	1.81	0.62
1:C:117:ILE:HG13	1:C:149:MET:O	2.00	0.62
1:C:158:LEU:CD2	1:C:249:TYR:HB2	2.29	0.62
1:C:237:MET:HB3	1:C:246:LEU:CD2	2.29	0.62
1:E:178:VAL:CG1	1:E:178:VAL:CG2	2.76	0.62
1:G:149:MET:HE1	1:G:205:PHE:CE1	2.35	0.62
1:G:250:LEU:HD12	1:G:250:LEU:H	1.63	0.62
1:H:44:ALA:HB3	1:H:368:GLU:HB2	1.80	0.62
1:I:97:ARG:HH11	1:I:97:ARG:HA	1.63	0.62
1:J:262:ASN:HD21	1:J:288:SER:HB3	1.64	0.62
1:K:143:ASN:O	1:K:144:ARG:C	2.42	0.62
1:L:53:LYS:HD3	1:L:58:ASN:HA	1.82	0.62
1:L:105:VAL:HG11	1:L:159:ILE:HD11	1.81	0.62
1:M:344:LEU:CD1	1:N:188:LEU:HD21	2.30	0.62
1:A:27:TYR:CE2	1:A:390:TYR:HE2	2.18	0.62
1:A:115:VAL:HG22	1:B:255:MET:SD	2.40	0.62
1:B:356:LYS:O	1:B:357:ASN:C	2.39	0.62
1:C:122:LEU:HD13	1:C:144:ARG:NH2	2.14	0.62
1:C:391:ILE:O	1:C:391:ILE:HG22	1.99	0.62
1:D:66:SER:N	1:D:69:GLN:HE21	1.98	0.62
1:F:122:LEU:HD11	1:G:286:LEU:HD11	1.82	0.62
1:G:54:LYS:CG	1:G:55:PRO:HD2	2.26	0.62
1:H:302:SER:HB2	1:I:253:GLU:H	1.64	0.62
1:H:384:THR:H	1:H:387:VAL:HB	1.64	0.62
1:H:465:GLY:C	1:H:467:LYS:N	2.58	0.62
1:J:208:MET:SD	1:J:210:PHE:HE2	2.22	0.62
1:L:28:VAL:HA	1:L:381:ILE:HG12	1.81	0.62
1:N:115:VAL:HG21	1:O:257:VAL:HG13	1.81	0.62
1:N:383:LEU:HD22	1:N:388:MET:HE3	1.81	0.62
1:A:49:TYR:HE2	1:A:118:SER:HA	1.65	0.62
1:B:33:ILE:CD1	1:B:33:ILE:HG23	2.29	0.62
1:B:72:VAL:HG21	1:B:195:ILE:O	2.00	0.62
1:D:54:LYS:CG	1:D:57:ASN:HB3	2.30	0.62
1:D:159:ILE:HG22	1:D:247:PHE:CE1	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:151:TYR:CG	1:E:203:THR:HB	2.33	0.62
1:G:65:VAL:HA	1:G:69:GLN:NE2	2.14	0.62
1:I:260:LEU:HD12	1:I:260:LEU:N	2.14	0.62
1:I:316:ALA:HB3	1:I:321:ASN:OD1	1.99	0.62
1:J:54:LYS:HA	1:J:54:LYS:HZ3	1.64	0.62
1:K:79:ASP:OD2	1:K:82:LYS:HG3	2.00	0.62
1:K:152:LYS:CB	1:K:255:MET:HB2	2.24	0.62
1:K:323:ILE:HG21	1:K:325:TRP:CZ3	2.35	0.62
1:L:23:SER:OG	1:L:25:ASP:HB2	2.00	0.62
1:N:139:ALA:O	1:N:140:GLY:O	2.18	0.62
1:O:54:LYS:HB2	1:O:57:ASN:HD22	1.63	0.62
1:O:323:ILE:HD13	1:O:323:ILE:N	2.15	0.62
1:B:92:ASN:ND2	1:B:95:THR:OG1	2.33	0.61
1:B:142:ASP:CG	1:C:283:THR:OG1	2.43	0.61
1:B:149:MET:HE3	1:B:294:THR:HG22	1.81	0.61
1:D:30:ARG:NH1	1:D:377:GLN:NE2	2.44	0.61
1:E:165:ILE:O	1:E:165:ILE:HG22	1.98	0.61
1:E:262:ASN:HD21	1:E:288:SER:HB3	1.65	0.61
1:F:365:ARG:CD	1:F:365:ARG:CB	2.73	0.61
1:I:159:ILE:HD12	1:I:248:PHE:CD2	2.35	0.61
1:J:33:ILE:HB	1:J:378:LEU:HB3	1.81	0.61
1:J:163:PRO:N	1:J:330:PHE:CD1	2.68	0.61
1:L:54:LYS:CB	1:L:57:ASN:HD22	2.14	0.61
1:L:74:ARG:CG	1:L:330:PHE:HE2	2.12	0.61
1:M:46:GLY:HA3	1:M:63:PRO:O	1.99	0.61
1:M:69:GLN:HA	1:M:199:ASP:O	2.00	0.61
1:N:149:MET:HE3	1:N:295:PRO:HD2	1.82	0.61
1:N:367:GLY:O	1:N:368:GLU:HG2	2.00	0.61
1:O:24:THR:HG21	1:O:320:ASN:HA	1.81	0.61
1:A:57:ASN:CG	1:A:59:LYS:H	2.09	0.61
1:A:248:PHE:CZ	1:A:311:TYR:HB3	2.35	0.61
1:C:171:LYS:HA	1:C:187:PRO:O	1.98	0.61
1:C:255:MET:CG	1:C:256:PHE:N	2.63	0.61
1:C:383:LEU:CD2	1:C:388:MET:HE3	2.30	0.61
1:D:384:THR:HG23	1:D:387:VAL:CG2	2.30	0.61
1:E:389:THR:CG2	1:E:389:THR:HB	2.13	0.61
1:F:365:ARG:CD	1:F:365:ARG:CA	2.77	0.61
1:G:96:GLN:HB3	1:G:382:THR:CG2	2.29	0.61
1:H:57:ASN:HD21	1:H:59:LYS:CB	2.13	0.61
1:L:344:LEU:CD1	1:M:186:PRO:HD2	2.29	0.61
1:M:114:GLY:HA2	1:N:255:MET:SD	2.40	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:149:MET:HA	1:O:260:LEU:HD21	1.81	0.61
1:D:54:LYS:HB2	1:D:57:ASN:HD22	1.65	0.61
1:D:80:PRO:HD2	1:D:81:ASN:H	1.64	0.61
1:D:141:VAL:CG1	1:D:142:ASP:N	2.59	0.61
1:E:30:ARG:HD3	1:E:377:GLN:HE22	1.65	0.61
1:E:235:ILE:CD1	1:E:235:ILE:CB	2.73	0.61
1:F:274:ASP:N	1:F:274:ASP:OD1	2.32	0.61
1:J:91:TYR:OH	1:J:97:ARG:NH2	2.33	0.61
1:L:312:TRP:CH2	1:L:468:PHE:HB2	2.35	0.61
1:L:373:GLN:HB3	1:L:464:LEU:HD12	1.82	0.61
1:M:27:TYR:CE2	1:M:390:TYR:HE2	2.18	0.61
1:M:115:VAL:HG22	1:N:255:MET:CE	2.31	0.61
1:M:149:MET:HE2	1:M:205:PHE:HE1	1.66	0.61
1:N:21:VAL:HG12	1:N:22:VAL:N	2.15	0.61
1:N:36:HIS:C	1:N:36:HIS:ND1	2.58	0.61
1:N:65:VAL:O	1:N:366:HIS:HB3	2.00	0.61
1:O:442:LYS:NZ	1:O:442:LYS:CG	2.64	0.61
1:A:381:ILE:CG2	1:A:381:ILE:HB	2.14	0.61
1:A:397:THR:HB	1:A:401:ASP:OD2	2.00	0.61
1:B:66:SER:O	1:B:69:GLN:HG3	2.00	0.61
1:B:126:LEU:HB3	1:B:262:ASN:HB3	1.82	0.61
1:D:49:TYR:HA	1:D:223:ASP:HB3	1.81	0.61
1:G:24:THR:CG2	1:G:320:ASN:HA	2.30	0.61
1:H:124:ASN:OD1	1:H:264:ALA:N	2.33	0.61
1:J:54:LYS:CB	1:J:57:ASN:HD22	2.13	0.61
1:J:163:PRO:HB3	1:J:330:PHE:CE1	2.36	0.61
1:K:306:ILE:HD13	1:K:306:ILE:N	2.15	0.61
1:M:74:ARG:HH22	1:M:441:LEU:HD12	1.58	0.61
1:M:250:LEU:HD12	1:M:250:LEU:H	1.65	0.61
1:N:70:TYR:OH	1:N:232:PRO:HD3	2.00	0.61
1:O:30:ARG:HH11	1:O:377:GLN:HE22	1.48	0.61
1:A:21:VAL:HB	1:E:461:GLN:HE22	1.64	0.61
1:A:63:PRO:O	1:A:65:VAL:HG23	2.01	0.61
1:B:183:GLY:O	1:B:184:ASP:C	2.41	0.61
1:D:80:PRO:CD	1:D:81:ASN:H	2.14	0.61
1:D:464:LEU:O	1:D:464:LEU:CD2	2.48	0.61
1:E:167:GLU:HG3	1:E:231:TYR:O	2.00	0.61
1:E:172:GLY:O	1:E:173:SER:O	2.19	0.61
1:F:274:ASP:O	1:J:217:LYS:HD3	2.00	0.61
1:G:96:GLN:HE21	1:G:382:THR:CG2	2.13	0.61
1:G:255:MET:CG	1:G:256:PHE:N	2.60	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:104:GLY:HA3	1:H:375:ILE:HB	1.82	0.61
1:H:137:ALA:O	1:H:138:ASN:O	2.19	0.61
1:I:344:LEU:HD11	1:J:185:CYS:SG	2.41	0.61
1:I:399:LEU:O	1:I:402:TRP:HB2	1.99	0.61
1:J:166:GLY:CA	1:J:195:ILE:HD11	2.30	0.61
1:K:57:ASN:HD21	1:K:59:LYS:HB3	1.64	0.61
1:K:109:ARG:NH1	1:K:370:TYR:CE1	2.68	0.61
1:K:254:GLN:HA	1:O:300:VAL:O	2.00	0.61
1:L:67:GLY:C	1:L:68:LEU:HG	2.26	0.61
1:L:320:ASN:OD1	1:L:321:ASN:N	2.34	0.61
1:M:323:ILE:HG21	1:M:325:TRP:CZ2	2.34	0.61
1:B:44:ALA:HB3	1:B:368:GLU:HB2	1.81	0.61
1:B:358:THR:HA	1:C:266:THR:CG2	2.30	0.61
1:C:355:TYR:CD1	1:D:144:ARG:HD3	2.35	0.61
1:C:375:ILE:CG1	1:C:464:LEU:HD13	2.31	0.61
1:F:175:CYS:SG	1:F:175:CYS:CA	2.87	0.61
1:F:220:VAL:O	1:F:221:PRO:C	2.40	0.61
1:I:42:LEU:HD13	1:I:447:TRP:CE2	2.35	0.61
1:O:237:MET:HB3	1:O:246:LEU:CD2	2.30	0.61
1:O:331:VAL:CG1	1:O:331:VAL:HB	2.18	0.61
1:A:323:ILE:HG21	1:A:325:TRP:CH2	2.35	0.61
1:C:122:LEU:HD11	1:D:286:LEU:HD11	1.83	0.61
1:C:151:TYR:CG	1:C:203:THR:HB	2.35	0.61
1:C:342:MET:SD	1:D:208:MET:HE3	2.40	0.61
1:C:383:LEU:HD23	1:C:388:MET:HE3	1.81	0.61
1:G:54:LYS:HZ2	1:G:55:PRO:HD3	1.66	0.61
1:H:300:VAL:O	1:I:254:GLN:HA	1.99	0.61
1:I:82:LYS:CD	1:I:82:LYS:NZ	2.61	0.61
1:K:36:HIS:C	1:K:36:HIS:ND1	2.59	0.61
1:K:117:ILE:HD11	1:L:260:LEU:HD23	1.81	0.61
1:L:298:SER:OG	1:L:299:MET:N	2.33	0.61
1:N:343:SER:C	1:N:344:LEU:HD23	2.25	0.61
1:N:344:LEU:HD12	1:O:186:PRO:HD2	1.83	0.61
1:O:71:ARG:HH12	1:O:198:GLY:N	1.97	0.61
1:A:163:PRO:N	1:A:330:PHE:CD1	2.69	0.61
1:D:98:LEU:HD22	1:D:379:CYS:O	2.00	0.61
1:G:219:GLU:HB3	1:G:263:ARG:NH2	2.16	0.61
1:I:149:MET:HE1	1:I:205:PHE:CE1	2.36	0.61
1:L:374:PHE:O	1:L:375:ILE:HD13	2.01	0.61
1:M:144:ARG:C	1:M:145:GLU:HG2	2.24	0.61
1:M:323:ILE:HD13	1:M:323:ILE:CA	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:96:GLN:NE2	1:N:382:THR:CG2	2.63	0.61
1:N:149:MET:HE1	1:N:205:PHE:CE1	2.36	0.61
1:O:117:ILE:CD1	1:O:117:ILE:CB	2.72	0.61
1:O:172:GLY:O	1:O:173:SER:C	2.43	0.61
1:A:280:SER:CA	1:A:284:ALA:HB2	2.31	0.61
1:B:208:MET:SD	1:B:210:PHE:CE2	2.94	0.61
1:B:391:ILE:O	1:B:391:ILE:HG22	1.99	0.61
1:D:36:HIS:CG	1:D:462:PHE:CD1	2.89	0.61
1:E:24:THR:HG23	1:E:320:ASN:HA	1.83	0.61
1:E:70:TYR:O	1:E:71:ARG:NH1	2.34	0.61
1:F:121:PRO:HG3	1:G:289:SER:HB2	1.83	0.61
1:I:157:CYS:HB3	1:I:250:LEU:CD1	2.31	0.61
1:I:208:MET:SD	1:I:210:PHE:CE2	2.94	0.61
1:I:281:GLY:O	1:I:284:ALA:N	2.30	0.61
1:J:163:PRO:HD3	1:J:330:PHE:CE1	2.31	0.61
1:L:125:LYS:HD3	1:L:125:LYS:C	2.26	0.61
1:N:54:LYS:HG2	1:N:56:ASN:OD1	2.00	0.61
1:N:216:ASN:ND2	1:N:219:GLU:OE2	2.34	0.61
1:D:80:PRO:C	1:D:82:LYS:N	2.54	0.61
1:E:344:LEU:HD21	1:E:365:ARG:CG	2.31	0.61
1:G:147:ILE:HG22	1:G:148:SER:N	2.15	0.61
1:H:223:ASP:OD1	1:H:224:ILE:N	2.34	0.61
1:I:126:LEU:HB3	1:I:262:ASN:HB3	1.82	0.61
1:K:166:GLY:CA	1:K:195:ILE:HD11	2.31	0.61
1:L:463:PRO:HG2	1:L:464:LEU:H	1.66	0.61
1:M:169:TRP:H	1:M:208:MET:HA	1.66	0.61
1:N:51:PRO:C	1:N:52:ILE:HD12	2.25	0.61
1:A:357:ASN:HB2	1:B:141:VAL:HA	1.83	0.60
1:B:299:MET:HA	1:C:256:PHE:HB3	1.83	0.60
1:D:68:LEU:C	1:D:201:VAL:HG22	2.23	0.60
1:D:159:ILE:HD12	1:D:248:PHE:HD2	1.65	0.60
1:D:344:LEU:HD13	1:E:213:LEU:HD13	1.83	0.60
1:D:464:LEU:CD2	1:D:464:LEU:C	2.73	0.60
1:F:217:LYS:O	1:G:276:TYR:HA	2.01	0.60
1:G:262:ASN:C	1:G:262:ASN:ND2	2.46	0.60
1:G:361:LYS:CA	1:H:266:THR:OG1	2.45	0.60
1:L:248:PHE:CZ	1:L:311:TYR:HB3	2.36	0.60
1:M:154:THR:O	1:M:336:THR:HG23	2.01	0.60
1:M:378:LEU:HD12	1:M:379:CYS:H	1.66	0.60
1:O:130:GLU:HB2	1:O:260:LEU:HD13	1.82	0.60
1:A:75:ILE:CG2	1:A:451:LEU:HD12	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:257:VAL:HG13	1:E:115:VAL:CG2	2.31	0.60
1:A:276:TYR:HA	1:E:217:LYS:HG2	1.82	0.60
1:D:167:GLU:O	1:D:168:HIS:HB3	1.99	0.60
1:E:83:PHE:HD2	1:E:85:PHE:CE2	2.19	0.60
1:E:119:GLY:HA3	1:E:148:SER:HB3	1.83	0.60
1:F:117:ILE:N	1:F:117:ILE:HG22	2.16	0.60
1:H:123:LEU:HD23	1:H:147:ILE:HB	1.81	0.60
1:H:320:ASN:OD1	1:H:320:ASN:C	2.44	0.60
1:I:101:ALA:HB3	1:I:377:GLN:O	2.01	0.60
1:K:99:VAL:HG11	1:K:323:ILE:CG2	2.31	0.60
1:K:342:MET:HB2	1:L:208:MET:CE	2.28	0.60
1:L:361:LYS:HA	1:M:266:THR:HG1	1.64	0.60
1:M:241:PRO:HG2	1:M:242:TYR:H	1.66	0.60
1:O:442:LYS:NZ	1:O:442:LYS:CD	2.64	0.60
1:B:24:THR:HA	1:B:27:TYR:CE2	2.37	0.60
1:B:29:ALA:HB3	1:B:380:LYS:O	2.02	0.60
1:C:250:LEU:HD12	1:C:250:LEU:O	2.01	0.60
1:D:122:LEU:HD13	1:D:144:ARG:NH2	2.16	0.60
1:G:43:LEU:HD12	1:G:368:GLU:O	2.02	0.60
1:G:178:VAL:O	1:G:180:VAL:N	2.22	0.60
1:H:79:ASP:OD2	1:H:81:ASN:HB2	2.02	0.60
1:H:82:LYS:NZ	1:H:403:ASN:HD22	1.99	0.60
1:H:109:ARG:NH1	1:H:370:TYR:CE1	2.69	0.60
1:H:180:VAL:HG13	1:H:184:ASP:CB	2.30	0.60
1:H:365:ARG:NH2	1:I:269:GLU:OE1	2.34	0.60
1:I:375:ILE:HG12	1:I:464:LEU:HD13	1.83	0.60
1:K:96:GLN:HA	1:K:382:THR:HA	1.83	0.60
1:L:21:VAL:HG13	1:L:390:TYR:OH	2.01	0.60
1:L:142:ASP:OD2	1:L:144:ARG:HG3	2.00	0.60
1:L:217:LYS:HG2	1:M:276:TYR:HA	1.83	0.60
1:N:240:GLU:HG3	1:N:243:GLY:H	1.66	0.60
1:A:82:LYS:NZ	1:A:82:LYS:CD	2.64	0.60
1:C:54:LYS:CB	1:C:57:ASN:HD22	2.14	0.60
1:C:79:ASP:HA	1:C:327:ASN:HD21	1.66	0.60
1:C:228:ILE:HD12	1:C:228:ILE:N	2.16	0.60
1:C:374:PHE:HB2	1:C:376:PHE:CE1	2.36	0.60
1:D:61:LEU:HG	1:D:62:VAL:HG23	1.83	0.60
1:D:176:THR:O	1:D:177:GLN:CD	2.44	0.60
1:H:137:ALA:O	1:H:138:ASN:C	2.44	0.60
1:I:193:THR:HG23	1:I:230:LYS:HD2	1.83	0.60
1:J:27:TYR:O	1:J:381:ILE:HG23	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:47:HIS:CE1	1:J:49:TYR:HD1	2.19	0.60
1:M:35:TYR:O	1:M:376:PHE:N	2.21	0.60
1:M:180:VAL:HG12	1:M:181:GLN:N	2.16	0.60
1:N:156:LEU:C	1:N:156:LEU:HD12	2.26	0.60
1:A:280:SER:O	1:A:281:GLY:C	2.45	0.60
1:A:302:SER:HB2	1:B:253:GLU:N	2.16	0.60
1:B:280:SER:O	1:B:280:SER:OG	2.19	0.60
1:B:391:ILE:HG22	1:B:399:LEU:HD21	1.84	0.60
1:C:451:LEU:HA	1:C:454:LYS:CG	2.32	0.60
1:D:465:GLY:O	1:D:467:LYS:N	2.34	0.60
1:F:171:LYS:HG3	1:F:187:PRO:HD2	1.82	0.60
1:G:42:LEU:HD13	1:G:447:TRP:CZ2	2.36	0.60
1:J:126:LEU:HB3	1:J:262:ASN:HB3	1.82	0.60
1:J:248:PHE:CZ	1:J:311:TYR:HB3	2.36	0.60
1:K:226:THR:CG2	1:L:275:LEU:HD22	2.30	0.60
1:N:24:THR:HG21	1:N:320:ASN:HA	1.82	0.60
1:B:77:LEU:HD22	1:B:455:PHE:HZ	1.62	0.60
1:B:458:ASP:OD1	1:B:461:GLN:HG3	2.01	0.60
1:C:348:ILE:CD1	1:C:348:ILE:CB	2.75	0.60
1:D:361:LYS:CD	1:D:361:LYS:CB	2.78	0.60
1:D:391:ILE:HG21	1:D:402:TRP:CZ3	2.36	0.60
1:E:302:SER:C	1:E:304:ALA:H	2.09	0.60
1:H:74:ARG:CG	1:H:330:PHE:HE2	2.15	0.60
1:I:21:VAL:CG1	1:I:390:TYR:OH	2.49	0.60
1:J:329:LEU:HD13	1:J:374:PHE:CE2	2.36	0.60
1:K:144:ARG:C	1:K:145:GLU:HG2	2.26	0.60
1:L:65:VAL:HA	1:L:69:GLN:NE2	2.17	0.60
1:O:246:LEU:CD2	1:O:246:LEU:N	2.60	0.60
1:B:234:TYR:O	1:B:237:MET:N	2.34	0.60
1:D:400:GLU:O	1:D:401:ASP:C	2.44	0.60
1:F:80:PRO:HB2	1:F:98:LEU:HB3	1.82	0.60
1:F:361:LYS:HA	1:G:266:THR:HG1	1.64	0.60
1:G:178:VAL:CG1	1:G:178:VAL:CA	2.77	0.60
1:H:272:PRO:HD2	1:H:275:LEU:CD1	2.31	0.60
1:I:274:ASP:N	1:I:274:ASP:OD1	2.34	0.60
1:J:167:GLU:HG2	1:J:231:TYR:O	2.01	0.60
1:K:266:THR:OG1	1:O:361:LYS:HA	2.00	0.60
1:L:305:GLN:HE22	1:L:337:THR:HG21	1.67	0.60
1:N:91:TYR:CD1	1:N:98:LEU:HD21	2.37	0.60
1:N:97:ARG:HA	1:N:97:ARG:NH1	2.16	0.60
1:N:459:LEU:C	1:N:461:GLN:H	2.10	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:458:ASP:OD2	1:O:458:ASP:N	2.34	0.60
1:A:439:ASP:OD2	1:A:440:PRO:HD2	2.02	0.60
1:B:363:TYR:CG	1:C:185:CYS:HB2	2.36	0.60
1:C:440:PRO:C	1:C:443:LYS:NZ	2.60	0.60
1:D:345:CYS:SG	1:E:216:ASN:CB	2.89	0.60
1:D:361:LYS:HA	1:E:266:THR:HG1	1.66	0.60
1:F:257:VAL:HG21	1:J:150:ASP:CG	2.26	0.60
1:G:120:HIS:NE2	1:G:218:SER:CB	2.63	0.60
1:I:163:PRO:N	1:I:330:PHE:HD1	1.99	0.60
1:I:356:LYS:NZ	1:I:356:LYS:CD	2.65	0.60
1:J:160:GLY:HA3	1:J:245:SER:O	2.01	0.60
1:J:216:ASN:OD1	1:J:218:SER:N	2.34	0.60
1:M:112:PRO:HB3	1:N:231:TYR:CG	2.37	0.60
1:N:170:GLY:O	1:N:188:LEU:HA	2.01	0.60
1:O:317:GLN:C	1:O:317:GLN:NE2	2.59	0.60
1:A:46:GLY:HA3	1:A:65:VAL:CG2	2.31	0.60
1:B:97:ARG:HG3	1:B:383:LEU:CD1	2.31	0.60
1:C:81:ASN:ND2	1:C:402:TRP:CD1	2.70	0.60
1:D:121:PRO:HD3	1:D:222:LEU:HD13	1.84	0.60
1:E:219:GLU:HB3	1:E:263:ARG:CZ	2.32	0.60
1:F:172:GLY:O	1:F:173:SER:O	2.19	0.60
1:G:103:VAL:HG22	1:G:375:ILE:O	2.02	0.60
1:G:399:LEU:HA	1:G:402:TRP:HE3	1.66	0.60
1:H:302:SER:CB	1:I:253:GLU:H	2.15	0.60
1:L:139:ALA:HB1	1:L:143:ASN:CG	2.26	0.60
1:M:122:LEU:HD13	1:M:144:ARG:NH2	2.17	0.60
1:M:178:VAL:CG1	1:M:178:VAL:HB	2.17	0.60
1:N:302:SER:C	1:N:304:ALA:H	2.10	0.60
1:O:103:VAL:HA	1:O:313:LEU:HB2	1.83	0.60
1:A:178:VAL:C	1:A:180:VAL:H	2.10	0.60
1:B:105:VAL:HG11	1:B:159:ILE:HD11	1.84	0.60
1:B:142:ASP:CG	1:C:283:THR:HG1	2.08	0.60
1:C:247:PHE:HD1	1:C:248:PHE:N	2.00	0.60
1:D:121:PRO:O	1:D:122:LEU:HD23	2.01	0.60
1:E:139:ALA:O	1:E:140:GLY:O	2.20	0.60
1:F:50:PHE:CD1	1:F:50:PHE:O	2.55	0.60
1:F:105:VAL:HG11	1:F:159:ILE:HD11	1.83	0.60
1:I:237:MET:HB3	1:I:246:LEU:HD22	1.82	0.60
1:J:98:LEU:HD23	1:J:379:CYS:O	2.02	0.60
1:L:320:ASN:OD1	1:L:322:GLY:N	2.35	0.60
1:O:235:ILE:CD1	1:O:235:ILE:HG23	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:PRO:O	1:E:348:ILE:HD12	2.02	0.59
1:A:255:MET:HG2	1:A:256:PHE:CA	2.27	0.59
1:A:342:MET:HE1	1:B:169:TRP:CD1	2.37	0.59
1:A:345:CYS:HB2	1:A:361:LYS:O	2.02	0.59
1:B:117:ILE:O	1:B:117:ILE:HG23	2.02	0.59
1:B:391:ILE:HG22	1:B:399:LEU:HG	1.83	0.59
1:F:71:ARG:HB3	1:F:73:PHE:CE1	2.37	0.59
1:F:121:PRO:HD3	1:F:222:LEU:HD22	1.84	0.59
1:F:167:GLU:CB	1:F:190:LEU:HD11	2.15	0.59
1:F:219:GLU:C	1:F:220:VAL:HG13	2.27	0.59
1:I:176:THR:O	1:I:176:THR:HG22	2.02	0.59
1:I:234:TYR:O	1:I:237:MET:N	2.35	0.59
1:J:246:LEU:CD2	1:J:246:LEU:N	2.61	0.59
1:J:397:THR:C	1:J:401:ASP:OD2	2.45	0.59
1:K:336:THR:O	1:K:338:ARG:N	2.35	0.59
1:A:42:LEU:HD12	1:A:73:PHE:HE2	1.67	0.59
1:A:42:LEU:HD13	1:A:447:TRP:CE2	2.37	0.59
1:A:57:ASN:HD21	1:A:59:LYS:HB2	1.65	0.59
1:C:361:LYS:HA	1:D:266:THR:HG1	1.67	0.59
1:D:57:ASN:HD21	1:D:59:LYS:CB	2.16	0.59
1:D:237:MET:HB3	1:D:246:LEU:CD2	2.32	0.59
1:D:384:THR:OG1	1:D:385:ALA:N	2.32	0.59
1:E:27:TYR:O	1:E:381:ILE:HG23	2.02	0.59
1:E:220:VAL:HB	1:E:224:ILE:CD1	2.32	0.59
1:F:49:TYR:HA	1:F:223:ASP:HB3	1.84	0.59
1:I:208:MET:HG2	1:I:210:PHE:CE2	2.37	0.59
1:I:355:TYR:CD1	1:J:144:ARG:HD3	2.37	0.59
1:K:149:MET:CE	1:K:295:PRO:HD2	2.31	0.59
1:L:99:VAL:HG11	1:L:323:ILE:HG22	1.84	0.59
1:N:167:GLU:HG2	1:N:231:TYR:O	2.02	0.59
1:O:280:SER:C	1:O:284:ALA:HB2	2.26	0.59
1:A:342:MET:HB2	1:B:208:MET:HE1	1.83	0.59
1:B:72:VAL:HG22	1:B:332:THR:CG2	2.32	0.59
1:D:124:ASN:OD1	1:D:264:ALA:N	2.33	0.59
1:G:29:ALA:HB3	1:G:380:LYS:HG3	1.83	0.59
1:G:234:TYR:O	1:G:235:ILE:C	2.41	0.59
1:G:375:ILE:HG21	1:G:468:PHE:CD2	2.37	0.59
1:I:174:PRO:CD	1:I:187:PRO:HG2	2.32	0.59
1:I:223:ASP:OD1	1:I:224:ILE:HG12	2.02	0.59
1:K:21:VAL:C	1:K:22:VAL:HG13	2.27	0.59
1:K:323:ILE:HG21	1:K:325:TRP:CZ2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:98:LEU:HD22	1:M:379:CYS:O	2.02	0.59
1:M:112:PRO:HB3	1:N:231:TYR:CD1	2.37	0.59
1:N:66:SER:HA	1:N:366:HIS:ND1	2.17	0.59
1:O:135:TYR:HE2	1:O:287:ALA:HB2	1.68	0.59
1:D:156:LEU:HG	1:D:334:VAL:HB	1.84	0.59
1:D:348:ILE:HD12	1:E:182:PRO:O	2.01	0.59
1:E:68:LEU:O	1:E:201:VAL:HG13	2.01	0.59
1:E:300:VAL:HG23	1:E:300:VAL:O	2.01	0.59
1:G:54:LYS:HA	1:G:54:LYS:HZ3	1.67	0.59
1:G:395:ASN:C	1:G:395:ASN:HD22	2.09	0.59
1:H:55:PRO:HG2	1:H:56:ASN:ND2	2.16	0.59
1:H:344:LEU:HD13	1:I:213:LEU:HD12	1.82	0.59
1:J:157:CYS:HB2	1:J:307:PHE:HE2	1.67	0.59
1:J:463:PRO:HB3	1:J:466:ARG:HH21	1.67	0.59
1:M:98:LEU:CD1	1:M:98:LEU:CB	2.75	0.59
1:M:263:ARG:HD3	1:M:292:PHE:CD2	2.38	0.59
1:N:79:ASP:OD1	1:N:80:PRO:HD2	2.03	0.59
1:A:397:THR:O	1:A:398:ILE:C	2.45	0.59
1:D:54:LYS:HB3	1:D:57:ASN:CB	2.29	0.59
1:D:115:VAL:HG22	1:E:255:MET:SD	2.42	0.59
1:D:361:LYS:HG2	1:E:268:GLY:HA2	1.85	0.59
1:E:24:THR:HA	1:E:27:TYR:CE2	2.37	0.59
1:E:381:ILE:O	1:E:383:LEU:HD12	2.02	0.59
1:F:117:ILE:CG2	1:F:117:ILE:H	2.13	0.59
1:F:160:GLY:HA3	1:F:245:SER:O	2.02	0.59
1:F:250:LEU:HD12	1:F:250:LEU:H	1.66	0.59
1:F:278:LYS:HB2	1:I:353:THR:O	2.02	0.59
1:G:214:GLN:CD	1:G:219:GLU:HG3	2.27	0.59
1:H:219:GLU:C	1:H:220:VAL:HG13	2.27	0.59
1:I:105:VAL:HG22	1:I:374:PHE:CD2	2.38	0.59
1:I:163:PRO:CA	1:I:330:PHE:CD1	2.86	0.59
1:J:151:TYR:OH	1:J:221:PRO:HB2	2.02	0.59
1:J:260:LEU:N	1:J:260:LEU:CD1	2.61	0.59
1:J:300:VAL:HG11	1:J:337:THR:HA	1.84	0.59
1:L:55:PRO:HG2	1:L:56:ASN:ND2	2.17	0.59
1:L:280:SER:O	1:L:280:SER:OG	2.20	0.59
1:B:391:ILE:CG2	1:B:399:LEU:HD21	2.33	0.59
1:G:210:PHE:O	1:G:214:GLN:HB2	2.03	0.59
1:H:75:ILE:CG2	1:H:451:LEU:HD12	2.28	0.59
1:H:466:ARG:HD2	1:I:317:GLN:O	2.01	0.59
1:L:160:GLY:HA3	1:L:245:SER:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:247:PHE:HD1	1:L:248:PHE:N	1.99	0.59
1:L:378:LEU:HD12	1:L:379:CYS:N	2.17	0.59
1:N:188:LEU:CD1	1:N:213:LEU:HD11	2.33	0.59
1:A:77:LEU:HD11	1:A:376:PHE:CE2	2.38	0.59
1:A:216:ASN:OD1	1:A:218:SER:N	2.36	0.59
1:E:178:VAL:CG1	1:E:178:VAL:CA	2.78	0.59
1:F:52:ILE:N	1:F:52:ILE:CD1	2.64	0.59
1:F:107:VAL:HG23	1:F:311:TYR:CE1	2.34	0.59
1:F:149:MET:CE	1:F:294:THR:HG22	2.28	0.59
1:G:57:ASN:ND2	1:G:59:LYS:H	2.00	0.59
1:G:66:SER:N	1:G:69:GLN:NE2	2.50	0.59
1:H:28:VAL:HG12	1:H:29:ALA:H	1.65	0.59
1:H:325:TRP:CE2	1:H:394:MET:HE1	2.37	0.59
1:I:82:LYS:NZ	1:I:403:ASN:HD22	2.00	0.59
1:J:397:THR:HB	1:J:401:ASP:OD2	2.02	0.59
1:K:90:PHE:O	1:K:380:LYS:NZ	2.35	0.59
1:K:344:LEU:CD1	1:L:185:CYS:SG	2.91	0.59
1:L:111:GLN:HG2	1:L:369:GLU:HB3	1.85	0.59
1:L:120:HIS:NE2	1:L:218:SER:HB3	2.18	0.59
1:N:66:SER:N	1:N:69:GLN:NE2	2.39	0.59
1:A:399:LEU:HA	1:A:402:TRP:HE3	1.66	0.59
1:B:45:VAL:HA	1:B:366:HIS:O	2.03	0.59
1:C:49:TYR:HE1	1:C:364:LEU:HD13	1.68	0.59
1:D:223:ASP:OD1	1:D:224:ILE:N	2.35	0.59
1:E:205:PHE:CD1	1:E:220:VAL:HG12	2.38	0.59
1:F:96:GLN:HB3	1:F:382:THR:HA	1.84	0.59
1:F:125:LYS:HD2	1:F:147:ILE:HD11	1.84	0.59
1:G:98:LEU:CD1	1:G:98:LEU:CB	2.76	0.59
1:G:391:ILE:HG21	1:G:402:TRP:CZ3	2.38	0.59
1:H:174:PRO:HG3	1:H:187:PRO:HG2	1.84	0.59
1:H:248:PHE:CZ	1:H:311:TYR:HB3	2.37	0.59
1:H:259:HIS:HB2	1:H:294:THR:OG1	2.02	0.59
1:H:325:TRP:CZ2	1:H:394:MET:HE1	2.37	0.59
1:K:391:ILE:HG21	1:K:402:TRP:CZ3	2.37	0.59
1:L:237:MET:HB3	1:L:246:LEU:HD22	1.83	0.59
1:M:108:GLY:C	1:M:109:ARG:HG2	2.27	0.59
1:M:151:TYR:O	1:M:152:LYS:C	2.41	0.59
1:M:323:ILE:CD1	1:M:323:ILE:HA	2.31	0.59
1:N:61:LEU:CD1	1:N:61:LEU:HG	2.17	0.59
1:N:255:MET:HG2	1:N:256:PHE:H	1.67	0.59
1:B:152:LYS:HE3	1:B:154:THR:OG1	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:70:TYR:CE1	1:C:201:VAL:HA	2.38	0.59
1:C:373:GLN:C	1:C:374:PHE:CD1	2.81	0.59
1:C:374:PHE:C	1:C:375:ILE:HG12	2.28	0.59
1:E:149:MET:HE2	1:E:205:PHE:CE1	2.38	0.59
1:F:129:THR:HB	1:J:148:SER:OG	2.03	0.59
1:F:257:VAL:HG21	1:J:150:ASP:CB	2.33	0.59
1:I:49:TYR:CE2	1:I:118:SER:HA	2.37	0.59
1:I:384:THR:HG23	1:I:387:VAL:CG2	2.33	0.59
1:J:262:ASN:HD22	1:J:263:ARG:N	1.99	0.59
1:K:391:ILE:HG21	1:K:402:TRP:HZ3	1.68	0.59
1:L:101:ALA:HA	1:L:322:GLY:O	2.02	0.59
1:L:162:LYS:C	1:L:330:PHE:HD1	2.11	0.59
1:L:470:LEU:O	1:L:470:LEU:CD2	2.50	0.59
1:M:57:ASN:HD21	1:M:59:LYS:H	1.49	0.59
1:M:302:SER:C	1:M:304:ALA:H	2.11	0.59
1:N:237:MET:HB3	1:N:246:LEU:HD22	1.85	0.59
1:O:23:SER:OG	1:O:25:ASP:HB2	2.03	0.59
1:O:378:LEU:HD12	1:O:379:CYS:N	2.18	0.59
1:A:155:GLN:OE1	1:A:305:GLN:HA	2.03	0.59
1:A:384:THR:H	1:A:387:VAL:HB	1.68	0.59
1:B:357:ASN:H	1:C:141:VAL:HG13	1.67	0.59
1:C:98:LEU:HD22	1:C:379:CYS:O	2.03	0.59
1:C:110:GLY:O	1:C:111:GLN:NE2	2.35	0.59
1:E:162:LYS:C	1:E:330:PHE:HD1	2.11	0.59
1:G:98:LEU:HD22	1:G:379:CYS:O	2.03	0.59
1:H:92:ASN:ND2	1:H:95:THR:H	2.00	0.59
1:K:113:LEU:HB2	1:L:253:GLU:OE1	2.03	0.59
1:K:117:ILE:HG21	1:L:293:PRO:HD3	1.84	0.59
1:L:316:ALA:HB3	1:L:321:ASN:OD1	2.03	0.59
1:M:66:SER:HA	1:M:366:HIS:ND1	2.18	0.59
1:M:71:ARG:HH12	1:M:198:GLY:H	1.49	0.59
1:M:113:LEU:N	1:M:113:LEU:CD1	2.66	0.59
1:N:317:GLN:NE2	1:N:317:GLN:C	2.60	0.59
1:C:358:THR:HA	1:D:266:THR:HG23	1.85	0.58
1:D:98:LEU:CD1	1:D:378:LEU:HD11	2.13	0.58
1:E:234:TYR:CD1	1:E:251:ARG:NH2	2.70	0.58
1:E:399:LEU:O	1:E:402:TRP:HB2	2.03	0.58
1:F:50:PHE:CD1	1:F:50:PHE:C	2.80	0.58
1:G:163:PRO:N	1:G:330:PHE:CD1	2.71	0.58
1:G:172:GLY:O	1:G:173:SER:O	2.21	0.58
1:G:234:TYR:CD1	1:G:251:ARG:NH2	2.71	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:154:THR:H	1:H:336:THR:HG21	1.68	0.58
1:H:176:THR:O	1:H:177:GLN:CG	2.51	0.58
1:H:178:VAL:CG1	1:H:178:VAL:HB	2.21	0.58
1:H:200:MET:HB2	1:H:228:ILE:O	2.03	0.58
1:I:28:VAL:HA	1:I:381:ILE:HG12	1.83	0.58
1:J:153:GLN:HE22	1:J:300:VAL:HA	1.67	0.58
1:J:183:GLY:O	1:J:185:CYS:N	2.36	0.58
1:L:80:PRO:HG2	1:L:81:ASN:H	1.68	0.58
1:L:468:PHE:O	1:L:468:PHE:CD1	2.56	0.58
1:N:49:TYR:CE2	1:N:118:SER:HA	2.36	0.58
1:O:129:THR:OG1	1:O:260:LEU:O	2.19	0.58
1:A:156:LEU:HD12	1:A:157:CYS:N	2.18	0.58
1:B:74:ARG:NH2	1:B:441:LEU:HD12	2.17	0.58
1:B:281:GLY:O	1:B:282:SER:C	2.47	0.58
1:C:274:ASP:OD2	1:C:275:LEU:HD23	2.03	0.58
1:C:471:GLN:CD	1:C:472:LEU:N	2.62	0.58
1:D:53:LYS:CG	1:D:53:LYS:CA	2.77	0.58
1:G:71:ARG:NH1	1:G:197:ASP:OD1	2.36	0.58
1:H:466:ARG:HD3	1:I:319:HIS:CE1	2.38	0.58
1:I:54:LYS:HE3	1:I:55:PRO:HD2	1.85	0.58
1:I:250:LEU:HD12	1:I:250:LEU:N	2.18	0.58
1:J:44:ALA:C	1:J:45:VAL:HG23	2.28	0.58
1:J:50:PHE:HB2	1:J:51:PRO:CD	2.31	0.58
1:J:65:VAL:HA	1:J:69:GLN:NE2	2.16	0.58
1:L:309:LYS:CD	1:L:309:LYS:NZ	2.64	0.58
1:L:323:ILE:N	1:L:323:ILE:HD13	2.17	0.58
1:O:274:ASP:OD1	1:O:274:ASP:N	2.35	0.58
1:A:374:PHE:HB3	1:A:376:PHE:CE1	2.38	0.58
1:B:312:TRP:CH2	1:B:468:PHE:HB2	2.38	0.58
1:C:196:GLN:N	1:C:199:ASP:OD2	2.35	0.58
1:D:459:LEU:HB3	1:D:465:GLY:HA3	1.84	0.58
1:E:52:ILE:HD12	1:E:52:ILE:N	2.18	0.58
1:E:465:GLY:O	1:E:466:ARG:C	2.45	0.58
1:F:391:ILE:HG21	1:F:402:TRP:HZ3	1.68	0.58
1:F:461:GLN:HE22	1:G:21:VAL:HB	1.67	0.58
1:G:29:ALA:O	1:G:379:CYS:HB3	2.02	0.58
1:H:358:THR:HA	1:I:266:THR:CG2	2.32	0.58
1:I:24:THR:HA	1:I:27:TYR:CE2	2.38	0.58
1:K:461:GLN:HE22	1:L:21:VAL:H	1.50	0.58
1:L:262:ASN:HD22	1:L:263:ARG:N	2.01	0.58
1:A:190:LEU:HD12	1:A:191:ILE:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:345:CYS:HG	1:B:216:ASN:HB2	1.68	0.58
1:B:96:GLN:HA	1:B:382:THR:HA	1.84	0.58
1:B:364:LEU:O	1:B:365:ARG:HD3	2.03	0.58
1:D:75:ILE:N	1:D:75:ILE:HD12	2.17	0.58
1:E:167:GLU:HB2	1:E:190:LEU:HD11	1.84	0.58
1:F:94:ASP:C	1:F:95:THR:HG23	2.26	0.58
1:F:307:PHE:CE2	1:F:333:VAL:HG13	2.38	0.58
1:G:80:PRO:C	1:G:82:LYS:H	2.12	0.58
1:H:46:GLY:HA3	1:H:63:PRO:O	2.04	0.58
1:I:180:VAL:CG1	1:I:184:ASP:CB	2.79	0.58
1:J:223:ASP:OD1	1:J:224:ILE:HG12	2.04	0.58
1:M:214:GLN:OE1	1:M:219:GLU:HB2	2.03	0.58
1:N:30:ARG:HH11	1:N:377:GLN:NE2	2.00	0.58
1:N:176:THR:O	1:N:177:GLN:HG3	2.03	0.58
1:N:220:VAL:O	1:N:221:PRO:O	2.22	0.58
1:O:183:GLY:O	1:O:185:CYS:N	2.37	0.58
1:O:344:LEU:O	1:O:363:TYR:N	2.34	0.58
1:A:27:TYR:CE2	1:A:390:TYR:CE2	2.91	0.58
1:A:155:GLN:HB3	1:A:252:ARG:HB3	1.85	0.58
1:C:281:GLY:O	1:C:284:ALA:N	2.34	0.58
1:D:68:LEU:HD23	1:D:201:VAL:HG21	1.85	0.58
1:E:21:VAL:HG13	1:E:390:TYR:OH	2.04	0.58
1:G:149:MET:CE	1:G:205:PHE:CE1	2.86	0.58
1:H:301:THR:CG2	1:H:301:THR:CA	2.79	0.58
1:I:384:THR:O	1:I:388:MET:HB3	2.03	0.58
1:L:123:LEU:CD2	1:L:147:ILE:HB	2.23	0.58
1:L:272:PRO:HD2	1:L:275:LEU:HG	1.85	0.58
1:M:30:ARG:HH11	1:M:377:GLN:NE2	2.02	0.58
1:M:162:LYS:O	1:M:330:PHE:HD1	1.85	0.58
1:M:171:LYS:HA	1:M:187:PRO:O	2.04	0.58
1:M:358:THR:HA	1:N:266:THR:HG22	1.85	0.58
1:M:373:GLN:C	1:M:464:LEU:HD12	2.28	0.58
1:A:151:TYR:CG	1:A:203:THR:HB	2.39	0.58
1:A:169:TRP:H	1:A:208:MET:HA	1.68	0.58
1:A:390:TYR:O	1:A:393:SER:N	2.36	0.58
1:C:344:LEU:CD1	1:D:213:LEU:HD12	2.32	0.58
1:D:120:HIS:ND1	1:D:122:LEU:N	2.47	0.58
1:D:122:LEU:HD11	1:E:286:LEU:CD1	2.34	0.58
1:D:152:LYS:NZ	1:D:152:LYS:CD	2.64	0.58
1:E:391:ILE:HG21	1:E:402:TRP:HZ3	1.68	0.58
1:F:144:ARG:C	1:F:145:GLU:HG2	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:344:LEU:CD1	1:G:185:CYS:SG	2.91	0.58
1:G:471:GLN:OE1	1:G:472:LEU:N	2.36	0.58
1:H:162:LYS:HB3	1:H:163:PRO:HD2	1.86	0.58
1:H:272:PRO:HD2	1:H:275:LEU:HD12	1.86	0.58
1:H:343:SER:HB3	1:H:364:LEU:HD23	1.86	0.58
1:I:117:ILE:HD11	1:J:260:LEU:HB3	1.86	0.58
1:I:465:GLY:O	1:I:466:ARG:C	2.45	0.58
1:J:211:THR:O	1:J:211:THR:HG22	2.03	0.58
1:K:57:ASN:HD21	1:K:59:LYS:CB	2.16	0.58
1:L:80:PRO:C	1:L:82:LYS:H	2.10	0.58
1:O:54:LYS:CG	1:O:55:PRO:HD2	2.34	0.58
1:A:104:GLY:HA3	1:A:375:ILE:HB	1.86	0.58
1:B:120:HIS:ND1	1:B:122:LEU:N	2.49	0.58
1:B:156:LEU:HG	1:B:334:VAL:HB	1.86	0.58
1:C:452:LYS:NZ	1:C:452:LYS:CD	2.63	0.58
1:D:49:TYR:HE2	1:D:118:SER:HA	1.67	0.58
1:G:443:LYS:HD3	1:G:443:LYS:N	2.18	0.58
1:H:34:TYR:CE2	1:H:377:GLN:HG3	2.38	0.58
1:K:153:GLN:NE2	1:K:300:VAL:CG1	2.67	0.58
1:K:302:SER:HB2	1:L:253:GLU:H	1.69	0.58
1:K:373:GLN:HB2	1:K:464:LEU:HD12	1.84	0.58
1:M:188:LEU:CD1	1:M:213:LEU:HD11	2.34	0.58
1:N:72:VAL:HG22	1:N:332:THR:CG2	2.34	0.58
1:N:398:ILE:HG22	1:N:402:TRP:CZ3	2.39	0.58
1:O:158:LEU:HD23	1:O:249:TYR:HB2	1.85	0.58
1:O:159:ILE:HG22	1:O:160:GLY:N	2.18	0.58
1:A:46:GLY:O	1:A:365:ARG:HD3	2.04	0.58
1:A:317:GLN:O	1:E:466:ARG:HD2	2.03	0.58
1:A:463:PRO:HA	1:A:466:ARG:HE	1.69	0.58
1:B:23:SER:HG	1:B:25:ASP:HB2	1.67	0.58
1:B:79:ASP:O	1:B:80:PRO:C	2.47	0.58
1:D:76:HIS:HB2	1:D:450:ASN:HA	1.86	0.58
1:D:219:GLU:C	1:D:220:VAL:HG13	2.29	0.58
1:E:24:THR:CG2	1:E:320:ASN:HA	2.34	0.58
1:E:96:GLN:HE21	1:E:382:THR:CG2	2.17	0.58
1:E:157:CYS:HB2	1:E:307:PHE:CE2	2.38	0.58
1:F:231:TYR:CG	1:J:112:PRO:HD3	2.38	0.58
1:H:250:LEU:HD12	1:H:250:LEU:H	1.68	0.58
1:I:75:ILE:HD12	1:I:75:ILE:H	1.68	0.58
1:I:120:HIS:NE2	1:I:218:SER:HB3	2.18	0.58
1:I:122:LEU:HD13	1:I:144:ARG:NH2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:363:TYR:CD2	1:J:185:CYS:HB2	2.39	0.58
1:K:250:LEU:HD13	1:K:306:ILE:CG2	2.33	0.58
1:L:391:ILE:O	1:L:391:ILE:HG22	2.02	0.58
1:M:34:TYR:HE2	1:M:377:GLN:HB2	1.60	0.58
1:N:344:LEU:HD11	1:O:185:CYS:SG	2.44	0.58
1:C:157:CYS:HB2	1:C:307:PHE:HE2	1.69	0.58
1:C:180:VAL:CG1	1:C:184:ASP:HB3	2.33	0.58
1:C:451:LEU:O	1:C:454:LYS:HB2	2.04	0.58
1:E:68:LEU:O	1:E:201:VAL:HG22	2.04	0.58
1:F:364:LEU:O	1:F:365:ARG:HD3	2.04	0.58
1:G:103:VAL:O	1:G:313:LEU:N	2.28	0.58
1:G:168:HIS:H	1:G:190:LEU:HD11	1.68	0.58
1:G:387:VAL:HG12	1:G:388:MET:N	2.19	0.58
1:H:217:LYS:NZ	1:H:217:LYS:CD	2.67	0.58
1:I:183:GLY:O	1:I:185:CYS:N	2.37	0.58
1:I:358:THR:HA	1:J:266:THR:CG2	2.33	0.58
1:J:341:ASN:HB3	1:J:366:HIS:HB2	1.85	0.58
1:K:33:ILE:HB	1:K:378:LEU:HB3	1.85	0.58
1:K:144:ARG:HD3	1:O:355:TYR:CE1	2.39	0.58
1:O:99:VAL:HG11	1:O:323:ILE:HG22	1.85	0.58
1:A:345:CYS:O	1:B:215:ALA:N	2.29	0.58
1:A:363:TYR:CG	1:B:185:CYS:HB2	2.39	0.58
1:A:440:PRO:HA	1:A:443:LYS:HZ1	1.68	0.58
1:B:117:ILE:HD12	1:C:293:PRO:HB3	1.84	0.58
1:B:123:LEU:CD2	1:B:123:LEU:CD1	2.73	0.58
1:B:344:LEU:HD23	1:B:344:LEU:H	1.69	0.58
1:C:24:THR:HG23	1:C:320:ASN:HA	1.84	0.58
1:C:440:PRO:HA	1:C:443:LYS:NZ	2.19	0.58
1:E:180:VAL:CG1	1:E:184:ASP:CB	2.82	0.58
1:F:117:ILE:CG1	1:F:149:MET:O	2.52	0.58
1:H:105:VAL:HG22	1:H:374:PHE:CD2	2.38	0.58
1:J:163:PRO:N	1:J:330:PHE:HD1	2.01	0.58
1:K:97:ARG:HG3	1:K:383:LEU:CD1	2.34	0.58
1:K:98:LEU:HD22	1:K:378:LEU:HD11	1.86	0.58
1:K:375:ILE:HG13	1:K:464:LEU:HD22	1.86	0.58
1:L:61:LEU:CD1	1:L:61:LEU:CD2	2.79	0.58
1:L:139:ALA:HB1	1:L:143:ASN:ND2	2.19	0.58
1:N:281:GLY:O	1:N:282:SER:C	2.47	0.58
1:A:156:LEU:C	1:A:156:LEU:CD1	2.72	0.57
1:C:54:LYS:HG2	1:C:57:ASN:HB3	1.86	0.57
1:C:157:CYS:O	1:C:158:LEU:HD23	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:440:PRO:HA	1:C:443:LYS:HZ1	1.68	0.57
1:F:151:TYR:OH	1:F:221:PRO:HB2	2.04	0.57
1:F:157:CYS:HB2	1:F:307:PHE:HE2	1.68	0.57
1:F:358:THR:HA	1:G:266:THR:CG2	2.33	0.57
1:F:363:TYR:CE1	1:G:185:CYS:HB2	2.39	0.57
1:G:194:VAL:HG21	1:G:444:TYR:CE2	2.39	0.57
1:G:383:LEU:HD22	1:G:388:MET:HE3	1.86	0.57
1:H:180:VAL:HG12	1:H:184:ASP:HB2	1.86	0.57
1:I:149:MET:HE3	1:I:294:THR:HG22	1.86	0.57
1:I:361:LYS:HA	1:J:266:THR:OG1	2.04	0.57
1:J:190:LEU:HD12	1:J:191:ILE:H	1.68	0.57
1:K:174:PRO:HG3	1:K:187:PRO:HG2	1.86	0.57
1:K:391:ILE:HD13	1:K:402:TRP:CH2	2.38	0.57
1:L:257:VAL:HG12	1:L:293:PRO:HB2	1.86	0.57
1:M:188:LEU:HD22	1:M:188:LEU:N	2.18	0.57
1:M:247:PHE:HD1	1:M:248:PHE:N	2.00	0.57
1:O:34:TYR:HE2	1:O:377:GLN:HB2	1.67	0.57
1:O:151:TYR:CG	1:O:203:THR:HB	2.39	0.57
1:O:398:ILE:CD1	1:O:398:ILE:CB	2.78	0.57
1:A:92:ASN:ND2	1:A:95:THR:N	2.49	0.57
1:B:66:SER:N	1:B:69:GLN:NE2	2.50	0.57
1:B:274:ASP:OD1	1:B:274:ASP:N	2.36	0.57
1:C:320:ASN:OD1	1:C:321:ASN:N	2.37	0.57
1:D:68:LEU:HD23	1:D:201:VAL:CG2	2.34	0.57
1:D:365:ARG:NH2	1:E:269:GLU:OE1	2.37	0.57
1:E:333:VAL:HG12	1:E:334:VAL:N	2.20	0.57
1:F:31:THR:OG1	1:F:33:ILE:HB	2.04	0.57
1:F:35:TYR:HD2	1:F:456:SER:C	2.12	0.57
1:F:253:GLU:HG3	1:J:113:LEU:HD22	1.86	0.57
1:F:439:ASP:HB3	1:F:442:LYS:HE3	1.85	0.57
1:G:150:ASP:OD2	1:G:150:ASP:N	2.36	0.57
1:G:259:HIS:CE1	1:H:130:GLU:HG3	2.38	0.57
1:G:302:SER:C	1:G:304:ALA:H	2.09	0.57
1:H:46:GLY:N	1:H:65:VAL:HB	2.19	0.57
1:I:22:VAL:HG23	1:I:22:VAL:O	2.02	0.57
1:I:104:GLY:HA3	1:I:375:ILE:HB	1.86	0.57
1:L:464:LEU:CD2	1:L:464:LEU:O	2.52	0.57
1:N:149:MET:CE	1:N:205:PHE:HE1	2.18	0.57
1:O:64:LYS:HZ3	1:O:200:MET:HE2	1.69	0.57
1:O:68:LEU:HD22	1:O:203:THR:HG22	1.85	0.57
1:O:163:PRO:CA	1:O:330:PHE:CD1	2.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:71:ARG:HB3	1:A:73:PHE:CE1	2.38	0.57
1:A:124:ASN:OD1	1:A:264:ALA:N	2.37	0.57
1:A:246:LEU:H	1:A:246:LEU:CD2	2.16	0.57
1:A:355:TYR:O	1:A:356:LYS:CG	2.52	0.57
1:F:29:ALA:HB3	1:F:380:LYS:HG3	1.87	0.57
1:F:171:LYS:HA	1:F:187:PRO:O	2.02	0.57
1:F:391:ILE:HG21	1:F:402:TRP:CZ3	2.39	0.57
1:H:262:ASN:HD21	1:H:288:SER:HB3	1.68	0.57
1:H:361:LYS:CB	1:H:361:LYS:CD	2.82	0.57
1:I:156:LEU:HD12	1:I:156:LEU:C	2.29	0.57
1:I:166:GLY:H	1:I:195:ILE:HG13	1.69	0.57
1:J:157:CYS:HB2	1:J:307:PHE:CE2	2.38	0.57
1:J:201:VAL:O	1:J:229:CYS:SG	2.53	0.57
1:K:112:PRO:HD3	1:L:231:TYR:CG	2.39	0.57
1:L:70:TYR:CD2	1:L:195:ILE:HG21	2.40	0.57
1:L:80:PRO:HD3	1:L:100:TRP:CD1	2.39	0.57
1:L:155:GLN:O	1:L:252:ARG:N	2.37	0.57
1:L:352:GLU:HG2	1:L:356:LYS:HD2	1.85	0.57
1:M:97:ARG:NH1	1:M:97:ARG:HA	2.19	0.57
1:M:185:CYS:SG	1:M:186:PRO:CD	2.88	0.57
1:N:323:ILE:HD13	1:N:323:ILE:N	2.19	0.57
1:N:329:LEU:HD13	1:N:374:PHE:CE2	2.38	0.57
1:O:223:ASP:OD1	1:O:224:ILE:HG23	2.05	0.57
1:B:24:THR:C	1:B:26:GLU:H	2.11	0.57
1:B:241:PRO:O	1:B:243:GLY:N	2.38	0.57
1:C:66:SER:O	1:C:69:GLN:HG3	2.03	0.57
1:G:149:MET:HE3	1:G:295:PRO:HD2	1.86	0.57
1:G:166:GLY:O	1:G:192:ASN:HA	2.04	0.57
1:H:463:PRO:HB3	1:H:466:ARG:HH21	1.70	0.57
1:I:149:MET:CE	1:I:205:PHE:CE1	2.87	0.57
1:L:355:TYR:CE1	1:M:144:ARG:HD3	2.40	0.57
1:M:29:ALA:HB3	1:M:380:LYS:HG3	1.85	0.57
1:M:320:ASN:HD21	1:M:323:ILE:HB	1.68	0.57
1:N:61:LEU:CD1	1:N:61:LEU:CD2	2.79	0.57
1:A:64:LYS:CD	1:A:64:LYS:NZ	2.68	0.57
1:C:325:TRP:CZ2	1:C:394:MET:HE1	2.39	0.57
1:D:120:HIS:NE2	1:D:218:SER:CB	2.68	0.57
1:F:391:ILE:O	1:F:395:ASN:O	2.23	0.57
1:H:24:THR:OG1	1:H:25:ASP:N	2.38	0.57
1:H:218:SER:O	1:H:219:GLU:HG2	2.03	0.57
1:I:183:GLY:O	1:I:184:ASP:C	2.48	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:31:THR:OG1	1:J:378:LEU:O	2.18	0.57
1:J:320:ASN:ND2	1:J:325:TRP:NE1	2.53	0.57
1:L:165:ILE:CD1	1:L:165:ILE:CB	2.80	0.57
1:M:121:PRO:HG2	1:N:289:SER:HB2	1.85	0.57
1:O:124:ASN:OD1	1:O:264:ALA:N	2.35	0.57
1:A:98:LEU:HD13	1:A:378:LEU:HD11	1.86	0.57
1:A:107:VAL:HG11	1:A:333:VAL:HG21	1.87	0.57
1:A:467:LYS:O	1:A:470:LEU:N	2.37	0.57
1:B:176:THR:O	1:B:177:GLN:HG3	2.05	0.57
1:B:250:LEU:HD12	1:B:250:LEU:N	2.19	0.57
1:C:66:SER:HA	1:C:366:HIS:ND1	2.20	0.57
1:D:451:LEU:HD23	1:D:454:LYS:HG3	1.87	0.57
1:E:272:PRO:O	1:E:275:LEU:HG	2.04	0.57
1:F:117:ILE:CG2	1:F:117:ILE:HB	2.16	0.57
1:H:260:LEU:O	1:H:261:PHE:HD2	1.87	0.57
1:J:47:HIS:CG	1:J:48:PRO:HD2	2.40	0.57
1:J:242:TYR:HE2	1:J:394:MET:HB2	1.66	0.57
1:J:472:LEU:HD23	1:N:138:ASN:HD22	1.68	0.57
1:K:74:ARG:CG	1:K:330:PHE:HE2	2.18	0.57
1:K:81:ASN:ND2	1:K:402:TRP:HD1	2.00	0.57
1:K:226:THR:HG21	1:L:275:LEU:CD2	2.32	0.57
1:K:274:ASP:N	1:K:274:ASP:OD1	2.37	0.57
1:L:41:ARG:HH22	1:M:192:ASN:HD21	1.52	0.57
1:L:96:GLN:HA	1:L:382:THR:HA	1.85	0.57
1:L:252:ARG:HD2	1:L:306:ILE:HD11	1.87	0.57
1:L:345:CYS:SG	1:M:216:ASN:HB2	2.45	0.57
1:N:96:GLN:HE21	1:N:382:THR:HG22	1.70	0.57
1:A:55:PRO:HG2	1:A:56:ASN:ND2	2.19	0.57
1:B:81:ASN:ND2	1:B:402:TRP:CD1	2.73	0.57
1:B:97:ARG:HA	1:B:97:ARG:HH11	1.69	0.57
1:C:220:VAL:O	1:C:221:PRO:C	2.46	0.57
1:C:353:THR:O	1:E:278:LYS:HB2	2.04	0.57
1:D:456:SER:OG	1:D:458:ASP:OD2	2.23	0.57
1:F:185:CYS:SG	1:F:186:PRO:CD	2.93	0.57
1:F:255:MET:HG2	1:F:256:PHE:N	2.20	0.57
1:F:459:LEU:C	1:F:461:GLN:N	2.63	0.57
1:I:82:LYS:HZ3	1:I:403:ASN:HD22	1.53	0.57
1:J:274:ASP:OD1	1:J:274:ASP:N	2.37	0.57
1:M:49:TYR:HE2	1:M:118:SER:HA	1.68	0.57
1:M:49:TYR:HE1	1:M:364:LEU:HD13	1.69	0.57
1:M:156:LEU:C	1:M:156:LEU:CD1	2.75	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:146:CYS:O	1:O:129:THR:HG22	2.05	0.57
1:O:65:VAL:CA	1:O:69:GLN:NE2	2.62	0.57
1:O:126:LEU:HB3	1:O:262:ASN:HB3	1.86	0.57
1:A:183:GLY:O	1:A:185:CYS:N	2.38	0.57
1:A:242:TYR:CD2	1:A:394:MET:CG	2.84	0.57
1:B:24:THR:C	1:B:26:GLU:N	2.56	0.57
1:B:50:PHE:HB2	1:B:51:PRO:HD2	1.85	0.57
1:C:36:HIS:CG	1:C:462:PHE:CD1	2.92	0.57
1:D:241:PRO:HG2	1:D:242:TYR:H	1.70	0.57
1:D:344:LEU:N	1:D:344:LEU:HD23	2.20	0.57
1:F:459:LEU:C	1:F:461:GLN:H	2.13	0.57
1:G:196:GLN:N	1:G:199:ASP:OD2	2.37	0.57
1:G:372:LEU:HB3	1:G:374:PHE:HE1	1.68	0.57
1:H:117:ILE:HG13	1:H:149:MET:O	2.04	0.57
1:I:384:THR:HG23	1:I:387:VAL:HG21	1.87	0.57
1:I:399:LEU:HA	1:I:402:TRP:HE3	1.69	0.57
1:I:463:PRO:HA	1:I:466:ARG:HH21	1.69	0.57
1:J:281:GLY:O	1:J:284:ALA:N	2.29	0.57
1:L:121:PRO:HD3	1:L:222:LEU:HD13	1.87	0.57
1:M:106:GLU:HG3	1:M:309:LYS:C	2.30	0.57
1:N:300:VAL:HG11	1:N:337:THR:HA	1.86	0.57
1:O:176:THR:CG2	1:O:176:THR:CA	2.82	0.57
1:A:92:ASN:HD22	1:A:95:THR:H	1.50	0.57
1:B:61:LEU:CD1	1:B:61:LEU:HG	2.17	0.57
1:B:75:ILE:HG23	1:B:451:LEU:HD12	1.84	0.57
1:B:439:ASP:O	1:B:442:LYS:HB2	2.05	0.57
1:C:24:THR:HG21	1:C:320:ASN:HA	1.87	0.57
1:D:123:LEU:HD23	1:D:147:ILE:HB	1.87	0.57
1:D:380:LYS:CE	1:D:380:LYS:HG3	2.33	0.57
1:E:180:VAL:HG13	1:E:184:ASP:CB	2.34	0.57
1:F:77:LEU:HD22	1:F:455:PHE:CZ	2.40	0.57
1:F:156:LEU:C	1:F:156:LEU:HD12	2.29	0.57
1:F:465:GLY:O	1:F:466:ARG:C	2.48	0.57
1:G:54:LYS:HG3	1:G:55:PRO:CD	2.28	0.57
1:G:220:VAL:O	1:G:221:PRO:O	2.23	0.57
1:G:391:ILE:HG23	1:G:398:ILE:HG21	1.86	0.57
1:I:54:LYS:HA	1:I:54:LYS:NZ	2.20	0.57
1:L:22:VAL:HG23	1:L:22:VAL:O	2.05	0.57
1:N:259:HIS:CE1	1:O:130:GLU:CG	2.88	0.57
1:O:81:ASN:ND2	1:O:402:TRP:CD1	2.73	0.57
1:A:196:GLN:O	1:A:199:ASP:OD2	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:59:LYS:CE	1:C:59:LYS:CG	2.78	0.57
1:D:210:PHE:CD1	1:D:224:ILE:HB	2.40	0.57
1:E:470:LEU:O	1:E:470:LEU:CD2	2.52	0.57
1:G:115:VAL:CG2	1:H:257:VAL:HG13	2.35	0.57
1:H:28:VAL:CG1	1:H:29:ALA:N	2.66	0.57
1:H:217:LYS:C	1:H:218:SER:OG	2.47	0.57
1:I:113:LEU:HB2	1:J:253:GLU:OE1	2.04	0.57
1:K:21:VAL:HG12	1:K:22:VAL:N	2.19	0.57
1:L:54:LYS:HB2	1:L:57:ASN:HD22	1.70	0.57
1:L:96:GLN:HB3	1:L:382:THR:HG22	1.87	0.57
1:M:79:ASP:CG	1:M:81:ASN:HB2	2.27	0.57
1:M:96:GLN:HE21	1:M:382:THR:HG22	1.70	0.57
1:M:126:LEU:CD1	1:M:264:ALA:HB2	2.35	0.57
1:N:172:GLY:O	1:N:173:SER:O	2.22	0.57
1:O:49:TYR:HA	1:O:223:ASP:HB3	1.86	0.57
1:O:398:ILE:HG23	1:O:398:ILE:HD12	1.85	0.57
1:A:99:VAL:HG12	1:A:100:TRP:O	2.04	0.56
1:B:151:TYR:OH	1:B:221:PRO:HB2	2.05	0.56
1:D:97:ARG:HA	1:D:97:ARG:NH1	2.20	0.56
1:D:250:LEU:N	1:D:250:LEU:CD1	2.63	0.56
1:F:69:GLN:HA	1:F:199:ASP:O	2.05	0.56
1:G:20:ALA:CB	1:G:20:ALA:HA	2.20	0.56
1:G:70:TYR:CD2	1:G:195:ILE:HG21	2.40	0.56
1:I:88:THR:CG2	1:I:88:THR:CA	2.78	0.56
1:J:147:ILE:HG22	1:J:148:SER:N	2.18	0.56
1:K:167:GLU:OE1	1:K:190:LEU:HD21	2.04	0.56
1:L:363:TYR:CG	1:M:185:CYS:HB2	2.40	0.56
1:O:201:VAL:O	1:O:229:CYS:SG	2.61	0.56
1:A:271:VAL:HG13	1:A:275:LEU:HD12	1.86	0.56
1:A:272:PRO:HB2	1:A:275:LEU:HG	1.87	0.56
1:B:234:TYR:O	1:B:236:LYS:N	2.37	0.56
1:C:169:TRP:H	1:C:208:MET:HA	1.70	0.56
1:D:112:PRO:CD	1:E:231:TYR:CD2	2.74	0.56
1:D:457:ALA:O	1:D:459:LEU:CD2	2.52	0.56
1:E:188:LEU:CD1	1:E:213:LEU:HD11	2.35	0.56
1:F:51:PRO:C	1:F:52:ILE:HD12	2.30	0.56
1:F:54:LYS:HG2	1:F:57:ASN:HB3	1.87	0.56
1:F:80:PRO:HG2	1:F:98:LEU:O	2.05	0.56
1:F:188:LEU:CD1	1:F:213:LEU:HD11	2.35	0.56
1:F:255:MET:O	1:J:299:MET:HA	2.05	0.56
1:G:54:LYS:HG2	1:G:57:ASN:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:139:ALA:O	1:G:140:GLY:O	2.22	0.56
1:H:299:MET:HA	1:I:255:MET:O	2.04	0.56
1:I:355:TYR:HB3	1:J:142:ASP:OD1	2.05	0.56
1:K:66:SER:H	1:K:69:GLN:HE21	1.53	0.56
1:L:74:ARG:CB	1:L:330:PHE:HE2	2.19	0.56
1:M:52:ILE:HB	1:M:62:VAL:HB	1.86	0.56
1:N:121:PRO:HD3	1:N:222:LEU:HD13	1.87	0.56
1:O:49:TYR:HE2	1:O:118:SER:CA	2.16	0.56
1:B:76:HIS:HB2	1:B:449:VAL:O	2.05	0.56
1:D:54:LYS:CB	1:D:57:ASN:HD22	2.19	0.56
1:D:163:PRO:HB3	1:D:330:PHE:CE1	2.41	0.56
1:D:399:LEU:O	1:D:402:TRP:HB2	2.05	0.56
1:E:101:ALA:CA	1:E:322:GLY:O	2.43	0.56
1:F:125:LYS:NZ	1:G:132:ALA:O	2.38	0.56
1:F:155:GLN:HG3	1:F:307:PHE:HE1	1.70	0.56
1:G:103:VAL:CG2	1:G:375:ILE:O	2.53	0.56
1:G:169:TRP:H	1:G:208:MET:HA	1.70	0.56
1:G:178:VAL:O	1:G:178:VAL:HG12	2.05	0.56
1:G:306:ILE:HD13	1:G:306:ILE:N	2.20	0.56
1:G:320:ASN:OD1	1:G:321:ASN:N	2.38	0.56
1:H:361:LYS:CG	1:H:361:LYS:CA	2.78	0.56
1:I:27:TYR:CE2	1:I:390:TYR:CE2	2.94	0.56
1:I:344:LEU:CD2	1:I:365:ARG:HB2	2.35	0.56
1:K:75:ILE:HD12	1:K:75:ILE:N	2.19	0.56
1:K:81:ASN:HD21	1:K:402:TRP:NE1	2.03	0.56
1:K:141:VAL:HA	1:O:357:ASN:HB2	1.87	0.56
1:K:323:ILE:O	1:K:325:TRP:N	2.38	0.56
1:L:44:ALA:HB3	1:L:368:GLU:HB2	1.88	0.56
1:M:80:PRO:HD3	1:M:100:TRP:HD1	1.70	0.56
1:M:152:LYS:HE2	1:M:202:ASP:HB3	1.88	0.56
1:M:153:GLN:NE2	1:M:298:SER:O	2.39	0.56
1:M:159:ILE:HG22	1:M:247:PHE:CE1	2.41	0.56
1:M:399:LEU:HA	1:M:402:TRP:HE3	1.70	0.56
1:N:171:LYS:HA	1:N:187:PRO:O	2.06	0.56
1:N:196:GLN:N	1:N:199:ASP:OD2	2.38	0.56
1:O:105:VAL:HG22	1:O:374:PHE:CD2	2.40	0.56
1:A:237:MET:HB3	1:A:246:LEU:HD22	1.86	0.56
1:B:80:PRO:HG2	1:B:98:LEU:O	2.05	0.56
1:B:385:ALA:O	1:B:389:THR:HG23	2.05	0.56
1:D:42:LEU:HD13	1:D:73:PHE:HE2	1.70	0.56
1:G:112:PRO:CB	1:H:202:ASP:OD2	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:46:GLY:CA	1:H:65:VAL:HB	2.36	0.56
1:H:252:ARG:HD2	1:H:306:ILE:HD11	1.88	0.56
1:J:241:PRO:O	1:J:243:GLY:N	2.37	0.56
1:K:172:GLY:O	1:K:173:SER:C	2.48	0.56
1:M:451:LEU:HA	1:M:454:LYS:HG3	1.88	0.56
1:N:80:PRO:HG2	1:N:98:LEU:O	2.06	0.56
1:O:125:LYS:HG3	1:O:147:ILE:HD11	1.87	0.56
1:B:75:ILE:HD12	1:B:75:ILE:N	2.21	0.56
1:C:363:TYR:CD2	1:D:269:GLU:HG3	2.40	0.56
1:C:399:LEU:HA	1:C:402:TRP:HE3	1.70	0.56
1:D:77:LEU:HB2	1:D:327:ASN:HB3	1.88	0.56
1:F:35:TYR:CD2	1:F:456:SER:C	2.83	0.56
1:G:104:GLY:O	1:G:374:PHE:CA	2.53	0.56
1:G:383:LEU:CD2	1:G:388:MET:HE3	2.36	0.56
1:H:75:ILE:HB	1:H:329:LEU:CB	2.35	0.56
1:H:400:GLU:O	1:H:401:ASP:C	2.47	0.56
1:I:181:GLN:O	1:I:182:PRO:C	2.48	0.56
1:L:75:ILE:N	1:L:75:ILE:HD12	2.20	0.56
1:N:302:SER:O	1:N:304:ALA:N	2.38	0.56
1:O:220:VAL:O	1:O:221:PRO:C	2.44	0.56
1:A:74:ARG:CZ	1:A:441:LEU:CD1	2.84	0.56
1:A:111:GLN:HB2	1:A:338:ARG:HD3	1.86	0.56
1:A:320:ASN:OD1	1:A:321:ASN:N	2.39	0.56
1:B:41:ARG:HD3	1:B:43:LEU:HD13	1.87	0.56
1:B:225:CYS:SG	1:B:225:CYS:CA	2.90	0.56
1:C:153:GLN:HE22	1:C:300:VAL:HA	1.70	0.56
1:D:194:VAL:CG2	1:D:194:VAL:HB	2.18	0.56
1:E:45:VAL:C	1:E:65:VAL:HG21	2.31	0.56
1:E:111:GLN:HG2	1:E:369:GLU:HB3	1.88	0.56
1:H:384:THR:OG1	1:H:387:VAL:HG23	2.05	0.56
1:I:184:ASP:O	1:I:185:CYS:C	2.48	0.56
1:I:456:SER:HB3	1:I:462:PHE:HE1	1.70	0.56
1:K:171:LYS:HG3	1:K:187:PRO:HD2	1.88	0.56
1:L:92:ASN:C	1:L:94:ASP:N	2.64	0.56
1:N:246:LEU:H	1:N:246:LEU:CD2	2.19	0.56
1:A:24:THR:HG21	1:A:320:ASN:HA	1.87	0.56
1:A:185:CYS:SG	1:E:344:LEU:HD11	2.45	0.56
1:C:75:ILE:CG2	1:C:451:LEU:HD12	2.36	0.56
1:D:74:ARG:HG3	1:D:330:PHE:HE2	1.69	0.56
1:D:159:ILE:HG22	1:D:247:PHE:HE1	1.69	0.56
1:E:247:PHE:HD1	1:E:248:PHE:H	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:250:LEU:HD22	1:E:306:ILE:CG2	2.35	0.56
1:G:82:LYS:NZ	1:G:403:ASN:HD22	2.02	0.56
1:G:149:MET:HA	1:H:260:LEU:HD21	1.88	0.56
1:G:150:ASP:CG	1:H:257:VAL:HG21	2.31	0.56
1:H:464:LEU:O	1:H:464:LEU:CD2	2.53	0.56
1:H:469:LEU:CD2	1:H:469:LEU:CD1	2.82	0.56
1:I:150:ASP:N	1:I:150:ASP:OD2	2.37	0.56
1:I:363:TYR:CE1	1:J:185:CYS:HB2	2.41	0.56
1:I:442:LYS:HB3	1:I:443:LYS:HD3	1.87	0.56
1:I:464:LEU:C	1:I:464:LEU:CD2	2.77	0.56
1:J:303:ASP:N	1:J:303:ASP:OD1	2.36	0.56
1:K:101:ALA:HA	1:K:322:GLY:O	2.06	0.56
1:K:217:LYS:HD3	1:L:274:ASP:O	2.06	0.56
1:L:222:LEU:HA	1:L:225:CYS:SG	2.46	0.56
1:M:21:VAL:HG12	1:M:22:VAL:H	1.71	0.56
1:M:383:LEU:CD2	1:M:388:MET:CE	2.79	0.56
1:M:390:TYR:O	1:M:391:ILE:C	2.48	0.56
1:N:92:ASN:C	1:N:94:ASP:H	2.12	0.56
1:A:163:PRO:N	1:A:330:PHE:HD1	2.03	0.56
1:B:75:ILE:HB	1:B:329:LEU:HB3	1.88	0.56
1:B:223:ASP:OD1	1:B:224:ILE:N	2.39	0.56
1:B:356:LYS:O	1:B:358:THR:N	2.39	0.56
1:B:451:LEU:HA	1:B:454:LYS:HG3	1.88	0.56
1:C:81:ASN:HD21	1:C:402:TRP:CD1	2.24	0.56
1:C:266:THR:OG1	1:C:266:THR:O	2.22	0.56
1:C:302:SER:C	1:C:304:ALA:H	2.08	0.56
1:D:180:VAL:CG1	1:D:184:ASP:CB	2.83	0.56
1:E:57:ASN:HD21	1:E:59:LYS:N	2.02	0.56
1:F:77:LEU:HB2	1:F:327:ASN:HB3	1.86	0.56
1:F:95:THR:O	1:F:383:LEU:CB	2.53	0.56
1:F:323:ILE:HD13	1:F:323:ILE:N	2.20	0.56
1:G:183:GLY:O	1:G:184:ASP:C	2.49	0.56
1:G:378:LEU:HD12	1:G:379:CYS:N	2.21	0.56
1:H:143:ASN:O	1:H:144:ARG:C	2.48	0.56
1:H:374:PHE:HB3	1:H:376:PHE:CE1	2.40	0.56
1:I:75:ILE:HG21	1:I:451:LEU:HD12	1.85	0.56
1:I:172:GLY:O	1:I:173:SER:C	2.49	0.56
1:I:220:VAL:O	1:I:221:PRO:C	2.46	0.56
1:J:73:PHE:N	1:J:73:PHE:CD1	2.72	0.56
1:K:193:THR:OG1	1:K:194:VAL:N	2.33	0.56
1:L:65:VAL:O	1:L:65:VAL:HG12	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:42:LEU:HD22	1:M:447:TRP:CZ2	2.40	0.56
1:N:193:THR:CG2	1:N:230:LYS:HD3	2.36	0.56
1:N:440:PRO:HA	1:N:443:LYS:NZ	2.21	0.56
1:B:248:PHE:CZ	1:B:311:TYR:HB3	2.41	0.56
1:B:463:PRO:CB	1:B:466:ARG:HH21	2.15	0.56
1:C:22:VAL:N	1:C:390:TYR:OH	2.25	0.56
1:C:75:ILE:HG23	1:C:451:LEU:HD12	1.88	0.56
1:F:156:LEU:HD11	1:F:334:VAL:HG23	1.87	0.56
1:F:180:VAL:O	1:F:182:PRO:HD3	2.05	0.56
1:F:193:THR:HG21	1:F:230:LYS:HD3	1.88	0.56
1:G:105:VAL:CG2	1:G:105:VAL:CG1	2.75	0.56
1:G:153:GLN:NE2	1:G:300:VAL:HG12	2.21	0.56
1:I:54:LYS:HB3	1:I:57:ASN:HD22	1.69	0.56
1:K:34:TYR:CE2	1:K:377:GLN:HB2	2.41	0.56
1:K:170:GLY:HA2	1:K:213:LEU:HD21	1.88	0.56
1:M:61:LEU:HG	1:M:62:VAL:HG23	1.88	0.56
1:N:110:GLY:O	1:N:111:GLN:HG2	2.06	0.56
1:A:77:LEU:HB2	1:A:327:ASN:O	2.06	0.56
1:C:59:LYS:CD	1:C:59:LYS:NZ	2.69	0.56
1:C:158:LEU:CD1	1:C:237:MET:HE1	2.36	0.56
1:D:117:ILE:HD12	1:E:293:PRO:HB3	1.87	0.56
1:D:178:VAL:CG2	1:D:178:VAL:CA	2.80	0.56
1:D:325:TRP:HB3	1:D:398:ILE:CD1	2.35	0.56
1:F:152:LYS:CB	1:F:255:MET:HB2	2.36	0.56
1:G:24:THR:HG21	1:G:323:ILE:HG13	1.88	0.56
1:J:300:VAL:CG1	1:J:300:VAL:HB	2.20	0.56
1:K:157:CYS:HB2	1:K:307:PHE:HE2	1.71	0.56
1:M:178:VAL:CG1	1:M:178:VAL:CA	2.81	0.56
1:O:79:ASP:OD2	1:O:81:ASN:HB2	2.05	0.56
1:A:71:ARG:HA	1:A:71:ARG:NH1	2.09	0.55
1:A:266:THR:OG1	1:A:266:THR:O	2.20	0.55
1:A:283:THR:OG1	1:E:142:ASP:CG	2.49	0.55
1:B:80:PRO:C	1:B:82:LYS:N	2.64	0.55
1:C:54:LYS:HB2	1:C:57:ASN:HD22	1.70	0.55
1:D:65:VAL:O	1:D:366:HIS:HB3	2.06	0.55
1:E:104:GLY:O	1:E:374:PHE:HA	2.06	0.55
1:F:220:VAL:HG23	1:F:225:CYS:HA	1.88	0.55
1:G:74:ARG:CB	1:G:330:PHE:HE2	2.18	0.55
1:G:210:PHE:CD1	1:G:220:VAL:HG21	2.41	0.55
1:G:220:VAL:O	1:G:221:PRO:C	2.47	0.55
1:G:467:LYS:O	1:G:470:LEU:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:21:VAL:HG12	1:H:22:VAL:N	2.20	0.55
1:H:178:VAL:C	1:H:180:VAL:H	2.13	0.55
1:H:259:HIS:CE1	1:I:130:GLU:HG2	2.41	0.55
1:H:348:ILE:HG22	1:H:359:ASN:OD1	2.06	0.55
1:I:166:GLY:N	1:I:195:ILE:CD1	2.69	0.55
1:J:126:LEU:HB3	1:J:262:ASN:O	2.06	0.55
1:J:130:GLU:HB2	1:J:260:LEU:CD1	2.25	0.55
1:K:111:GLN:HG2	1:K:369:GLU:HB3	1.88	0.55
1:M:323:ILE:CD1	1:M:323:ILE:N	2.68	0.55
1:O:235:ILE:CD1	1:O:235:ILE:CG2	2.85	0.55
1:O:260:LEU:HD12	1:O:260:LEU:N	2.21	0.55
1:A:122:LEU:HD21	1:B:286:LEU:HD12	1.87	0.55
1:A:372:LEU:HB3	1:A:374:PHE:HE1	1.71	0.55
1:B:85:PHE:CE2	1:B:378:LEU:HD22	2.41	0.55
1:B:201:VAL:C	1:B:202:ASP:O	2.35	0.55
1:C:96:GLN:HE21	1:C:382:THR:HG22	1.72	0.55
1:D:228:ILE:HG22	1:D:230:LYS:HG3	1.89	0.55
1:E:24:THR:C	1:E:26:GLU:N	2.64	0.55
1:E:40:SER:O	1:E:371:ASP:OD1	2.24	0.55
1:G:384:THR:H	1:G:387:VAL:HB	1.70	0.55
1:I:150:ASP:CG	1:I:150:ASP:O	2.48	0.55
1:L:77:LEU:HD22	1:L:455:PHE:CZ	2.40	0.55
1:M:21:VAL:HG12	1:M:22:VAL:N	2.21	0.55
1:N:118:SER:HB2	1:N:151:TYR:CE1	2.41	0.55
1:N:464:LEU:O	1:N:464:LEU:HD22	2.06	0.55
1:O:65:VAL:CA	1:O:69:GLN:HE22	2.13	0.55
1:O:237:MET:O	1:O:240:GLU:HB3	2.06	0.55
1:O:396:SER:O	1:O:400:GLU:HG3	2.06	0.55
1:C:249:TYR:CD1	1:C:249:TYR:C	2.83	0.55
1:C:463:PRO:CB	1:C:466:ARG:HH21	2.19	0.55
1:D:171:LYS:HA	1:D:187:PRO:O	2.07	0.55
1:G:248:PHE:CE2	1:G:311:TYR:HB3	2.42	0.55
1:I:179:ALA:C	1:I:180:VAL:HG23	2.29	0.55
1:L:79:ASP:OD2	1:L:81:ASN:HB2	2.05	0.55
1:M:108:GLY:O	1:M:109:ARG:HG2	2.07	0.55
1:M:139:ALA:O	1:M:140:GLY:O	2.23	0.55
1:M:358:THR:HA	1:N:266:THR:CG2	2.36	0.55
1:N:43:LEU:HD12	1:N:369:GLU:HA	1.87	0.55
1:N:49:TYR:HE1	1:N:364:LEU:HD13	1.71	0.55
1:O:33:ILE:O	1:O:377:GLN:HA	2.07	0.55
1:E:105:VAL:HG22	1:E:374:PHE:CD2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:66:SER:N	1:F:69:GLN:HE21	2.05	0.55
1:H:237:MET:O	1:H:240:GLU:HB3	2.07	0.55
1:J:78:PRO:HD2	1:J:455:PHE:CZ	2.42	0.55
1:J:440:PRO:HA	1:J:443:LYS:NZ	2.21	0.55
1:K:165:ILE:CD1	1:K:165:ILE:CB	2.78	0.55
1:M:144:ARG:CG	1:M:144:ARG:CA	2.80	0.55
1:M:151:TYR:CG	1:M:203:THR:HB	2.41	0.55
1:M:389:THR:O	1:M:392:HIS:HB3	2.07	0.55
1:N:92:ASN:O	1:N:94:ASP:N	2.39	0.55
1:N:228:ILE:HD12	1:N:228:ILE:N	2.22	0.55
1:A:216:ASN:HA	1:E:360:PHE:CE2	2.42	0.55
1:B:42:LEU:HD22	1:B:447:TRP:CZ2	2.41	0.55
1:B:273:ASP:OD2	1:B:273:ASP:N	2.40	0.55
1:B:345:CYS:HB2	1:B:361:LYS:O	2.06	0.55
1:C:326:GLY:O	1:C:327:ASN:HB2	2.06	0.55
1:D:36:HIS:ND1	1:D:37:ALA:N	2.55	0.55
1:D:172:GLY:O	1:D:173:SER:C	2.50	0.55
1:E:338:ARG:HG3	1:E:338:ARG:HH11	1.70	0.55
1:F:81:ASN:OD1	1:F:97:ARG:NH1	2.39	0.55
1:I:305:GLN:HE22	1:I:337:THR:HG21	1.71	0.55
1:K:180:VAL:HG13	1:K:184:ASP:HB3	1.89	0.55
1:K:209:ASP:OD2	1:K:212:THR:HG23	2.06	0.55
1:K:231:TYR:OH	1:K:253:GLU:OE2	2.15	0.55
1:M:216:ASN:O	1:M:216:ASN:OD1	2.24	0.55
1:N:168:HIS:CE1	1:N:191:ILE:HB	2.42	0.55
1:N:302:SER:HB2	1:O:253:GLU:H	1.71	0.55
1:O:267:VAL:CG1	1:O:269:GLU:O	2.55	0.55
1:O:373:GLN:CB	1:O:464:LEU:HD12	2.36	0.55
1:A:66:SER:HA	1:A:366:HIS:ND1	2.22	0.55
1:A:95:THR:O	1:A:383:LEU:N	2.35	0.55
1:A:120:HIS:CG	1:A:222:LEU:HD13	2.41	0.55
1:A:240:GLU:HG3	1:A:243:GLY:N	2.21	0.55
1:C:162:LYS:O	1:C:330:PHE:HD1	1.89	0.55
1:E:42:LEU:HD13	1:E:447:TRP:CZ2	2.42	0.55
1:E:172:GLY:O	1:E:173:SER:C	2.50	0.55
1:F:24:THR:CG2	1:F:320:ASN:HA	2.35	0.55
1:F:162:LYS:C	1:F:330:PHE:HD1	2.13	0.55
1:G:316:ALA:C	1:G:318:GLY:N	2.65	0.55
1:H:112:PRO:HB2	1:I:202:ASP:OD2	2.07	0.55
1:I:166:GLY:O	1:I:192:ASN:HA	2.07	0.55
1:I:196:GLN:HB3	1:I:445:THR:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:208:MET:SD	1:J:210:PHE:CE2	2.99	0.55
1:K:28:VAL:HG22	1:K:381:ILE:HD11	1.89	0.55
1:K:54:LYS:CB	1:K:57:ASN:HD22	2.19	0.55
1:L:158:LEU:HD23	1:L:249:TYR:HB2	1.88	0.55
1:M:102:CYS:N	1:M:322:GLY:O	2.38	0.55
1:N:180:VAL:HG12	1:N:181:GLN:O	2.07	0.55
1:N:234:TYR:O	1:N:235:ILE:C	2.49	0.55
1:N:259:HIS:CE1	1:O:130:GLU:HG2	2.42	0.55
1:N:365:ARG:HH11	1:N:365:ARG:HG3	1.72	0.55
1:O:54:LYS:HA	1:O:54:LYS:HZ2	1.71	0.55
1:A:114:GLY:HA3	1:A:340:THR:OG1	2.07	0.55
1:A:185:CYS:HB2	1:E:363:TYR:CE1	2.42	0.55
1:A:259:HIS:HE1	1:B:130:GLU:OE1	1.90	0.55
1:B:46:GLY:CA	1:B:65:VAL:CG2	2.80	0.55
1:B:441:LEU:CD2	1:B:441:LEU:HG	2.18	0.55
1:C:46:GLY:HA3	1:C:63:PRO:O	2.06	0.55
1:C:96:GLN:HB3	1:C:382:THR:HG22	1.89	0.55
1:D:150:ASP:CG	1:D:150:ASP:O	2.48	0.55
1:D:361:LYS:HD2	1:E:183:GLY:HA3	1.88	0.55
1:F:221:PRO:HD2	1:F:224:ILE:HD11	1.89	0.55
1:F:344:LEU:HD23	1:F:344:LEU:N	2.21	0.55
1:G:81:ASN:HD21	1:G:402:TRP:CD1	2.24	0.55
1:G:150:ASP:CB	1:H:257:VAL:HG21	2.36	0.55
1:J:42:LEU:HB2	1:J:370:TYR:HB2	1.87	0.55
1:M:97:ARG:HA	1:M:97:ARG:HH11	1.71	0.55
1:M:113:LEU:CD1	1:M:113:LEU:H	2.19	0.55
1:N:115:VAL:HG22	1:O:255:MET:CE	2.36	0.55
1:N:348:ILE:O	1:N:349:SER:HB3	2.06	0.55
1:N:358:THR:HG22	1:O:266:THR:HG22	1.88	0.55
1:N:397:THR:O	1:N:398:ILE:C	2.48	0.55
1:A:24:THR:CG2	1:A:320:ASN:HA	2.37	0.55
1:A:142:ASP:OD2	1:A:144:ARG:HG3	2.06	0.55
1:A:185:CYS:HB2	1:E:363:TYR:CD1	2.42	0.55
1:A:205:PHE:CD1	1:A:220:VAL:HG12	2.42	0.55
1:A:342:MET:SD	1:B:208:MET:HE3	2.47	0.55
1:C:96:GLN:HE21	1:C:382:THR:CG2	2.19	0.55
1:C:214:GLN:CD	1:C:219:GLU:HG3	2.32	0.55
1:D:24:THR:HG23	1:D:320:ASN:HA	1.87	0.55
1:D:109:ARG:NH1	1:D:370:TYR:CE1	2.74	0.55
1:D:466:ARG:HD2	1:E:317:GLN:O	2.06	0.55
1:E:126:LEU:HB3	1:E:262:ASN:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:260:LEU:N	1:E:260:LEU:HD12	2.22	0.55
1:F:172:GLY:O	1:F:173:SER:C	2.49	0.55
1:F:344:LEU:HB2	1:G:213:LEU:O	2.06	0.55
1:G:271:VAL:HG12	1:G:276:TYR:HE2	1.72	0.55
1:H:372:LEU:CB	1:H:374:PHE:HE1	2.20	0.55
1:J:70:TYR:CD2	1:J:195:ILE:HG21	2.42	0.55
1:J:262:ASN:ND2	1:J:288:SER:HB3	2.21	0.55
1:K:92:ASN:ND2	1:K:95:THR:OG1	2.40	0.55
1:K:216:ASN:ND2	1:K:219:GLU:OE2	2.40	0.55
1:L:121:PRO:HD3	1:L:222:LEU:CD1	2.37	0.55
1:L:159:ILE:CD1	1:L:159:ILE:CB	2.83	0.55
1:O:216:ASN:CB	1:O:219:GLU:OE2	2.55	0.55
1:O:471:GLN:O	1:O:472:LEU:OXT	2.25	0.55
1:A:299:MET:HA	1:B:255:MET:O	2.07	0.55
1:A:325:TRP:HB3	1:A:398:ILE:CD1	2.37	0.55
1:A:395:ASN:HB3	1:A:398:ILE:CG1	2.37	0.55
1:B:49:TYR:HA	1:B:223:ASP:HB3	1.88	0.55
1:B:240:GLU:HG3	1:B:243:GLY:HA2	1.88	0.55
1:B:387:VAL:O	1:B:390:TYR:N	2.40	0.55
1:C:112:PRO:HD3	1:D:231:TYR:CD2	2.41	0.55
1:D:152:LYS:HE3	1:D:253:GLU:HB2	1.89	0.55
1:D:163:PRO:CA	1:D:330:PHE:CD1	2.90	0.55
1:F:144:ARG:HD3	1:J:355:TYR:CD1	2.42	0.55
1:F:391:ILE:HG22	1:F:399:LEU:HG	1.89	0.55
1:K:164:PRO:HG3	1:K:332:THR:HG23	1.88	0.55
1:K:450:ASN:ND2	1:K:452:LYS:HD2	2.21	0.55
1:M:80:PRO:HB3	1:M:100:TRP:NE1	2.22	0.55
1:M:399:LEU:O	1:M:402:TRP:HB2	2.07	0.55
1:N:66:SER:O	1:N:69:GLN:HG3	2.06	0.55
1:N:280:SER:CA	1:N:284:ALA:HB2	2.37	0.55
1:N:382:THR:CG2	1:N:382:THR:HB	2.17	0.55
1:A:68:LEU:HB3	1:A:201:VAL:HG22	1.89	0.55
1:A:150:ASP:CG	1:A:150:ASP:O	2.49	0.55
1:B:193:THR:HG23	1:B:230:LYS:HD2	1.88	0.55
1:B:292:PHE:C	1:B:292:PHE:CD1	2.85	0.55
1:C:21:VAL:HG12	1:C:22:VAL:N	2.22	0.55
1:C:323:ILE:HD13	1:C:323:ILE:N	2.22	0.55
1:C:372:LEU:HB3	1:C:374:PHE:CE1	2.42	0.55
1:D:247:PHE:HD1	1:D:248:PHE:N	2.04	0.55
1:E:234:TYR:O	1:E:235:ILE:C	2.49	0.55
1:F:256:PHE:HB3	1:J:299:MET:CA	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:353:THR:CG2	1:F:353:THR:CA	2.79	0.55
1:F:374:PHE:O	1:F:375:ILE:HD13	2.07	0.55
1:H:151:TYR:CG	1:H:203:THR:HB	2.41	0.55
1:H:237:MET:SD	1:H:237:MET:CB	2.91	0.55
1:I:259:HIS:HE1	1:J:130:GLU:HG2	1.71	0.55
1:J:54:LYS:CG	1:J:55:PRO:HD2	2.33	0.55
1:J:184:ASP:O	1:J:185:CYS:O	2.25	0.55
1:K:163:PRO:HD3	1:K:330:PHE:HE1	1.72	0.55
1:K:170:GLY:HA2	1:K:213:LEU:CD2	2.37	0.55
1:K:207:ALA:O	1:K:208:MET:HB3	2.05	0.55
1:L:27:TYR:OH	1:L:390:TYR:HE2	1.90	0.55
1:L:98:LEU:HA	1:L:379:CYS:O	2.07	0.55
1:L:122:LEU:HD11	1:M:286:LEU:CD1	2.33	0.55
1:M:150:ASP:OD1	1:N:257:VAL:HG21	2.07	0.55
1:N:299:MET:HA	1:O:256:PHE:HB3	1.88	0.55
1:O:122:LEU:O	1:O:218:SER:HB2	2.07	0.55
1:A:286:LEU:CD1	1:E:122:LEU:CD1	2.70	0.54
1:B:344:LEU:HD12	1:C:186:PRO:CG	2.37	0.54
1:C:247:PHE:CD1	1:C:248:PHE:N	2.75	0.54
1:C:451:LEU:HA	1:C:454:LYS:HG3	1.88	0.54
1:D:92:ASN:HD21	1:D:94:ASP:HB2	1.70	0.54
1:D:307:PHE:C	1:D:309:LYS:H	2.15	0.54
1:D:358:THR:HA	1:E:266:THR:HG22	1.85	0.54
1:E:54:LYS:CB	1:E:57:ASN:HD22	2.20	0.54
1:E:345:CYS:SG	1:E:345:CYS:O	2.64	0.54
1:E:378:LEU:HD12	1:E:379:CYS:H	1.71	0.54
1:F:389:THR:CG2	1:F:389:THR:CA	2.77	0.54
1:G:52:ILE:N	1:G:52:ILE:CD1	2.70	0.54
1:G:163:PRO:CA	1:G:330:PHE:CD1	2.90	0.54
1:G:193:THR:HG21	1:G:230:LYS:HD3	1.87	0.54
1:G:246:LEU:HD12	1:G:249:TYR:CB	2.38	0.54
1:I:179:ALA:O	1:I:180:VAL:O	2.25	0.54
1:I:246:LEU:HD23	1:I:246:LEU:N	2.16	0.54
1:K:72:VAL:HG21	1:K:195:ILE:O	2.06	0.54
1:K:134:ALA:O	1:K:135:TYR:C	2.50	0.54
1:K:159:ILE:HG22	1:K:247:PHE:HE1	1.72	0.54
1:K:463:PRO:HD3	1:K:466:ARG:NH2	2.22	0.54
1:L:344:LEU:HD23	1:L:344:LEU:H	1.69	0.54
1:M:50:PHE:HB2	1:M:51:PRO:HD2	1.90	0.54
1:N:250:LEU:HD13	1:N:306:ILE:CG2	2.36	0.54
1:O:107:VAL:HG23	1:O:311:TYR:HE1	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:170:GLY:HA2	1:O:213:LEU:CD2	2.34	0.54
1:O:443:LYS:N	1:O:443:LYS:CD	2.70	0.54
1:A:67:GLY:N	1:A:366:HIS:CE1	2.74	0.54
1:A:176:THR:C	1:A:177:GLN:HG3	2.32	0.54
1:C:160:GLY:HA3	1:C:245:SER:O	2.07	0.54
1:D:222:LEU:HA	1:D:225:CYS:SG	2.47	0.54
1:E:57:ASN:CG	1:E:59:LYS:H	2.14	0.54
1:E:99:VAL:CG1	1:E:323:ILE:HG22	2.30	0.54
1:H:68:LEU:O	1:H:201:VAL:HG13	2.06	0.54
1:H:151:TYR:CZ	1:H:221:PRO:HG2	2.42	0.54
1:I:41:ARG:HD3	1:I:43:LEU:HD13	1.88	0.54
1:I:463:PRO:CB	1:I:466:ARG:HH21	2.20	0.54
1:J:223:ASP:OD1	1:J:224:ILE:N	2.39	0.54
1:J:305:GLN:HE22	1:J:337:THR:HG21	1.72	0.54
1:K:77:LEU:HB2	1:K:327:ASN:O	2.07	0.54
1:M:300:VAL:O	1:N:254:GLN:HA	2.06	0.54
1:N:381:ILE:O	1:N:383:LEU:HD12	2.07	0.54
1:B:33:ILE:CD1	1:B:33:ILE:CG2	2.85	0.54
1:C:305:GLN:HE22	1:C:337:THR:HG21	1.72	0.54
1:C:471:GLN:CD	1:C:471:GLN:C	2.75	0.54
1:D:117:ILE:HG23	1:D:117:ILE:O	2.06	0.54
1:D:342:MET:HB2	1:E:208:MET:HE1	1.89	0.54
1:G:22:VAL:HG23	1:G:22:VAL:O	2.07	0.54
1:G:395:ASN:O	1:G:398:ILE:HG12	2.07	0.54
1:H:258:ARG:NH2	1:I:257:VAL:O	2.41	0.54
1:I:61:LEU:CD1	1:I:61:LEU:CD2	2.80	0.54
1:L:220:VAL:O	1:L:221:PRO:C	2.48	0.54
1:M:54:LYS:HG3	1:M:55:PRO:HD2	1.89	0.54
1:N:207:ALA:HB1	1:N:229:CYS:O	2.07	0.54
1:O:439:ASP:O	1:O:442:LYS:HB2	2.08	0.54
1:D:162:LYS:HG2	1:D:244:ASP:HB3	1.87	0.54
1:D:461:GLN:HE22	1:E:21:VAL:HB	1.72	0.54
1:F:59:LYS:NZ	1:F:59:LYS:CD	2.68	0.54
1:F:90:PHE:HD1	1:F:91:TYR:HB3	1.73	0.54
1:F:178:VAL:CG1	1:F:178:VAL:CA	2.81	0.54
1:F:185:CYS:HB2	1:J:363:TYR:CD1	2.42	0.54
1:G:272:PRO:HD2	1:G:275:LEU:CD1	2.37	0.54
1:G:300:VAL:HG23	1:G:300:VAL:O	2.06	0.54
1:G:471:GLN:CD	1:G:472:LEU:N	2.65	0.54
1:I:222:LEU:HA	1:I:225:CYS:SG	2.47	0.54
1:K:96:GLN:CA	1:K:382:THR:HA	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:96:GLN:NE2	1:L:382:THR:HG22	2.22	0.54
1:N:217:LYS:HD3	1:O:274:ASP:C	2.30	0.54
1:O:398:ILE:CD1	1:O:398:ILE:HG23	2.38	0.54
1:A:30:ARG:HH11	1:A:377:GLN:HE22	1.55	0.54
1:D:153:GLN:HE22	1:D:300:VAL:HA	1.73	0.54
1:D:166:GLY:CA	1:D:195:ILE:HD11	2.37	0.54
1:E:105:VAL:HA	1:E:373:GLN:O	2.08	0.54
1:E:150:ASP:OD1	1:E:296:SER:HA	2.06	0.54
1:E:152:LYS:CE	1:E:202:ASP:HB3	2.37	0.54
1:E:153:GLN:HE22	1:E:300:VAL:HA	1.71	0.54
1:E:180:VAL:O	1:E:182:PRO:HD3	2.08	0.54
1:F:273:ASP:OD2	1:F:273:ASP:N	2.39	0.54
1:H:49:TYR:HE2	1:H:118:SER:CA	2.12	0.54
1:H:175:CYS:O	1:H:177:GLN:N	2.41	0.54
1:J:262:ASN:C	1:J:262:ASN:ND2	2.58	0.54
1:K:97:ARG:HA	1:K:97:ARG:NH1	2.21	0.54
1:N:151:TYR:OH	1:N:221:PRO:CG	2.43	0.54
1:N:342:MET:HB2	1:O:208:MET:HE1	1.89	0.54
1:O:152:LYS:O	1:O:152:LYS:HG3	2.07	0.54
1:B:74:ARG:CG	1:B:330:PHE:HE2	2.20	0.54
1:B:114:GLY:HA3	1:B:340:THR:OG1	2.08	0.54
1:C:80:PRO:HB3	1:C:100:TRP:NE1	2.23	0.54
1:D:242:TYR:CD2	1:D:394:MET:HG3	2.43	0.54
1:D:381:ILE:O	1:D:383:LEU:HD12	2.08	0.54
1:E:386:ASP:OD2	1:E:386:ASP:N	2.41	0.54
1:E:395:ASN:ND2	1:E:397:THR:OG1	2.41	0.54
1:F:262:ASN:HD22	1:F:263:ARG:N	2.06	0.54
1:F:342:MET:HB2	1:G:208:MET:HE1	1.90	0.54
1:H:79:ASP:OD1	1:H:80:PRO:HD2	2.08	0.54
1:I:32:ASN:O	1:I:33:ILE:HD13	2.07	0.54
1:I:50:PHE:CD1	1:I:50:PHE:C	2.85	0.54
1:I:220:VAL:HB	1:I:224:ILE:CD1	2.37	0.54
1:J:97:ARG:H	1:J:381:ILE:H	1.54	0.54
1:J:120:HIS:ND1	1:J:122:LEU:N	2.48	0.54
1:K:42:LEU:HD12	1:K:73:PHE:CE2	2.39	0.54
1:K:223:ASP:OD1	1:K:224:ILE:N	2.41	0.54
1:K:459:LEU:O	1:K:461:GLN:N	2.41	0.54
1:M:36:HIS:CG	1:M:462:PHE:CD1	2.96	0.54
1:N:151:TYR:CZ	1:N:221:PRO:HG2	2.39	0.54
1:O:261:PHE:CB	1:O:292:PHE:CE2	2.88	0.54
1:C:49:TYR:CE2	1:C:118:SER:HA	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:117:ILE:HD11	1:D:260:LEU:CD2	2.35	0.54
1:C:154:THR:O	1:C:336:THR:HG23	2.08	0.54
1:C:234:TYR:CD1	1:C:251:ARG:NH2	2.76	0.54
1:C:317:GLN:NE2	1:C:317:GLN:C	2.65	0.54
1:D:70:TYR:O	1:D:71:ARG:NH1	2.41	0.54
1:E:395:ASN:C	1:E:395:ASN:HD22	2.15	0.54
1:F:255:MET:HE1	1:J:115:VAL:N	2.15	0.54
1:H:189:GLU:O	1:H:191:ILE:CG1	2.55	0.54
1:H:344:LEU:N	1:H:344:LEU:HD23	2.23	0.54
1:I:49:TYR:HA	1:I:223:ASP:HB3	1.90	0.54
1:I:117:ILE:CG1	1:I:149:MET:O	2.56	0.54
1:I:280:SER:N	1:I:284:ALA:HB2	2.22	0.54
1:J:66:SER:HA	1:J:366:HIS:ND1	2.23	0.54
1:J:74:ARG:NH2	1:J:441:LEU:HD12	2.22	0.54
1:J:77:LEU:O	1:J:327:ASN:HB3	2.08	0.54
1:J:155:GLN:HG2	1:J:307:PHE:CE1	2.43	0.54
1:K:79:ASP:CG	1:K:81:ASN:HB2	2.33	0.54
1:K:150:ASP:CG	1:L:257:VAL:HG21	2.32	0.54
1:K:220:VAL:O	1:K:221:PRO:C	2.48	0.54
1:L:171:LYS:HA	1:L:187:PRO:O	2.08	0.54
1:L:227:SER:HA	1:L:228:ILE:HD12	1.88	0.54
1:M:36:HIS:C	1:M:36:HIS:ND1	2.66	0.54
1:M:54:LYS:HG2	1:M:57:ASN:HB3	1.88	0.54
1:M:66:SER:OG	1:M:68:LEU:HB2	2.07	0.54
1:M:70:TYR:OH	1:M:232:PRO:HD3	2.07	0.54
1:N:92:ASN:HD21	1:N:95:THR:N	2.04	0.54
1:N:121:PRO:HD3	1:N:222:LEU:CD1	2.38	0.54
1:A:21:VAL:CG1	1:A:22:VAL:N	2.70	0.54
1:A:75:ILE:N	1:A:75:ILE:CD1	2.64	0.54
1:A:471:GLN:CD	1:A:472:LEU:N	2.65	0.54
1:B:325:TRP:CZ2	1:B:394:MET:HE1	2.41	0.54
1:C:280:SER:C	1:C:284:ALA:HB2	2.32	0.54
1:C:459:LEU:C	1:C:461:GLN:H	2.14	0.54
1:D:391:ILE:HG21	1:D:402:TRP:HZ3	1.72	0.54
1:F:50:PHE:HB2	1:F:51:PRO:HD2	1.89	0.54
1:G:50:PHE:HB2	1:G:51:PRO:HD2	1.90	0.54
1:I:66:SER:OG	1:I:68:LEU:N	2.41	0.54
1:J:53:LYS:HD3	1:J:58:ASN:HA	1.90	0.54
1:K:28:VAL:HA	1:K:381:ILE:HG12	1.90	0.54
1:K:95:THR:O	1:K:383:LEU:N	2.30	0.54
1:K:117:ILE:CG2	1:L:293:PRO:HD3	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:159:ILE:HD13	1:L:159:ILE:HG21	1.90	0.54
1:O:52:ILE:HB	1:O:62:VAL:HB	1.90	0.54
1:O:96:GLN:NE2	1:O:382:THR:HG22	2.22	0.54
1:O:216:ASN:ND2	1:O:219:GLU:OE2	2.41	0.54
1:O:442:LYS:HG2	1:O:442:LYS:HZ3	1.72	0.54
1:C:395:ASN:OD1	1:C:398:ILE:HD11	2.07	0.54
1:D:451:LEU:CD2	1:D:454:LYS:HG3	2.38	0.54
1:E:305:GLN:HE22	1:E:337:THR:HG21	1.72	0.54
1:F:130:GLU:HG2	1:J:259:HIS:CE1	2.43	0.54
1:F:157:CYS:HB2	1:F:307:PHE:CE2	2.43	0.54
1:F:260:LEU:HD21	1:J:149:MET:HA	1.89	0.54
1:G:133:SER:O	1:G:134:ALA:HB2	2.07	0.54
1:G:158:LEU:O	1:G:331:VAL:HA	2.07	0.54
1:H:115:VAL:HG22	1:I:255:MET:SD	2.48	0.54
1:I:248:PHE:CZ	1:I:311:TYR:HB3	2.42	0.54
1:I:279:GLY:C	1:I:284:ALA:HB2	2.33	0.54
1:J:444:TYR:HB2	1:J:446:PHE:CE1	2.43	0.54
1:K:159:ILE:HG22	1:K:247:PHE:CE1	2.42	0.54
1:K:266:THR:CG2	1:O:358:THR:HA	2.38	0.54
1:K:386:ASP:OD2	1:K:386:ASP:N	2.40	0.54
1:L:226:THR:HG21	1:M:275:LEU:CD2	2.37	0.54
1:L:348:ILE:HD12	1:M:182:PRO:O	2.07	0.54
1:N:74:ARG:C	1:N:75:ILE:HD12	2.26	0.54
1:N:75:ILE:H	1:N:75:ILE:CD1	2.09	0.54
1:N:90:PHE:CD1	1:N:91:TYR:N	2.76	0.54
1:A:167:GLU:HB2	1:A:190:LEU:HD11	1.89	0.54
1:A:170:GLY:O	1:A:188:LEU:HA	2.08	0.54
1:A:231:TYR:CG	1:E:112:PRO:HB3	2.43	0.54
1:B:68:LEU:HD23	1:B:201:VAL:HG21	1.89	0.54
1:C:147:ILE:HG22	1:C:148:SER:N	2.21	0.54
1:D:92:ASN:C	1:D:94:ASP:H	2.15	0.54
1:D:115:VAL:CG1	1:D:115:VAL:CG2	2.76	0.54
1:D:237:MET:HB3	1:D:246:LEU:HD22	1.89	0.54
1:E:320:ASN:OD1	1:E:323:ILE:HG12	2.08	0.54
1:F:149:MET:HE2	1:F:205:PHE:CE1	2.43	0.54
1:G:24:THR:HA	1:G:27:TYR:CE2	2.43	0.54
1:G:168:HIS:O	1:G:190:LEU:HD12	2.08	0.54
1:G:272:PRO:HD2	1:G:275:LEU:HD11	1.89	0.54
1:H:57:ASN:HD21	1:H:59:LYS:HB3	1.73	0.54
1:I:54:LYS:CE	1:I:55:PRO:HD2	2.38	0.54
1:K:185:CYS:HB2	1:O:363:TYR:CD1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:346:ALA:CB	1:K:346:ALA:HA	2.18	0.54
1:M:126:LEU:HB3	1:M:262:ASN:HB3	1.90	0.54
1:A:163:PRO:HD3	1:A:330:PHE:HE1	1.73	0.53
1:A:257:VAL:HG13	1:E:115:VAL:HG23	1.90	0.53
1:C:75:ILE:HD12	1:C:75:ILE:N	2.23	0.53
1:C:96:GLN:HA	1:C:382:THR:HA	1.90	0.53
1:C:320:ASN:ND2	1:C:323:ILE:HB	2.22	0.53
1:E:72:VAL:HG23	1:E:197:ASP:HA	1.89	0.53
1:F:254:GLN:NE2	1:F:298:SER:HB3	2.23	0.53
1:F:471:GLN:OE1	1:F:472:LEU:N	2.41	0.53
1:J:139:ALA:HB1	1:J:143:ASN:OD1	2.07	0.53
1:J:184:ASP:O	1:J:185:CYS:C	2.51	0.53
1:J:190:LEU:HD12	1:J:191:ILE:N	2.22	0.53
1:K:106:GLU:HG3	1:K:309:LYS:C	2.33	0.53
1:K:223:ASP:OD1	1:K:224:ILE:HG23	2.08	0.53
1:L:152:LYS:HE2	1:L:202:ASP:OD2	2.08	0.53
1:L:302:SER:C	1:L:304:ALA:H	2.15	0.53
1:M:117:ILE:HG13	1:M:149:MET:O	2.07	0.53
1:N:365:ARG:CG	1:N:365:ARG:NH1	2.68	0.53
1:B:166:GLY:N	1:B:195:ILE:HG13	2.23	0.53
1:B:391:ILE:HG21	1:B:402:TRP:CZ3	2.43	0.53
1:D:81:ASN:HD21	1:D:402:TRP:CD1	2.26	0.53
1:D:238:VAL:O	1:D:238:VAL:HG12	2.08	0.53
1:D:443:LYS:H	1:D:443:LYS:CD	2.07	0.53
1:E:129:THR:HG21	1:E:291:TYR:CD2	2.43	0.53
1:E:193:THR:HG21	1:E:230:LYS:CD	2.38	0.53
1:F:24:THR:C	1:F:26:GLU:H	2.15	0.53
1:F:75:ILE:N	1:F:75:ILE:CD1	2.65	0.53
1:G:52:ILE:N	1:G:52:ILE:HD12	2.22	0.53
1:H:65:VAL:HA	1:H:69:GLN:NE2	2.23	0.53
1:I:49:TYR:HE1	1:I:364:LEU:HD13	1.72	0.53
1:I:255:MET:CG	1:I:256:PHE:N	2.71	0.53
1:I:320:ASN:OD1	1:I:321:ASN:N	2.41	0.53
1:I:367:GLY:C	1:I:368:GLU:HG2	2.33	0.53
1:I:383:LEU:CD2	1:I:388:MET:HE3	2.39	0.53
1:K:117:ILE:CD1	1:L:293:PRO:HB3	2.35	0.53
1:K:141:VAL:CG1	1:O:357:ASN:H	2.18	0.53
1:K:169:TRP:H	1:K:208:MET:HA	1.73	0.53
1:K:383:LEU:HD23	1:K:388:MET:HE3	1.89	0.53
1:M:325:TRP:HB3	1:M:398:ILE:CD1	2.38	0.53
1:O:99:VAL:HG12	1:O:100:TRP:N	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:21:VAL:C	1:A:22:VAL:HG13	2.33	0.53
1:B:271:VAL:HG13	1:B:275:LEU:HD12	1.90	0.53
1:D:224:ILE:O	1:D:227:SER:N	2.29	0.53
1:E:383:LEU:HA	1:E:387:VAL:HG11	1.90	0.53
1:E:458:ASP:N	1:E:458:ASP:OD2	2.38	0.53
1:F:363:TYR:CE2	1:G:185:CYS:HB2	2.44	0.53
1:F:397:THR:HB	1:F:401:ASP:OD2	2.09	0.53
1:J:81:ASN:CB	1:J:97:ARG:NH1	2.72	0.53
1:J:219:GLU:HB3	1:J:263:ARG:CZ	2.39	0.53
1:K:42:LEU:HB3	1:K:447:TRP:CZ2	2.42	0.53
1:K:149:MET:HE1	1:K:205:PHE:HZ	1.73	0.53
1:L:216:ASN:C	1:L:216:ASN:OD1	2.52	0.53
1:M:36:HIS:ND1	1:M:37:ALA:N	2.56	0.53
1:M:83:PHE:CG	1:M:84:GLY:N	2.76	0.53
1:M:96:GLN:HE21	1:M:382:THR:CG2	2.22	0.53
1:M:150:ASP:CB	1:N:257:VAL:HG21	2.39	0.53
1:N:91:TYR:CD1	1:N:98:LEU:CD2	2.91	0.53
1:A:49:TYR:O	1:A:64:LYS:HD3	2.08	0.53
1:A:73:PHE:N	1:A:73:PHE:CD1	2.76	0.53
1:A:384:THR:O	1:A:388:MET:HB2	2.08	0.53
1:A:450:ASN:HD21	1:A:452:LYS:HD2	1.73	0.53
1:C:363:TYR:HE2	1:D:269:GLU:HG3	1.71	0.53
1:D:188:LEU:HD13	1:D:213:LEU:HD11	1.89	0.53
1:E:149:MET:CE	1:E:205:PHE:CE1	2.91	0.53
1:E:273:ASP:OD2	1:E:273:ASP:N	2.37	0.53
1:E:323:ILE:CG2	1:E:323:ILE:CG1	2.76	0.53
1:G:312:TRP:HA	1:G:312:TRP:CE3	2.44	0.53
1:K:34:TYR:HE2	1:K:377:GLN:HB2	1.74	0.53
1:K:163:PRO:N	1:K:330:PHE:CD1	2.77	0.53
1:L:49:TYR:HE2	1:L:118:SER:HA	1.73	0.53
1:L:54:LYS:CG	1:L:55:PRO:HD2	2.37	0.53
1:L:80:PRO:HG2	1:L:81:ASN:N	2.21	0.53
1:L:148:SER:HB3	1:M:291:TYR:CE2	2.43	0.53
1:M:81:ASN:ND2	1:M:402:TRP:HD1	2.06	0.53
1:N:391:ILE:HG21	1:N:402:TRP:CZ3	2.44	0.53
1:O:24:THR:C	1:O:26:GLU:N	2.65	0.53
1:A:231:TYR:HD2	1:E:112:PRO:HD3	1.72	0.53
1:B:70:TYR:CZ	1:B:230:LYS:O	2.62	0.53
1:B:246:LEU:H	1:B:246:LEU:HD23	1.73	0.53
1:C:184:ASP:O	1:C:185:CYS:C	2.49	0.53
1:C:208:MET:HG3	1:C:210:PHE:CE2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:183:GLY:O	1:E:184:ASP:C	2.51	0.53
1:F:183:GLY:O	1:F:185:CYS:N	2.42	0.53
1:G:151:TYR:CG	1:G:203:THR:HB	2.39	0.53
1:H:216:ASN:C	1:H:216:ASN:OD1	2.51	0.53
1:I:117:ILE:CD1	1:I:117:ILE:CB	2.81	0.53
1:K:21:VAL:HB	1:O:461:GLN:HE22	1.71	0.53
1:K:92:ASN:C	1:K:94:ASP:H	2.16	0.53
1:K:185:CYS:HB2	1:O:363:TYR:CE1	2.43	0.53
1:K:372:LEU:HB3	1:K:374:PHE:CE1	2.43	0.53
1:L:74:ARG:NH2	1:L:441:LEU:HD12	2.24	0.53
1:M:90:PHE:CD1	1:M:90:PHE:C	2.86	0.53
1:N:24:THR:OG1	1:N:25:ASP:N	2.41	0.53
1:N:96:GLN:HE21	1:N:382:THR:CG2	2.22	0.53
1:N:163:PRO:N	1:N:330:PHE:HD1	2.05	0.53
1:O:54:LYS:HB3	1:O:57:ASN:HB3	1.91	0.53
1:B:36:HIS:ND1	1:B:37:ALA:N	2.57	0.53
1:B:166:GLY:H	1:B:195:ILE:HG13	1.74	0.53
1:B:259:HIS:HE1	1:C:130:GLU:CG	2.21	0.53
1:B:341:ASN:HB3	1:B:366:HIS:HB2	1.90	0.53
1:C:280:SER:CA	1:C:284:ALA:HB2	2.38	0.53
1:C:462:PHE:HB3	1:C:463:PRO:HD2	1.90	0.53
1:D:176:THR:C	1:D:177:GLN:CG	2.81	0.53
1:F:67:GLY:C	1:F:68:LEU:HG	2.34	0.53
1:I:280:SER:O	1:I:280:SER:OG	2.26	0.53
1:J:42:LEU:HD13	1:J:447:TRP:CZ2	2.44	0.53
1:J:144:ARG:O	1:J:145:GLU:HG2	2.08	0.53
1:L:262:ASN:HD21	1:L:288:SER:CB	2.12	0.53
1:M:92:ASN:ND2	1:M:95:THR:OG1	2.40	0.53
1:M:159:ILE:HG22	1:M:247:PHE:HE1	1.73	0.53
1:N:57:ASN:HD21	1:N:59:LYS:H	1.57	0.53
1:N:262:ASN:CG	1:N:288:SER:HB3	2.32	0.53
1:O:96:GLN:HE21	1:O:382:THR:HG22	1.73	0.53
1:A:97:ARG:HH11	1:A:97:ARG:CB	2.22	0.53
1:B:163:PRO:N	1:B:330:PHE:CD1	2.76	0.53
1:B:459:LEU:C	1:B:461:GLN:H	2.16	0.53
1:F:250:LEU:HD13	1:F:306:ILE:CG2	2.38	0.53
1:G:153:GLN:CD	1:G:300:VAL:HG12	2.33	0.53
1:H:153:GLN:NE2	1:H:300:VAL:HA	2.24	0.53
1:I:217:LYS:HG2	1:J:276:TYR:HA	1.89	0.53
1:K:49:TYR:HE2	1:K:118:SER:HA	1.74	0.53
1:K:141:VAL:HG13	1:O:357:ASN:N	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:255:MET:CE	1:O:115:VAL:H	2.20	0.53
1:L:170:GLY:O	1:L:188:LEU:HA	2.09	0.53
1:L:194:VAL:HG21	1:L:444:TYR:CZ	2.44	0.53
1:L:278:LYS:CB	1:O:354:THR:HG22	2.39	0.53
1:N:153:GLN:NE2	1:N:300:VAL:HG12	2.23	0.53
1:O:163:PRO:HB3	1:O:330:PHE:CE1	2.43	0.53
1:B:96:GLN:CA	1:B:382:THR:HA	2.38	0.53
1:B:391:ILE:CG2	1:B:399:LEU:CD2	2.86	0.53
1:D:77:LEU:HD22	1:D:455:PHE:CZ	2.43	0.53
1:D:120:HIS:CE1	1:D:122:LEU:H	2.24	0.53
1:E:154:THR:H	1:E:336:THR:HG23	1.73	0.53
1:F:139:ALA:HB1	1:F:143:ASN:OD1	2.09	0.53
1:F:154:THR:CG2	1:F:154:THR:HB	2.20	0.53
1:F:317:GLN:NE2	1:F:317:GLN:C	2.66	0.53
1:F:317:GLN:O	1:J:466:ARG:HD2	2.08	0.53
1:H:52:ILE:HD12	1:H:52:ILE:N	2.24	0.53
1:H:363:TYR:CD1	1:I:185:CYS:HB2	2.44	0.53
1:I:163:PRO:HB3	1:I:330:PHE:CE1	2.44	0.53
1:J:302:SER:O	1:J:304:ALA:N	2.40	0.53
1:K:65:VAL:O	1:K:366:HIS:HB3	2.08	0.53
1:K:135:TYR:HE2	1:K:287:ALA:HB2	1.73	0.53
1:K:383:LEU:HD23	1:K:388:MET:HE2	1.90	0.53
1:L:150:ASP:OD2	1:L:150:ASP:N	2.39	0.53
1:L:384:THR:O	1:L:388:MET:HB2	2.09	0.53
1:N:149:MET:HE2	1:N:205:PHE:CE1	2.44	0.53
1:O:120:HIS:ND1	1:O:121:PRO:HD2	2.23	0.53
1:O:440:PRO:HA	1:O:443:LYS:NZ	2.24	0.53
1:A:207:ALA:O	1:A:208:MET:HB3	2.09	0.53
1:A:242:TYR:CE2	1:A:394:MET:CG	2.91	0.53
1:B:217:LYS:C	1:B:218:SER:OG	2.51	0.53
1:B:300:VAL:HB	1:B:337:THR:HG22	1.91	0.53
1:C:61:LEU:HD12	1:C:61:LEU:O	2.08	0.53
1:C:113:LEU:N	1:C:113:LEU:CD1	2.72	0.53
1:D:400:GLU:C	1:D:402:TRP:N	2.66	0.53
1:E:77:LEU:HD22	1:E:455:PHE:CZ	2.43	0.53
1:E:193:THR:CG2	1:E:230:LYS:CD	2.87	0.53
1:F:208:MET:SD	1:F:210:PHE:CE2	3.02	0.53
1:F:344:LEU:CB	1:G:213:LEU:O	2.57	0.53
1:G:157:CYS:HA	1:G:332:THR:O	2.09	0.53
1:I:49:TYR:HE1	1:I:364:LEU:CD1	2.21	0.53
1:I:157:CYS:HB3	1:I:250:LEU:HD13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:162:LYS:C	1:I:330:PHE:HD1	2.17	0.53
1:L:39:THR:CG2	1:L:372:LEU:HB2	2.32	0.53
1:L:227:SER:CA	1:L:228:ILE:HD12	2.39	0.53
1:M:75:ILE:HB	1:M:329:LEU:CB	2.38	0.53
1:N:114:GLY:HA3	1:N:340:THR:OG1	2.09	0.53
1:O:49:TYR:HE1	1:O:364:LEU:HD13	1.72	0.53
1:O:210:PHE:O	1:O:214:GLN:HB2	2.09	0.53
1:A:162:LYS:C	1:A:330:PHE:CD1	2.80	0.53
1:A:200:MET:HB2	1:A:228:ILE:O	2.09	0.53
1:A:228:ILE:HD12	1:A:228:ILE:N	2.24	0.53
1:A:326:GLY:O	1:A:327:ASN:HB2	2.08	0.53
1:B:467:LYS:CG	1:B:467:LYS:CE	2.81	0.53
1:C:237:MET:HB3	1:C:246:LEU:HD22	1.91	0.53
1:C:464:LEU:HD22	1:C:464:LEU:O	2.08	0.53
1:D:87:ASP:O	1:D:90:PHE:CE2	2.62	0.53
1:D:302:SER:C	1:D:304:ALA:H	2.16	0.53
1:D:361:LYS:HD3	1:D:363:TYR:OH	2.09	0.53
1:E:315:ARG:O	1:E:316:ALA:HB2	2.09	0.53
1:F:188:LEU:HD21	1:J:344:LEU:HD13	1.91	0.53
1:F:367:GLY:O	1:F:368:GLU:HG2	2.09	0.53
1:G:99:VAL:HG11	1:G:323:ILE:HG23	1.91	0.53
1:G:223:ASP:OD1	1:G:224:ILE:N	2.42	0.53
1:H:154:THR:H	1:H:336:THR:CG2	2.21	0.53
1:I:255:MET:CG	1:I:256:PHE:H	2.20	0.53
1:L:126:LEU:HB3	1:L:262:ASN:HB3	1.89	0.53
1:L:439:ASP:OD2	1:L:440:PRO:HD2	2.08	0.53
1:M:162:LYS:C	1:M:330:PHE:CD1	2.83	0.53
1:N:246:LEU:CD2	1:N:246:LEU:N	2.72	0.53
1:O:53:LYS:HD3	1:O:58:ASN:HA	1.90	0.53
1:A:50:PHE:HB2	1:A:51:PRO:HD2	1.91	0.52
1:A:451:LEU:HA	1:A:454:LYS:HG3	1.91	0.52
1:B:54:LYS:HG2	1:B:57:ASN:HB3	1.90	0.52
1:B:76:HIS:HB2	1:B:450:ASN:HA	1.91	0.52
1:B:79:ASP:O	1:B:82:LYS:N	2.42	0.52
1:C:47:HIS:HB2	1:C:52:ILE:HD11	1.91	0.52
1:E:29:ALA:HB3	1:E:380:LYS:HG3	1.91	0.52
1:E:152:LYS:HG3	1:E:152:LYS:O	2.08	0.52
1:E:154:THR:H	1:E:336:THR:CG2	2.22	0.52
1:E:471:GLN:O	1:E:472:LEU:OXT	2.27	0.52
1:F:117:ILE:HG21	1:G:293:PRO:HD3	1.92	0.52
1:F:283:THR:HG21	1:J:142:ASP:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:46:GLY:CA	1:G:65:VAL:HB	2.40	0.52
1:G:272:PRO:HB2	1:G:275:LEU:HG	1.91	0.52
1:G:344:LEU:HD12	1:H:186:PRO:HB2	1.91	0.52
1:H:112:PRO:HD3	1:I:231:TYR:CG	2.42	0.52
1:H:151:TYR:OH	1:H:221:PRO:HG2	2.09	0.52
1:I:70:TYR:CE1	1:I:201:VAL:HA	2.43	0.52
1:I:130:GLU:HB2	1:I:260:LEU:HD13	1.89	0.52
1:I:160:GLY:O	1:I:329:LEU:HD23	2.10	0.52
1:I:358:THR:HA	1:J:266:THR:HG23	1.91	0.52
1:J:30:ARG:HH11	1:J:377:GLN:HE22	1.57	0.52
1:J:325:TRP:HB3	1:J:398:ILE:CD1	2.39	0.52
1:L:71:ARG:NH1	1:L:197:ASP:CG	2.68	0.52
1:M:192:ASN:C	1:M:193:THR:HG22	2.32	0.52
1:M:366:HIS:CD2	1:M:367:GLY:N	2.78	0.52
1:N:46:GLY:N	1:N:65:VAL:HB	2.24	0.52
1:N:123:LEU:CD2	1:N:123:LEU:CD1	2.80	0.52
1:O:54:LYS:CB	1:O:57:ASN:HD22	2.21	0.52
1:A:459:LEU:HB3	1:A:465:GLY:HA3	1.92	0.52
1:B:23:SER:N	1:B:319:HIS:HD2	2.07	0.52
1:B:171:LYS:CG	1:B:171:LYS:CE	2.81	0.52
1:B:208:MET:CG	1:B:210:PHE:CE2	2.92	0.52
1:E:49:TYR:HA	1:E:223:ASP:HB3	1.91	0.52
1:F:90:PHE:CD1	1:F:91:TYR:HB3	2.43	0.52
1:G:166:GLY:HA3	1:G:195:ILE:HD11	1.88	0.52
1:G:188:LEU:HD11	1:G:213:LEU:CD1	2.39	0.52
1:G:353:THR:O	1:I:278:LYS:HB2	2.09	0.52
1:G:390:TYR:C	1:G:392:HIS:N	2.67	0.52
1:I:71:ARG:HH11	1:I:71:ARG:CA	2.18	0.52
1:I:400:GLU:O	1:I:401:ASP:C	2.51	0.52
1:J:180:VAL:HG12	1:J:181:GLN:O	2.08	0.52
1:K:112:PRO:HB3	1:L:231:TYR:CD1	2.44	0.52
1:M:81:ASN:ND2	1:M:402:TRP:CD1	2.77	0.52
1:M:390:TYR:C	1:M:392:HIS:N	2.68	0.52
1:O:143:ASN:O	1:O:145:GLU:HG2	2.10	0.52
1:A:69:GLN:HA	1:A:199:ASP:O	2.09	0.52
1:B:71:ARG:HB3	1:B:73:PHE:CE1	2.44	0.52
1:B:149:MET:CE	1:B:205:PHE:CE1	2.92	0.52
1:B:246:LEU:H	1:B:246:LEU:CD2	2.23	0.52
1:C:54:LYS:HG2	1:C:56:ASN:OD1	2.09	0.52
1:C:141:VAL:HG12	1:C:142:ASP:N	2.22	0.52
1:C:172:GLY:O	1:C:173:SER:O	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:180:VAL:HG13	1:E:184:ASP:HB3	1.92	0.52
1:E:472:LEU:O	1:J:138:ASN:HB2	2.09	0.52
1:F:81:ASN:ND2	1:F:98:LEU:O	2.42	0.52
1:F:250:LEU:HD13	1:F:306:ILE:HG21	1.90	0.52
1:G:105:VAL:HG23	1:G:313:LEU:HD11	1.90	0.52
1:I:58:ASN:OD1	1:I:58:ASN:N	2.41	0.52
1:I:65:VAL:HA	1:I:69:GLN:HE22	1.73	0.52
1:I:66:SER:H	1:I:69:GLN:NE2	2.07	0.52
1:I:82:LYS:CE	1:I:82:LYS:HG3	2.38	0.52
1:K:22:VAL:O	1:K:23:SER:C	2.52	0.52
1:K:209:ASP:CG	1:K:212:THR:HG23	2.35	0.52
1:K:216:ASN:CB	1:O:345:CYS:SG	2.83	0.52
1:K:242:TYR:CE2	1:K:394:MET:CG	2.93	0.52
1:K:326:GLY:O	1:K:327:ASN:HB2	2.10	0.52
1:A:42:LEU:HD13	1:A:447:TRP:CZ2	2.44	0.52
1:A:42:LEU:HB2	1:A:370:TYR:HB2	1.92	0.52
1:B:28:VAL:HA	1:B:381:ILE:HG12	1.91	0.52
1:B:35:TYR:CZ	1:B:457:ALA:HB2	2.44	0.52
1:B:115:VAL:CG2	1:C:257:VAL:HG13	2.33	0.52
1:C:151:TYR:HH	1:C:221:PRO:HB2	1.74	0.52
1:C:247:PHE:HD1	1:C:248:PHE:H	1.56	0.52
1:C:464:LEU:CD2	1:C:464:LEU:O	2.57	0.52
1:D:267:VAL:HG11	1:D:270:ASN:OD1	2.10	0.52
1:E:103:VAL:HG23	1:E:104:GLY:N	2.23	0.52
1:F:92:ASN:C	1:F:94:ASP:H	2.16	0.52
1:G:344:LEU:HD13	1:H:213:LEU:CD1	2.34	0.52
1:H:188:LEU:HD11	1:H:213:LEU:HD11	1.91	0.52
1:I:459:LEU:C	1:I:461:GLN:H	2.18	0.52
1:K:85:PHE:CZ	1:K:378:LEU:HD22	2.45	0.52
1:L:149:MET:CE	1:L:205:PHE:CE1	2.93	0.52
1:N:92:ASN:ND2	1:N:95:THR:N	2.45	0.52
1:N:98:LEU:CD1	1:N:378:LEU:HD11	2.21	0.52
1:N:101:ALA:HB3	1:N:377:GLN:O	2.10	0.52
1:O:75:ILE:HG23	1:O:451:LEU:HD12	1.90	0.52
1:O:178:VAL:C	1:O:180:VAL:H	2.11	0.52
1:A:279:GLY:HA3	1:A:283:THR:C	2.34	0.52
1:B:79:ASP:OD1	1:B:80:PRO:HD2	2.09	0.52
1:D:397:THR:HB	1:D:401:ASP:OD2	2.09	0.52
1:E:383:LEU:HD23	1:E:388:MET:CE	2.40	0.52
1:F:185:CYS:HB2	1:J:363:TYR:CG	2.44	0.52
1:H:66:SER:OG	1:H:68:LEU:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:259:HIS:HE1	1:I:130:GLU:CG	2.22	0.52
1:J:75:ILE:HB	1:J:329:LEU:HB2	1.90	0.52
1:J:316:ALA:HB3	1:J:321:ASN:OD1	2.09	0.52
1:L:57:ASN:HD21	1:L:59:LYS:H	1.57	0.52
1:L:180:VAL:HG12	1:L:181:GLN:N	2.25	0.52
1:M:70:TYR:HE1	1:M:201:VAL:HA	1.74	0.52
1:M:120:HIS:NE2	1:M:218:SER:HB3	2.25	0.52
1:N:22:VAL:N	1:N:390:TYR:OH	2.39	0.52
1:N:142:ASP:CG	1:O:283:THR:OG1	2.52	0.52
1:N:163:PRO:N	1:N:330:PHE:CD1	2.77	0.52
1:N:374:PHE:CB	1:N:376:PHE:HE1	2.21	0.52
1:O:122:LEU:HD13	1:O:144:ARG:NH2	2.23	0.52
1:A:149:MET:HG3	1:A:295:PRO:HD2	1.91	0.52
1:B:397:THR:O	1:B:401:ASP:N	2.34	0.52
1:C:125:LYS:NZ	1:D:132:ALA:O	2.41	0.52
1:C:249:TYR:O	1:C:249:TYR:CG	2.63	0.52
1:F:151:TYR:CD2	1:F:203:THR:CB	2.75	0.52
1:H:226:THR:HG21	1:I:275:LEU:HD22	1.90	0.52
1:I:153:GLN:HE22	1:I:300:VAL:HA	1.75	0.52
1:I:459:LEU:HB3	1:I:465:GLY:HA3	1.92	0.52
1:J:79:ASP:HA	1:J:327:ASN:ND2	2.24	0.52
1:J:373:GLN:C	1:J:374:PHE:CD1	2.87	0.52
1:L:99:VAL:HG12	1:L:100:TRP:N	2.23	0.52
1:M:342:MET:HE1	1:N:169:TRP:CD1	2.45	0.52
1:O:104:GLY:HA3	1:O:375:ILE:HB	1.92	0.52
1:A:169:TRP:HB3	1:A:188:LEU:HD12	1.92	0.52
1:B:29:ALA:HB3	1:B:380:LYS:HG3	1.92	0.52
1:B:151:TYR:CG	1:B:203:THR:HB	2.45	0.52
1:B:373:GLN:CB	1:B:464:LEU:HD12	2.40	0.52
1:C:166:GLY:O	1:C:192:ASN:HA	2.08	0.52
1:H:120:HIS:NE2	1:H:218:SER:HB3	2.24	0.52
1:H:255:MET:HG2	1:H:256:PHE:H	1.75	0.52
1:H:307:PHE:C	1:H:309:LYS:N	2.64	0.52
1:I:65:VAL:O	1:I:366:HIS:HB3	2.10	0.52
1:I:255:MET:HG2	1:I:256:PHE:N	2.22	0.52
1:J:155:GLN:HG2	1:J:307:PHE:HE1	1.75	0.52
1:J:280:SER:N	1:J:284:ALA:HB2	2.25	0.52
1:J:390:TYR:C	1:J:392:HIS:N	2.66	0.52
1:K:260:LEU:N	1:K:260:LEU:CD1	2.60	0.52
1:K:299:MET:HA	1:L:255:MET:O	2.09	0.52
1:L:36:HIS:ND1	1:L:36:HIS:C	2.66	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:75:ILE:HB	1:L:329:LEU:HB3	1.91	0.52
1:L:292:PHE:CD1	1:L:292:PHE:C	2.88	0.52
1:N:23:SER:OG	1:N:25:ASP:HB2	2.09	0.52
1:N:154:THR:HG23	1:N:253:GLU:HB3	1.92	0.52
1:N:222:LEU:HA	1:N:225:CYS:SG	2.50	0.52
1:O:325:TRP:CZ2	1:O:394:MET:HE1	2.45	0.52
1:A:92:ASN:O	1:A:94:ASP:N	2.42	0.52
1:A:124:ASN:HD22	1:A:216:ASN:ND2	2.06	0.52
1:D:75:ILE:HB	1:D:329:LEU:HB3	1.91	0.52
1:E:46:GLY:HA3	1:E:63:PRO:O	2.10	0.52
1:E:367:GLY:C	1:E:368:GLU:HG2	2.33	0.52
1:F:97:ARG:HG2	1:F:383:LEU:HD13	1.85	0.52
1:G:163:PRO:HD3	1:G:330:PHE:HE1	1.73	0.52
1:G:348:ILE:O	1:G:348:ILE:HG13	2.10	0.52
1:H:34:TYR:CE2	1:H:377:GLN:HB2	2.45	0.52
1:H:95:THR:O	1:H:383:LEU:N	2.33	0.52
1:H:124:ASN:OD1	1:H:124:ASN:O	2.28	0.52
1:H:235:ILE:O	1:H:235:ILE:HG22	2.10	0.52
1:H:323:ILE:HD13	1:H:323:ILE:N	2.24	0.52
1:H:459:LEU:C	1:H:461:GLN:H	2.18	0.52
1:I:80:PRO:HB3	1:I:100:TRP:NE1	2.25	0.52
1:K:155:GLN:HB3	1:K:252:ARG:HB3	1.92	0.52
1:K:279:GLY:HA3	1:K:283:THR:C	2.34	0.52
1:L:96:GLN:HE21	1:L:382:THR:HG22	1.75	0.52
1:M:79:ASP:OD2	1:M:81:ASN:CB	2.41	0.52
1:M:180:VAL:HG13	1:M:184:ASP:HB3	1.88	0.52
1:M:443:LYS:N	1:M:443:LYS:HD3	2.25	0.52
1:O:92:ASN:ND2	1:O:95:THR:N	2.55	0.52
1:A:31:THR:HG23	1:A:378:LEU:O	2.10	0.52
1:A:167:GLU:N	1:A:231:TYR:O	2.43	0.52
1:A:238:VAL:C	1:A:240:GLU:H	2.18	0.52
1:B:120:HIS:CE1	1:B:122:LEU:H	2.28	0.52
1:B:384:THR:OG1	1:B:385:ALA:N	2.41	0.52
1:D:61:LEU:HD12	1:D:61:LEU:O	2.09	0.52
1:D:121:PRO:HD3	1:D:222:LEU:CD1	2.40	0.52
1:E:42:LEU:HD13	1:E:447:TRP:CE2	2.45	0.52
1:E:66:SER:O	1:E:69:GLN:HG3	2.10	0.52
1:E:155:GLN:HB3	1:E:252:ARG:HB3	1.92	0.52
1:G:72:VAL:HG13	1:G:332:THR:HG23	1.92	0.52
1:G:166:GLY:HA2	1:G:195:ILE:HD11	1.92	0.52
1:G:262:ASN:OD1	1:G:288:SER:O	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:307:PHE:C	1:G:309:LYS:H	2.17	0.52
1:H:119:GLY:C	1:H:221:PRO:HA	2.34	0.52
1:I:79:ASP:OD2	1:I:82:LYS:HE3	2.08	0.52
1:I:217:LYS:HG2	1:J:276:TYR:CA	2.40	0.52
1:I:463:PRO:HB3	1:I:466:ARG:HH21	1.75	0.52
1:J:440:PRO:HA	1:J:443:LYS:HZ3	1.73	0.52
1:K:80:PRO:O	1:K:98:LEU:HD12	2.10	0.52
1:K:329:LEU:HD13	1:K:374:PHE:CE2	2.45	0.52
1:N:361:LYS:HD3	1:N:363:TYR:OH	2.09	0.52
1:O:42:LEU:HB2	1:O:370:TYR:HB2	1.90	0.52
1:O:200:MET:HB2	1:O:228:ILE:O	2.10	0.52
1:O:307:PHE:C	1:O:309:LYS:H	2.18	0.52
1:A:96:GLN:HB3	1:A:382:THR:HG22	1.91	0.52
1:A:121:PRO:C	1:A:122:LEU:HD23	2.34	0.52
1:B:36:HIS:ND1	1:B:36:HIS:C	2.68	0.52
1:B:80:PRO:O	1:B:82:LYS:N	2.43	0.52
1:D:194:VAL:CG2	1:D:194:VAL:CG1	2.81	0.52
1:E:231:TYR:OH	1:E:253:GLU:OE2	2.25	0.52
1:F:46:GLY:HA3	1:F:63:PRO:O	2.11	0.52
1:F:149:MET:CE	1:F:205:PHE:CE1	2.93	0.52
1:G:217:LYS:NZ	1:G:217:LYS:CD	2.66	0.52
1:G:228:ILE:N	1:G:228:ILE:CD1	2.72	0.52
1:G:457:ALA:O	1:G:459:LEU:CD2	2.58	0.52
1:I:85:PHE:CZ	1:I:378:LEU:HD22	2.44	0.52
1:I:387:VAL:O	1:I:391:ILE:HG13	2.09	0.52
1:I:451:LEU:HD23	1:I:454:LYS:HG3	1.92	0.52
1:J:260:LEU:HD12	1:J:260:LEU:H	1.71	0.52
1:L:35:TYR:O	1:L:376:PHE:N	2.29	0.52
1:L:356:LYS:O	1:L:357:ASN:C	2.53	0.52
1:L:459:LEU:HB3	1:L:465:GLY:HA3	1.92	0.52
1:M:57:ASN:HD21	1:M:59:LYS:CB	2.23	0.52
1:N:66:SER:OG	1:N:68:LEU:HD12	2.10	0.52
1:N:75:ILE:HB	1:N:329:LEU:HB3	1.92	0.52
1:O:67:GLY:C	1:O:68:LEU:HG	2.34	0.52
1:A:395:ASN:O	1:A:398:ILE:HG12	2.10	0.51
1:B:67:GLY:C	1:B:68:LEU:HG	2.35	0.51
1:B:180:VAL:HG12	1:B:181:GLN:C	2.34	0.51
1:C:74:ARG:NH2	1:C:441:LEU:HD12	2.25	0.51
1:C:307:PHE:O	1:C:308:ASN:CB	2.56	0.51
1:C:375:ILE:HG21	1:C:468:PHE:CD2	2.44	0.51
1:D:119:GLY:HA3	1:E:291:TYR:CE1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:343:SER:HB3	1:E:364:LEU:HD23	1.92	0.51
1:F:120:HIS:HB3	1:F:123:LEU:HB2	1.91	0.51
1:F:120:HIS:ND1	1:F:122:LEU:N	2.51	0.51
1:F:396:SER:O	1:F:397:THR:C	2.52	0.51
1:G:121:PRO:HG3	1:H:289:SER:OG	2.10	0.51
1:G:130:GLU:HB2	1:G:260:LEU:HD13	1.91	0.51
1:G:217:LYS:O	1:G:218:SER:HB3	2.09	0.51
1:H:34:TYR:HE2	1:H:377:GLN:HB2	1.75	0.51
1:I:54:LYS:HB2	1:I:57:ASN:HD22	1.74	0.51
1:I:108:GLY:HA3	1:I:371:ASP:O	2.10	0.51
1:I:155:GLN:HB3	1:I:252:ARG:HB3	1.91	0.51
1:I:280:SER:CA	1:I:284:ALA:HB2	2.40	0.51
1:K:112:PRO:HB2	1:L:202:ASP:OD2	2.09	0.51
1:L:72:VAL:HG13	1:L:332:THR:HG23	1.92	0.51
1:L:216:ASN:O	1:M:277:ILE:HD11	2.10	0.51
1:M:323:ILE:HG21	1:M:325:TRP:CH2	2.45	0.51
1:N:375:ILE:HG12	1:N:464:LEU:CD1	2.41	0.51
1:O:54:LYS:CG	1:O:57:ASN:HB3	2.40	0.51
1:O:196:GLN:N	1:O:199:ASP:OD2	2.36	0.51
1:O:280:SER:O	1:O:280:SER:OG	2.28	0.51
1:A:66:SER:O	1:A:69:GLN:HG3	2.10	0.51
1:A:81:ASN:OD1	1:A:98:LEU:N	2.42	0.51
1:A:122:LEU:O	1:A:218:SER:HB2	2.10	0.51
1:A:260:LEU:HD12	1:A:260:LEU:N	2.25	0.51
1:D:75:ILE:HD12	1:D:75:ILE:H	1.76	0.51
1:F:124:ASN:OD1	1:F:264:ALA:N	2.39	0.51
1:F:208:MET:SD	1:F:210:PHE:HE2	2.32	0.51
1:G:57:ASN:HD21	1:G:59:LYS:HB3	1.75	0.51
1:G:360:PHE:CE2	1:H:216:ASN:HA	2.46	0.51
1:H:54:LYS:HZ2	1:H:54:LYS:HA	1.74	0.51
1:H:189:GLU:O	1:H:191:ILE:HG12	2.09	0.51
1:I:258:ARG:HB2	1:I:296:SER:HB2	1.91	0.51
1:J:254:GLN:HE22	1:J:298:SER:HB3	1.76	0.51
1:J:463:PRO:HG2	1:J:464:LEU:N	2.25	0.51
1:K:129:THR:O	1:O:147:ILE:HA	2.11	0.51
1:K:298:SER:OG	1:K:299:MET:N	2.44	0.51
1:L:96:GLN:HE21	1:L:382:THR:CG2	2.23	0.51
1:M:70:TYR:CE1	1:M:201:VAL:HA	2.45	0.51
1:O:316:ALA:C	1:O:318:GLY:H	2.18	0.51
1:A:68:LEU:HB3	1:A:201:VAL:CG2	2.40	0.51
1:A:217:LYS:O	1:A:218:SER:HB3	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:92:ASN:C	1:B:94:ASP:H	2.19	0.51
1:B:167:GLU:HG3	1:B:231:TYR:O	2.11	0.51
1:D:367:GLY:O	1:D:368:GLU:HG2	2.11	0.51
1:F:241:PRO:C	1:F:243:GLY:H	2.19	0.51
1:G:158:LEU:O	1:G:332:THR:N	2.35	0.51
1:G:440:PRO:HA	1:G:443:LYS:HZ1	1.75	0.51
1:H:112:PRO:CD	1:I:231:TYR:CD2	2.88	0.51
1:I:75:ILE:HD13	1:I:329:LEU:HB3	1.92	0.51
1:K:121:PRO:HG3	1:L:289:SER:CB	2.41	0.51
1:K:155:GLN:HG2	1:K:306:ILE:HG12	1.92	0.51
1:L:49:TYR:HA	1:L:223:ASP:HB3	1.91	0.51
1:M:160:GLY:HA3	1:M:245:SER:O	2.10	0.51
1:O:325:TRP:CE2	1:O:394:MET:HE1	2.45	0.51
1:O:395:ASN:O	1:O:398:ILE:HG12	2.10	0.51
1:A:134:ALA:O	1:A:135:TYR:C	2.53	0.51
1:B:397:THR:HB	1:B:401:ASP:OD2	2.10	0.51
1:C:22:VAL:O	1:C:23:SER:C	2.54	0.51
1:D:163:PRO:N	1:D:330:PHE:CD1	2.78	0.51
1:D:255:MET:CG	1:D:256:PHE:N	2.59	0.51
1:F:57:ASN:HD21	1:F:59:LYS:HB3	1.74	0.51
1:F:96:GLN:HB3	1:F:382:THR:HG22	1.92	0.51
1:H:54:LYS:HA	1:H:54:LYS:HZ3	1.73	0.51
1:I:139:ALA:HB1	1:I:143:ASN:OD1	2.11	0.51
1:I:175:CYS:O	1:I:177:GLN:N	2.37	0.51
1:I:228:ILE:N	1:I:228:ILE:CD1	2.64	0.51
1:I:323:ILE:O	1:I:325:TRP:N	2.42	0.51
1:I:335:ASP:OD1	1:I:337:THR:OG1	2.28	0.51
1:I:345:CYS:HA	1:I:361:LYS:O	2.10	0.51
1:J:66:SER:N	1:J:69:GLN:HE21	2.06	0.51
1:J:345:CYS:CB	1:J:362:GLU:OE2	2.58	0.51
1:K:149:MET:HE2	1:K:295:PRO:CD	2.40	0.51
1:K:163:PRO:N	1:K:330:PHE:HD1	2.08	0.51
1:L:335:ASP:OD1	1:L:337:THR:OG1	2.28	0.51
1:L:471:GLN:CD	1:L:471:GLN:C	2.78	0.51
1:M:130:GLU:HB2	1:M:260:LEU:CD1	2.38	0.51
1:M:223:ASP:OD1	1:M:224:ILE:HG23	2.10	0.51
1:N:74:ARG:CG	1:N:330:PHE:HE2	2.24	0.51
1:O:300:VAL:O	1:O:300:VAL:HG23	2.09	0.51
1:A:237:MET:HB3	1:A:246:LEU:HD21	1.92	0.51
1:B:152:LYS:NZ	1:B:253:GLU:OE1	2.42	0.51
1:B:262:ASN:CG	1:B:288:SER:HB3	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:24:THR:C	1:E:26:GLU:H	2.17	0.51
1:E:223:ASP:OD1	1:E:224:ILE:N	2.44	0.51
1:F:242:TYR:CE2	1:F:394:MET:HB2	2.46	0.51
1:G:156:LEU:C	1:G:156:LEU:HD12	2.36	0.51
1:J:47:HIS:HB3	1:J:50:PHE:O	2.11	0.51
1:A:170:GLY:HA2	1:A:213:LEU:HD21	1.91	0.51
1:A:276:TYR:N	1:A:276:TYR:CD2	2.78	0.51
1:B:20:ALA:O	1:B:390:TYR:HE1	1.93	0.51
1:B:263:ARG:HG2	1:B:292:PHE:CD2	2.43	0.51
1:C:259:HIS:HE1	1:D:130:GLU:OE1	1.93	0.51
1:D:159:ILE:CG2	1:D:247:PHE:HE1	2.23	0.51
1:D:356:LYS:NZ	1:D:356:LYS:CD	2.70	0.51
1:F:256:PHE:CD1	1:F:257:VAL:N	2.78	0.51
1:F:320:ASN:OD1	1:F:320:ASN:C	2.54	0.51
1:F:389:THR:OG1	1:F:390:TYR:N	2.43	0.51
1:G:65:VAL:O	1:G:366:HIS:HB3	2.10	0.51
1:G:68:LEU:HD23	1:G:201:VAL:HG21	1.93	0.51
1:G:72:VAL:HG21	1:G:195:ILE:O	2.11	0.51
1:I:228:ILE:HD12	1:I:228:ILE:H	1.73	0.51
1:I:373:GLN:HB3	1:I:464:LEU:HD12	1.92	0.51
1:I:391:ILE:HG21	1:I:402:TRP:CZ3	2.46	0.51
1:J:374:PHE:HB3	1:J:376:PHE:CE1	2.46	0.51
1:K:105:VAL:HG13	1:K:106:GLU:N	2.24	0.51
1:K:213:LEU:O	1:O:344:LEU:HB2	2.10	0.51
1:L:70:TYR:OH	1:L:230:LYS:O	2.18	0.51
1:L:122:LEU:O	1:L:218:SER:HB2	2.10	0.51
1:L:124:ASN:HD22	1:L:216:ASN:ND2	2.08	0.51
1:L:166:GLY:H	1:L:195:ILE:HD11	1.67	0.51
1:A:200:MET:O	1:A:229:CYS:HA	2.11	0.51
1:A:223:ASP:OD1	1:A:223:ASP:C	2.54	0.51
1:B:323:ILE:HG21	1:B:325:TRP:CH2	2.46	0.51
1:C:194:VAL:HG21	1:C:444:TYR:CE2	2.46	0.51
1:D:23:SER:OG	1:D:25:ASP:N	2.43	0.51
1:D:64:LYS:CB	1:D:64:LYS:CD	2.83	0.51
1:D:71:ARG:NH1	1:D:71:ARG:HG2	2.25	0.51
1:D:149:MET:HE1	1:D:205:PHE:CZ	2.45	0.51
1:E:300:VAL:CG1	1:E:337:THR:HG22	2.41	0.51
1:F:65:VAL:CA	1:F:69:GLN:NE2	2.72	0.51
1:G:259:HIS:HE1	1:H:130:GLU:OE1	1.93	0.51
1:H:28:VAL:CG1	1:H:29:ALA:H	2.24	0.51
1:H:66:SER:HA	1:H:366:HIS:ND1	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:72:VAL:HG21	1:H:195:ILE:O	2.10	0.51
1:I:54:LYS:HA	1:I:54:LYS:HZ1	1.76	0.51
1:I:149:MET:HE1	1:I:205:PHE:HE1	1.74	0.51
1:I:178:VAL:C	1:I:180:VAL:H	2.18	0.51
1:J:189:GLU:O	1:J:191:ILE:HG13	2.11	0.51
1:K:216:ASN:H	1:O:345:CYS:HG	1.57	0.51
1:L:122:LEU:CD1	1:M:286:LEU:HD11	2.34	0.51
1:M:467:LYS:O	1:M:470:LEU:N	2.43	0.51
1:N:246:LEU:HD23	1:N:246:LEU:H	1.76	0.51
1:N:466:ARG:HD2	1:O:317:GLN:O	2.11	0.51
1:A:149:MET:CA	1:B:260:LEU:HD21	2.41	0.51
1:A:178:VAL:CG2	1:A:178:VAL:CA	2.81	0.51
1:B:143:ASN:O	1:B:144:ARG:C	2.54	0.51
1:B:248:PHE:CE2	1:B:311:TYR:HB3	2.45	0.51
1:C:49:TYR:HE1	1:C:364:LEU:CD1	2.23	0.51
1:C:115:VAL:HA	1:C:339:SER:OG	2.11	0.51
1:C:163:PRO:N	1:C:330:PHE:CD1	2.78	0.51
1:D:123:LEU:CD2	1:D:123:LEU:HG	2.18	0.51
1:D:151:TYR:CG	1:D:203:THR:HB	2.46	0.51
1:D:163:PRO:HA	1:D:330:PHE:CD1	2.46	0.51
1:D:188:LEU:HD11	1:D:213:LEU:CD1	2.39	0.51
1:E:78:PRO:HD2	1:E:455:PHE:CE1	2.46	0.51
1:E:148:SER:O	1:E:149:MET:HB3	2.09	0.51
1:E:207:ALA:HB1	1:E:229:CYS:O	2.11	0.51
1:F:126:LEU:HG	1:F:127:ASP:CG	2.36	0.51
1:F:358:THR:HA	1:G:266:THR:HG22	1.91	0.51
1:H:344:LEU:CB	1:I:213:LEU:HD12	2.40	0.51
1:K:157:CYS:HB2	1:K:307:PHE:CE2	2.46	0.51
1:K:255:MET:HE1	1:O:115:VAL:N	2.25	0.51
1:L:185:CYS:SG	1:L:186:PRO:HD2	2.51	0.51
1:L:193:THR:OG1	1:L:194:VAL:N	2.43	0.51
1:O:152:LYS:HE2	1:O:202:ASP:HB3	1.92	0.51
1:A:101:ALA:O	1:A:376:PHE:HA	2.11	0.51
1:A:114:GLY:HA2	1:B:255:MET:SD	2.49	0.51
1:A:390:TYR:C	1:A:392:HIS:N	2.67	0.51
1:B:49:TYR:HE2	1:B:118:SER:CA	2.15	0.51
1:C:29:ALA:HB3	1:C:380:LYS:HG3	1.92	0.51
1:C:348:ILE:O	1:C:349:SER:HB3	2.11	0.51
1:D:92:ASN:O	1:D:94:ASP:N	2.43	0.51
1:D:247:PHE:HD1	1:D:248:PHE:H	1.58	0.51
1:E:124:ASN:OD1	1:E:124:ASN:O	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:193:THR:HG21	1:E:230:LYS:HD3	1.93	0.51
1:F:117:ILE:HG13	1:F:149:MET:O	2.10	0.51
1:F:176:THR:CG2	1:F:176:THR:HB	2.19	0.51
1:F:219:GLU:O	1:F:220:VAL:HG13	2.10	0.51
1:G:42:LEU:HB2	1:G:370:TYR:HB2	1.92	0.51
1:G:70:TYR:O	1:G:71:ARG:NH1	2.44	0.51
1:G:115:VAL:HG22	1:H:255:MET:SD	2.51	0.51
1:H:142:ASP:O	1:I:283:THR:HG21	2.11	0.51
1:H:162:LYS:CG	1:H:244:ASP:HB3	2.41	0.51
1:I:68:LEU:HD23	1:I:201:VAL:CG2	2.40	0.51
1:I:189:GLU:O	1:I:191:ILE:HG13	2.11	0.51
1:K:142:ASP:O	1:L:283:THR:CG2	2.58	0.51
1:K:302:SER:C	1:K:304:ALA:H	2.19	0.51
1:K:399:LEU:HA	1:K:402:TRP:HE3	1.76	0.51
1:M:42:LEU:HD22	1:M:447:TRP:HZ2	1.75	0.51
1:M:71:ARG:HB3	1:M:73:PHE:CE1	2.46	0.51
1:N:48:PRO:HG2	1:N:49:TYR:CD1	2.46	0.51
1:O:125:LYS:HD3	1:O:126:LEU:N	2.26	0.51
1:A:61:LEU:O	1:A:61:LEU:CD1	2.54	0.51
1:A:154:THR:O	1:A:336:THR:HG23	2.10	0.51
1:A:343:SER:HB3	1:A:364:LEU:HD23	1.93	0.51
1:B:171:LYS:CD	1:B:171:LYS:CB	2.78	0.51
1:B:259:HIS:CE1	1:C:130:GLU:HG2	2.46	0.51
1:D:185:CYS:SG	1:D:186:PRO:HD2	2.50	0.51
1:D:358:THR:HA	1:E:266:THR:HG21	1.90	0.51
1:F:213:LEU:CD1	1:J:344:LEU:HD13	2.41	0.51
1:F:341:ASN:HB3	1:F:366:HIS:HB2	1.92	0.51
1:H:155:GLN:HB3	1:H:252:ARG:HB3	1.91	0.51
1:I:363:TYR:CE2	1:J:185:CYS:HB2	2.46	0.51
1:I:398:ILE:HG22	1:I:402:TRP:CE3	2.46	0.51
1:J:90:PHE:CD1	1:J:91:TYR:HB3	2.47	0.51
1:J:280:SER:CA	1:J:284:ALA:HB2	2.41	0.51
1:J:399:LEU:HA	1:J:402:TRP:HE3	1.75	0.51
1:K:442:LYS:HB3	1:K:443:LYS:HD3	1.93	0.51
1:L:153:GLN:HE22	1:L:300:VAL:HA	1.76	0.51
1:M:72:VAL:HG23	1:M:197:ASP:HA	1.93	0.51
1:O:227:SER:C	1:O:228:ILE:HD12	2.35	0.51
1:O:452:LYS:CD	1:O:452:LYS:NZ	2.73	0.51
1:B:54:LYS:CG	1:B:56:ASN:OD1	2.59	0.50
1:C:302:SER:C	1:C:304:ALA:N	2.64	0.50
1:D:35:TYR:CD2	1:D:456:SER:C	2.89	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:315:ARG:O	1:D:316:ALA:HB2	2.11	0.50
1:E:36:HIS:ND1	1:E:37:ALA:N	2.59	0.50
1:F:42:LEU:HB2	1:F:370:TYR:HB2	1.93	0.50
1:F:125:LYS:HE2	1:F:127:ASP:C	2.35	0.50
1:G:27:TYR:CE2	1:G:390:TYR:CE2	3.00	0.50
1:G:79:ASP:OD2	1:G:81:ASN:HB2	2.11	0.50
1:G:99:VAL:HG11	1:G:323:ILE:CG2	2.41	0.50
1:G:252:ARG:HD2	1:G:306:ILE:HD11	1.93	0.50
1:G:323:ILE:HG21	1:G:325:TRP:CH2	2.46	0.50
1:I:79:ASP:OD1	1:I:80:PRO:HD2	2.12	0.50
1:I:117:ILE:HD11	1:J:260:LEU:HD23	1.92	0.50
1:J:320:ASN:ND2	1:J:323:ILE:HB	2.26	0.50
1:K:53:LYS:HD3	1:K:58:ASN:HA	1.93	0.50
1:L:27:TYR:CE2	1:L:390:TYR:CE2	2.99	0.50
1:L:54:LYS:HG3	1:L:55:PRO:CD	2.40	0.50
1:M:74:ARG:NH2	1:M:441:LEU:CD1	2.58	0.50
1:M:157:CYS:HB2	1:M:307:PHE:HE2	1.75	0.50
1:M:373:GLN:CB	1:M:464:LEU:HD12	2.41	0.50
1:N:77:LEU:O	1:N:327:ASN:HB3	2.11	0.50
1:N:102:CYS:SG	1:N:313:LEU:HD12	2.51	0.50
1:N:109:ARG:NH1	1:N:370:TYR:CD1	2.80	0.50
1:A:461:GLN:NE2	1:B:21:VAL:HB	2.20	0.50
1:B:176:THR:CG2	1:B:176:THR:CA	2.85	0.50
1:B:193:THR:CG2	1:B:230:LYS:HD2	2.41	0.50
1:B:320:ASN:HD21	1:B:323:ILE:HB	1.76	0.50
1:C:71:ARG:NH1	1:C:198:GLY:H	2.06	0.50
1:D:81:ASN:ND2	1:D:402:TRP:CD1	2.80	0.50
1:D:87:ASP:O	1:D:90:PHE:HE2	1.93	0.50
1:D:471:GLN:CD	1:D:472:LEU:N	2.69	0.50
1:F:24:THR:C	1:F:26:GLU:N	2.66	0.50
1:F:375:ILE:HG21	1:F:468:PHE:CD2	2.45	0.50
1:G:231:TYR:CD1	1:G:232:PRO:HD2	2.46	0.50
1:G:280:SER:O	1:G:281:GLY:C	2.55	0.50
1:H:153:GLN:NE2	1:H:300:VAL:HG12	2.26	0.50
1:H:200:MET:O	1:H:229:CYS:HA	2.11	0.50
1:H:400:GLU:O	1:H:402:TRP:N	2.44	0.50
1:J:237:MET:HE3	1:J:246:LEU:HD13	1.94	0.50
1:K:471:GLN:O	1:K:472:LEU:OXT	2.29	0.50
1:L:139:ALA:CB	1:L:143:ASN:HD21	2.24	0.50
1:L:255:MET:HG2	1:L:256:PHE:H	1.70	0.50
1:L:307:PHE:C	1:L:309:LYS:H	2.16	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:353:THR:O	1:N:278:LYS:HB2	2.11	0.50
1:M:149:MET:HE3	1:M:294:THR:HG22	1.92	0.50
1:M:151:TYR:CZ	1:M:224:ILE:HD13	2.47	0.50
1:M:237:MET:HB3	1:M:246:LEU:HD22	1.93	0.50
1:N:147:ILE:HG23	1:O:129:THR:O	2.10	0.50
1:N:163:PRO:CA	1:N:330:PHE:CD1	2.94	0.50
1:N:223:ASP:OD1	1:N:224:ILE:N	2.44	0.50
1:O:22:VAL:HG23	1:O:22:VAL:O	2.12	0.50
1:A:80:PRO:HG2	1:A:98:LEU:O	2.12	0.50
1:B:90:PHE:HD1	1:B:91:TYR:HB3	1.76	0.50
1:B:234:TYR:O	1:B:235:ILE:C	2.54	0.50
1:D:54:LYS:HE3	1:D:55:PRO:CD	2.26	0.50
1:D:80:PRO:HG2	1:D:98:LEU:C	2.37	0.50
1:D:122:LEU:O	1:D:218:SER:HB2	2.11	0.50
1:E:184:ASP:O	1:E:185:CYS:C	2.54	0.50
1:F:42:LEU:HB2	1:F:370:TYR:CB	2.41	0.50
1:F:178:VAL:C	1:F:180:VAL:H	2.19	0.50
1:F:208:MET:HE1	1:J:342:MET:HB2	1.92	0.50
1:F:255:MET:O	1:J:300:VAL:HG22	2.11	0.50
1:G:123:LEU:O	1:G:125:LYS:N	2.44	0.50
1:G:149:MET:HE1	1:G:205:PHE:CZ	2.46	0.50
1:H:160:GLY:O	1:H:329:LEU:HD23	2.11	0.50
1:J:71:ARG:NH1	1:J:71:ARG:HA	2.23	0.50
1:J:96:GLN:HA	1:J:381:ILE:C	2.34	0.50
1:J:280:SER:O	1:J:281:GLY:C	2.54	0.50
1:J:320:ASN:HD22	1:J:325:TRP:HE1	1.57	0.50
1:J:444:TYR:HB2	1:J:446:PHE:CZ	2.47	0.50
1:K:209:ASP:O	1:K:213:LEU:HB2	2.11	0.50
1:L:60:ILE:O	1:L:60:ILE:HG13	2.10	0.50
1:L:220:VAL:O	1:L:221:PRO:O	2.30	0.50
1:M:139:ALA:HB1	1:M:143:ASN:OD1	2.12	0.50
1:N:142:ASP:OD1	1:O:283:THR:OG1	2.30	0.50
1:O:216:ASN:CG	1:O:219:GLU:OE2	2.54	0.50
1:O:384:THR:HG23	1:O:387:VAL:HG21	1.93	0.50
1:A:92:ASN:ND2	1:A:94:ASP:H	2.09	0.50
1:B:96:GLN:HB3	1:B:382:THR:HA	1.92	0.50
1:C:41:ARG:HG2	1:C:42:LEU:O	2.11	0.50
1:C:70:TYR:OH	1:C:232:PRO:HD3	2.10	0.50
1:C:119:GLY:HA3	1:C:148:SER:HB3	1.94	0.50
1:C:139:ALA:HB1	1:C:143:ASN:HD21	1.75	0.50
1:E:33:ILE:HB	1:E:378:LEU:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:159:ILE:HG22	1:E:247:PHE:HE1	1.77	0.50
1:E:242:TYR:HB3	1:E:244:ASP:OD1	2.11	0.50
1:G:52:ILE:O	1:G:61:LEU:HB3	2.11	0.50
1:G:81:ASN:ND2	1:G:402:TRP:CD1	2.79	0.50
1:G:390:TYR:C	1:G:392:HIS:H	2.20	0.50
1:I:108:GLY:N	1:I:371:ASP:O	2.44	0.50
1:I:237:MET:HB3	1:I:246:LEU:CD2	2.42	0.50
1:J:372:LEU:HB3	1:J:374:PHE:CE1	2.45	0.50
1:K:355:TYR:CE1	1:L:144:ARG:HD3	2.47	0.50
1:L:107:VAL:O	1:L:307:PHE:HB3	2.11	0.50
1:M:170:GLY:HA2	1:M:213:LEU:HD21	1.94	0.50
1:M:364:LEU:HD11	1:N:290:ASN:HA	1.92	0.50
1:N:311:TYR:CD2	1:N:311:TYR:N	2.75	0.50
1:O:228:ILE:N	1:O:228:ILE:CD1	2.64	0.50
1:A:120:HIS:ND1	1:A:121:PRO:HD2	2.25	0.50
1:A:300:VAL:CG1	1:A:300:VAL:CA	2.79	0.50
1:A:391:ILE:HG21	1:A:402:TRP:CZ3	2.47	0.50
1:B:109:ARG:NH1	1:B:370:TYR:CE1	2.80	0.50
1:E:71:ARG:HD2	1:E:447:TRP:CZ3	2.47	0.50
1:E:240:GLU:HG3	1:E:243:GLY:N	2.27	0.50
1:E:307:PHE:C	1:E:309:LYS:H	2.19	0.50
1:E:384:THR:OG1	1:E:387:VAL:HG23	2.12	0.50
1:F:156:LEU:HD21	1:F:334:VAL:HG21	1.94	0.50
1:F:399:LEU:HA	1:F:402:TRP:HE3	1.76	0.50
1:G:30:ARG:HH11	1:G:377:GLN:HE22	1.56	0.50
1:G:293:PRO:O	1:G:293:PRO:HG2	2.11	0.50
1:G:463:PRO:HA	1:G:466:ARG:NE	2.25	0.50
1:H:53:LYS:HD3	1:H:58:ASN:HA	1.93	0.50
1:H:68:LEU:CD2	1:H:203:THR:HG22	2.29	0.50
1:J:78:PRO:CD	1:J:455:PHE:CE1	2.95	0.50
1:J:315:ARG:O	1:J:316:ALA:HB2	2.11	0.50
1:K:24:THR:HA	1:K:27:TYR:CE2	2.46	0.50
1:K:97:ARG:HG3	1:K:383:LEU:HD11	1.93	0.50
1:K:139:ALA:CB	1:K:143:ASN:HD21	2.24	0.50
1:K:471:GLN:OE1	1:K:472:LEU:N	2.45	0.50
1:L:54:LYS:HA	1:L:54:LYS:NZ	2.25	0.50
1:L:194:VAL:CG2	1:L:444:TYR:CE2	2.95	0.50
1:L:389:THR:OG1	1:L:390:TYR:N	2.45	0.50
1:M:242:TYR:CE2	1:M:394:MET:HB2	2.46	0.50
1:O:120:HIS:HE2	1:O:218:SER:HB3	1.72	0.50
1:C:98:LEU:HD13	1:C:378:LEU:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:81:ASN:ND2	1:D:402:TRP:HD1	2.09	0.50
1:D:109:ARG:HE	1:D:338:ARG:HD2	1.77	0.50
1:D:200:MET:O	1:D:229:CYS:HA	2.11	0.50
1:D:384:THR:HG23	1:D:387:VAL:HG21	1.94	0.50
1:E:149:MET:CE	1:E:205:PHE:HE1	2.25	0.50
1:E:152:LYS:HB2	1:E:255:MET:CB	2.22	0.50
1:E:300:VAL:CG1	1:E:337:THR:HA	2.39	0.50
1:F:257:VAL:O	1:J:258:ARG:NH2	2.44	0.50
1:F:329:LEU:HD13	1:F:374:PHE:CE2	2.47	0.50
1:F:397:THR:O	1:F:401:ASP:OD2	2.30	0.50
1:G:155:GLN:OE1	1:G:305:GLN:HA	2.12	0.50
1:H:290:ASN:N	1:H:290:ASN:HD22	2.08	0.50
1:J:75:ILE:HD12	1:J:75:ILE:N	2.26	0.50
1:J:75:ILE:HD13	1:J:329:LEU:HB3	1.94	0.50
1:J:85:PHE:CZ	1:J:378:LEU:HD22	2.46	0.50
1:J:101:ALA:O	1:J:376:PHE:CA	2.57	0.50
1:J:120:HIS:CE1	1:J:122:LEU:H	2.27	0.50
1:K:28:VAL:HG12	1:K:29:ALA:N	2.26	0.50
1:K:30:ARG:HH11	1:K:377:GLN:NE2	2.10	0.50
1:L:360:PHE:N	1:L:360:PHE:CD1	2.80	0.50
1:M:387:VAL:HG13	1:M:391:ILE:HD11	1.94	0.50
1:N:163:PRO:HB3	1:N:330:PHE:CE1	2.46	0.50
1:O:96:GLN:HA	1:O:382:THR:HA	1.94	0.50
1:O:255:MET:HG2	1:O:256:PHE:N	2.26	0.50
1:A:274:ASP:O	1:E:217:LYS:HD3	2.11	0.50
1:A:283:THR:HG1	1:E:142:ASP:CG	2.20	0.50
1:C:323:ILE:HG21	1:C:325:TRP:CH2	2.46	0.50
1:C:440:PRO:CA	1:C:443:LYS:HZ1	2.24	0.50
1:D:312:TRP:CH2	1:D:468:PHE:HA	2.46	0.50
1:E:103:VAL:HG22	1:E:375:ILE:O	2.12	0.50
1:E:316:ALA:C	1:E:318:GLY:N	2.69	0.50
1:F:257:VAL:HG13	1:J:115:VAL:HG21	1.93	0.50
1:F:281:GLY:O	1:F:282:SER:C	2.54	0.50
1:F:451:LEU:CD2	1:F:454:LYS:HG3	2.37	0.50
1:G:458:ASP:OD2	1:G:458:ASP:N	2.44	0.50
1:H:170:GLY:HA2	1:H:213:LEU:HD21	1.94	0.50
1:H:361:LYS:CG	1:H:361:LYS:CE	2.87	0.50
1:K:149:MET:HA	1:L:260:LEU:HD21	1.93	0.50
1:K:255:MET:SD	1:O:115:VAL:HG22	2.52	0.50
1:L:373:GLN:HB2	1:L:464:LEU:HD12	1.94	0.50
1:M:360:PHE:O	1:N:266:THR:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:68:LEU:C	1:N:201:VAL:HG22	2.33	0.50
1:N:155:GLN:OE1	1:N:305:GLN:HA	2.12	0.50
1:N:214:GLN:OE1	1:N:219:GLU:HB2	2.12	0.50
1:N:443:LYS:HD3	1:N:443:LYS:N	2.26	0.50
1:O:242:TYR:CE2	1:O:394:MET:CG	2.85	0.50
1:B:103:VAL:CG2	1:B:104:GLY:N	2.74	0.50
1:B:115:VAL:HG22	1:C:255:MET:SD	2.52	0.50
1:B:336:THR:C	1:B:338:ARG:H	2.18	0.50
1:C:68:LEU:HB3	1:C:201:VAL:HG22	1.94	0.50
1:D:21:VAL:HG12	1:D:390:TYR:OH	2.12	0.50
1:E:92:ASN:ND2	1:E:95:THR:OG1	2.44	0.50
1:E:459:LEU:HB3	1:E:465:GLY:CA	2.35	0.50
1:G:78:PRO:HD2	1:G:455:PHE:CE1	2.46	0.50
1:I:163:PRO:CA	1:I:330:PHE:HD1	2.25	0.50
1:J:241:PRO:HG2	1:J:242:TYR:N	2.27	0.50
1:K:54:LYS:HG3	1:K:55:PRO:CD	2.41	0.50
1:K:439:ASP:C	1:K:441:LEU:H	2.19	0.50
1:L:400:GLU:O	1:L:402:TRP:O	2.29	0.50
1:L:459:LEU:HB3	1:L:465:GLY:CA	2.42	0.50
1:M:276:TYR:CD1	1:M:277:ILE:N	2.80	0.50
1:M:463:PRO:CB	1:M:466:ARG:HH21	2.23	0.50
1:N:95:THR:O	1:N:383:LEU:N	2.38	0.50
1:N:221:PRO:HD2	1:N:224:ILE:HD11	1.93	0.50
1:O:77:LEU:HB2	1:O:327:ASN:HB3	1.94	0.50
1:O:267:VAL:HG12	1:O:269:GLU:O	2.11	0.50
1:A:34:TYR:CZ	1:A:377:GLN:HG3	2.41	0.50
1:A:357:ASN:H	1:B:141:VAL:HG13	1.76	0.50
1:C:137:ALA:O	1:C:138:ASN:O	2.30	0.50
1:C:333:VAL:HG12	1:C:334:VAL:N	2.27	0.50
1:D:167:GLU:HG2	1:D:231:TYR:O	2.12	0.50
1:D:176:THR:CB	1:D:176:THR:C	2.79	0.50
1:E:66:SER:H	1:E:69:GLN:HE21	1.59	0.50
1:E:120:HIS:HA	1:E:222:LEU:HD13	1.93	0.50
1:E:167:GLU:HG2	1:E:233:ASP:HB2	1.94	0.50
1:F:152:LYS:HB2	1:F:255:MET:CB	2.41	0.50
1:G:155:GLN:CD	1:G:306:ILE:HG12	2.36	0.50
1:G:242:TYR:CG	1:G:394:MET:HG3	2.44	0.50
1:H:68:LEU:HD22	1:H:203:THR:CG2	2.29	0.50
1:I:276:TYR:C	1:I:277:ILE:HG12	2.35	0.50
1:I:281:GLY:N	1:I:284:ALA:HB3	2.26	0.50
1:J:81:ASN:C	1:J:82:LYS:HG3	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:395:ASN:O	1:J:398:ILE:HG12	2.12	0.50
1:L:78:PRO:HD2	1:L:455:PHE:CE1	2.47	0.50
1:L:148:SER:HB3	1:M:291:TYR:CD2	2.47	0.50
1:M:248:PHE:CZ	1:M:311:TYR:HB3	2.47	0.50
1:N:79:ASP:O	1:N:83:PHE:N	2.45	0.50
1:A:21:VAL:C	1:A:22:VAL:CG1	2.85	0.49
1:A:438:GLU:HG2	1:A:439:ASP:H	1.76	0.49
1:C:282:SER:C	1:C:284:ALA:H	2.20	0.49
1:E:223:ASP:OD1	1:E:224:ILE:HG23	2.12	0.49
1:F:399:LEU:O	1:F:402:TRP:HB2	2.12	0.49
1:F:463:PRO:HA	1:F:466:ARG:HE	1.77	0.49
1:G:72:VAL:HG23	1:G:197:ASP:HA	1.93	0.49
1:G:105:VAL:HG22	1:G:374:PHE:CD2	2.47	0.49
1:G:115:VAL:H	1:H:255:MET:HE1	1.77	0.49
1:G:335:ASP:OD1	1:G:337:THR:OG1	2.30	0.49
1:I:231:TYR:CD1	1:I:232:PRO:HD2	2.48	0.49
1:K:77:LEU:HD22	1:K:455:PHE:HZ	1.77	0.49
1:K:210:PHE:CE1	1:K:224:ILE:HB	2.46	0.49
1:K:462:PHE:O	1:K:466:ARG:HG3	2.12	0.49
1:L:48:PRO:HG2	1:L:49:TYR:CD1	2.46	0.49
1:L:205:PHE:CD1	1:L:220:VAL:HG12	2.47	0.49
1:M:71:ARG:HH12	1:M:198:GLY:N	2.08	0.49
1:M:302:SER:HB2	1:N:253:GLU:H	1.76	0.49
1:M:390:TYR:O	1:M:392:HIS:N	2.44	0.49
1:M:459:LEU:C	1:M:461:GLN:H	2.20	0.49
1:N:28:VAL:CG1	1:N:28:VAL:CA	2.81	0.49
1:N:280:SER:O	1:N:281:GLY:C	2.53	0.49
1:O:75:ILE:HB	1:O:329:LEU:HB3	1.94	0.49
1:A:160:GLY:HA3	1:A:245:SER:O	2.12	0.49
1:A:250:LEU:HD13	1:A:306:ILE:CG2	2.43	0.49
1:B:33:ILE:HA	1:B:33:ILE:HD13	1.95	0.49
1:B:260:LEU:N	1:B:260:LEU:HD12	2.26	0.49
1:C:155:GLN:HG2	1:C:307:PHE:CE1	2.48	0.49
1:D:162:LYS:HB3	1:D:163:PRO:HD2	1.94	0.49
1:D:237:MET:SD	1:D:246:LEU:HD22	2.52	0.49
1:E:27:TYR:CE2	1:E:390:TYR:CE2	3.00	0.49
1:E:199:ASP:OD2	1:E:230:LYS:NZ	2.44	0.49
1:G:180:VAL:HG13	1:G:184:ASP:HB3	1.92	0.49
1:I:69:GLN:HA	1:I:199:ASP:O	2.13	0.49
1:I:76:HIS:HB2	1:I:450:ASN:HA	1.93	0.49
1:I:250:LEU:HD12	1:I:250:LEU:H	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:465:GLY:O	1:K:466:ARG:C	2.54	0.49
1:M:180:VAL:HG12	1:M:181:GLN:H	1.77	0.49
1:O:119:GLY:HA3	1:O:148:SER:HB3	1.94	0.49
1:O:183:GLY:O	1:O:184:ASP:C	2.55	0.49
1:A:120:HIS:ND1	1:A:121:PRO:CD	2.75	0.49
1:A:399:LEU:O	1:A:402:TRP:HB2	2.12	0.49
1:A:467:LYS:O	1:A:468:PHE:C	2.52	0.49
1:B:81:ASN:HD21	1:B:402:TRP:CD1	2.31	0.49
1:C:214:GLN:CD	1:C:219:GLU:HB2	2.37	0.49
1:D:149:MET:HE2	1:D:205:PHE:CE1	2.47	0.49
1:E:150:ASP:CG	1:E:150:ASP:O	2.53	0.49
1:E:170:GLY:O	1:E:188:LEU:HA	2.13	0.49
1:G:119:GLY:HA3	1:G:148:SER:HB3	1.94	0.49
1:G:150:ASP:CG	1:G:150:ASP:O	2.54	0.49
1:G:248:PHE:CZ	1:G:311:TYR:HB3	2.48	0.49
1:G:279:GLY:C	1:G:284:ALA:HB2	2.37	0.49
1:G:439:ASP:HB3	1:G:442:LYS:HE3	1.94	0.49
1:H:355:TYR:CD1	1:I:144:ARG:HD3	2.47	0.49
1:H:395:ASN:HB3	1:H:398:ILE:HG12	1.94	0.49
1:I:70:TYR:O	1:I:71:ARG:NH1	2.45	0.49
1:I:122:LEU:O	1:I:218:SER:HB2	2.12	0.49
1:I:216:ASN:OD1	1:I:218:SER:N	2.45	0.49
1:I:236:LYS:CB	1:I:236:LYS:CD	2.82	0.49
1:J:193:THR:HG23	1:J:230:LYS:HD2	1.95	0.49
1:K:50:PHE:HB2	1:K:51:PRO:HD2	1.94	0.49
1:K:77:LEU:HD22	1:K:455:PHE:CZ	2.47	0.49
1:K:260:LEU:O	1:K:261:PHE:CD2	2.65	0.49
1:K:293:PRO:HD3	1:O:117:ILE:HG21	1.95	0.49
1:M:439:ASP:OD2	1:M:440:PRO:HD2	2.12	0.49
1:N:158:LEU:HD23	1:N:249:TYR:HB2	1.93	0.49
1:N:302:SER:CB	1:O:253:GLU:H	2.25	0.49
1:O:51:PRO:C	1:O:52:ILE:HD12	2.37	0.49
1:O:380:LYS:C	1:O:381:ILE:HG13	2.37	0.49
1:A:92:ASN:C	1:A:94:ASP:H	2.20	0.49
1:B:65:VAL:HA	1:B:69:GLN:NE2	2.24	0.49
1:B:124:ASN:OD1	1:B:264:ALA:N	2.33	0.49
1:B:148:SER:HB3	1:C:291:TYR:CD2	2.48	0.49
1:B:153:GLN:NE2	1:B:300:VAL:HG12	2.28	0.49
1:B:163:PRO:N	1:B:330:PHE:HD1	2.11	0.49
1:E:54:LYS:HB3	1:E:57:ASN:HD22	1.77	0.49
1:E:306:ILE:O	1:E:306:ILE:HG22	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:439:ASP:O	1:F:442:LYS:HB2	2.12	0.49
1:F:467:LYS:CD	1:F:467:LYS:CB	2.82	0.49
1:G:391:ILE:CG2	1:G:398:ILE:CG2	2.88	0.49
1:I:101:ALA:O	1:I:376:PHE:HA	2.11	0.49
1:I:458:ASP:OD2	1:I:458:ASP:N	2.45	0.49
1:J:91:TYR:CD1	1:J:92:ASN:N	2.81	0.49
1:J:438:GLU:HG2	1:J:439:ASP:N	2.27	0.49
1:K:54:LYS:HB2	1:K:57:ASN:HD22	1.77	0.49
1:K:77:LEU:O	1:K:327:ASN:HB3	2.12	0.49
1:L:69:GLN:HA	1:L:199:ASP:O	2.13	0.49
1:L:159:ILE:CD1	1:L:159:ILE:HG21	2.41	0.49
1:M:355:TYR:CD1	1:N:144:ARG:HD3	2.48	0.49
1:N:216:ASN:HB3	1:N:219:GLU:HG3	1.94	0.49
1:O:54:LYS:CB	1:O:57:ASN:HB3	2.42	0.49
1:O:167:GLU:HG3	1:O:231:TYR:O	2.11	0.49
1:A:51:PRO:C	1:A:52:ILE:HD12	2.37	0.49
1:B:21:VAL:CG1	1:B:22:VAL:N	2.75	0.49
1:B:149:MET:HE1	1:B:205:PHE:CE1	2.48	0.49
1:C:70:TYR:CD2	1:C:195:ILE:HG21	2.47	0.49
1:C:281:GLY:O	1:C:284:ALA:CB	2.60	0.49
1:E:316:ALA:O	1:E:318:GLY:N	2.45	0.49
1:F:145:GLU:OE1	1:G:134:ALA:N	2.46	0.49
1:F:145:GLU:OE1	1:G:134:ALA:HA	2.11	0.49
1:G:149:MET:CE	1:G:295:PRO:HD2	2.42	0.49
1:I:74:ARG:CB	1:I:330:PHE:HE2	2.25	0.49
1:K:66:SER:HA	1:K:366:HIS:ND1	2.27	0.49
1:K:272:PRO:HD2	1:K:275:LEU:HD11	1.94	0.49
1:K:307:PHE:C	1:K:309:LYS:N	2.67	0.49
1:L:21:VAL:CG1	1:L:390:TYR:OH	2.60	0.49
1:L:342:MET:HE1	1:M:169:TRP:CD1	2.47	0.49
1:O:305:GLN:HE22	1:O:337:THR:HG21	1.77	0.49
1:O:355:TYR:C	1:O:355:TYR:CD2	2.91	0.49
1:B:348:ILE:HD12	1:C:182:PRO:O	2.12	0.49
1:D:27:TYR:CE2	1:D:390:TYR:CE2	3.01	0.49
1:D:137:ALA:CB	1:D:137:ALA:N	2.66	0.49
1:E:98:LEU:CD2	1:E:379:CYS:O	2.57	0.49
1:F:68:LEU:O	1:F:201:VAL:HG22	2.12	0.49
1:F:472:LEU:HD23	1:O:138:ASN:HD22	1.76	0.49
1:G:105:VAL:HG12	1:G:106:GLU:N	2.24	0.49
1:G:307:PHE:C	1:G:309:LYS:N	2.70	0.49
1:H:119:GLY:N	1:H:221:PRO:HB3	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:115:VAL:HG21	1:J:257:VAL:HG13	1.95	0.49
1:I:163:PRO:N	1:I:330:PHE:CD1	2.79	0.49
1:I:163:PRO:HA	1:I:330:PHE:CD1	2.47	0.49
1:I:168:HIS:HB2	1:I:208:MET:HA	1.95	0.49
1:I:384:THR:H	1:I:387:VAL:HB	1.77	0.49
1:I:451:LEU:HA	1:I:454:LYS:HG3	1.93	0.49
1:J:178:VAL:CG1	1:J:178:VAL:CG2	2.82	0.49
1:J:391:ILE:HD13	1:J:402:TRP:HH2	1.78	0.49
1:J:397:THR:O	1:J:401:ASP:OD2	2.29	0.49
1:K:259:HIS:CE1	1:L:130:GLU:HG2	2.48	0.49
1:K:395:ASN:HB3	1:K:398:ILE:CG1	2.42	0.49
1:L:180:VAL:HG12	1:L:181:GLN:H	1.76	0.49
1:M:126:LEU:HD13	1:M:264:ALA:HB2	1.95	0.49
1:M:167:GLU:HG3	1:M:167:GLU:O	2.11	0.49
1:N:74:ARG:HG3	1:N:330:PHE:HE2	1.75	0.49
1:N:300:VAL:HG23	1:N:300:VAL:O	2.12	0.49
1:N:384:THR:OG1	1:N:385:ALA:N	2.42	0.49
1:A:302:SER:C	1:A:304:ALA:H	2.21	0.49
1:C:60:ILE:HD13	1:C:60:ILE:CG2	2.36	0.49
1:C:258:ARG:HG3	1:C:259:HIS:ND1	2.28	0.49
1:D:472:LEU:HD23	1:I:138:ASN:ND2	2.19	0.49
1:E:105:VAL:HG12	1:E:106:GLU:N	2.25	0.49
1:G:290:ASN:HD22	1:G:290:ASN:N	2.10	0.49
1:G:297:GLY:C	1:G:298:SER:O	2.54	0.49
1:H:306:ILE:N	1:H:306:ILE:HD13	2.28	0.49
1:H:354:THR:O	1:H:356:LYS:HG3	2.12	0.49
1:H:363:TYR:CE2	1:I:185:CYS:HB2	2.46	0.49
1:H:451:LEU:HA	1:H:454:LYS:CG	2.41	0.49
1:I:34:TYR:CE2	1:I:377:GLN:CB	2.92	0.49
1:I:57:ASN:CG	1:I:59:LYS:H	2.21	0.49
1:I:125:LYS:HD3	1:I:125:LYS:C	2.38	0.49
1:I:471:GLN:CD	1:I:472:LEU:N	2.71	0.49
1:J:153:GLN:NE2	1:J:298:SER:O	2.45	0.49
1:J:180:VAL:CG2	1:J:180:VAL:CA	2.81	0.49
1:K:49:TYR:CE2	1:K:118:SER:HA	2.47	0.49
1:K:115:VAL:HG22	1:L:255:MET:SD	2.53	0.49
1:K:260:LEU:O	1:K:261:PHE:HD2	1.96	0.49
1:K:461:GLN:HE22	1:L:21:VAL:HB	1.78	0.49
1:L:193:THR:CG2	1:L:230:LYS:HD2	2.42	0.49
1:L:463:PRO:HG2	1:L:464:LEU:N	2.27	0.49
1:M:99:VAL:HG12	1:M:100:TRP:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:151:TYR:OH	1:M:221:PRO:CB	2.60	0.49
1:N:250:LEU:HD12	1:N:250:LEU:H	1.77	0.49
1:N:272:PRO:C	1:N:274:ASP:H	2.19	0.49
1:O:24:THR:HG23	1:O:320:ASN:HA	1.92	0.49
1:O:108:GLY:N	1:O:371:ASP:O	2.44	0.49
1:O:156:LEU:C	1:O:156:LEU:HD12	2.37	0.49
1:A:68:LEU:CD2	1:A:201:VAL:HG21	2.37	0.49
1:A:246:LEU:CD2	1:A:246:LEU:N	2.76	0.49
1:C:465:GLY:O	1:C:468:PHE:N	2.45	0.49
1:E:98:LEU:HA	1:E:379:CYS:O	2.12	0.49
1:G:378:LEU:HD12	1:G:379:CYS:H	1.77	0.49
1:H:42:LEU:HB3	1:H:447:TRP:CZ2	2.48	0.49
1:H:80:PRO:C	1:H:82:LYS:H	2.20	0.49
1:J:172:GLY:O	1:J:173:SER:C	2.55	0.49
1:J:465:GLY:O	1:J:468:PHE:N	2.45	0.49
1:L:166:GLY:H	1:L:195:ILE:CD1	2.22	0.49
1:L:201:VAL:HG23	1:L:202:ASP:O	2.13	0.49
1:L:226:THR:HG21	1:M:275:LEU:HD22	1.95	0.49
1:M:96:GLN:NE2	1:M:382:THR:HG22	2.27	0.49
1:O:129:THR:HG1	1:O:260:LEU:C	2.18	0.49
1:O:219:GLU:HB3	1:O:263:ARG:CZ	2.42	0.49
1:A:141:VAL:O	1:A:142:ASP:HB3	2.13	0.49
1:A:355:TYR:CD2	1:A:356:LYS:N	2.81	0.49
1:B:189:GLU:O	1:B:191:ILE:HG13	2.13	0.49
1:C:115:VAL:N	1:D:255:MET:SD	2.84	0.49
1:D:51:PRO:C	1:D:52:ILE:HD12	2.38	0.49
1:E:72:VAL:HG22	1:E:332:THR:HG23	1.94	0.49
1:E:463:PRO:HA	1:E:466:ARG:HE	1.77	0.49
1:F:121:PRO:HD3	1:F:222:LEU:CD2	2.42	0.49
1:G:259:HIS:HE1	1:H:130:GLU:CG	2.26	0.49
1:H:120:HIS:HA	1:H:222:LEU:HD13	1.94	0.49
1:H:459:LEU:HB3	1:H:465:GLY:HA3	1.94	0.49
1:J:24:THR:HA	1:J:27:TYR:CE2	2.46	0.49
1:J:75:ILE:CD1	1:J:331:VAL:HG23	2.42	0.49
1:J:201:VAL:HG23	1:J:202:ASP:O	2.12	0.49
1:K:262:ASN:HD22	1:K:263:ARG:N	2.11	0.49
1:L:147:ILE:HG22	1:L:148:SER:N	2.26	0.49
1:M:71:ARG:HA	1:M:71:ARG:NH1	2.15	0.49
1:N:54:LYS:HE3	1:N:55:PRO:HD2	1.95	0.49
1:O:163:PRO:HD3	1:O:330:PHE:HE1	1.78	0.49
1:O:356:LYS:O	1:O:357:ASN:C	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:216:ASN:CB	1:E:345:CYS:SG	3.01	0.49
1:A:231:TYR:CD2	1:E:112:PRO:CD	2.92	0.49
1:A:438:GLU:HG2	1:A:439:ASP:N	2.27	0.49
1:A:471:GLN:O	1:F:140:GLY:HA2	2.13	0.49
1:B:96:GLN:CB	1:B:382:THR:HA	2.43	0.49
1:B:196:GLN:HA	1:B:446:PHE:CE2	2.47	0.49
1:C:92:ASN:N	1:C:96:GLN:OE1	2.41	0.49
1:D:21:VAL:O	1:D:22:VAL:CG1	2.61	0.49
1:D:216:ASN:OD1	1:D:218:SER:N	2.45	0.49
1:E:91:TYR:HA	1:E:96:GLN:OE1	2.13	0.49
1:F:41:ARG:O	1:F:41:ARG:HG2	2.10	0.49
1:F:54:LYS:HB3	1:F:57:ASN:HD22	1.77	0.49
1:F:240:GLU:HG3	1:F:243:GLY:CA	2.42	0.49
1:G:97:ARG:HG3	1:G:383:LEU:CD1	2.43	0.49
1:G:97:ARG:HG3	1:G:383:LEU:HD13	1.94	0.49
1:G:242:TYR:CD2	1:G:394:MET:CG	2.86	0.49
1:G:395:ASN:C	1:G:395:ASN:ND2	2.71	0.49
1:H:281:GLY:O	1:H:284:ALA:N	2.42	0.49
1:I:57:ASN:HD21	1:I:59:LYS:N	2.09	0.49
1:I:440:PRO:HA	1:I:443:LYS:NZ	2.28	0.49
1:J:240:GLU:HG3	1:J:243:GLY:H	1.77	0.49
1:J:316:ALA:C	1:J:318:GLY:H	2.21	0.49
1:K:71:ARG:HH11	1:K:71:ARG:CA	2.24	0.49
1:K:178:VAL:CG1	1:K:178:VAL:CA	2.84	0.49
1:M:22:VAL:O	1:M:23:SER:C	2.55	0.49
1:M:113:LEU:H	1:M:113:LEU:HD13	1.77	0.49
1:M:167:GLU:N	1:M:231:TYR:O	2.46	0.49
1:O:144:ARG:C	1:O:145:GLU:HG2	2.37	0.49
1:A:355:TYR:O	1:A:356:LYS:HG2	2.12	0.48
1:B:22:VAL:O	1:B:22:VAL:HG23	2.13	0.48
1:B:363:TYR:CD2	1:C:185:CYS:HB2	2.48	0.48
1:B:391:ILE:HG22	1:B:399:LEU:CG	2.42	0.48
1:B:439:ASP:HB3	1:B:442:LYS:HD3	1.95	0.48
1:C:343:SER:HB3	1:C:364:LEU:CD2	2.43	0.48
1:D:21:VAL:C	1:D:22:VAL:HG13	2.39	0.48
1:D:149:MET:CE	1:D:205:PHE:CE1	2.96	0.48
1:D:260:LEU:O	1:D:261:PHE:CD2	2.65	0.48
1:D:280:SER:O	1:D:280:SER:OG	2.25	0.48
1:E:246:LEU:N	1:E:246:LEU:CD2	2.71	0.48
1:E:322:GLY:C	1:E:323:ILE:HD13	2.38	0.48
1:F:22:VAL:O	1:F:23:SER:C	2.55	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:181:GLN:OE1	1:F:182:PRO:O	2.31	0.48
1:F:193:THR:CG2	1:F:230:LYS:HD3	2.43	0.48
1:G:130:GLU:CB	1:G:260:LEU:HD13	2.43	0.48
1:G:440:PRO:HA	1:G:443:LYS:NZ	2.27	0.48
1:H:139:ALA:CB	1:H:139:ALA:N	2.67	0.48
1:H:300:VAL:HG12	1:H:337:THR:HG22	1.95	0.48
1:H:303:ASP:N	1:H:303:ASP:OD1	2.46	0.48
1:I:110:GLY:C	1:I:111:GLN:HG2	2.37	0.48
1:I:158:LEU:O	1:I:332:THR:N	2.44	0.48
1:J:122:LEU:O	1:J:218:SER:HB2	2.12	0.48
1:J:152:LYS:CB	1:J:255:MET:HB2	2.42	0.48
1:J:185:CYS:HA	1:J:186:PRO:HD3	1.64	0.48
1:K:151:TYR:CG	1:K:203:THR:HB	2.47	0.48
1:K:240:GLU:HG3	1:K:243:GLY:H	1.77	0.48
1:K:348:ILE:CG2	1:K:359:ASN:OD1	2.59	0.48
1:L:341:ASN:HB3	1:L:366:HIS:HB2	1.94	0.48
1:M:81:ASN:HD21	1:M:402:TRP:CD1	2.31	0.48
1:M:201:VAL:CG2	1:M:202:ASP:O	2.61	0.48
1:M:300:VAL:H	1:M:300:VAL:HG22	1.40	0.48
1:M:326:GLY:O	1:M:327:ASN:HB2	2.12	0.48
1:N:31:THR:HG23	1:N:378:LEU:O	2.13	0.48
1:N:219:GLU:O	1:N:220:VAL:HG13	2.13	0.48
1:O:172:GLY:O	1:O:173:SER:O	2.31	0.48
1:O:459:LEU:C	1:O:461:GLN:N	2.71	0.48
1:A:390:TYR:O	1:A:392:HIS:N	2.45	0.48
1:B:178:VAL:C	1:B:180:VAL:H	2.20	0.48
1:B:184:ASP:O	1:B:185:CYS:O	2.30	0.48
1:B:280:SER:CA	1:B:284:ALA:HB2	2.43	0.48
1:B:280:SER:N	1:B:284:ALA:HB2	2.28	0.48
1:B:372:LEU:HB3	1:B:374:PHE:CE1	2.48	0.48
1:B:463:PRO:CG	1:B:464:LEU:N	2.75	0.48
1:D:49:TYR:HE1	1:D:364:LEU:CD1	2.25	0.48
1:D:143:ASN:O	1:D:144:ARG:C	2.54	0.48
1:E:114:GLY:N	1:E:337:THR:O	2.43	0.48
1:E:152:LYS:HB3	1:E:255:MET:HG3	1.94	0.48
1:E:333:VAL:CG1	1:E:334:VAL:N	2.76	0.48
1:F:260:LEU:HD22	1:J:148:SER:O	2.12	0.48
1:G:80:PRO:CG	1:G:98:LEU:O	2.60	0.48
1:G:171:LYS:HG3	1:G:187:PRO:HD2	1.95	0.48
1:G:359:ASN:OD1	1:G:359:ASN:O	2.31	0.48
1:H:262:ASN:ND2	1:H:288:SER:HB3	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:149:MET:CE	1:I:205:PHE:HE1	2.26	0.48
1:I:344:LEU:CD1	1:J:185:CYS:SG	3.01	0.48
1:I:369:GLU:CB	1:I:369:GLU:CD	2.79	0.48
1:J:46:GLY:HA3	1:J:63:PRO:O	2.13	0.48
1:J:378:LEU:HD12	1:J:379:CYS:N	2.28	0.48
1:J:463:PRO:CB	1:J:466:ARG:HH21	2.26	0.48
1:K:74:ARG:CB	1:K:330:PHE:HE2	2.27	0.48
1:K:160:GLY:HA3	1:K:245:SER:O	2.13	0.48
1:K:242:TYR:CD2	1:K:394:MET:CG	2.93	0.48
1:K:451:LEU:HD23	1:K:454:LYS:HG3	1.95	0.48
1:L:135:TYR:HE2	1:L:287:ALA:HB2	1.78	0.48
1:L:241:PRO:CG	1:L:242:TYR:N	2.76	0.48
1:M:279:GLY:C	1:M:284:ALA:HB2	2.38	0.48
1:M:366:HIS:CD2	1:M:367:GLY:H	2.32	0.48
1:N:74:ARG:HB2	1:N:330:PHE:HE2	1.78	0.48
1:O:64:LYS:HZ2	1:O:200:MET:HE2	1.76	0.48
1:O:149:MET:HE1	1:O:205:PHE:CZ	2.47	0.48
1:B:106:GLU:HG3	1:B:309:LYS:C	2.38	0.48
1:B:214:GLN:CD	1:B:219:GLU:HB2	2.37	0.48
1:B:250:LEU:HD22	1:B:306:ILE:HG23	1.95	0.48
1:C:106:GLU:HB3	1:C:373:GLN:HB2	1.95	0.48
1:C:143:ASN:O	1:C:145:GLU:HG2	2.13	0.48
1:D:232:PRO:HB2	1:D:234:TYR:CE2	2.47	0.48
1:E:157:CYS:HA	1:E:332:THR:O	2.13	0.48
1:F:65:VAL:O	1:F:65:VAL:HG12	2.13	0.48
1:F:180:VAL:HG12	1:F:181:GLN:O	2.13	0.48
1:F:216:ASN:N	1:J:345:CYS:SG	2.79	0.48
1:F:365:ARG:HD3	1:F:365:ARG:CA	2.39	0.48
1:G:52:ILE:HB	1:G:62:VAL:HB	1.94	0.48
1:G:120:HIS:HB3	1:G:123:LEU:HB2	1.95	0.48
1:G:163:PRO:HA	1:G:330:PHE:CD1	2.47	0.48
1:G:178:VAL:CG1	1:G:178:VAL:HB	2.21	0.48
1:H:96:GLN:HA	1:H:382:THR:HA	1.95	0.48
1:I:383:LEU:HD23	1:I:388:MET:HE3	1.95	0.48
1:I:463:PRO:HA	1:I:466:ARG:HE	1.78	0.48
1:J:104:GLY:O	1:J:374:PHE:HA	2.13	0.48
1:K:234:TYR:O	1:K:237:MET:N	2.46	0.48
1:K:320:ASN:OD1	1:K:320:ASN:C	2.56	0.48
1:L:92:ASN:HD22	1:L:95:THR:HG1	1.58	0.48
1:M:280:SER:N	1:M:284:ALA:HB2	2.28	0.48
1:M:281:GLY:O	1:M:282:SER:C	2.56	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:76:HIS:HB2	1:N:450:ASN:HA	1.95	0.48
1:O:120:HIS:ND1	1:O:121:PRO:CD	2.76	0.48
1:O:463:PRO:HA	1:O:466:ARG:HE	1.78	0.48
1:B:33:ILE:HB	1:B:378:LEU:HB3	1.95	0.48
1:B:54:LYS:HE3	1:B:55:PRO:CD	2.21	0.48
1:B:188:LEU:HD11	1:B:213:LEU:HD11	1.96	0.48
1:B:298:SER:OG	1:B:299:MET:N	2.47	0.48
1:C:249:TYR:CD1	1:C:249:TYR:O	2.66	0.48
1:D:77:LEU:HD11	1:D:376:PHE:CE2	2.49	0.48
1:D:159:ILE:HD12	1:D:248:PHE:CD2	2.46	0.48
1:E:344:LEU:HD21	1:E:365:ARG:HG2	1.94	0.48
1:F:48:PRO:HG2	1:F:49:TYR:CD1	2.48	0.48
1:F:457:ALA:O	1:F:459:LEU:CD2	2.59	0.48
1:H:52:ILE:HB	1:H:62:VAL:HB	1.94	0.48
1:H:70:TYR:CZ	1:H:230:LYS:O	2.66	0.48
1:H:459:LEU:O	1:H:461:GLN:N	2.46	0.48
1:I:217:LYS:HG2	1:J:276:TYR:N	2.29	0.48
1:I:222:LEU:HD21	1:J:271:VAL:CG1	2.43	0.48
1:J:367:GLY:O	1:J:368:GLU:HG2	2.13	0.48
1:J:438:GLU:HG2	1:J:439:ASP:H	1.78	0.48
1:K:33:ILE:O	1:K:377:GLN:HA	2.13	0.48
1:K:112:PRO:HB3	1:L:231:TYR:CG	2.48	0.48
1:K:293:PRO:O	1:K:293:PRO:CD	2.60	0.48
1:K:391:ILE:HD13	1:K:402:TRP:HH2	1.79	0.48
1:L:42:LEU:HB2	1:L:370:TYR:HB2	1.95	0.48
1:L:43:LEU:HD12	1:L:369:GLU:HA	1.95	0.48
1:L:176:THR:O	1:L:177:GLN:HG3	2.14	0.48
1:L:223:ASP:OD1	1:L:224:ILE:N	2.47	0.48
1:M:176:THR:O	1:M:177:GLN:HG3	2.13	0.48
1:N:54:LYS:O	1:N:57:ASN:O	2.31	0.48
1:N:183:GLY:O	1:N:185:CYS:N	2.46	0.48
1:B:162:LYS:NZ	1:B:395:ASN:OD1	2.44	0.48
1:C:75:ILE:HG22	1:C:76:HIS:N	2.21	0.48
1:C:228:ILE:N	1:C:228:ILE:CD1	2.77	0.48
1:C:317:GLN:H	1:C:317:GLN:HG3	1.38	0.48
1:D:162:LYS:C	1:D:330:PHE:CD1	2.82	0.48
1:D:459:LEU:C	1:D:461:GLN:H	2.20	0.48
1:E:152:LYS:HE2	1:E:202:ASP:CB	2.42	0.48
1:E:383:LEU:HA	1:E:387:VAL:CG1	2.43	0.48
1:F:168:HIS:HB2	1:F:208:MET:CA	2.40	0.48
1:F:234:TYR:CD1	1:F:251:ARG:NH2	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:365:ARG:HG3	1:F:365:ARG:HH11	1.78	0.48
1:F:399:LEU:HD23	1:F:402:TRP:CZ3	2.48	0.48
1:G:300:VAL:O	1:H:254:GLN:HA	2.12	0.48
1:G:355:TYR:CD1	1:H:144:ARG:HD3	2.48	0.48
1:H:27:TYR:CE2	1:H:390:TYR:CE2	3.01	0.48
1:H:255:MET:CG	1:H:256:PHE:N	2.77	0.48
1:I:75:ILE:HG22	1:I:451:LEU:HD12	1.94	0.48
1:I:345:CYS:SG	1:J:216:ASN:CB	2.95	0.48
1:I:347:ALA:H	1:J:215:ALA:CB	2.26	0.48
1:I:391:ILE:HG21	1:I:402:TRP:HZ3	1.77	0.48
1:J:391:ILE:HD13	1:J:402:TRP:CH2	2.49	0.48
1:K:166:GLY:H	1:K:195:ILE:HG13	1.77	0.48
1:K:185:CYS:SG	1:O:365:ARG:NH1	2.86	0.48
1:K:439:ASP:C	1:K:441:LEU:N	2.70	0.48
1:L:149:MET:HE2	1:L:205:PHE:CE1	2.48	0.48
1:M:117:ILE:CD1	1:N:260:LEU:HD23	2.39	0.48
1:M:440:PRO:C	1:M:443:LYS:NZ	2.72	0.48
1:N:219:GLU:C	1:N:220:VAL:CG1	2.85	0.48
1:O:125:LYS:HG3	1:O:147:ILE:CD1	2.44	0.48
1:O:383:LEU:CD2	1:O:388:MET:HE3	2.44	0.48
1:A:220:VAL:O	1:A:221:PRO:C	2.55	0.48
1:A:307:PHE:O	1:A:308:ASN:CB	2.61	0.48
1:A:444:TYR:HB3	1:A:446:PHE:CZ	2.49	0.48
1:B:54:LYS:HG2	1:B:56:ASN:OD1	2.14	0.48
1:B:272:PRO:HD2	1:B:275:LEU:HD11	1.94	0.48
1:B:363:TYR:CE1	1:C:185:CYS:HB2	2.49	0.48
1:B:441:LEU:CD2	1:B:441:LEU:CB	2.82	0.48
1:C:71:ARG:NH1	1:C:197:ASP:OD1	2.47	0.48
1:D:78:PRO:HD3	1:D:452:LYS:CA	2.37	0.48
1:E:96:GLN:HA	1:E:382:THR:HA	1.95	0.48
1:F:336:THR:C	1:F:338:ARG:H	2.20	0.48
1:F:373:GLN:HB3	1:F:464:LEU:HD12	1.96	0.48
1:G:118:SER:CB	1:G:151:TYR:CE1	2.95	0.48
1:G:170:GLY:O	1:G:188:LEU:HA	2.14	0.48
1:G:373:GLN:C	1:G:374:PHE:CD1	2.92	0.48
1:I:70:TYR:CE1	1:I:201:VAL:HG12	2.49	0.48
1:I:395:ASN:HB3	1:I:398:ILE:HG12	1.96	0.48
1:J:90:PHE:HD1	1:J:91:TYR:HB3	1.77	0.48
1:K:170:GLY:O	1:K:188:LEU:HA	2.14	0.48
1:L:193:THR:HG23	1:L:230:LYS:HD2	1.95	0.48
1:L:363:TYR:CZ	1:M:185:CYS:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:66:SER:H	1:M:69:GLN:HE21	1.54	0.48
1:M:125:LYS:HG3	1:M:147:ILE:CD1	2.43	0.48
1:M:289:SER:O	1:M:291:TYR:CE1	2.66	0.48
1:M:329:LEU:HD13	1:M:374:PHE:CE2	2.48	0.48
1:N:180:VAL:HG13	1:N:184:ASP:CB	2.32	0.48
1:N:459:LEU:C	1:N:461:GLN:N	2.71	0.48
1:O:36:HIS:CG	1:O:462:PHE:HD1	2.28	0.48
1:O:46:GLY:HA3	1:O:63:PRO:O	2.13	0.48
1:O:70:TYR:OH	1:O:232:PRO:CD	2.35	0.48
1:A:61:LEU:O	1:A:62:VAL:HG23	2.13	0.48
1:C:122:LEU:O	1:C:218:SER:HB2	2.14	0.48
1:C:150:ASP:CG	1:D:257:VAL:HG21	2.39	0.48
1:D:267:VAL:HG11	1:D:270:ASN:CG	2.39	0.48
1:D:345:CYS:SG	1:D:345:CYS:O	2.72	0.48
1:D:399:LEU:HA	1:D:402:TRP:HE3	1.79	0.48
1:E:54:LYS:HG2	1:E:56:ASN:OD1	2.12	0.48
1:F:75:ILE:HG23	1:F:451:LEU:CD1	2.44	0.48
1:G:70:TYR:CE1	1:G:201:VAL:HA	2.47	0.48
1:G:470:LEU:CD1	1:G:470:LEU:CD2	2.85	0.48
1:H:226:THR:HG21	1:I:275:LEU:CD2	2.43	0.48
1:I:42:LEU:HD13	1:I:447:TRP:CZ2	2.49	0.48
1:I:179:ALA:C	1:I:180:VAL:CG2	2.86	0.48
1:J:163:PRO:CA	1:J:330:PHE:CD1	2.96	0.48
1:K:121:PRO:CG	1:L:289:SER:HB2	2.44	0.48
1:K:185:CYS:HB2	1:O:363:TYR:CD2	2.49	0.48
1:L:344:LEU:CD1	1:M:186:PRO:HG2	2.38	0.48
1:M:150:ASP:O	1:M:296:SER:HA	2.13	0.48
1:M:166:GLY:HA2	1:M:195:ILE:HD11	1.92	0.48
1:M:399:LEU:HD23	1:M:402:TRP:CZ3	2.48	0.48
1:N:458:ASP:OD2	1:N:458:ASP:N	2.47	0.48
1:O:155:GLN:HG2	1:O:307:PHE:HE1	1.78	0.48
1:A:49:TYR:HA	1:A:223:ASP:HB3	1.96	0.48
1:A:112:PRO:HB3	1:B:231:TYR:CD1	2.48	0.48
1:A:298:SER:OG	1:A:299:MET:N	2.45	0.48
1:B:53:LYS:HD3	1:B:58:ASN:HA	1.95	0.48
1:B:272:PRO:HD2	1:B:275:LEU:CD1	2.43	0.48
1:C:373:GLN:C	1:C:464:LEU:HD12	2.39	0.48
1:D:214:GLN:NE2	1:D:219:GLU:HB2	2.28	0.48
1:F:23:SER:HG	1:F:25:ASP:HB2	1.71	0.48
1:G:113:LEU:HD13	1:H:253:GLU:CD	2.39	0.48
1:G:372:LEU:HA	1:G:372:LEU:HD23	1.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:451:LEU:CD2	1:G:454:LYS:HG3	2.41	0.48
1:H:259:HIS:CE1	1:I:130:GLU:CG	2.97	0.48
1:H:439:ASP:OD2	1:H:440:PRO:HD2	2.14	0.48
1:I:27:TYR:O	1:I:381:ILE:HG23	2.13	0.48
1:I:151:TYR:OH	1:I:221:PRO:HG2	2.13	0.48
1:I:205:PHE:CD1	1:I:220:VAL:HG12	2.48	0.48
1:I:259:HIS:HE1	1:J:130:GLU:CG	2.27	0.48
1:J:92:ASN:N	1:J:96:GLN:OE1	2.47	0.48
1:J:335:ASP:OD1	1:J:337:THR:OG1	2.32	0.48
1:J:451:LEU:HA	1:J:454:LYS:CG	2.44	0.48
1:K:75:ILE:HB	1:K:329:LEU:CB	2.43	0.48
1:K:101:ALA:HB3	1:K:377:GLN:O	2.14	0.48
1:K:166:GLY:H	1:K:195:ILE:CG1	2.27	0.48
1:K:210:PHE:HD1	1:K:224:ILE:O	1.97	0.48
1:L:80:PRO:C	1:L:82:LYS:N	2.72	0.48
1:M:121:PRO:HD3	1:M:222:LEU:HD13	1.94	0.48
1:M:144:ARG:CG	1:M:144:ARG:H	2.27	0.48
1:M:317:GLN:HE21	1:M:317:GLN:HB2	1.34	0.48
1:M:323:ILE:CD1	1:M:323:ILE:HG23	2.44	0.48
1:O:36:HIS:ND1	1:O:462:PHE:CD1	2.82	0.48
1:B:217:LYS:HG2	1:C:276:TYR:HA	1.96	0.48
1:B:386:ASP:OD2	1:B:386:ASP:N	2.47	0.48
1:B:451:LEU:HA	1:B:454:LYS:CG	2.44	0.48
1:C:263:ARG:HG2	1:C:292:PHE:HD2	1.79	0.48
1:D:342:MET:CE	1:D:342:MET:CG	2.91	0.48
1:E:248:PHE:CZ	1:E:311:TYR:HB3	2.48	0.48
1:E:262:ASN:C	1:E:262:ASN:HD22	2.22	0.48
1:E:472:LEU:CD2	1:J:138:ASN:ND2	2.52	0.48
1:F:139:ALA:O	1:F:140:GLY:C	2.57	0.48
1:G:119:GLY:HA3	1:H:291:TYR:CZ	2.49	0.48
1:G:147:ILE:HG23	1:H:129:THR:O	2.13	0.48
1:G:280:SER:C	1:G:284:ALA:HB2	2.39	0.48
1:G:323:ILE:HG21	1:G:325:TRP:CZ2	2.48	0.48
1:G:365:ARG:NH2	1:H:269:GLU:OE1	2.47	0.48
1:I:49:TYR:N	1:I:49:TYR:CD1	2.82	0.48
1:I:107:VAL:HG23	1:I:311:TYR:HE1	1.78	0.48
1:I:158:LEU:HD23	1:I:249:TYR:HB2	1.96	0.48
1:I:378:LEU:HD12	1:I:378:LEU:C	2.34	0.48
1:I:391:ILE:HB	1:I:399:LEU:HD21	1.96	0.48
1:K:276:TYR:CD2	1:K:276:TYR:N	2.82	0.48
1:K:299:MET:CA	1:L:256:PHE:HB3	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:54:LYS:CE	1:L:55:PRO:HD2	2.44	0.48
1:L:181:GLN:O	1:L:182:PRO:C	2.55	0.48
1:L:278:LYS:HB2	1:O:354:THR:HG22	1.94	0.48
1:M:110:GLY:O	1:M:111:GLN:NE2	2.45	0.48
1:M:447:TRP:CD1	1:M:447:TRP:C	2.92	0.48
1:M:459:LEU:C	1:M:461:GLN:N	2.69	0.48
1:N:32:ASN:CG	1:N:32:ASN:CA	2.78	0.48
1:N:159:ILE:HD12	1:N:248:PHE:HD2	1.77	0.48
1:N:391:ILE:HG21	1:N:402:TRP:HZ3	1.78	0.48
1:A:54:LYS:HB3	1:A:57:ASN:HB3	1.95	0.48
1:A:123:LEU:O	1:A:125:LYS:N	2.47	0.48
1:A:180:VAL:CG1	1:A:184:ASP:HB3	2.40	0.48
1:A:231:TYR:CD1	1:E:112:PRO:HB3	2.49	0.48
1:B:348:ILE:CG2	1:B:359:ASN:OD1	2.46	0.48
1:B:463:PRO:HA	1:B:466:ARG:NE	2.26	0.48
1:C:75:ILE:HB	1:C:329:LEU:CB	2.44	0.48
1:F:112:PRO:HB2	1:G:202:ASP:OD2	2.14	0.48
1:F:300:VAL:HG12	1:F:337:THR:HG22	1.95	0.48
1:G:50:PHE:CB	1:G:51:PRO:HD2	2.41	0.48
1:G:259:HIS:HE1	1:H:130:GLU:HG3	1.79	0.48
1:H:71:ARG:HA	1:H:71:ARG:NH1	2.10	0.48
1:I:122:LEU:HD21	1:J:286:LEU:CD1	2.44	0.48
1:I:369:GLU:OE1	1:J:167:GLU:OE1	2.32	0.48
1:J:156:LEU:C	1:J:156:LEU:CD1	2.82	0.48
1:J:246:LEU:HD23	1:J:246:LEU:N	2.12	0.48
1:J:359:ASN:CG	1:J:359:ASN:O	2.57	0.48
1:K:190:LEU:HD21	1:O:369:GLU:OE1	2.14	0.48
1:L:22:VAL:O	1:L:23:SER:C	2.56	0.48
1:L:49:TYR:CD1	1:L:49:TYR:N	2.81	0.48
1:L:223:ASP:OD1	1:L:224:ILE:HG12	2.14	0.48
1:M:141:VAL:CG1	1:M:142:ASP:N	2.76	0.48
1:N:97:ARG:HG3	1:N:383:LEU:HD11	1.96	0.48
1:O:125:LYS:C	1:O:125:LYS:CD	2.87	0.48
1:O:196:GLN:OE1	1:O:445:THR:N	2.43	0.48
1:A:52:ILE:HG12	1:B:269:GLU:CD	2.39	0.47
1:A:124:ASN:HB3	1:A:263:ARG:HH11	1.79	0.47
1:A:299:MET:CA	1:B:256:PHE:HB3	2.37	0.47
1:B:61:LEU:CD1	1:B:61:LEU:CD2	2.82	0.47
1:D:103:VAL:HG21	1:D:468:PHE:CE1	2.49	0.47
1:D:163:PRO:O	1:D:163:PRO:HG2	2.13	0.47
1:E:329:LEU:HD23	1:E:329:LEU:HA	1.70	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:237:MET:HB3	1:G:246:LEU:CD2	2.42	0.47
1:H:232:PRO:HB2	1:H:234:TYR:CZ	2.49	0.47
1:I:115:VAL:HG22	1:J:255:MET:SD	2.53	0.47
1:I:344:LEU:HD21	1:I:365:ARG:HB2	1.96	0.47
1:I:359:ASN:O	1:I:359:ASN:CG	2.56	0.47
1:J:208:MET:CG	1:J:210:PHE:CE2	2.96	0.47
1:J:250:LEU:HD12	1:J:250:LEU:N	2.28	0.47
1:K:185:CYS:HB2	1:O:363:TYR:CE2	2.49	0.47
1:L:139:ALA:CB	1:L:143:ASN:ND2	2.76	0.47
1:L:155:GLN:HB3	1:L:252:ARG:HB3	1.96	0.47
1:L:163:PRO:CA	1:L:330:PHE:CD1	2.97	0.47
1:L:438:GLU:HG2	1:L:439:ASP:N	2.29	0.47
1:M:217:LYS:HG2	1:N:276:TYR:HA	1.96	0.47
1:N:464:LEU:O	1:N:464:LEU:CD2	2.62	0.47
1:O:66:SER:C	1:O:68:LEU:H	2.22	0.47
1:O:92:ASN:C	1:O:94:ASP:H	2.22	0.47
1:O:345:CYS:SG	1:O:345:CYS:O	2.72	0.47
1:O:355:TYR:CD2	1:O:356:LYS:N	2.82	0.47
1:A:356:LYS:NZ	1:A:356:LYS:CD	2.68	0.47
1:A:443:LYS:NZ	1:A:443:LYS:CD	2.70	0.47
1:B:149:MET:HE1	1:B:205:PHE:HE1	1.78	0.47
1:B:219:GLU:O	1:B:220:VAL:HG13	2.14	0.47
1:B:237:MET:HB3	1:B:246:LEU:HD22	1.95	0.47
1:C:181:GLN:O	1:C:182:PRO:C	2.57	0.47
1:C:355:TYR:C	1:C:355:TYR:CD2	2.93	0.47
1:D:185:CYS:HA	1:D:186:PRO:HD3	1.76	0.47
1:E:80:PRO:O	1:E:85:PHE:HE1	1.97	0.47
1:E:261:PHE:HB3	1:E:292:PHE:CE2	2.48	0.47
1:E:451:LEU:O	1:E:454:LYS:HB2	2.13	0.47
1:F:70:TYR:CE1	1:F:201:VAL:HA	2.49	0.47
1:F:97:ARG:CB	1:F:383:LEU:HD11	2.44	0.47
1:G:97:ARG:HB2	1:G:383:LEU:HD11	1.96	0.47
1:G:178:VAL:C	1:G:180:VAL:H	2.19	0.47
1:G:250:LEU:HD12	1:G:250:LEU:O	2.14	0.47
1:H:42:LEU:HD13	1:H:447:TRP:CE2	2.49	0.47
1:I:105:VAL:CG1	1:I:106:GLU:N	2.76	0.47
1:I:105:VAL:HA	1:I:373:GLN:O	2.14	0.47
1:J:21:VAL:C	1:J:22:VAL:HG13	2.39	0.47
1:J:111:GLN:HG2	1:J:369:GLU:HB3	1.96	0.47
1:K:142:ASP:OD2	1:K:144:ARG:NE	2.47	0.47
1:K:248:PHE:CE2	1:K:311:TYR:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:459:LEU:C	1:K:461:GLN:N	2.70	0.47
1:M:66:SER:N	1:M:69:GLN:NE2	2.53	0.47
1:M:72:VAL:HG22	1:M:332:THR:HG23	1.95	0.47
1:N:152:LYS:HB2	1:N:255:MET:CB	2.32	0.47
1:O:391:ILE:HG22	1:O:398:ILE:HB	1.97	0.47
1:A:275:LEU:HD23	1:E:226:THR:HG21	1.97	0.47
1:B:252:ARG:CD	1:B:306:ILE:HD11	2.40	0.47
1:C:147:ILE:HG23	1:D:129:THR:O	2.15	0.47
1:C:440:PRO:C	1:C:443:LYS:HZ1	2.21	0.47
1:D:153:GLN:NE2	1:D:300:VAL:HA	2.29	0.47
1:F:67:GLY:N	1:F:366:HIS:HE1	2.11	0.47
1:F:92:ASN:HA	1:F:93:PRO:HD2	1.75	0.47
1:F:126:LEU:HB2	1:F:262:ASN:HB3	1.93	0.47
1:F:259:HIS:CE1	1:G:130:GLU:HG2	2.49	0.47
1:G:217:LYS:O	1:G:218:SER:CB	2.61	0.47
1:G:459:LEU:C	1:G:461:GLN:H	2.23	0.47
1:H:222:LEU:HA	1:H:225:CYS:SG	2.54	0.47
1:H:380:LYS:CE	1:H:380:LYS:CG	2.83	0.47
1:H:461:GLN:HE22	1:I:21:VAL:HG23	1.79	0.47
1:I:218:SER:C	1:I:219:GLU:HG2	2.39	0.47
1:I:312:TRP:CE3	1:I:312:TRP:HA	2.48	0.47
1:J:36:HIS:HB2	1:J:459:LEU:HD22	1.95	0.47
1:J:124:ASN:C	1:J:124:ASN:OD1	2.56	0.47
1:J:375:ILE:HG21	1:J:468:PHE:CD2	2.49	0.47
1:L:361:LYS:HD2	1:M:183:GLY:CA	2.44	0.47
1:M:302:SER:O	1:M:305:GLN:HG2	2.15	0.47
1:N:255:MET:CG	1:N:256:PHE:N	2.76	0.47
1:N:384:THR:O	1:N:388:MET:HB2	2.14	0.47
1:O:75:ILE:HG21	1:O:451:LEU:HD12	1.95	0.47
1:A:115:VAL:HG22	1:B:255:MET:CE	2.43	0.47
1:D:28:VAL:HA	1:D:381:ILE:HG12	1.96	0.47
1:D:80:PRO:HG2	1:D:98:LEU:O	2.14	0.47
1:D:122:LEU:CD1	1:E:286:LEU:HD11	2.41	0.47
1:E:36:HIS:ND1	1:E:36:HIS:C	2.71	0.47
1:F:459:LEU:O	1:F:461:GLN:N	2.48	0.47
1:G:259:HIS:CE1	1:H:130:GLU:CG	2.98	0.47
1:H:31:THR:HG23	1:H:378:LEU:O	2.13	0.47
1:I:85:PHE:C	1:I:87:ASP:H	2.22	0.47
1:I:390:TYR:C	1:I:392:HIS:N	2.70	0.47
1:I:397:THR:O	1:I:398:ILE:C	2.58	0.47
1:K:162:LYS:CD	1:K:162:LYS:NZ	2.69	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:176:THR:O	1:K:177:GLN:HG3	2.14	0.47
1:K:241:PRO:HG2	1:K:242:TYR:H	1.80	0.47
1:K:461:GLN:NE2	1:L:21:VAL:H	2.11	0.47
1:M:116:GLY:N	1:M:339:SER:OG	2.47	0.47
1:M:459:LEU:HB3	1:M:465:GLY:HA3	1.95	0.47
1:N:75:ILE:CG2	1:N:451:LEU:HD12	2.42	0.47
1:N:151:TYR:CD2	1:N:203:THR:O	2.64	0.47
1:N:189:GLU:O	1:N:191:ILE:HG13	2.13	0.47
1:O:168:HIS:CE1	1:O:191:ILE:HB	2.49	0.47
1:O:320:ASN:CG	1:O:323:ILE:HG12	2.38	0.47
1:A:185:CYS:HB2	1:E:363:TYR:CG	2.50	0.47
1:A:202:ASP:OD2	1:E:112:PRO:HB2	2.14	0.47
1:B:190:LEU:HA	1:B:190:LEU:HD12	1.52	0.47
1:B:247:PHE:HD1	1:B:248:PHE:N	2.12	0.47
1:C:57:ASN:ND2	1:C:59:LYS:H	2.12	0.47
1:D:114:GLY:N	1:D:337:THR:O	2.46	0.47
1:E:96:GLN:HE21	1:E:382:THR:HG23	1.78	0.47
1:F:96:GLN:NE2	1:F:380:LYS:HD2	2.29	0.47
1:F:246:LEU:HD23	1:F:246:LEU:N	2.09	0.47
1:G:113:LEU:N	1:G:113:LEU:HD12	2.30	0.47
1:G:142:ASP:OD1	1:H:283:THR:OG1	2.25	0.47
1:G:169:TRP:HB3	1:G:188:LEU:HD12	1.97	0.47
1:H:149:MET:HE1	1:H:205:PHE:CE1	2.50	0.47
1:H:320:ASN:OD1	1:H:322:GLY:N	2.39	0.47
1:H:380:LYS:CD	1:H:380:LYS:HZ2	2.27	0.47
1:I:240:GLU:HG3	1:I:243:GLY:H	1.78	0.47
1:K:66:SER:C	1:K:68:LEU:H	2.21	0.47
1:K:142:ASP:CG	1:L:283:THR:HG1	2.18	0.47
1:O:255:MET:HG2	1:O:256:PHE:H	1.80	0.47
1:A:169:TRP:N	1:A:208:MET:HA	2.29	0.47
1:A:217:LYS:O	1:A:218:SER:CB	2.61	0.47
1:B:28:VAL:CG2	1:B:381:ILE:HD11	2.35	0.47
1:B:459:LEU:C	1:B:461:GLN:N	2.72	0.47
1:D:68:LEU:HD22	1:D:203:THR:HG22	1.96	0.47
1:D:372:LEU:HB3	1:D:374:PHE:CE1	2.50	0.47
1:E:30:ARG:NH1	1:E:377:GLN:NE2	2.56	0.47
1:E:83:PHE:HB3	1:E:85:PHE:CE1	2.49	0.47
1:E:231:TYR:CD1	1:E:232:PRO:HD2	2.49	0.47
1:F:200:MET:O	1:F:229:CYS:HA	2.14	0.47
1:G:173:SER:HA	1:G:174:PRO:HD3	1.63	0.47
1:G:250:LEU:HD12	1:G:250:LEU:C	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:54:LYS:CB	1:H:57:ASN:HD22	2.27	0.47
1:H:162:LYS:HG3	1:H:244:ASP:HB3	1.97	0.47
1:I:111:GLN:HG2	1:I:369:GLU:HB2	1.96	0.47
1:I:151:TYR:OH	1:I:221:PRO:CB	2.63	0.47
1:I:363:TYR:CZ	1:J:185:CYS:HB2	2.49	0.47
1:J:34:TYR:HE2	1:J:377:GLN:HB2	1.77	0.47
1:J:169:TRP:H	1:J:208:MET:HA	1.80	0.47
1:K:107:VAL:O	1:K:107:VAL:HG12	2.13	0.47
1:K:342:MET:CB	1:L:208:MET:HE1	2.32	0.47
1:M:87:ASP:C	1:M:88:THR:HG23	2.38	0.47
1:N:49:TYR:HA	1:N:223:ASP:HB3	1.96	0.47
1:N:215:ALA:O	1:N:217:LYS:N	2.48	0.47
1:N:325:TRP:HB3	1:N:398:ILE:HD11	1.97	0.47
1:O:442:LYS:HB3	1:O:443:LYS:HD3	1.96	0.47
1:A:65:VAL:CA	1:A:69:GLN:HE22	1.99	0.47
1:A:72:VAL:HG23	1:A:197:ASP:HA	1.97	0.47
1:A:163:PRO:CA	1:A:330:PHE:CD1	2.98	0.47
1:A:257:VAL:HG13	1:E:115:VAL:HG21	1.96	0.47
1:A:390:TYR:C	1:A:392:HIS:H	2.21	0.47
1:B:77:LEU:HD11	1:B:376:PHE:CE2	2.50	0.47
1:B:81:ASN:HD21	1:B:402:TRP:NE1	2.13	0.47
1:C:53:LYS:HD3	1:C:58:ASN:HA	1.96	0.47
1:C:66:SER:OG	1:C:67:GLY:N	2.46	0.47
1:C:71:ARG:HH12	1:C:198:GLY:N	2.08	0.47
1:C:83:PHE:HD2	1:C:85:PHE:CE2	2.33	0.47
1:C:189:GLU:O	1:C:191:ILE:HG13	2.15	0.47
1:C:217:LYS:CD	1:C:217:LYS:NZ	2.70	0.47
1:D:66:SER:HA	1:D:366:HIS:ND1	2.29	0.47
1:D:115:VAL:H	1:E:255:MET:HE1	1.80	0.47
1:D:219:GLU:HB3	1:D:263:ARG:CZ	2.44	0.47
1:D:355:TYR:CD2	1:D:356:LYS:N	2.82	0.47
1:E:54:LYS:HG3	1:E:55:PRO:HD2	1.95	0.47
1:E:85:PHE:C	1:E:87:ASP:H	2.23	0.47
1:F:185:CYS:SG	1:F:186:PRO:N	2.87	0.47
1:F:188:LEU:HA	1:F:188:LEU:HD13	1.70	0.47
1:F:356:LYS:O	1:F:358:THR:N	2.48	0.47
1:F:373:GLN:C	1:F:374:PHE:CD1	2.93	0.47
1:G:168:HIS:H	1:G:190:LEU:CD1	2.27	0.47
1:H:159:ILE:O	1:H:246:LEU:HA	2.15	0.47
1:H:164:PRO:HG3	1:H:332:THR:HG21	1.95	0.47
1:H:166:GLY:CA	1:H:195:ILE:CD1	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:216:ASN:OD1	1:H:218:SER:N	2.48	0.47
1:H:247:PHE:CD1	1:H:248:PHE:N	2.76	0.47
1:H:387:VAL:O	1:H:391:ILE:HG13	2.14	0.47
1:I:27:TYR:CZ	1:I:390:TYR:HE2	2.33	0.47
1:I:97:ARG:HA	1:I:97:ARG:NH1	2.28	0.47
1:I:386:ASP:OD2	1:I:386:ASP:N	2.48	0.47
1:J:46:GLY:N	1:J:65:VAL:HB	2.28	0.47
1:J:49:TYR:HA	1:J:223:ASP:HB3	1.97	0.47
1:J:72:VAL:HG21	1:J:195:ILE:O	2.15	0.47
1:J:74:ARG:CG	1:J:74:ARG:NE	2.69	0.47
1:J:85:PHE:CE2	1:J:378:LEU:HD22	2.50	0.47
1:J:154:THR:O	1:J:336:THR:HG23	2.15	0.47
1:K:185:CYS:HB2	1:O:363:TYR:CZ	2.50	0.47
1:K:213:LEU:HD13	1:K:213:LEU:HA	1.55	0.47
1:K:219:GLU:O	1:K:220:VAL:CG1	2.60	0.47
1:K:240:GLU:HG3	1:K:243:GLY:N	2.30	0.47
1:K:311:TYR:CD2	1:K:311:TYR:N	2.81	0.47
1:L:98:LEU:N	1:L:98:LEU:HD23	2.29	0.47
1:L:105:VAL:HA	1:L:373:GLN:O	2.14	0.47
1:L:208:MET:HG2	1:L:210:PHE:CE2	2.50	0.47
1:L:240:GLU:CD	1:L:241:PRO:HD2	2.40	0.47
1:M:317:GLN:H	1:M:317:GLN:HG3	1.55	0.47
1:N:33:ILE:HD12	1:N:33:ILE:HG23	1.52	0.47
1:N:80:PRO:C	1:N:82:LYS:N	2.71	0.47
1:N:121:PRO:HG3	1:O:289:SER:CB	2.42	0.47
1:N:150:ASP:O	1:N:150:ASP:CG	2.57	0.47
1:N:290:ASN:N	1:N:290:ASN:HD22	2.13	0.47
1:N:313:LEU:CD2	1:N:313:LEU:HG	2.20	0.47
1:N:463:PRO:O	1:N:466:ARG:HB2	2.15	0.47
1:O:36:HIS:ND1	1:O:36:HIS:C	2.72	0.47
1:O:96:GLN:HB3	1:O:382:THR:HG22	1.96	0.47
1:O:297:GLY:C	1:O:298:SER:O	2.56	0.47
1:A:234:TYR:CD1	1:A:251:ARG:NH2	2.83	0.47
1:A:463:PRO:HB3	1:A:466:ARG:HH21	1.79	0.47
1:B:463:PRO:HB3	1:B:466:ARG:NH2	2.22	0.47
1:C:472:LEU:HD23	1:H:138:ASN:HD22	1.80	0.47
1:D:176:THR:CA	1:D:176:THR:HB	2.21	0.47
1:F:67:GLY:N	1:F:366:HIS:CE1	2.83	0.47
1:F:188:LEU:HD21	1:J:344:LEU:CD1	2.44	0.47
1:F:205:PHE:CE1	1:F:220:VAL:HG12	2.50	0.47
1:G:109:ARG:N	1:G:308:ASN:OD1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:180:VAL:HG13	1:G:184:ASP:CB	2.39	0.47
1:G:354:THR:HG22	1:I:278:LYS:CB	2.44	0.47
1:H:80:PRO:O	1:H:98:LEU:HD12	2.15	0.47
1:H:149:MET:CE	1:H:205:PHE:CE1	2.98	0.47
1:H:179:ALA:O	1:H:180:VAL:O	2.33	0.47
1:H:312:TRP:CH2	1:H:468:PHE:HA	2.49	0.47
1:I:153:GLN:NE2	1:I:300:VAL:HA	2.30	0.47
1:K:92:ASN:HA	1:K:93:PRO:HD2	1.87	0.47
1:K:97:ARG:HG3	1:K:383:LEU:HD13	1.97	0.47
1:K:149:MET:HE1	1:K:205:PHE:CE1	2.50	0.47
1:K:372:LEU:HB3	1:K:374:PHE:HE1	1.80	0.47
1:L:54:LYS:HB3	1:L:57:ASN:HD22	1.79	0.47
1:L:80:PRO:HG3	1:L:98:LEU:O	2.15	0.47
1:M:124:ASN:OD1	1:M:264:ALA:N	2.47	0.47
1:M:152:LYS:HE3	1:M:154:THR:OG1	2.15	0.47
1:M:233:ASP:O	1:M:234:TYR:C	2.58	0.47
1:N:54:LYS:HB3	1:N:57:ASN:ND2	2.26	0.47
1:O:381:ILE:O	1:O:383:LEU:HD12	2.14	0.47
1:A:151:TYR:CD2	1:A:203:THR:CB	2.92	0.47
1:B:24:THR:O	1:B:25:ASP:C	2.57	0.47
1:C:292:PHE:CD1	1:C:292:PHE:C	2.93	0.47
1:D:73:PHE:HD1	1:D:73:PHE:H	1.62	0.47
1:D:99:VAL:HG21	1:D:325:TRP:HZ3	1.80	0.47
1:D:107:VAL:HG11	1:D:333:VAL:HG21	1.97	0.47
1:D:323:ILE:HG21	1:D:325:TRP:CH2	2.50	0.47
1:E:209:ASP:O	1:E:213:LEU:HB2	2.14	0.47
1:E:307:PHE:O	1:E:308:ASN:HB2	2.15	0.47
1:E:471:GLN:C	1:E:471:GLN:CD	2.83	0.47
1:F:149:MET:CE	1:F:205:PHE:CZ	2.98	0.47
1:F:163:PRO:CA	1:F:330:PHE:CD1	2.98	0.47
1:F:367:GLY:C	1:F:368:GLU:HG2	2.40	0.47
1:H:178:VAL:O	1:H:180:VAL:N	2.41	0.47
1:H:344:LEU:HB3	1:I:213:LEU:HB3	1.96	0.47
1:H:374:PHE:CB	1:H:376:PHE:CE1	2.97	0.47
1:I:155:GLN:OE1	1:I:305:GLN:HA	2.15	0.47
1:I:262:ASN:HD22	1:I:262:ASN:C	2.20	0.47
1:I:471:GLN:OE1	1:I:472:LEU:N	2.48	0.47
1:J:463:PRO:CA	1:J:466:ARG:HH21	2.27	0.47
1:K:148:SER:HB3	1:L:291:TYR:CD2	2.50	0.47
1:L:57:ASN:HD21	1:L:59:LYS:CB	2.27	0.47
1:L:163:PRO:HA	1:L:330:PHE:CD1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:281:GLY:N	1:L:284:ALA:HB3	2.29	0.47
1:M:80:PRO:C	1:M:82:LYS:H	2.21	0.47
1:M:320:ASN:OD1	1:M:320:ASN:C	2.57	0.47
1:M:361:LYS:HD3	1:N:268:GLY:HA2	1.97	0.47
1:M:391:ILE:CG2	1:M:398:ILE:HG21	2.44	0.47
1:M:461:GLN:HE22	1:N:21:VAL:H	1.63	0.47
1:O:164:PRO:CG	1:O:332:THR:HG21	2.45	0.47
1:O:210:PHE:CE1	1:O:224:ILE:HB	2.50	0.47
1:A:381:ILE:CG2	1:A:381:ILE:C	2.88	0.47
1:B:165:ILE:CD1	1:B:165:ILE:HB	2.45	0.47
1:C:49:TYR:HA	1:C:223:ASP:HB3	1.96	0.47
1:C:459:LEU:C	1:C:461:GLN:N	2.68	0.47
1:D:49:TYR:HE1	1:D:364:LEU:HD12	1.80	0.47
1:D:299:MET:HA	1:E:256:PHE:HB3	1.97	0.47
1:E:21:VAL:CG1	1:E:390:TYR:OH	2.63	0.47
1:F:60:ILE:HD12	1:F:63:PRO:HB3	1.96	0.47
1:F:96:GLN:CB	1:F:382:THR:HA	2.45	0.47
1:G:242:TYR:CE2	1:G:394:MET:CG	2.91	0.47
1:G:317:GLN:NE2	1:G:317:GLN:C	2.73	0.47
1:G:399:LEU:O	1:G:402:TRP:CB	2.59	0.47
1:H:33:ILE:O	1:H:377:GLN:HA	2.13	0.47
1:H:113:LEU:HD12	1:H:113:LEU:N	2.30	0.47
1:H:219:GLU:O	1:H:220:VAL:CG1	2.57	0.47
1:H:302:SER:O	1:H:304:ALA:N	2.47	0.47
1:I:299:MET:HA	1:J:256:PHE:HB3	1.96	0.47
1:I:357:ASN:HB2	1:J:141:VAL:HG13	1.97	0.47
1:J:176:THR:O	1:J:177:GLN:HG3	2.15	0.47
1:K:153:GLN:NE2	1:K:300:VAL:HA	2.28	0.47
1:K:459:LEU:O	1:K:460:ASP:C	2.56	0.47
1:L:133:SER:O	1:L:134:ALA:HB2	2.13	0.47
1:L:219:GLU:O	1:L:220:VAL:HG13	2.14	0.47
1:L:281:GLY:N	1:L:284:ALA:CB	2.78	0.47
1:L:360:PHE:CE2	1:M:216:ASN:HA	2.50	0.47
1:M:81:ASN:O	1:M:82:LYS:HG3	2.15	0.47
1:N:49:TYR:HE1	1:N:364:LEU:CD1	2.27	0.47
1:N:163:PRO:HA	1:N:330:PHE:CD1	2.50	0.47
1:O:113:LEU:N	1:O:113:LEU:CD1	2.78	0.47
1:O:155:GLN:OE1	1:O:305:GLN:HA	2.15	0.47
1:O:230:LYS:NZ	1:O:230:LYS:HD3	2.28	0.47
1:O:333:VAL:CG1	1:O:334:VAL:N	2.77	0.47
1:A:171:LYS:HG3	1:A:187:PRO:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:123:LEU:HD12	1:B:124:ASN:N	2.30	0.46
1:C:234:TYR:CE1	1:C:251:ARG:NE	2.83	0.46
1:C:246:LEU:HD12	1:C:249:TYR:HB3	1.96	0.46
1:C:276:TYR:C	1:C:277:ILE:CG1	2.88	0.46
1:C:317:GLN:C	1:C:317:GLN:HE21	2.23	0.46
1:E:153:GLN:NE2	1:E:300:VAL:HA	2.29	0.46
1:F:121:PRO:HG3	1:G:289:SER:CB	2.43	0.46
1:F:133:SER:O	1:F:134:ALA:HB2	2.14	0.46
1:G:344:LEU:HB2	1:H:213:LEU:O	2.15	0.46
1:G:470:LEU:O	1:G:470:LEU:CD2	2.63	0.46
1:H:440:PRO:C	1:H:443:LYS:NZ	2.73	0.46
1:K:42:LEU:HD13	1:K:447:TRP:CZ2	2.50	0.46
1:K:61:LEU:C	1:K:62:VAL:HG23	2.39	0.46
1:K:185:CYS:HB2	1:O:363:TYR:CG	2.49	0.46
1:K:210:PHE:CE1	1:K:224:ILE:HG13	2.50	0.46
1:K:275:LEU:HD23	1:O:226:THR:HG21	1.97	0.46
1:L:54:LYS:HG2	1:L:57:ASN:HB3	1.95	0.46
1:L:139:ALA:O	1:L:140:GLY:O	2.33	0.46
1:L:183:GLY:O	1:L:184:ASP:C	2.57	0.46
1:L:361:LYS:NZ	1:L:361:LYS:HD3	2.27	0.46
1:L:384:THR:OG1	1:L:385:ALA:N	2.45	0.46
1:M:101:ALA:HA	1:M:322:GLY:O	2.16	0.46
1:M:143:ASN:O	1:M:144:ARG:C	2.59	0.46
1:M:345:CYS:SG	1:M:345:CYS:O	2.74	0.46
1:O:33:ILE:HB	1:O:378:LEU:HB3	1.96	0.46
1:O:158:LEU:HB2	1:O:332:THR:CB	2.45	0.46
1:O:234:TYR:O	1:O:235:ILE:C	2.58	0.46
1:A:147:ILE:HG22	1:A:148:SER:N	2.29	0.46
1:B:154:THR:H	1:B:336:THR:HG21	1.80	0.46
1:C:66:SER:H	1:C:69:GLN:NE2	2.12	0.46
1:C:167:GLU:OE1	1:C:190:LEU:HD21	2.15	0.46
1:C:180:VAL:HG13	1:C:184:ASP:HB3	1.96	0.46
1:C:391:ILE:HG21	1:C:402:TRP:CZ3	2.49	0.46
1:D:85:PHE:CE2	1:D:378:LEU:HD22	2.49	0.46
1:D:166:GLY:N	1:D:195:ILE:HG13	2.31	0.46
1:E:66:SER:N	1:E:69:GLN:HE21	2.13	0.46
1:F:54:LYS:CB	1:F:57:ASN:HD22	2.27	0.46
1:H:46:GLY:HA3	1:H:65:VAL:HB	1.96	0.46
1:H:383:LEU:HD23	1:H:388:MET:HE3	1.97	0.46
1:J:101:ALA:O	1:J:377:GLN:N	2.47	0.46
1:K:21:VAL:C	1:K:22:VAL:CG1	2.88	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:159:ILE:CD1	1:L:159:ILE:CG2	2.93	0.46
1:L:240:GLU:OE1	1:L:241:PRO:HG2	2.14	0.46
1:M:302:SER:C	1:M:304:ALA:N	2.67	0.46
1:N:80:PRO:C	1:N:82:LYS:H	2.22	0.46
1:O:24:THR:HA	1:O:27:TYR:CE2	2.50	0.46
1:O:210:PHE:HD1	1:O:224:ILE:O	1.99	0.46
1:O:217:LYS:HG2	1:O:217:LYS:O	2.15	0.46
1:A:85:PHE:CE2	1:A:378:LEU:HD22	2.51	0.46
1:A:318:GLY:HA2	1:E:466:ARG:NH1	2.30	0.46
1:B:96:GLN:HE21	1:B:382:THR:CG2	2.27	0.46
1:B:365:ARG:HH11	1:B:365:ARG:HG3	1.80	0.46
1:B:438:GLU:OE1	1:B:443:LYS:HE3	2.15	0.46
1:C:355:TYR:CE1	1:D:144:ARG:HD3	2.50	0.46
1:C:441:LEU:HA	1:C:444:TYR:HD1	1.80	0.46
1:D:23:SER:HG	1:D:25:ASP:HB2	1.80	0.46
1:D:440:PRO:C	1:D:443:LYS:HZ3	2.24	0.46
1:E:305:GLN:C	1:E:306:ILE:HD13	2.41	0.46
1:F:42:LEU:HA	1:F:42:LEU:HD23	1.21	0.46
1:F:99:VAL:HG12	1:F:100:TRP:N	2.31	0.46
1:G:72:VAL:HG22	1:G:332:THR:HG23	1.96	0.46
1:G:96:GLN:HA	1:G:381:ILE:O	2.16	0.46
1:G:247:PHE:HD1	1:G:248:PHE:H	1.63	0.46
1:G:451:LEU:HA	1:G:454:LYS:CG	2.44	0.46
1:H:49:TYR:HE1	1:H:364:LEU:CD1	2.28	0.46
1:H:122:LEU:CD1	1:I:286:LEU:HD11	2.41	0.46
1:I:162:LYS:HG2	1:I:244:ASP:HB3	1.98	0.46
1:I:240:GLU:HG3	1:I:243:GLY:N	2.31	0.46
1:I:307:PHE:O	1:I:308:ASN:HB2	2.14	0.46
1:J:96:GLN:C	1:J:96:GLN:HA	2.14	0.46
1:J:209:ASP:O	1:J:213:LEU:HD23	2.14	0.46
1:J:355:TYR:CD2	1:J:355:TYR:C	2.93	0.46
1:L:106:GLU:HG3	1:L:309:LYS:O	2.15	0.46
1:M:68:LEU:HD13	1:M:151:TYR:HD1	1.79	0.46
1:M:271:VAL:H	1:M:271:VAL:HG23	1.36	0.46
1:N:92:ASN:C	1:N:94:ASP:N	2.73	0.46
1:N:384:THR:HG23	1:N:387:VAL:CG2	2.46	0.46
1:O:262:ASN:HD22	1:O:262:ASN:C	2.24	0.46
1:O:281:GLY:O	1:O:284:ALA:HB3	2.16	0.46
1:O:333:VAL:HG12	1:O:334:VAL:N	2.30	0.46
1:A:139:ALA:C	1:A:141:VAL:H	2.24	0.46
1:A:184:ASP:O	1:A:185:CYS:C	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:391:ILE:HG21	1:B:402:TRP:HZ3	1.80	0.46
1:B:458:ASP:OD2	1:B:458:ASP:N	2.47	0.46
1:C:54:LYS:HZ2	1:C:55:PRO:CD	2.25	0.46
1:C:139:ALA:HB1	1:C:143:ASN:ND2	2.30	0.46
1:C:217:LYS:O	1:C:218:SER:HB3	2.16	0.46
1:C:323:ILE:HG21	1:C:325:TRP:CD2	2.51	0.46
1:C:456:SER:OG	1:C:458:ASP:OD2	2.32	0.46
1:D:57:ASN:ND2	1:D:59:LYS:H	2.13	0.46
1:E:441:LEU:HA	1:E:444:TYR:HD1	1.80	0.46
1:F:104:GLY:O	1:F:374:PHE:HA	2.16	0.46
1:F:152:LYS:O	1:F:152:LYS:HG3	2.15	0.46
1:G:80:PRO:HD3	1:G:100:TRP:CD1	2.50	0.46
1:G:463:PRO:CA	1:G:466:ARG:NH2	2.67	0.46
1:H:77:LEU:HB2	1:H:327:ASN:HB3	1.97	0.46
1:I:107:VAL:O	1:I:307:PHE:HB3	2.15	0.46
1:L:74:ARG:HA	1:L:330:PHE:CD2	2.51	0.46
1:M:21:VAL:O	1:M:22:VAL:CG1	2.62	0.46
1:M:148:SER:OG	1:N:129:THR:HB	2.16	0.46
1:N:120:HIS:HB2	1:N:221:PRO:HA	1.97	0.46
1:N:325:TRP:CZ2	1:N:394:MET:HE1	2.50	0.46
1:O:47:HIS:HB3	1:O:50:PHE:O	2.16	0.46
1:O:52:ILE:O	1:O:61:LEU:N	2.47	0.46
1:O:164:PRO:HG3	1:O:332:THR:OG1	2.14	0.46
1:O:242:TYR:CD2	1:O:394:MET:CG	2.93	0.46
1:A:67:GLY:C	1:A:68:LEU:HG	2.41	0.46
1:A:75:ILE:HB	1:A:329:LEU:HB2	1.96	0.46
1:A:77:LEU:O	1:A:327:ASN:HB3	2.15	0.46
1:A:147:ILE:CG2	1:A:148:SER:N	2.78	0.46
1:A:248:PHE:O	1:A:249:TYR:HB3	2.14	0.46
1:A:256:PHE:HB3	1:E:299:MET:HA	1.96	0.46
1:B:21:VAL:CG1	1:B:390:TYR:OH	2.63	0.46
1:B:21:VAL:C	1:B:22:VAL:HG13	2.39	0.46
1:B:75:ILE:HB	1:B:329:LEU:CB	2.45	0.46
1:C:42:LEU:HB2	1:C:370:TYR:HB2	1.96	0.46
1:C:106:GLU:HB3	1:C:373:GLN:HG3	1.96	0.46
1:D:99:VAL:HG21	1:D:325:TRP:CZ3	2.51	0.46
1:D:172:GLY:O	1:D:173:SER:O	2.33	0.46
1:D:214:GLN:HE22	1:D:219:GLU:HB2	1.81	0.46
1:E:66:SER:N	1:E:69:GLN:NE2	2.61	0.46
1:F:125:LYS:HE3	1:F:261:PHE:CE2	2.51	0.46
1:F:293:PRO:HD3	1:J:117:ILE:CG2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:54:LYS:HZ2	1:G:55:PRO:CD	2.29	0.46
1:G:193:THR:HG23	1:G:230:LYS:HD3	1.97	0.46
1:G:320:ASN:HD22	1:G:325:TRP:NE1	2.14	0.46
1:I:105:VAL:HG12	1:I:106:GLU:N	2.25	0.46
1:I:150:ASP:OD1	1:I:296:SER:CA	2.61	0.46
1:I:259:HIS:HB2	1:I:294:THR:OG1	2.16	0.46
1:J:384:THR:H	1:J:387:VAL:HB	1.80	0.46
1:K:451:LEU:HA	1:K:454:LYS:CG	2.45	0.46
1:L:201:VAL:HG11	1:L:334:VAL:HG13	1.97	0.46
1:N:399:LEU:O	1:N:402:TRP:HB2	2.16	0.46
1:O:98:LEU:CD2	1:O:379:CYS:O	2.63	0.46
1:O:351:SER:O	1:O:352:GLU:O	2.34	0.46
1:A:149:MET:HE2	1:A:205:PHE:CE1	2.51	0.46
1:A:387:VAL:O	1:A:390:TYR:N	2.48	0.46
1:B:375:ILE:HG21	1:B:468:PHE:CE2	2.50	0.46
1:C:150:ASP:CB	1:D:257:VAL:HG21	2.46	0.46
1:D:48:PRO:HG2	1:D:49:TYR:CD1	2.50	0.46
1:D:440:PRO:HA	1:D:443:LYS:HZ1	1.78	0.46
1:E:43:LEU:CD1	1:E:369:GLU:HA	2.40	0.46
1:F:122:LEU:O	1:F:218:SER:HB2	2.15	0.46
1:G:81:ASN:ND2	1:G:402:TRP:HD1	2.14	0.46
1:G:96:GLN:NE2	1:G:382:THR:CG2	2.79	0.46
1:G:125:LYS:HE2	1:G:261:PHE:CD2	2.50	0.46
1:J:91:TYR:HH	1:J:97:ARG:NH2	2.12	0.46
1:J:241:PRO:HG2	1:J:242:TYR:H	1.79	0.46
1:K:54:LYS:CE	1:K:55:PRO:HD2	2.32	0.46
1:K:96:GLN:HE21	1:K:382:THR:CG2	2.29	0.46
1:K:257:VAL:HG13	1:O:115:VAL:HG21	1.98	0.46
1:M:263:ARG:HD3	1:M:292:PHE:CE2	2.51	0.46
1:M:391:ILE:HB	1:M:399:LEU:HD21	1.98	0.46
1:N:157:CYS:HB2	1:N:307:PHE:HE2	1.80	0.46
1:N:391:ILE:O	1:N:391:ILE:CG2	2.61	0.46
1:A:256:PHE:CD1	1:A:257:VAL:O	2.69	0.46
1:B:91:TYR:HA	1:B:96:GLN:OE1	2.15	0.46
1:B:463:PRO:CA	1:B:466:ARG:HE	2.25	0.46
1:C:96:GLN:NE2	1:C:382:THR:HG22	2.31	0.46
1:D:260:LEU:HD12	1:D:260:LEU:N	2.30	0.46
1:E:30:ARG:HD3	1:E:377:GLN:NE2	2.31	0.46
1:E:65:VAL:CA	1:E:69:GLN:NE2	2.76	0.46
1:E:105:VAL:CG1	1:E:106:GLU:N	2.76	0.46
1:E:323:ILE:HD13	1:E:323:ILE:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:254:GLN:HE22	1:F:298:SER:HB3	1.80	0.46
1:F:396:SER:O	1:F:398:ILE:N	2.49	0.46
1:G:119:GLY:HA2	1:G:148:SER:HA	1.98	0.46
1:G:142:ASP:CG	1:H:283:THR:HG1	2.20	0.46
1:G:201:VAL:CG2	1:G:201:VAL:C	2.89	0.46
1:G:323:ILE:C	1:G:325:TRP:H	2.24	0.46
1:H:65:VAL:HA	1:H:69:GLN:HE22	1.80	0.46
1:H:148:SER:HB3	1:I:291:TYR:CD2	2.50	0.46
1:H:362:GLU:OE2	1:I:219:GLU:OE2	2.34	0.46
1:H:469:LEU:CD2	1:H:469:LEU:HB3	2.45	0.46
1:I:120:HIS:CD2	1:I:222:LEU:HD12	2.50	0.46
1:J:258:ARG:HB2	1:J:296:SER:HB2	1.98	0.46
1:K:106:GLU:HG3	1:K:309:LYS:O	2.15	0.46
1:K:122:LEU:HD11	1:L:286:LEU:CD1	2.46	0.46
1:K:162:LYS:HG2	1:K:162:LYS:HE2	1.98	0.46
1:K:283:THR:OG1	1:O:142:ASP:OD1	2.29	0.46
1:K:391:ILE:O	1:K:391:ILE:HG22	2.16	0.46
1:L:154:THR:H	1:L:336:THR:HG21	1.81	0.46
1:M:57:ASN:CG	1:M:58:ASN:N	2.73	0.46
1:M:126:LEU:HD12	1:M:264:ALA:HB2	1.97	0.46
1:N:24:THR:O	1:N:25:ASP:C	2.58	0.46
1:N:348:ILE:HD11	1:O:181:GLN:HE22	1.80	0.46
1:O:119:GLY:N	1:O:221:PRO:HB3	2.31	0.46
1:O:124:ASN:HD22	1:O:216:ASN:ND2	2.14	0.46
1:O:180:VAL:HG12	1:O:184:ASP:HB2	1.91	0.46
1:A:34:TYR:HE2	1:A:377:GLN:CG	2.20	0.46
1:A:120:HIS:CE1	1:A:122:LEU:H	2.31	0.46
1:A:189:GLU:O	1:A:191:ILE:HG13	2.16	0.46
1:B:62:VAL:HG12	1:B:63:PRO:N	2.27	0.46
1:C:242:TYR:HE2	1:C:394:MET:HB2	1.78	0.46
1:D:163:PRO:N	1:D:330:PHE:HD1	2.09	0.46
1:E:188:LEU:HA	1:E:188:LEU:HD13	1.59	0.46
1:F:22:VAL:O	1:F:22:VAL:HG23	2.16	0.46
1:F:39:THR:HG23	1:F:372:LEU:HB2	1.97	0.46
1:F:175:CYS:SG	1:F:175:CYS:HA	2.55	0.46
1:H:180:VAL:CG1	1:H:184:ASP:CB	2.88	0.46
1:H:384:THR:O	1:H:388:MET:HB2	2.16	0.46
1:H:398:ILE:HG22	1:H:402:TRP:CE3	2.50	0.46
1:H:471:GLN:C	1:H:471:GLN:CD	2.84	0.46
1:I:175:CYS:C	1:I:177:GLN:H	2.23	0.46
1:I:193:THR:N	1:I:193:THR:HG22	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:320:ASN:OD1	1:I:323:ILE:HG12	2.16	0.46
1:K:210:PHE:CD1	1:K:224:ILE:HB	2.51	0.46
1:L:49:TYR:HE2	1:L:118:SER:CA	2.29	0.46
1:L:113:LEU:HD12	1:L:113:LEU:N	2.31	0.46
1:L:233:ASP:OD2	1:L:236:LYS:HB2	2.15	0.46
1:L:258:ARG:HB2	1:L:296:SER:HB2	1.96	0.46
1:M:33:ILE:O	1:M:377:GLN:HA	2.16	0.46
1:M:60:ILE:O	1:M:60:ILE:HG13	2.15	0.46
1:M:247:PHE:CD1	1:M:248:PHE:N	2.84	0.46
1:N:36:HIS:ND1	1:N:37:ALA:N	2.64	0.46
1:N:119:GLY:O	1:N:221:PRO:HA	2.16	0.46
1:O:33:ILE:HD12	1:O:33:ILE:HG23	1.37	0.46
1:A:241:PRO:CG	1:A:242:TYR:H	2.28	0.46
1:A:320:ASN:HD21	1:A:323:ILE:HB	1.80	0.46
1:A:440:PRO:HA	1:A:443:LYS:NZ	2.31	0.46
1:A:465:GLY:O	1:A:468:PHE:N	2.49	0.46
1:B:163:PRO:CD	1:B:330:PHE:CE1	2.96	0.46
1:B:209:ASP:OD2	1:B:228:ILE:HG13	2.16	0.46
1:B:217:LYS:HG2	1:B:217:LYS:O	2.16	0.46
1:B:345:CYS:HA	1:B:361:LYS:O	2.15	0.46
1:B:392:HIS:CA	1:B:399:LEU:HD11	2.46	0.46
1:B:465:GLY:O	1:B:466:ARG:C	2.56	0.46
1:B:471:GLN:O	1:B:472:LEU:OXT	2.33	0.46
1:E:53:LYS:HD3	1:E:58:ASN:HA	1.96	0.46
1:G:200:MET:O	1:G:229:CYS:HA	2.15	0.46
1:H:81:ASN:HD21	1:H:402:TRP:CD1	2.34	0.46
1:H:122:LEU:O	1:H:218:SER:HB2	2.16	0.46
1:I:46:GLY:HA3	1:I:63:PRO:O	2.16	0.46
1:J:99:VAL:HG12	1:J:100:TRP:O	2.15	0.46
1:K:42:LEU:HD13	1:K:447:TRP:CE2	2.51	0.46
1:K:115:VAL:CG2	1:L:257:VAL:HG13	2.45	0.46
1:K:178:VAL:O	1:K:180:VAL:N	2.40	0.46
1:K:355:TYR:CD2	1:K:356:LYS:N	2.83	0.46
1:M:329:LEU:HA	1:M:329:LEU:HD23	1.57	0.46
1:M:363:TYR:CZ	1:N:185:CYS:HB2	2.51	0.46
1:O:105:VAL:HA	1:O:373:GLN:O	2.16	0.46
1:O:180:VAL:HG12	1:O:181:GLN:N	2.31	0.46
1:O:390:TYR:C	1:O:392:HIS:N	2.74	0.46
1:A:325:TRP:CE2	1:A:394:MET:HE1	2.51	0.46
1:A:365:ARG:NH2	1:B:269:GLU:OE1	2.47	0.46
1:C:216:ASN:CG	1:C:219:GLU:OE2	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:178:VAL:C	1:E:180:VAL:H	2.24	0.46
1:F:247:PHE:CD1	1:F:247:PHE:N	2.84	0.46
1:G:71:ARG:HG3	1:G:370:TYR:CE1	2.51	0.46
1:G:72:VAL:HG22	1:G:332:THR:HG22	1.96	0.46
1:G:248:PHE:CE2	1:G:311:TYR:CD1	2.96	0.46
1:H:301:THR:HG23	1:H:304:ALA:HB3	1.98	0.46
1:I:271:VAL:HA	1:I:272:PRO:HD3	1.63	0.46
1:I:297:GLY:C	1:I:298:SER:O	2.59	0.46
1:J:54:LYS:HB3	1:J:57:ASN:ND2	2.30	0.46
1:J:196:GLN:HA	1:J:446:PHE:CE2	2.51	0.46
1:J:307:PHE:O	1:J:308:ASN:CB	2.64	0.46
1:K:92:ASN:O	1:K:94:ASP:N	2.49	0.46
1:K:216:ASN:HA	1:O:360:PHE:CE2	2.51	0.46
1:K:361:LYS:HB3	1:K:363:TYR:CE1	2.50	0.46
1:K:463:PRO:HA	1:K:466:ARG:HE	1.81	0.46
1:L:324:CYS:O	1:L:325:TRP:C	2.59	0.46
1:M:458:ASP:C	1:M:460:ASP:H	2.23	0.46
1:N:91:TYR:CE2	1:N:93:PRO:HD3	2.51	0.46
1:A:61:LEU:HG	1:A:62:VAL:HG23	1.97	0.45
1:A:80:PRO:C	1:A:82:LYS:N	2.74	0.45
1:A:140:GLY:O	1:A:141:VAL:HB	2.16	0.45
1:B:27:TYR:CE2	1:B:390:TYR:CE2	3.05	0.45
1:B:101:ALA:O	1:B:376:PHE:HA	2.15	0.45
1:D:126:LEU:CB	1:D:262:ASN:HB3	2.38	0.45
1:D:210:PHE:O	1:D:214:GLN:HB2	2.16	0.45
1:D:355:TYR:CD2	1:D:355:TYR:C	2.94	0.45
1:D:439:ASP:HB3	1:D:442:LYS:HE3	1.97	0.45
1:E:158:LEU:O	1:E:331:VAL:HA	2.15	0.45
1:E:241:PRO:HG2	1:E:242:TYR:H	1.81	0.45
1:G:42:LEU:HD12	1:G:73:PHE:HE2	1.82	0.45
1:G:210:PHE:CD1	1:G:224:ILE:HB	2.50	0.45
1:G:399:LEU:HA	1:G:402:TRP:CE3	2.49	0.45
1:G:459:LEU:C	1:G:461:GLN:N	2.71	0.45
1:H:80:PRO:O	1:H:85:PHE:HE1	1.99	0.45
1:J:220:VAL:O	1:J:220:VAL:HG23	2.15	0.45
1:K:81:ASN:OD1	1:K:98:LEU:N	2.47	0.45
1:K:458:ASP:OD2	1:K:458:ASP:N	2.49	0.45
1:L:49:TYR:CE2	1:L:118:SER:HA	2.49	0.45
1:L:147:ILE:CG2	1:L:148:SER:N	2.80	0.45
1:L:164:PRO:O	1:L:164:PRO:HG2	2.17	0.45
1:N:471:GLN:CD	1:N:472:LEU:N	2.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:164:PRO:HG3	1:O:332:THR:CG2	2.46	0.45
1:O:251:ARG:O	1:O:252:ARG:HB2	2.16	0.45
1:O:459:LEU:C	1:O:461:GLN:H	2.22	0.45
1:A:155:GLN:HG3	1:A:307:PHE:HE1	1.81	0.45
1:A:269:GLU:HG3	1:E:363:TYR:CD2	2.51	0.45
1:A:375:ILE:CG1	1:A:464:LEU:HD13	2.40	0.45
1:B:75:ILE:HG12	1:B:374:PHE:CZ	2.51	0.45
1:C:217:LYS:CE	1:C:217:LYS:HB2	2.46	0.45
1:C:391:ILE:O	1:C:391:ILE:CG2	2.63	0.45
1:D:22:VAL:O	1:D:22:VAL:HG23	2.17	0.45
1:E:79:ASP:O	1:E:80:PRO:C	2.57	0.45
1:E:107:VAL:O	1:E:307:PHE:HB3	2.16	0.45
1:F:235:ILE:HG23	1:F:235:ILE:HD12	1.68	0.45
1:F:298:SER:CB	1:J:299:MET:HE2	2.46	0.45
1:G:34:TYR:HE2	1:G:377:GLN:HB2	1.76	0.45
1:G:85:PHE:CE2	1:G:378:LEU:HD22	2.51	0.45
1:G:112:PRO:HB3	1:H:231:TYR:CD1	2.52	0.45
1:G:205:PHE:CD1	1:G:220:VAL:HG12	2.51	0.45
1:H:76:HIS:HB2	1:H:450:ASN:HA	1.98	0.45
1:H:105:VAL:HG22	1:H:374:PHE:CE2	2.52	0.45
1:J:29:ALA:HB3	1:J:380:LYS:HG3	1.98	0.45
1:J:29:ALA:HB3	1:J:380:LYS:O	2.16	0.45
1:J:471:GLN:OE1	1:J:472:LEU:N	2.49	0.45
1:L:259:HIS:C	1:L:260:LEU:HD12	2.41	0.45
1:N:49:TYR:CE1	1:N:364:LEU:CD1	3.00	0.45
1:N:113:LEU:HA	1:N:337:THR:O	2.17	0.45
1:O:176:THR:CG2	1:O:176:THR:HB	2.21	0.45
1:O:180:VAL:HG12	1:O:181:GLN:O	2.16	0.45
1:O:234:TYR:CD1	1:O:251:ARG:NH2	2.84	0.45
1:A:188:LEU:HA	1:A:188:LEU:HD13	1.63	0.45
1:A:242:TYR:CE2	1:A:394:MET:HB2	2.51	0.45
1:B:157:CYS:HA	1:B:332:THR:O	2.16	0.45
1:B:241:PRO:C	1:B:243:GLY:H	2.24	0.45
1:C:217:LYS:CE	1:C:217:LYS:CB	2.93	0.45
1:D:307:PHE:O	1:D:308:ASN:HB2	2.16	0.45
1:E:365:ARG:HA	1:E:365:ARG:HD3	1.81	0.45
1:E:394:MET:HB3	1:E:395:ASN:H	1.51	0.45
1:E:397:THR:O	1:E:401:ASP:N	2.47	0.45
1:E:440:PRO:HA	1:E:443:LYS:NZ	2.30	0.45
1:F:33:ILE:HB	1:F:378:LEU:HB3	1.97	0.45
1:F:293:PRO:HD3	1:J:117:ILE:HG21	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:471:GLN:CD	1:G:471:GLN:C	2.84	0.45
1:H:374:PHE:O	1:H:375:ILE:HD13	2.16	0.45
1:I:108:GLY:CA	1:I:371:ASP:O	2.65	0.45
1:I:248:PHE:CE2	1:I:311:TYR:HB3	2.51	0.45
1:J:312:TRP:CH2	1:J:468:PHE:HB2	2.51	0.45
1:K:105:VAL:HG22	1:K:374:PHE:CD2	2.52	0.45
1:K:139:ALA:HA	1:K:143:ASN:HD21	1.82	0.45
1:L:47:HIS:CG	1:L:48:PRO:HD2	2.52	0.45
1:L:361:LYS:HD2	1:M:183:GLY:HA3	1.98	0.45
1:L:363:TYR:CD1	1:M:185:CYS:HB2	2.52	0.45
1:L:441:LEU:HA	1:L:444:TYR:HD1	1.81	0.45
1:M:280:SER:CA	1:M:284:ALA:HB2	2.46	0.45
1:M:307:PHE:O	1:M:308:ASN:CB	2.56	0.45
1:M:458:ASP:O	1:M:458:ASP:OD2	2.35	0.45
1:N:149:MET:HA	1:O:260:LEU:CD2	2.47	0.45
1:N:234:TYR:O	1:N:236:LYS:N	2.49	0.45
1:C:39:THR:HG22	1:C:449:VAL:HG11	1.98	0.45
1:C:47:HIS:HB2	1:C:52:ILE:CD1	2.45	0.45
1:C:137:ALA:O	1:C:138:ASN:C	2.58	0.45
1:C:139:ALA:CB	1:C:143:ASN:HD21	2.30	0.45
1:C:237:MET:CB	1:C:246:LEU:CD2	2.94	0.45
1:D:181:GLN:CG	1:D:181:GLN:NE2	2.69	0.45
1:E:96:GLN:HB3	1:E:382:THR:HA	1.98	0.45
1:E:155:GLN:HE21	1:E:155:GLN:HB2	1.52	0.45
1:F:54:LYS:HG3	1:F:55:PRO:HD2	1.97	0.45
1:F:107:VAL:HB	1:F:307:PHE:HD2	1.82	0.45
1:F:180:VAL:HG13	1:F:184:ASP:CB	2.47	0.45
1:F:180:VAL:HG13	1:F:184:ASP:HB2	1.91	0.45
1:G:110:GLY:O	1:G:111:GLN:NE2	2.46	0.45
1:G:149:MET:HE1	1:G:205:PHE:HE1	1.81	0.45
1:H:247:PHE:CE2	1:H:322:GLY:HA2	2.51	0.45
1:J:247:PHE:HD1	1:J:248:PHE:N	2.14	0.45
1:J:329:LEU:HD13	1:J:374:PHE:HE2	1.79	0.45
1:K:74:ARG:NH2	1:K:441:LEU:HD12	2.31	0.45
1:K:92:ASN:C	1:K:94:ASP:N	2.75	0.45
1:K:166:GLY:N	1:K:195:ILE:HD11	2.31	0.45
1:K:213:LEU:HD12	1:O:344:LEU:CB	2.46	0.45
1:K:253:GLU:H	1:O:302:SER:HB2	1.81	0.45
1:K:269:GLU:HG3	1:O:363:TYR:CE2	2.51	0.45
1:L:27:TYR:CZ	1:L:390:TYR:HE2	2.34	0.45
1:L:249:TYR:O	1:L:249:TYR:CD1	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:275:LEU:CD2	1:L:275:LEU:CB	2.86	0.45
1:M:97:ARG:HG3	1:M:383:LEU:HD11	1.97	0.45
1:M:246:LEU:HD23	1:M:246:LEU:H	1.81	0.45
1:M:364:LEU:HA	1:M:364:LEU:HD23	1.50	0.45
1:N:159:ILE:HD13	1:N:159:ILE:HG21	1.63	0.45
1:N:185:CYS:SG	1:N:186:PRO:HD2	2.56	0.45
1:O:27:TYR:O	1:O:381:ILE:HG23	2.17	0.45
1:O:98:LEU:HD22	1:O:379:CYS:O	2.16	0.45
1:O:133:SER:O	1:O:134:ALA:HB2	2.17	0.45
1:O:152:LYS:O	1:O:152:LYS:CG	2.65	0.45
1:O:442:LYS:HG2	1:O:442:LYS:HZ2	1.76	0.45
1:A:188:LEU:HD11	1:A:213:LEU:HD11	1.97	0.45
1:B:147:ILE:CG2	1:B:148:SER:N	2.79	0.45
1:B:399:LEU:HA	1:B:402:TRP:HE3	1.81	0.45
1:C:46:GLY:CA	1:C:65:VAL:HB	2.47	0.45
1:C:163:PRO:CD	1:C:330:PHE:HE1	2.27	0.45
1:C:240:GLU:HG3	1:C:243:GLY:N	2.30	0.45
1:C:300:VAL:O	1:D:254:GLN:HA	2.17	0.45
1:C:335:ASP:OD1	1:C:337:THR:OG1	2.34	0.45
1:D:49:TYR:CE2	1:D:118:SER:HA	2.51	0.45
1:D:70:TYR:CE1	1:D:201:VAL:HA	2.52	0.45
1:D:440:PRO:C	1:D:443:LYS:NZ	2.75	0.45
1:E:372:LEU:HD23	1:E:372:LEU:HA	1.70	0.45
1:F:94:ASP:C	1:F:95:THR:CG2	2.87	0.45
1:G:150:ASP:HB3	1:H:257:VAL:HG21	1.99	0.45
1:G:317:GLN:C	1:G:317:GLN:HE21	2.25	0.45
1:H:461:GLN:HE22	1:I:21:VAL:H	1.64	0.45
1:I:96:GLN:HA	1:I:382:THR:HA	1.98	0.45
1:I:114:GLY:N	1:I:337:THR:O	2.50	0.45
1:J:57:ASN:HD21	1:J:59:LYS:CB	2.30	0.45
1:J:77:LEU:HD22	1:J:455:PHE:HZ	1.82	0.45
1:J:316:ALA:C	1:J:318:GLY:N	2.73	0.45
1:J:320:ASN:HD22	1:J:325:TRP:NE1	2.12	0.45
1:K:52:ILE:N	1:K:52:ILE:CD1	2.70	0.45
1:L:440:PRO:C	1:L:443:LYS:NZ	2.75	0.45
1:M:343:SER:C	1:M:344:LEU:HD23	2.38	0.45
1:M:451:LEU:HD23	1:M:451:LEU:HA	1.88	0.45
1:N:126:LEU:HD12	1:N:126:LEU:HA	1.45	0.45
1:N:188:LEU:HD11	1:N:213:LEU:CD1	2.44	0.45
1:N:302:SER:C	1:N:304:ALA:N	2.71	0.45
1:A:123:LEU:HD23	1:A:147:ILE:CG2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:190:LEU:HD12	1:A:191:ILE:H	1.79	0.45
1:A:260:LEU:HD23	1:E:117:ILE:HD11	1.98	0.45
1:A:439:ASP:HA	1:A:440:PRO:HD3	1.86	0.45
1:B:325:TRP:HB3	1:B:398:ILE:HD11	1.99	0.45
1:C:141:VAL:CG1	1:C:142:ASP:N	2.80	0.45
1:C:149:MET:HE2	1:C:205:PHE:CE1	2.51	0.45
1:D:36:HIS:ND1	1:D:36:HIS:C	2.74	0.45
1:D:46:GLY:HA3	1:D:63:PRO:O	2.16	0.45
1:D:57:ASN:HD21	1:D:59:LYS:HB2	1.82	0.45
1:E:166:GLY:CA	1:E:195:ILE:HD11	2.47	0.45
1:E:242:TYR:CE2	1:E:394:MET:HG3	2.51	0.45
1:F:77:LEU:HD22	1:F:455:PHE:HZ	1.80	0.45
1:F:155:GLN:HG2	1:F:306:ILE:HG12	1.99	0.45
1:F:260:LEU:HD12	1:F:260:LEU:H	1.75	0.45
1:F:262:ASN:ND2	1:F:288:SER:HB3	2.31	0.45
1:G:262:ASN:HD21	1:G:288:SER:HB3	1.81	0.45
1:H:72:VAL:HG23	1:H:197:ASP:HA	1.99	0.45
1:I:246:LEU:N	1:I:246:LEU:CD2	2.79	0.45
1:I:344:LEU:HD13	1:J:213:LEU:HD12	1.98	0.45
1:J:44:ALA:HB3	1:J:368:GLU:HB2	1.98	0.45
1:J:66:SER:N	1:J:69:GLN:NE2	2.54	0.45
1:J:178:VAL:C	1:J:180:VAL:H	2.16	0.45
1:J:272:PRO:O	1:J:275:LEU:HG	2.15	0.45
1:K:345:CYS:SG	1:K:345:CYS:O	2.74	0.45
1:L:149:MET:HE1	1:L:205:PHE:CE1	2.52	0.45
1:M:47:HIS:HB3	1:M:50:PHE:O	2.17	0.45
1:M:121:PRO:CG	1:N:289:SER:HB2	2.47	0.45
1:M:323:ILE:HG23	1:M:323:ILE:HD12	1.97	0.45
1:M:465:GLY:O	1:M:466:ARG:C	2.58	0.45
1:N:83:PHE:O	1:N:85:PHE:N	2.49	0.45
1:N:90:PHE:CD1	1:N:90:PHE:C	2.95	0.45
1:N:208:MET:SD	1:N:210:PHE:HE2	2.40	0.45
1:O:150:ASP:O	1:O:296:SER:HA	2.15	0.45
1:A:57:ASN:ND2	1:A:59:LYS:CB	2.62	0.45
1:A:112:PRO:HD3	1:B:231:TYR:CG	2.52	0.45
1:A:117:ILE:HD11	1:B:260:LEU:HD23	1.99	0.45
1:A:150:ASP:O	1:A:296:SER:HA	2.16	0.45
1:A:185:CYS:HB2	1:E:363:TYR:CZ	2.52	0.45
1:A:257:VAL:HG12	1:A:293:PRO:CB	2.44	0.45
1:B:184:ASP:O	1:B:185:CYS:C	2.58	0.45
1:B:196:GLN:HA	1:B:446:PHE:HE2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:302:SER:C	1:B:304:ALA:H	2.24	0.45
1:B:344:LEU:HD12	1:C:186:PRO:HG2	1.98	0.45
1:B:344:LEU:N	1:B:344:LEU:CD2	2.72	0.45
1:C:97:ARG:HA	1:C:97:ARG:NH1	2.32	0.45
1:C:280:SER:O	1:C:281:GLY:C	2.60	0.45
1:C:463:PRO:HB3	1:C:466:ARG:NH2	2.30	0.45
1:D:79:ASP:OD2	1:D:82:LYS:HG3	2.17	0.45
1:D:121:PRO:C	1:D:122:LEU:HD23	2.41	0.45
1:D:193:THR:OG1	1:D:194:VAL:N	2.50	0.45
1:D:259:HIS:C	1:D:260:LEU:HD12	2.41	0.45
1:D:302:SER:C	1:D:304:ALA:N	2.74	0.45
1:D:348:ILE:CD1	1:E:182:PRO:O	2.65	0.45
1:D:375:ILE:CG1	1:D:464:LEU:HD13	2.37	0.45
1:F:451:LEU:HA	1:F:454:LYS:CG	2.46	0.45
1:G:71:ARG:HB3	1:G:73:PHE:HE1	1.77	0.45
1:G:85:PHE:HB3	1:G:87:ASP:O	2.16	0.45
1:G:210:PHE:HD1	1:G:224:ILE:HB	1.82	0.45
1:G:439:ASP:O	1:G:442:LYS:HB2	2.16	0.45
1:H:302:SER:C	1:H:304:ALA:H	2.25	0.45
1:I:50:PHE:CD1	1:I:50:PHE:O	2.70	0.45
1:I:112:PRO:HB3	1:J:231:TYR:CG	2.51	0.45
1:I:300:VAL:O	1:I:300:VAL:HG23	2.16	0.45
1:K:391:ILE:HD13	1:K:402:TRP:CZ3	2.52	0.45
1:K:395:ASN:HB3	1:K:398:ILE:HG12	1.99	0.45
1:L:74:ARG:HB2	1:L:330:PHE:HE2	1.82	0.45
1:L:96:GLN:NE2	1:L:382:THR:CG2	2.79	0.45
1:L:155:GLN:HE21	1:L:155:GLN:HB2	1.50	0.45
1:L:461:GLN:HE22	1:M:21:VAL:CG2	2.30	0.45
1:L:464:LEU:C	1:L:464:LEU:HD22	2.39	0.45
1:M:54:LYS:CB	1:M:57:ASN:HD22	2.30	0.45
1:M:201:VAL:O	1:M:229:CYS:SG	2.74	0.45
1:O:155:GLN:HG2	1:O:307:PHE:CE1	2.52	0.45
1:O:211:THR:O	1:O:211:THR:HG22	2.16	0.45
1:O:373:GLN:HB3	1:O:464:LEU:HD12	1.99	0.45
1:A:30:ARG:HB3	1:A:377:GLN:NE2	2.32	0.45
1:A:42:LEU:HD12	1:A:73:PHE:CE2	2.51	0.45
1:A:207:ALA:CB	1:A:229:CYS:O	2.61	0.45
1:B:46:GLY:HA3	1:B:63:PRO:O	2.17	0.45
1:B:97:ARG:HA	1:B:97:ARG:NH1	2.29	0.45
1:B:177:GLN:O	1:B:178:VAL:C	2.60	0.45
1:C:52:ILE:HD12	1:C:52:ILE:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:52:ILE:CG1	1:D:269:GLU:OE2	2.65	0.45
1:C:344:LEU:HB2	1:D:213:LEU:O	2.16	0.45
1:C:348:ILE:HD12	1:D:182:PRO:O	2.17	0.45
1:E:397:THR:O	1:E:398:ILE:C	2.59	0.45
1:F:30:ARG:HD3	1:F:377:GLN:HE22	1.82	0.45
1:F:46:GLY:O	1:F:365:ARG:HD2	2.17	0.45
1:F:54:LYS:CG	1:F:56:ASN:OD1	2.62	0.45
1:F:202:ASP:OD2	1:J:112:PRO:CB	2.60	0.45
1:F:344:LEU:N	1:F:344:LEU:CD2	2.79	0.45
1:G:68:LEU:HD23	1:G:201:VAL:CG2	2.47	0.45
1:G:216:ASN:CB	1:G:219:GLU:OE2	2.65	0.45
1:G:456:SER:HB3	1:G:462:PHE:HE1	1.81	0.45
1:H:60:ILE:HG13	1:H:60:ILE:O	2.15	0.45
1:H:166:GLY:N	1:H:195:ILE:HG13	2.25	0.45
1:I:231:TYR:HA	1:I:232:PRO:HD3	1.77	0.45
1:I:307:PHE:CD1	1:I:307:PHE:N	2.84	0.45
1:J:96:GLN:C	1:J:96:GLN:CB	2.78	0.45
1:J:196:GLN:N	1:J:199:ASP:OD2	2.49	0.45
1:J:207:ALA:CB	1:J:229:CYS:O	2.58	0.45
1:J:300:VAL:O	1:J:300:VAL:HG23	2.17	0.45
1:J:451:LEU:HA	1:J:454:LYS:HG2	1.99	0.45
1:L:27:TYR:CE2	1:L:390:TYR:HE2	2.34	0.45
1:L:107:VAL:HG13	1:L:372:LEU:HD21	1.99	0.45
1:M:80:PRO:HG2	1:M:81:ASN:N	2.32	0.45
1:M:263:ARG:CD	1:M:292:PHE:CD2	2.99	0.45
1:M:321:ASN:CG	1:M:321:ASN:O	2.59	0.45
1:N:178:VAL:C	1:N:180:VAL:N	2.74	0.45
1:N:216:ASN:CG	1:N:219:GLU:HG2	2.42	0.45
1:N:338:ARG:CD	1:N:338:ARG:HB2	2.44	0.45
1:O:228:ILE:HD12	1:O:228:ILE:H	1.79	0.45
1:O:302:SER:C	1:O:304:ALA:H	2.14	0.45
1:A:70:TYR:CE1	1:A:201:VAL:HA	2.52	0.45
1:A:254:GLN:O	1:A:254:GLN:HG3	2.17	0.45
1:A:255:MET:O	1:E:300:VAL:HG22	2.17	0.45
1:A:272:PRO:HD2	1:A:275:LEU:HD11	1.98	0.45
1:A:281:GLY:O	1:A:284:ALA:N	2.36	0.45
1:A:465:GLY:O	1:A:467:LYS:N	2.50	0.45
1:B:320:ASN:OD1	1:B:320:ASN:C	2.60	0.45
1:D:62:VAL:CG1	1:D:63:PRO:HD2	2.47	0.45
1:D:82:LYS:HZ3	1:D:403:ASN:HD22	1.60	0.45
1:D:167:GLU:CB	1:D:190:LEU:HD11	2.27	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:67:GLY:H	1:F:366:HIS:CE1	2.35	0.45
1:F:178:VAL:CG1	1:F:178:VAL:CG2	2.86	0.45
1:G:180:VAL:HG11	1:G:184:ASP:CB	2.40	0.45
1:G:354:THR:HG22	1:I:278:LYS:HB3	1.99	0.45
1:G:438:GLU:OE1	1:G:443:LYS:HE3	2.17	0.45
1:I:399:LEU:HA	1:I:402:TRP:CE3	2.51	0.45
1:J:36:HIS:ND1	1:J:36:HIS:C	2.74	0.45
1:J:89:SER:O	1:J:91:TYR:N	2.50	0.45
1:J:351:SER:O	1:J:352:GLU:C	2.59	0.45
1:J:458:ASP:O	1:J:458:ASP:OD2	2.35	0.45
1:K:30:ARG:CG	1:K:30:ARG:NE	2.66	0.45
1:K:81:ASN:HD21	1:K:402:TRP:HE1	1.64	0.45
1:L:106:GLU:HG3	1:L:309:LYS:C	2.42	0.45
1:N:162:LYS:HB3	1:N:163:PRO:CD	2.42	0.45
1:N:180:VAL:HG12	1:N:181:GLN:C	2.42	0.45
1:O:181:GLN:O	1:O:182:PRO:C	2.60	0.45
1:A:72:VAL:H	1:A:197:ASP:HB2	1.82	0.45
1:A:228:ILE:CD1	1:A:228:ILE:CB	2.81	0.45
1:B:82:LYS:CB	1:B:82:LYS:HD2	2.41	0.45
1:B:123:LEU:O	1:B:125:LYS:N	2.50	0.45
1:C:354:THR:HG22	1:E:278:LYS:HB3	1.99	0.45
1:D:22:VAL:O	1:D:23:SER:C	2.55	0.45
1:D:85:PHE:C	1:D:87:ASP:H	2.25	0.45
1:D:287:ALA:O	1:D:288:SER:C	2.59	0.45
1:D:398:ILE:HG22	1:D:402:TRP:CE3	2.51	0.45
1:E:42:LEU:HB2	1:E:370:TYR:CB	2.47	0.45
1:E:144:ARG:C	1:E:145:GLU:HG2	2.41	0.45
1:F:143:ASN:O	1:F:144:ARG:C	2.59	0.45
1:F:163:PRO:HD3	1:F:330:PHE:HE1	1.80	0.45
1:F:256:PHE:CD1	1:F:256:PHE:C	2.93	0.45
1:H:28:VAL:HA	1:H:381:ILE:HG12	1.98	0.45
1:H:108:GLY:N	1:H:371:ASP:O	2.43	0.45
1:H:158:LEU:HD23	1:H:249:TYR:HB2	1.99	0.45
1:I:75:ILE:CD1	1:I:75:ILE:N	2.72	0.45
1:I:104:GLY:O	1:I:374:PHE:HA	2.18	0.45
1:I:139:ALA:O	1:I:140:GLY:C	2.60	0.45
1:I:166:GLY:H	1:I:195:ILE:CG1	2.29	0.45
1:J:323:ILE:HG21	1:J:325:TRP:CE2	2.51	0.45
1:K:141:VAL:O	1:K:142:ASP:CB	2.64	0.45
1:L:184:ASP:O	1:L:185:CYS:C	2.60	0.45
1:L:280:SER:CA	1:L:284:ALA:HB2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:30:ARG:NH2	1:M:321:ASN:HD22	2.15	0.45
1:M:35:TYR:CE2	1:M:457:ALA:N	2.85	0.45
1:M:70:TYR:CD2	1:M:195:ILE:HG21	2.51	0.45
1:M:106:GLU:HG3	1:M:309:LYS:O	2.17	0.45
1:M:109:ARG:HD3	1:M:370:TYR:CE2	2.52	0.45
1:M:126:LEU:HB2	1:M:264:ALA:HB2	1.98	0.45
1:M:166:GLY:O	1:M:192:ASN:HA	2.17	0.45
1:N:107:VAL:O	1:N:107:VAL:HG12	2.16	0.45
1:N:173:SER:HA	1:N:174:PRO:HD3	1.64	0.45
1:O:391:ILE:CG2	1:O:398:ILE:HB	2.46	0.45
1:B:110:GLY:O	1:B:111:GLN:NE2	2.50	0.44
1:B:241:PRO:C	1:B:243:GLY:N	2.72	0.44
1:B:279:GLY:C	1:B:284:ALA:HB2	2.43	0.44
1:B:339:SER:O	1:B:340:THR:C	2.59	0.44
1:B:451:LEU:HD23	1:B:454:LYS:HG3	2.00	0.44
1:D:442:LYS:HB3	1:D:443:LYS:HD3	1.98	0.44
1:E:60:ILE:HG13	1:E:60:ILE:O	2.16	0.44
1:E:184:ASP:O	1:E:185:CYS:O	2.35	0.44
1:E:360:PHE:CD1	1:E:360:PHE:N	2.85	0.44
1:E:447:TRP:CD1	1:E:447:TRP:C	2.96	0.44
1:F:363:TYR:CZ	1:G:185:CYS:HB2	2.52	0.44
1:F:395:ASN:HB3	1:F:398:ILE:HG12	1.99	0.44
1:G:75:ILE:HB	1:G:329:LEU:HB3	1.99	0.44
1:G:163:PRO:HB2	1:G:194:VAL:HG13	1.99	0.44
1:G:363:TYR:CG	1:H:185:CYS:HB2	2.52	0.44
1:G:391:ILE:HG22	1:G:398:ILE:HB	1.99	0.44
1:H:48:PRO:HG2	1:H:49:TYR:CD1	2.52	0.44
1:H:139:ALA:CB	1:H:139:ALA:C	2.83	0.44
1:I:152:LYS:HB3	1:I:255:MET:HG3	1.99	0.44
1:I:302:SER:C	1:I:304:ALA:H	2.24	0.44
1:J:42:LEU:HD13	1:J:447:TRP:CE2	2.52	0.44
1:J:300:VAL:CG1	1:J:300:VAL:CA	2.84	0.44
1:J:317:GLN:H	1:J:317:GLN:HG3	1.56	0.44
1:K:42:LEU:CD1	1:K:73:PHE:CE2	2.96	0.44
1:K:461:GLN:HE22	1:L:21:VAL:CB	2.30	0.44
1:M:70:TYR:O	1:M:71:ARG:NH1	2.50	0.44
1:N:33:ILE:O	1:N:377:GLN:HA	2.17	0.44
1:N:85:PHE:CZ	1:N:378:LEU:HD22	2.52	0.44
1:N:112:PRO:HB2	1:O:202:ASP:OD2	2.17	0.44
1:N:235:ILE:HD12	1:N:235:ILE:HG23	1.76	0.44
1:A:49:TYR:CE2	1:A:118:SER:HA	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:242:TYR:CE2	1:A:394:MET:CB	3.00	0.44
1:A:385:ALA:O	1:A:389:THR:HG23	2.17	0.44
1:B:28:VAL:HG22	1:B:381:ILE:CG1	2.47	0.44
1:B:96:GLN:HB3	1:B:382:THR:CA	2.47	0.44
1:B:219:GLU:HA	1:B:263:ARG:NH1	2.32	0.44
1:C:91:TYR:HA	1:C:96:GLN:OE1	2.16	0.44
1:C:323:ILE:CG2	1:C:325:TRP:CD2	3.00	0.44
1:C:360:PHE:O	1:D:266:THR:OG1	2.19	0.44
1:D:71:ARG:HH11	1:D:71:ARG:CG	2.31	0.44
1:D:210:PHE:HE1	1:D:224:ILE:HB	1.76	0.44
1:E:440:PRO:HG2	1:E:441:LEU:HG	1.99	0.44
1:F:23:SER:N	1:F:319:HIS:HD2	2.14	0.44
1:F:24:THR:OG1	1:F:25:ASP:N	2.50	0.44
1:F:97:ARG:HH11	1:F:97:ARG:CA	2.22	0.44
1:F:97:ARG:N	1:F:383:LEU:CD1	2.80	0.44
1:F:178:VAL:O	1:F:180:VAL:N	2.34	0.44
1:G:74:ARG:NH2	1:G:441:LEU:HD12	2.31	0.44
1:G:367:GLY:O	1:G:368:GLU:HG2	2.17	0.44
1:H:87:ASP:O	1:H:90:PHE:CE2	2.70	0.44
1:H:307:PHE:O	1:H:308:ASN:HB2	2.17	0.44
1:H:389:THR:OG1	1:H:390:TYR:N	2.50	0.44
1:H:450:ASN:OD1	1:H:450:ASN:C	2.61	0.44
1:H:471:GLN:O	1:H:472:LEU:OXT	2.35	0.44
1:I:42:LEU:HB2	1:I:370:TYR:HB2	1.99	0.44
1:I:72:VAL:HG23	1:I:197:ASP:HA	2.00	0.44
1:K:117:ILE:HG23	1:K:117:ILE:O	2.18	0.44
1:K:336:THR:C	1:K:338:ARG:H	2.25	0.44
1:L:153:GLN:NE2	1:L:300:VAL:HG12	2.32	0.44
1:L:157:CYS:HA	1:L:332:THR:O	2.17	0.44
1:L:374:PHE:HB3	1:L:376:PHE:CE1	2.52	0.44
1:N:92:ASN:HD21	1:N:94:ASP:HB2	1.80	0.44
1:N:262:ASN:HD22	1:N:263:ARG:H	1.61	0.44
1:A:36:HIS:C	1:A:36:HIS:HD1	2.22	0.44
1:A:121:PRO:CG	1:B:289:SER:HB2	2.47	0.44
1:A:129:THR:HG21	1:A:291:TYR:CD2	2.53	0.44
1:A:135:TYR:HE2	1:A:287:ALA:CB	2.17	0.44
1:A:290:ASN:HD22	1:A:290:ASN:N	2.14	0.44
1:B:280:SER:O	1:B:281:GLY:C	2.60	0.44
1:B:392:HIS:HB2	1:B:399:LEU:HD11	1.98	0.44
1:C:155:GLN:HG2	1:C:307:PHE:HE1	1.81	0.44
1:E:57:ASN:CG	1:E:58:ASN:N	2.74	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:92:ASN:HD21	1:E:94:ASP:HB2	1.82	0.44
1:E:213:LEU:CD1	1:E:213:LEU:CD2	2.85	0.44
1:F:92:ASN:C	1:F:94:ASP:N	2.75	0.44
1:F:97:ARG:HG3	1:F:383:LEU:HD21	1.99	0.44
1:F:257:VAL:CG2	1:J:150:ASP:OD1	2.65	0.44
1:F:278:LYS:CB	1:I:354:THR:HG22	2.47	0.44
1:G:30:ARG:NH1	1:G:377:GLN:NE2	2.58	0.44
1:G:152:LYS:HE3	1:G:154:THR:OG1	2.18	0.44
1:G:442:LYS:HB3	1:G:443:LYS:HD3	2.00	0.44
1:H:189:GLU:O	1:H:191:ILE:HG13	2.16	0.44
1:I:339:SER:O	1:I:340:THR:C	2.58	0.44
1:J:246:LEU:HD23	1:J:246:LEU:O	2.18	0.44
1:K:57:ASN:ND2	1:K:59:LYS:H	2.16	0.44
1:K:70:TYR:CE1	1:K:201:VAL:HA	2.52	0.44
1:K:150:ASP:OD2	1:K:150:ASP:N	2.49	0.44
1:K:300:VAL:O	1:K:300:VAL:CG2	2.64	0.44
1:K:317:GLN:NE2	1:K:317:GLN:C	2.75	0.44
1:K:336:THR:C	1:K:338:ARG:N	2.74	0.44
1:L:185:CYS:SG	1:L:186:PRO:CD	3.06	0.44
1:L:275:LEU:CD2	1:L:275:LEU:CD1	2.79	0.44
1:M:114:GLY:CA	1:N:255:MET:SD	3.05	0.44
1:M:126:LEU:HD12	1:M:126:LEU:HA	1.86	0.44
1:M:247:PHE:HD1	1:M:248:PHE:H	1.64	0.44
1:M:363:TYR:CE1	1:N:185:CYS:HB2	2.51	0.44
1:N:361:LYS:HD2	1:O:183:GLY:HA3	1.99	0.44
1:O:149:MET:CE	1:O:205:PHE:CZ	3.00	0.44
1:O:373:GLN:HB2	1:O:464:LEU:HD12	1.99	0.44
1:B:66:SER:OG	1:B:67:GLY:N	2.46	0.44
1:B:98:LEU:HA	1:B:379:CYS:O	2.17	0.44
1:B:240:GLU:HG3	1:B:243:GLY:CA	2.47	0.44
1:C:24:THR:O	1:C:28:VAL:HG23	2.17	0.44
1:D:360:PHE:CE2	1:E:216:ASN:HA	2.52	0.44
1:D:471:GLN:CD	1:D:471:GLN:C	2.85	0.44
1:E:75:ILE:CD1	1:E:331:VAL:HG23	2.39	0.44
1:E:106:GLU:HB3	1:E:373:GLN:HB2	1.99	0.44
1:E:293:PRO:O	1:E:293:PRO:CD	2.65	0.44
1:E:323:ILE:O	1:E:325:TRP:N	2.49	0.44
1:E:390:TYR:O	1:E:394:MET:N	2.51	0.44
1:F:120:HIS:O	1:F:121:PRO:C	2.52	0.44
1:F:399:LEU:HD23	1:F:402:TRP:CE3	2.52	0.44
1:G:66:SER:O	1:G:69:GLN:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:325:TRP:HB3	1:H:398:ILE:HD11	2.00	0.44
1:H:399:LEU:HA	1:H:402:TRP:CE3	2.44	0.44
1:I:394:MET:HE2	1:I:394:MET:HB3	1.83	0.44
1:J:54:LYS:HG2	1:J:57:ASN:HB3	1.99	0.44
1:K:124:ASN:HD22	1:K:216:ASN:ND2	2.15	0.44
1:K:141:VAL:O	1:K:142:ASP:HB3	2.17	0.44
1:K:240:GLU:HG2	1:K:245:SER:OG	2.16	0.44
1:L:254:GLN:O	1:L:254:GLN:HG3	2.15	0.44
1:L:364:LEU:CD1	1:M:290:ASN:HA	2.44	0.44
1:M:201:VAL:HG23	1:M:202:ASP:C	2.41	0.44
1:M:441:LEU:CD2	1:M:441:LEU:CB	2.81	0.44
1:N:290:ASN:N	1:N:290:ASN:ND2	2.64	0.44
1:N:382:THR:CG2	1:N:382:THR:CA	2.84	0.44
1:A:231:TYR:CD2	1:E:112:PRO:HB3	2.53	0.44
1:A:283:THR:HG21	1:E:142:ASP:O	2.17	0.44
1:B:54:LYS:HB3	1:B:57:ASN:HD22	1.82	0.44
1:C:153:GLN:NE2	1:C:300:VAL:HA	2.32	0.44
1:C:276:TYR:CD2	1:C:276:TYR:N	2.85	0.44
1:C:329:LEU:HA	1:C:329:LEU:HD23	1.77	0.44
1:D:242:TYR:CE2	1:D:394:MET:CB	2.95	0.44
1:E:261:PHE:CB	1:E:292:PHE:CE2	2.99	0.44
1:F:240:GLU:OE2	1:F:241:PRO:HD2	2.17	0.44
1:G:208:MET:CG	1:G:210:PHE:CE2	3.00	0.44
1:H:153:GLN:NE2	1:H:300:VAL:CG1	2.80	0.44
1:H:159:ILE:HG21	1:H:159:ILE:HD13	1.85	0.44
1:I:148:SER:OG	1:J:129:THR:HB	2.17	0.44
1:I:355:TYR:CE1	1:J:144:ARG:HD3	2.53	0.44
1:J:47:HIS:HE1	1:J:49:TYR:HD1	1.63	0.44
1:J:70:TYR:O	1:J:71:ARG:NH1	2.50	0.44
1:J:125:LYS:HE2	1:J:261:PHE:CD2	2.52	0.44
1:J:254:GLN:NE2	1:J:298:SER:HB3	2.32	0.44
1:K:216:ASN:OD1	1:K:216:ASN:C	2.61	0.44
1:K:253:GLU:HG3	1:O:113:LEU:HD22	2.00	0.44
1:L:210:PHE:O	1:L:214:GLN:HB2	2.18	0.44
1:M:32:ASN:CG	1:M:32:ASN:CA	2.80	0.44
1:M:78:PRO:HD2	1:M:455:PHE:CE1	2.53	0.44
1:M:92:ASN:HA	1:M:93:PRO:HD2	1.72	0.44
1:N:217:LYS:HG2	1:O:276:TYR:CA	2.46	0.44
1:O:33:ILE:HA	1:O:33:ILE:HD13	1.74	0.44
1:O:125:LYS:HD3	1:O:126:LEU:C	2.42	0.44
1:A:183:GLY:O	1:A:184:ASP:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:185:CYS:HB2	1:E:363:TYR:CD2	2.53	0.44
1:A:307:PHE:O	1:A:308:ASN:HB2	2.16	0.44
1:B:101:ALA:HB3	1:B:377:GLN:O	2.18	0.44
1:C:125:LYS:HD3	1:C:126:LEU:C	2.42	0.44
1:C:130:GLU:HB2	1:C:260:LEU:HD13	2.00	0.44
1:D:28:VAL:HG22	1:D:381:ILE:HD11	2.00	0.44
1:D:117:ILE:HD11	1:E:260:LEU:CD2	2.41	0.44
1:E:42:LEU:HD23	1:E:42:LEU:HA	1.48	0.44
1:E:76:HIS:HB2	1:E:450:ASN:HA	1.98	0.44
1:E:99:VAL:HG11	1:E:323:ILE:CG2	2.31	0.44
1:E:302:SER:C	1:E:304:ALA:N	2.69	0.44
1:F:57:ASN:HD21	1:F:59:LYS:N	2.11	0.44
1:F:117:ILE:HG12	1:F:149:MET:O	2.18	0.44
1:F:237:MET:HB3	1:F:246:LEU:HD22	1.98	0.44
1:F:395:ASN:ND2	1:F:397:THR:OG1	2.50	0.44
1:H:135:TYR:HE2	1:H:287:ALA:HB2	1.81	0.44
1:H:308:ASN:ND2	1:I:251:ARG:HH22	2.12	0.44
1:I:36:HIS:CG	1:I:37:ALA:N	2.83	0.44
1:I:64:LYS:HZ2	1:I:200:MET:CE	2.31	0.44
1:I:193:THR:CG2	1:I:230:LYS:HD2	2.45	0.44
1:J:57:ASN:ND2	1:J:59:LYS:H	2.16	0.44
1:J:58:ASN:OD1	1:J:58:ASN:N	2.50	0.44
1:K:213:LEU:HD12	1:O:344:LEU:CD1	2.42	0.44
1:K:364:LEU:HD23	1:K:364:LEU:HA	1.72	0.44
1:K:369:GLU:OE1	1:L:190:LEU:CD2	2.66	0.44
1:L:33:ILE:HD12	1:L:33:ILE:HG23	1.77	0.44
1:L:307:PHE:C	1:L:309:LYS:N	2.74	0.44
1:M:363:TYR:CE2	1:N:185:CYS:HB2	2.52	0.44
1:N:31:THR:HG23	1:N:379:CYS:HA	2.00	0.44
1:N:74:ARG:CB	1:N:330:PHE:HE2	2.31	0.44
1:O:331:VAL:CG1	1:O:331:VAL:CA	2.82	0.44
1:O:398:ILE:CD1	1:O:398:ILE:HA	2.48	0.44
1:O:463:PRO:CA	1:O:466:ARG:HH21	2.31	0.44
1:A:155:GLN:CG	1:A:307:PHE:HE1	2.30	0.44
1:A:188:LEU:CD1	1:A:213:LEU:HD11	2.48	0.44
1:A:462:PHE:O	1:A:466:ARG:HG3	2.18	0.44
1:B:325:TRP:NE1	1:B:394:MET:CE	2.79	0.44
1:C:117:ILE:HG21	1:C:117:ILE:HD13	1.66	0.44
1:C:144:ARG:C	1:C:145:GLU:HG2	2.41	0.44
1:C:381:ILE:O	1:C:383:LEU:HD12	2.17	0.44
1:D:103:VAL:HG21	1:D:468:PHE:CZ	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:105:VAL:CG1	1:D:106:GLU:N	2.76	0.44
1:D:120:HIS:HB2	1:D:221:PRO:HA	1.99	0.44
1:D:155:GLN:HG2	1:D:307:PHE:HE1	1.83	0.44
1:D:178:VAL:CG2	1:D:178:VAL:N	2.80	0.44
1:E:96:GLN:CB	1:E:382:THR:HG22	2.29	0.44
1:F:141:VAL:HG13	1:J:357:ASN:H	1.83	0.44
1:F:166:GLY:O	1:F:192:ASN:HA	2.18	0.44
1:F:184:ASP:O	1:F:185:CYS:C	2.61	0.44
1:H:219:GLU:C	1:H:220:VAL:HG22	2.42	0.44
1:I:85:PHE:HA	1:I:86:PRO:HD2	1.70	0.44
1:I:444:TYR:HB3	1:I:446:PHE:CZ	2.53	0.44
1:J:364:LEU:HD23	1:J:364:LEU:HA	1.61	0.44
1:K:44:ALA:HB3	1:K:368:GLU:HB2	2.00	0.44
1:L:57:ASN:CG	1:L:59:LYS:H	2.25	0.44
1:L:348:ILE:HD11	1:M:181:GLN:HE22	1.83	0.44
1:L:463:PRO:HA	1:L:466:ARG:HE	1.82	0.44
1:M:208:MET:HB2	1:M:209:ASP:H	1.45	0.44
1:M:249:TYR:CD1	1:M:249:TYR:C	2.96	0.44
1:M:383:LEU:HD22	1:M:388:MET:CE	2.44	0.44
1:N:117:ILE:O	1:N:117:ILE:HG23	2.17	0.44
1:N:325:TRP:HB3	1:N:398:ILE:CD1	2.47	0.44
1:N:348:ILE:HD12	1:N:348:ILE:HA	1.81	0.44
1:O:42:LEU:HD13	1:O:447:TRP:CZ2	2.52	0.44
1:O:390:TYR:O	1:O:392:HIS:N	2.51	0.44
1:O:447:TRP:CD1	1:O:447:TRP:C	2.96	0.44
1:A:150:ASP:HB3	1:B:257:VAL:HG21	1.99	0.44
1:A:399:LEU:HA	1:A:402:TRP:CE3	2.50	0.44
1:B:154:THR:H	1:B:336:THR:CG2	2.31	0.44
1:B:365:ARG:HD3	1:B:365:ARG:HA	1.77	0.44
1:B:399:LEU:O	1:B:402:TRP:HB2	2.17	0.44
1:C:54:LYS:HB3	1:C:57:ASN:HD22	1.82	0.44
1:C:345:CYS:HA	1:C:361:LYS:O	2.17	0.44
1:C:465:GLY:O	1:C:466:ARG:C	2.61	0.44
1:D:148:SER:OG	1:E:129:THR:CB	2.64	0.44
1:D:223:ASP:OD1	1:D:223:ASP:C	2.60	0.44
1:D:384:THR:HG23	1:D:387:VAL:HG23	2.00	0.44
1:D:398:ILE:HG22	1:D:402:TRP:CZ3	2.53	0.44
1:F:397:THR:O	1:F:401:ASP:N	2.47	0.44
1:G:24:THR:O	1:G:28:VAL:N	2.45	0.44
1:G:271:VAL:HG12	1:G:276:TYR:CE2	2.52	0.44
1:H:97:ARG:HA	1:H:97:ARG:HH11	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:281:GLY:O	1:H:282:SER:C	2.61	0.44
1:H:329:LEU:HD23	1:H:329:LEU:HA	1.59	0.44
1:I:344:LEU:HD21	1:I:365:ARG:CG	2.48	0.44
1:I:396:SER:OG	1:I:397:THR:N	2.51	0.44
1:J:30:ARG:HH11	1:J:377:GLN:NE2	2.16	0.44
1:J:68:LEU:HD13	1:J:151:TYR:CD1	2.52	0.44
1:J:153:GLN:H	1:J:297:GLY:HA3	1.82	0.44
1:J:180:VAL:HG12	1:J:181:GLN:H	1.82	0.44
1:K:54:LYS:HE3	1:K:55:PRO:CD	2.33	0.44
1:K:109:ARG:NE	1:K:335:ASP:OD2	2.49	0.44
1:K:185:CYS:HA	1:K:186:PRO:HD3	1.81	0.44
1:K:190:LEU:CD2	1:O:369:GLU:OE1	2.65	0.44
1:L:351:SER:HB2	1:L:352:GLU:OE1	2.17	0.44
1:M:22:VAL:N	1:M:390:TYR:OH	2.47	0.44
1:M:120:HIS:CE1	1:M:122:LEU:H	2.34	0.44
1:M:365:ARG:HH11	1:M:365:ARG:CG	2.29	0.44
1:M:467:LYS:O	1:M:468:PHE:C	2.58	0.44
1:N:92:ASN:HA	1:N:93:PRO:HD2	1.45	0.44
1:N:135:TYR:HE2	1:N:287:ALA:HB2	1.83	0.44
1:N:196:GLN:NE2	1:N:444:TYR:HD2	2.16	0.44
1:N:219:GLU:O	1:N:220:VAL:CG1	2.66	0.44
1:O:63:PRO:O	1:O:65:VAL:HG23	2.18	0.44
1:A:61:LEU:HD12	1:A:61:LEU:C	2.42	0.44
1:A:72:VAL:HG22	1:A:332:THR:HG23	1.99	0.44
1:A:150:ASP:CG	1:B:257:VAL:HG21	2.43	0.44
1:B:54:LYS:CB	1:B:57:ASN:HD22	2.31	0.44
1:B:256:PHE:CD2	1:B:296:SER:HB3	2.52	0.44
1:C:170:GLY:HA2	1:C:213:LEU:CD2	2.42	0.44
1:C:359:ASN:C	1:C:360:PHE:CD1	2.96	0.44
1:C:391:ILE:HG21	1:C:402:TRP:HZ3	1.82	0.44
1:D:125:LYS:NZ	1:D:127:ASP:HA	2.33	0.44
1:D:152:LYS:CB	1:D:255:MET:HB2	2.27	0.44
1:D:164:PRO:HG2	1:D:195:ILE:HB	2.00	0.44
1:D:234:TYR:O	1:D:236:LYS:N	2.51	0.44
1:D:301:THR:CG2	1:D:301:THR:HB	2.19	0.44
1:D:400:GLU:C	1:D:402:TRP:H	2.26	0.44
1:E:166:GLY:N	1:E:193:THR:O	2.50	0.44
1:E:262:ASN:ND2	1:E:288:SER:HB3	2.31	0.44
1:E:447:TRP:HD1	1:E:448:GLU:N	2.15	0.44
1:F:34:TYR:CE2	1:F:377:GLN:CB	2.98	0.44
1:F:163:PRO:N	1:F:330:PHE:CD1	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:241:PRO:HG2	1:F:242:TYR:H	1.83	0.44
1:G:61:LEU:O	1:G:61:LEU:HD12	2.18	0.44
1:G:384:THR:O	1:G:388:MET:HB2	2.18	0.44
1:G:465:GLY:O	1:G:466:ARG:C	2.61	0.44
1:H:79:ASP:HA	1:H:327:ASN:ND2	2.33	0.44
1:H:167:GLU:HG2	1:H:231:TYR:O	2.18	0.44
1:H:204:GLY:HA3	1:H:295:PRO:HG3	1.99	0.44
1:H:228:ILE:HD12	1:H:228:ILE:N	2.32	0.44
1:I:34:TYR:CD2	1:I:377:GLN:HB2	2.52	0.44
1:I:165:ILE:O	1:I:165:ILE:HG22	2.16	0.44
1:I:344:LEU:HD21	1:I:365:ARG:HG2	2.00	0.44
1:K:85:PHE:CE2	1:K:378:LEU:HD22	2.53	0.44
1:K:257:VAL:HG13	1:O:115:VAL:CG2	2.48	0.44
1:K:279:GLY:C	1:K:284:ALA:HB2	2.42	0.44
1:L:158:LEU:CD2	1:L:249:TYR:HB2	2.47	0.44
1:M:270:ASN:O	1:M:272:PRO:HD3	2.18	0.44
1:M:272:PRO:O	1:M:275:LEU:HG	2.17	0.44
1:M:312:TRP:CH2	1:M:468:PHE:HA	2.52	0.44
1:N:442:LYS:HB3	1:N:443:LYS:HD3	1.99	0.44
1:O:219:GLU:O	1:O:220:VAL:HG13	2.17	0.44
1:A:43:LEU:HD21	1:B:190:LEU:HB2	1.99	0.43
1:B:110:GLY:C	1:B:111:GLN:CG	2.91	0.43
1:C:246:LEU:H	1:C:246:LEU:CD2	2.28	0.43
1:E:36:HIS:CG	1:E:37:ALA:N	2.85	0.43
1:E:72:VAL:HG23	1:E:72:VAL:H	1.62	0.43
1:E:155:GLN:OE1	1:E:305:GLN:HA	2.18	0.43
1:F:117:ILE:HD12	1:G:293:PRO:HB3	2.00	0.43
1:F:163:PRO:HA	1:F:330:PHE:CD1	2.53	0.43
1:F:299:MET:HA	1:G:255:MET:O	2.18	0.43
1:G:42:LEU:HB3	1:G:447:TRP:CZ2	2.53	0.43
1:G:73:PHE:N	1:G:73:PHE:CD1	2.85	0.43
1:H:24:THR:O	1:H:26:GLU:N	2.51	0.43
1:H:124:ASN:OD1	1:H:124:ASN:C	2.61	0.43
1:I:75:ILE:HG21	1:I:451:LEU:CD1	2.43	0.43
1:I:384:THR:OG1	1:I:385:ALA:N	2.49	0.43
1:I:471:GLN:CD	1:I:471:GLN:C	2.86	0.43
1:J:42:LEU:HB3	1:J:447:TRP:CZ2	2.53	0.43
1:J:69:GLN:HA	1:J:199:ASP:O	2.17	0.43
1:J:102:CYS:SG	1:J:105:VAL:HG23	2.58	0.43
1:J:210:PHE:CD1	1:J:224:ILE:HB	2.52	0.43
1:J:471:GLN:CD	1:J:471:GLN:C	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:24:THR:CG2	1:K:320:ASN:HA	2.48	0.43
1:L:34:TYR:CD2	1:L:377:GLN:HB2	2.49	0.43
1:L:117:ILE:HD11	1:M:260:LEU:HD23	1.99	0.43
1:L:247:PHE:CD1	1:L:248:PHE:N	2.85	0.43
1:L:281:GLY:H	1:L:284:ALA:CB	2.31	0.43
1:N:33:ILE:HB	1:N:378:LEU:HB3	2.00	0.43
1:N:35:TYR:O	1:N:376:PHE:N	2.40	0.43
1:N:217:LYS:O	1:N:218:SER:CB	2.66	0.43
1:N:365:ARG:HD3	1:N:365:ARG:HA	1.65	0.43
1:O:114:GLY:HA3	1:O:340:THR:OG1	2.18	0.43
1:O:189:GLU:O	1:O:191:ILE:HG13	2.17	0.43
1:O:384:THR:OG1	1:O:387:VAL:HG23	2.18	0.43
1:A:194:VAL:HG12	1:A:195:ILE:N	2.27	0.43
1:A:472:LEU:HD23	1:F:138:ASN:HD22	1.83	0.43
1:B:24:THR:CG2	1:B:320:ASN:HA	2.48	0.43
1:B:46:GLY:N	1:B:65:VAL:HG21	2.33	0.43
1:C:210:PHE:CD1	1:C:224:ILE:HB	2.53	0.43
1:C:273:ASP:OD2	1:C:273:ASP:N	2.50	0.43
1:D:149:MET:HB2	1:D:150:ASP:H	1.64	0.43
1:D:271:VAL:HA	1:D:272:PRO:HD3	1.85	0.43
1:E:66:SER:OG	1:E:67:GLY:N	2.48	0.43
1:F:44:ALA:HB3	1:F:368:GLU:HB2	2.00	0.43
1:F:154:THR:H	1:F:336:THR:HG23	1.80	0.43
1:G:46:GLY:HA3	1:G:65:VAL:HB	2.00	0.43
1:G:156:LEU:HD12	1:G:156:LEU:O	2.17	0.43
1:G:247:PHE:HD1	1:G:248:PHE:N	2.16	0.43
1:H:306:ILE:HD12	1:H:306:ILE:HG23	1.67	0.43
1:I:141:VAL:O	1:I:142:ASP:CB	2.62	0.43
1:I:329:LEU:HD23	1:I:329:LEU:HA	1.63	0.43
1:I:459:LEU:C	1:I:461:GLN:N	2.76	0.43
1:I:464:LEU:CD2	1:I:464:LEU:O	2.65	0.43
1:J:188:LEU:HD11	1:J:213:LEU:CD1	2.45	0.43
1:J:272:PRO:C	1:J:274:ASP:H	2.25	0.43
1:J:351:SER:O	1:J:352:GLU:O	2.36	0.43
1:J:465:GLY:O	1:J:467:LYS:N	2.51	0.43
1:K:33:ILE:HA	1:K:33:ILE:HD13	1.53	0.43
1:K:234:TYR:O	1:K:235:ILE:C	2.61	0.43
1:K:346:ALA:CB	1:K:346:ALA:C	2.78	0.43
1:L:117:ILE:HD12	1:M:293:PRO:HB3	2.00	0.43
1:L:163:PRO:HB3	1:L:330:PHE:CE1	2.53	0.43
1:L:214:GLN:OE1	1:L:219:GLU:HB2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:325:TRP:CZ2	1:M:394:MET:HE1	2.53	0.43
1:M:344:LEU:HD13	1:N:213:LEU:HD12	2.00	0.43
1:N:27:TYR:CE2	1:N:390:TYR:CE2	3.06	0.43
1:O:205:PHE:HE2	1:O:293:PRO:O	2.01	0.43
1:A:153:GLN:H	1:A:297:GLY:HA3	1.83	0.43
1:B:219:GLU:C	1:B:220:VAL:CG1	2.88	0.43
1:B:259:HIS:HE1	1:C:130:GLU:HG2	1.83	0.43
1:B:306:ILE:HG23	1:B:306:ILE:HD12	1.72	0.43
1:B:461:GLN:HA	1:B:461:GLN:NE2	2.31	0.43
1:C:114:GLY:HA3	1:C:340:THR:OG1	2.18	0.43
1:C:291:TYR:CD1	1:C:291:TYR:N	2.83	0.43
1:D:21:VAL:C	1:D:22:VAL:CG1	2.91	0.43
1:D:62:VAL:HG13	1:D:63:PRO:HD2	1.99	0.43
1:D:391:ILE:HG21	1:D:391:ILE:HD13	1.75	0.43
1:E:120:HIS:ND1	1:E:122:LEU:N	2.63	0.43
1:F:73:PHE:N	1:F:73:PHE:CD1	2.86	0.43
1:G:105:VAL:HG22	1:G:374:PHE:HD2	1.82	0.43
1:H:62:VAL:HA	1:H:63:PRO:HD3	1.80	0.43
1:H:65:VAL:O	1:H:366:HIS:HB3	2.18	0.43
1:H:97:ARG:HA	1:H:97:ARG:NH1	2.33	0.43
1:H:147:ILE:HA	1:I:129:THR:O	2.18	0.43
1:H:220:VAL:C	1:H:221:PRO:O	2.62	0.43
1:I:470:LEU:CD2	1:I:470:LEU:O	2.67	0.43
1:J:247:PHE:HD1	1:J:248:PHE:H	1.64	0.43
1:L:107:VAL:HG23	1:L:311:TYR:HE1	1.84	0.43
1:M:68:LEU:HD13	1:M:151:TYR:CD1	2.54	0.43
1:O:297:GLY:O	1:O:298:SER:O	2.36	0.43
1:A:74:ARG:HH12	1:A:441:LEU:HB2	1.83	0.43
1:A:92:ASN:H	1:A:96:GLN:CD	2.25	0.43
1:A:120:HIS:ND1	1:A:122:LEU:N	2.56	0.43
1:A:152:LYS:NZ	1:A:253:GLU:OE1	2.49	0.43
1:B:80:PRO:HB3	1:B:100:TRP:NE1	2.34	0.43
1:B:103:VAL:HA	1:B:313:LEU:HB2	2.01	0.43
1:B:336:THR:C	1:B:338:ARG:N	2.77	0.43
1:B:440:PRO:O	1:B:443:LYS:NZ	2.52	0.43
1:D:117:ILE:O	1:D:117:ILE:CG2	2.67	0.43
1:D:361:LYS:CG	1:D:361:LYS:CE	2.87	0.43
1:D:365:ARG:HH11	1:D:365:ARG:HG3	1.83	0.43
1:E:74:ARG:CG	1:E:330:PHE:HE2	2.32	0.43
1:E:162:LYS:HG2	1:E:244:ASP:HB3	2.00	0.43
1:E:396:SER:O	1:E:397:THR:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:98:LEU:HD22	1:F:379:CYS:O	2.18	0.43
1:F:356:LYS:O	1:F:357:ASN:C	2.62	0.43
1:G:46:GLY:N	1:G:65:VAL:HB	2.33	0.43
1:G:149:MET:HE3	1:G:294:THR:HG22	2.01	0.43
1:H:36:HIS:CG	1:H:37:ALA:N	2.84	0.43
1:H:299:MET:HA	1:I:256:PHE:HB3	1.99	0.43
1:J:241:PRO:C	1:J:243:GLY:N	2.77	0.43
1:J:390:TYR:C	1:J:392:HIS:H	2.26	0.43
1:K:23:SER:OG	1:K:25:ASP:HB2	2.18	0.43
1:K:113:LEU:HD21	1:K:305:GLN:NE2	2.33	0.43
1:K:232:PRO:HB2	1:K:234:TYR:CZ	2.53	0.43
1:K:463:PRO:CA	1:K:466:ARG:HH21	2.31	0.43
1:L:42:LEU:HD13	1:L:447:TRP:CE2	2.53	0.43
1:L:117:ILE:H	1:L:117:ILE:HG22	1.43	0.43
1:L:152:LYS:O	1:L:152:LYS:HG3	2.11	0.43
1:L:468:PHE:CD1	1:L:468:PHE:C	2.93	0.43
1:M:363:TYR:CD2	1:N:185:CYS:HB2	2.53	0.43
1:M:363:TYR:CG	1:N:185:CYS:HB2	2.54	0.43
1:M:471:GLN:CD	1:M:472:LEU:N	2.76	0.43
1:N:141:VAL:HG12	1:N:142:ASP:N	2.33	0.43
1:N:154:THR:N	1:N:336:THR:HG21	2.15	0.43
1:O:55:PRO:HG2	1:O:56:ASN:ND2	2.33	0.43
1:O:79:ASP:CG	1:O:81:ASN:HB2	2.43	0.43
1:O:104:GLY:O	1:O:374:PHE:CA	2.63	0.43
1:O:220:VAL:HB	1:O:224:ILE:HD12	2.01	0.43
1:A:42:LEU:CD1	1:A:73:PHE:HE2	2.32	0.43
1:A:300:VAL:H	1:A:300:VAL:HG22	1.44	0.43
1:B:120:HIS:HB3	1:B:123:LEU:HB2	2.00	0.43
1:B:139:ALA:O	1:B:140:GLY:C	2.61	0.43
1:C:46:GLY:HA3	1:C:65:VAL:CG2	2.49	0.43
1:C:166:GLY:N	1:C:195:ILE:HD11	2.33	0.43
1:C:342:MET:HE1	1:D:169:TRP:CD1	2.54	0.43
1:D:72:VAL:HG21	1:D:195:ILE:O	2.18	0.43
1:D:149:MET:HA	1:E:260:LEU:HD21	2.00	0.43
1:E:129:THR:HG21	1:E:291:TYR:HD2	1.82	0.43
1:E:343:SER:HB3	1:E:364:LEU:CD2	2.49	0.43
1:F:149:MET:HE3	1:F:295:PRO:HD2	2.00	0.43
1:F:163:PRO:HB3	1:F:330:PHE:CE1	2.54	0.43
1:F:193:THR:HG23	1:F:230:LYS:HD2	2.00	0.43
1:F:470:LEU:O	1:F:470:LEU:HD23	2.19	0.43
1:G:27:TYR:CE2	1:G:390:TYR:HE2	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:66:SER:OG	1:G:68:LEU:N	2.51	0.43
1:G:77:LEU:O	1:G:327:ASN:HB3	2.19	0.43
1:G:80:PRO:C	1:G:82:LYS:N	2.76	0.43
1:H:24:THR:C	1:H:26:GLU:N	2.76	0.43
1:H:32:ASN:CB	1:H:32:ASN:ND2	2.66	0.43
1:H:125:LYS:CD	1:H:125:LYS:C	2.91	0.43
1:H:153:GLN:CD	1:H:300:VAL:HG12	2.44	0.43
1:H:344:LEU:HD13	1:I:213:LEU:HD11	1.96	0.43
1:H:372:LEU:N	1:H:372:LEU:HD23	2.32	0.43
1:H:398:ILE:HG22	1:H:402:TRP:CZ3	2.53	0.43
1:I:221:PRO:HD2	1:I:224:ILE:HD11	2.01	0.43
1:I:240:GLU:HG3	1:I:243:GLY:HA2	2.00	0.43
1:J:120:HIS:HA	1:J:222:LEU:HD13	1.99	0.43
1:J:354:THR:O	1:J:356:LYS:HG3	2.18	0.43
1:J:451:LEU:O	1:J:452:LYS:C	2.60	0.43
1:K:64:LYS:C	1:K:65:VAL:HG23	2.44	0.43
1:K:302:SER:CB	1:L:253:GLU:H	2.32	0.43
1:L:246:LEU:O	1:L:246:LEU:HG	2.18	0.43
1:M:130:GLU:CB	1:M:260:LEU:HD13	2.42	0.43
1:M:251:ARG:O	1:M:252:ARG:HB2	2.17	0.43
1:N:68:LEU:HD23	1:N:201:VAL:HG21	2.00	0.43
1:N:456:SER:HB3	1:N:462:PHE:HE1	1.83	0.43
1:O:71:ARG:HB3	1:O:73:PHE:CE1	2.54	0.43
1:O:471:GLN:CD	1:O:472:LEU:N	2.76	0.43
1:A:92:ASN:C	1:A:94:ASP:N	2.77	0.43
1:A:113:LEU:HA	1:A:337:THR:O	2.18	0.43
1:A:163:PRO:HA	1:A:330:PHE:CD1	2.53	0.43
1:B:26:GLU:CD	1:J:354:THR:HG23	2.43	0.43
1:B:34:TYR:HA	1:B:376:PHE:O	2.19	0.43
1:B:106:GLU:HG3	1:B:309:LYS:O	2.18	0.43
1:D:260:LEU:O	1:D:261:PHE:HD2	2.01	0.43
1:E:117:ILE:CD1	1:E:117:ILE:CG2	2.96	0.43
1:E:171:LYS:HG3	1:E:187:PRO:HD2	2.01	0.43
1:E:390:TYR:C	1:E:392:HIS:N	2.73	0.43
1:F:462:PHE:O	1:F:466:ARG:HG3	2.19	0.43
1:G:22:VAL:O	1:G:23:SER:C	2.60	0.43
1:G:65:VAL:O	1:G:65:VAL:HG12	2.17	0.43
1:G:125:LYS:HD3	1:G:127:ASP:N	2.33	0.43
1:G:153:GLN:HA	1:G:336:THR:OG1	2.18	0.43
1:H:151:TYR:HD2	1:H:203:THR:O	2.02	0.43
1:H:397:THR:HB	1:H:401:ASP:OD2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:49:TYR:CE1	1:I:364:LEU:CD1	3.02	0.43
1:I:99:VAL:HG12	1:I:100:TRP:O	2.18	0.43
1:I:158:LEU:HB2	1:I:332:THR:HB	1.99	0.43
1:J:240:GLU:HG3	1:J:243:GLY:N	2.34	0.43
1:L:76:HIS:HB2	1:L:450:ASN:HA	2.00	0.43
1:L:96:GLN:HA	1:L:381:ILE:O	2.17	0.43
1:L:365:ARG:HA	1:L:365:ARG:HD3	1.74	0.43
1:M:188:LEU:HD13	1:M:188:LEU:HA	1.62	0.43
1:N:80:PRO:HG2	1:N:98:LEU:HB2	2.01	0.43
1:N:159:ILE:HG22	1:N:247:PHE:HE1	1.83	0.43
1:O:49:TYR:O	1:O:223:ASP:HA	2.18	0.43
1:O:54:LYS:CG	1:O:56:ASN:OD1	2.61	0.43
1:O:386:ASP:OD2	1:O:386:ASP:N	2.51	0.43
1:A:42:LEU:HA	1:A:42:LEU:HD23	1.54	0.43
1:B:398:ILE:HG23	1:B:398:ILE:HD12	1.50	0.43
1:D:149:MET:CE	1:D:205:PHE:CZ	3.01	0.43
1:D:345:CYS:HA	1:D:361:LYS:O	2.18	0.43
1:E:201:VAL:O	1:E:229:CYS:SG	2.69	0.43
1:F:117:ILE:CG2	1:F:117:ILE:C	2.91	0.43
1:F:214:GLN:CD	1:F:219:GLU:HB2	2.43	0.43
1:F:260:LEU:HD23	1:J:117:ILE:CD1	2.37	0.43
1:F:272:PRO:HD2	1:F:275:LEU:CD1	2.49	0.43
1:G:34:TYR:CD2	1:G:377:GLN:HB2	2.53	0.43
1:G:214:GLN:HE22	1:G:219:GLU:HB2	1.83	0.43
1:G:316:ALA:O	1:G:318:GLY:N	2.51	0.43
1:H:34:TYR:CE2	1:H:377:GLN:CG	3.01	0.43
1:H:117:ILE:HD11	1:I:260:LEU:HD23	2.00	0.43
1:J:72:VAL:HG22	1:J:332:THR:HG23	1.99	0.43
1:J:74:ARG:CD	1:J:74:ARG:HB2	2.47	0.43
1:J:188:LEU:HD13	1:J:188:LEU:HA	1.55	0.43
1:J:329:LEU:HA	1:J:329:LEU:HD23	1.27	0.43
1:K:54:LYS:HG2	1:K:57:ASN:HB3	2.00	0.43
1:K:54:LYS:HB3	1:K:57:ASN:HD22	1.84	0.43
1:K:173:SER:HA	1:K:174:PRO:HD3	1.55	0.43
1:K:183:GLY:O	1:K:185:CYS:N	2.51	0.43
1:K:262:ASN:ND2	1:K:288:SER:HB3	2.34	0.43
1:L:75:ILE:HG12	1:L:374:PHE:CZ	2.54	0.43
1:L:184:ASP:O	1:L:185:CYS:O	2.36	0.43
1:M:240:GLU:HG3	1:M:243:GLY:H	1.83	0.43
1:M:367:GLY:C	1:M:368:GLU:HG2	2.43	0.43
1:N:24:THR:HG23	1:N:320:ASN:HA	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:30:ARG:HD3	1:N:377:GLN:HE22	1.83	0.43
1:N:383:LEU:HD23	1:N:388:MET:HE3	1.99	0.43
1:O:36:HIS:HB2	1:O:459:LEU:HD22	2.01	0.43
1:O:106:GLU:HG3	1:O:309:LYS:O	2.18	0.43
1:A:148:SER:HB3	1:B:291:TYR:CD2	2.53	0.43
1:A:283:THR:OG1	1:E:142:ASP:OD1	2.35	0.43
1:A:302:SER:N	1:B:253:GLU:O	2.50	0.43
1:A:383:LEU:HB3	1:A:388:MET:HG3	2.00	0.43
1:B:33:ILE:CD1	1:B:33:ILE:HA	2.49	0.43
1:B:92:ASN:HD21	1:B:94:ASP:HB2	1.82	0.43
1:B:188:LEU:CD1	1:B:213:LEU:HD11	2.48	0.43
1:B:219:GLU:O	1:B:220:VAL:CG1	2.66	0.43
1:C:35:TYR:O	1:C:375:ILE:HA	2.19	0.43
1:C:155:GLN:CD	1:C:306:ILE:HG12	2.44	0.43
1:C:216:ASN:OD1	1:C:218:SER:C	2.61	0.43
1:D:37:ALA:CB	1:D:451:LEU:HD13	2.47	0.43
1:D:60:ILE:H	1:D:60:ILE:HG12	1.51	0.43
1:D:183:GLY:O	1:D:184:ASP:C	2.61	0.43
1:D:224:ILE:H	1:D:224:ILE:HG12	1.51	0.43
1:E:47:HIS:CE1	1:E:49:TYR:HD1	2.37	0.43
1:E:124:ASN:HD22	1:E:216:ASN:ND2	2.17	0.43
1:F:142:ASP:OD1	1:G:279:GLY:HA2	2.19	0.43
1:G:92:ASN:ND2	1:G:95:THR:H	2.17	0.43
1:G:126:LEU:HB3	1:G:262:ASN:HB3	2.00	0.43
1:G:227:SER:C	1:G:228:ILE:HD12	2.44	0.43
1:G:348:ILE:HG22	1:G:359:ASN:HA	2.00	0.43
1:G:463:PRO:CG	1:G:464:LEU:H	2.02	0.43
1:H:222:LEU:HA	1:H:225:CYS:HG	1.84	0.43
1:I:46:GLY:HA3	1:I:65:VAL:HG23	2.00	0.43
1:I:149:MET:HA	1:J:260:LEU:HD21	2.00	0.43
1:J:54:LYS:CG	1:J:56:ASN:OD1	2.63	0.43
1:K:68:LEU:CD2	1:K:201:VAL:HG21	2.42	0.43
1:K:326:GLY:O	1:K:327:ASN:CB	2.65	0.43
1:L:152:LYS:CE	1:L:152:LYS:CG	2.80	0.43
1:L:185:CYS:HA	1:L:186:PRO:HD3	1.51	0.43
1:L:281:GLY:O	1:L:282:SER:C	2.61	0.43
1:L:348:ILE:O	1:L:348:ILE:HG13	2.17	0.43
1:M:24:THR:HG23	1:M:320:ASN:HA	2.00	0.43
1:M:68:LEU:HD23	1:M:68:LEU:HA	2.00	0.43
1:M:293:PRO:O	1:M:293:PRO:CG	2.66	0.43
1:O:180:VAL:HG13	1:O:184:ASP:CB	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:220:VAL:HB	1:O:224:ILE:CD1	2.48	0.43
1:O:262:ASN:HD22	1:O:263:ARG:N	2.17	0.43
1:B:92:ASN:HA	1:B:93:PRO:HD2	1.85	0.43
1:B:99:VAL:HG12	1:B:100:TRP:N	2.34	0.43
1:B:395:ASN:ND2	1:B:397:THR:OG1	2.51	0.43
1:C:113:LEU:HD13	1:D:253:GLU:CD	2.44	0.43
1:C:155:GLN:OE1	1:C:306:ILE:N	2.48	0.43
1:D:75:ILE:HB	1:D:329:LEU:CB	2.48	0.43
1:D:175:CYS:HB3	1:D:177:GLN:OE1	2.19	0.43
1:E:39:THR:CG2	1:E:449:VAL:CG1	2.97	0.43
1:E:156:LEU:HD13	1:E:158:LEU:HG	2.01	0.43
1:E:247:PHE:HD1	1:E:248:PHE:N	2.15	0.43
1:E:272:PRO:HD2	1:E:275:LEU:HD12	1.98	0.43
1:F:148:SER:OG	1:G:129:THR:HB	2.18	0.43
1:G:20:ALA:CB	1:G:20:ALA:C	2.83	0.43
1:G:143:ASN:O	1:G:144:ARG:C	2.62	0.43
1:G:356:LYS:O	1:G:359:ASN:HB3	2.18	0.43
1:H:92:ASN:HA	1:H:93:PRO:HD2	1.76	0.43
1:H:300:VAL:CG1	1:H:337:THR:HG22	2.48	0.43
1:H:446:PHE:O	1:H:448:GLU:N	2.52	0.43
1:I:24:THR:C	1:I:26:GLU:N	2.75	0.43
1:I:41:ARG:HH22	1:J:192:ASN:HD21	1.67	0.43
1:I:116:GLY:N	1:I:339:SER:OG	2.52	0.43
1:I:300:VAL:HG11	1:I:337:THR:HA	2.01	0.43
1:J:24:THR:HG21	1:J:323:ILE:HG13	1.99	0.43
1:J:345:CYS:SG	1:J:345:CYS:O	2.76	0.43
1:K:237:MET:CE	1:K:246:LEU:HD13	2.48	0.43
1:L:30:ARG:HH11	1:L:377:GLN:HE22	1.66	0.43
1:L:73:PHE:HA	1:L:447:TRP:HB3	2.01	0.43
1:L:163:PRO:N	1:L:330:PHE:HD1	2.16	0.43
1:M:282:SER:C	1:M:284:ALA:H	2.26	0.43
1:M:372:LEU:HB3	1:M:374:PHE:CE1	2.53	0.43
1:N:34:TYR:CE2	1:N:377:GLN:CB	2.96	0.43
1:N:120:HIS:ND1	1:N:121:PRO:CD	2.82	0.43
1:N:125:LYS:HG3	1:N:261:PHE:CD1	2.54	0.43
1:O:383:LEU:HD23	1:O:388:MET:HE3	2.01	0.43
1:A:123:LEU:HD23	1:A:147:ILE:HG21	2.00	0.43
1:A:173:SER:HA	1:A:174:PRO:HD2	1.48	0.43
1:A:255:MET:SD	1:E:114:GLY:HA2	2.59	0.43
1:A:257:VAL:H	1:A:257:VAL:HG22	1.40	0.43
1:B:271:VAL:HA	1:B:272:PRO:HD3	1.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:68:LEU:HD13	1:C:151:TYR:CD1	2.54	0.43
1:D:79:ASP:HA	1:D:80:PRO:HD3	1.77	0.43
1:D:158:LEU:HB2	1:D:332:THR:OG1	2.19	0.43
1:D:461:GLN:NE2	1:E:21:VAL:HB	2.33	0.43
1:E:54:LYS:O	1:E:57:ASN:O	2.36	0.43
1:E:120:HIS:CE1	1:E:122:LEU:H	2.37	0.43
1:E:451:LEU:O	1:E:454:LYS:N	2.50	0.43
1:F:36:HIS:C	1:F:36:HIS:ND1	2.77	0.43
1:F:153:GLN:NE2	1:F:300:VAL:HA	2.32	0.43
1:F:155:GLN:HB3	1:F:252:ARG:HB3	2.01	0.43
1:F:166:GLY:N	1:F:195:ILE:HG13	2.33	0.43
1:F:256:PHE:CE2	1:F:296:SER:OG	2.65	0.43
1:F:323:ILE:HD12	1:F:323:ILE:HG23	1.84	0.43
1:F:374:PHE:HB3	1:F:376:PHE:CE1	2.54	0.43
1:G:75:ILE:CG2	1:G:451:LEU:HD12	2.49	0.43
1:H:33:ILE:HD13	1:H:33:ILE:HA	1.72	0.43
1:I:44:ALA:HB3	1:I:368:GLU:HB2	2.01	0.43
1:I:241:PRO:CG	1:I:242:TYR:H	2.28	0.43
1:J:89:SER:C	1:J:91:TYR:N	2.77	0.43
1:J:156:LEU:HD12	1:J:157:CYS:N	2.33	0.43
1:K:153:GLN:CD	1:K:300:VAL:HG12	2.42	0.43
1:K:280:SER:CA	1:K:284:ALA:HB2	2.49	0.43
1:L:66:SER:OG	1:L:68:LEU:N	2.52	0.43
1:L:358:THR:HA	1:M:266:THR:CG2	2.49	0.43
1:N:262:ASN:HD22	1:N:262:ASN:C	2.27	0.43
1:O:223:ASP:OD1	1:O:224:ILE:N	2.52	0.43
1:O:351:SER:O	1:O:352:GLU:C	2.61	0.43
1:A:33:ILE:HB	1:A:378:LEU:HB3	2.01	0.42
1:A:139:ALA:CB	1:A:143:ASN:HD21	2.31	0.42
1:A:286:LEU:CD1	1:E:122:LEU:CD2	2.87	0.42
1:A:290:ASN:N	1:A:290:ASN:ND2	2.66	0.42
1:D:150:ASP:OD1	1:E:257:VAL:HG21	2.18	0.42
1:D:348:ILE:HD12	1:D:348:ILE:HA	1.71	0.42
1:D:390:TYR:C	1:D:392:HIS:N	2.77	0.42
1:E:80:PRO:HB2	1:E:98:LEU:HB3	2.01	0.42
1:E:317:GLN:H	1:E:317:GLN:HG3	1.50	0.42
1:E:384:THR:H	1:E:387:VAL:HB	1.84	0.42
1:F:105:VAL:HG22	1:F:374:PHE:CD2	2.54	0.42
1:F:144:ARG:HD3	1:J:355:TYR:CE1	2.53	0.42
1:F:259:HIS:HE1	1:G:130:GLU:OE1	2.02	0.42
1:G:351:SER:O	1:G:352:GLU:C	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:363:TYR:HE2	1:H:269:GLU:HG3	1.84	0.42
1:H:81:ASN:ND2	1:H:402:TRP:CD1	2.87	0.42
1:H:90:PHE:HD1	1:H:91:TYR:HB3	1.84	0.42
1:H:92:ASN:C	1:H:94:ASP:H	2.26	0.42
1:H:126:LEU:HD23	1:H:262:ASN:OD1	2.19	0.42
1:H:241:PRO:HG2	1:H:242:TYR:H	1.84	0.42
1:H:395:ASN:O	1:H:398:ILE:HG12	2.18	0.42
1:J:43:LEU:HA	1:J:368:GLU:O	2.19	0.42
1:J:465:GLY:O	1:J:466:ARG:C	2.61	0.42
1:K:48:PRO:HB3	1:K:341:ASN:ND2	2.32	0.42
1:K:109:ARG:HE	1:K:338:ARG:HD2	1.83	0.42
1:K:259:HIS:CA	1:K:260:LEU:HD12	2.48	0.42
1:M:156:LEU:HD12	1:M:157:CYS:N	2.34	0.42
1:M:303:ASP:N	1:M:303:ASP:OD1	2.52	0.42
1:N:208:MET:SD	1:N:210:PHE:CE2	3.12	0.42
1:N:292:PHE:O	1:N:292:PHE:CG	2.71	0.42
1:A:120:HIS:CG	1:A:222:LEU:CD1	3.02	0.42
1:A:151:TYR:OH	1:A:221:PRO:HB2	2.18	0.42
1:A:440:PRO:C	1:A:443:LYS:HZ2	2.27	0.42
1:B:92:ASN:C	1:B:94:ASP:N	2.77	0.42
1:B:164:PRO:HG2	1:B:195:ILE:HB	2.00	0.42
1:C:36:HIS:C	1:C:36:HIS:ND1	2.77	0.42
1:C:74:ARG:O	1:C:449:VAL:HG23	2.19	0.42
1:C:147:ILE:HD13	1:C:261:PHE:CE1	2.55	0.42
1:C:181:GLN:OE1	1:C:182:PRO:O	2.36	0.42
1:C:219:GLU:O	1:C:220:VAL:HG13	2.18	0.42
1:C:333:VAL:CG1	1:C:334:VAL:N	2.82	0.42
1:D:71:ARG:HH11	1:D:71:ARG:HG2	1.84	0.42
1:D:159:ILE:O	1:D:247:PHE:CD1	2.71	0.42
1:E:33:ILE:HA	1:E:33:ILE:HD13	2.01	0.42
1:E:54:LYS:HB2	1:E:57:ASN:HD22	1.84	0.42
1:E:113:LEU:N	1:E:113:LEU:HD12	2.34	0.42
1:E:216:ASN:O	1:E:217:LYS:HB3	2.20	0.42
1:E:320:ASN:ND2	1:E:325:TRP:NE1	2.66	0.42
1:E:395:ASN:ND2	1:E:395:ASN:C	2.77	0.42
1:F:166:GLY:HA2	1:F:232:PRO:HA	2.01	0.42
1:F:278:LYS:HB2	1:I:354:THR:HG22	2.01	0.42
1:G:381:ILE:O	1:G:383:LEU:HD12	2.18	0.42
1:H:92:ASN:HD21	1:H:94:ASP:HB2	1.83	0.42
1:H:185:CYS:SG	1:H:186:PRO:HD2	2.59	0.42
1:H:459:LEU:C	1:H:461:GLN:N	2.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:57:ASN:HD21	1:I:59:LYS:CB	2.32	0.42
1:J:263:ARG:HG2	1:J:292:PHE:HD2	1.84	0.42
1:J:300:VAL:HG22	1:J:300:VAL:H	1.41	0.42
1:K:21:VAL:CG1	1:K:390:TYR:OH	2.60	0.42
1:K:29:ALA:CB	1:K:380:LYS:O	2.66	0.42
1:K:33:ILE:HD12	1:K:33:ILE:HG23	1.76	0.42
1:K:155:GLN:HG3	1:K:307:PHE:HE1	1.84	0.42
1:K:260:LEU:HD23	1:O:117:ILE:HD11	2.00	0.42
1:K:391:ILE:HG21	1:K:391:ILE:HD13	1.85	0.42
1:L:151:TYR:CD2	1:L:203:THR:HB	2.55	0.42
1:L:224:ILE:O	1:L:226:THR:N	2.52	0.42
1:L:451:LEU:HA	1:L:451:LEU:HD23	1.79	0.42
1:M:191:ILE:HG21	1:M:191:ILE:HD13	1.69	0.42
1:M:374:PHE:C	1:M:375:ILE:HG12	2.44	0.42
1:M:386:ASP:OD2	1:M:386:ASP:N	2.52	0.42
1:N:228:ILE:CD1	1:N:228:ILE:N	2.82	0.42
1:N:375:ILE:HD11	1:N:465:GLY:HA2	2.00	0.42
1:N:399:LEU:HA	1:N:402:TRP:HE3	1.83	0.42
1:O:71:ARG:HH12	1:O:198:GLY:H	1.68	0.42
1:O:81:ASN:HD21	1:O:402:TRP:CD1	2.37	0.42
1:O:266:THR:OG1	1:O:266:THR:O	2.38	0.42
1:A:153:GLN:NE2	1:A:300:VAL:HG12	2.34	0.42
1:A:300:VAL:HG22	1:B:255:MET:O	2.18	0.42
1:A:450:ASN:ND2	1:A:452:LYS:HD2	2.35	0.42
1:B:42:LEU:HD13	1:B:73:PHE:HE2	1.83	0.42
1:B:209:ASP:O	1:B:213:LEU:HD23	2.20	0.42
1:C:153:GLN:NE2	1:C:300:VAL:HG12	2.34	0.42
1:C:281:GLY:O	1:C:282:SER:C	2.61	0.42
1:C:399:LEU:O	1:C:402:TRP:HB2	2.19	0.42
1:D:196:GLN:NE2	1:D:444:TYR:CD2	2.81	0.42
1:F:106:GLU:HB3	1:F:373:GLN:HB2	2.01	0.42
1:F:291:TYR:OH	1:J:120:HIS:C	2.62	0.42
1:G:49:TYR:HE1	1:G:364:LEU:HD13	1.84	0.42
1:G:54:LYS:HG2	1:G:56:ASN:OD1	2.19	0.42
1:G:149:MET:HE2	1:G:205:PHE:CE1	2.54	0.42
1:G:168:HIS:CE1	1:G:191:ILE:HB	2.54	0.42
1:G:302:SER:C	1:G:304:ALA:N	2.65	0.42
1:H:21:VAL:CG1	1:H:390:TYR:OH	2.63	0.42
1:H:104:GLY:CA	1:H:375:ILE:HB	2.49	0.42
1:H:263:ARG:HD3	1:H:292:PHE:CD2	2.54	0.42
1:I:80:PRO:HG2	1:I:98:LEU:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:52:ILE:HD12	1:J:52:ILE:N	2.34	0.42
1:J:61:LEU:HD12	1:J:61:LEU:O	2.18	0.42
1:K:45:VAL:CG2	1:L:169:TRP:CZ3	3.02	0.42
1:K:272:PRO:HB2	1:K:275:LEU:HG	2.01	0.42
1:K:390:TYR:C	1:K:392:HIS:H	2.27	0.42
1:L:50:PHE:HB2	1:L:51:PRO:HD2	2.02	0.42
1:L:226:THR:HG21	1:M:275:LEU:HD23	2.00	0.42
1:M:155:GLN:CD	1:M:306:ILE:HG12	2.44	0.42
1:N:124:ASN:OD1	1:N:264:ALA:N	2.34	0.42
1:N:142:ASP:OD1	1:O:279:GLY:HA2	2.18	0.42
1:N:357:ASN:H	1:O:141:VAL:HG13	1.85	0.42
1:N:458:ASP:C	1:N:460:ASP:H	2.27	0.42
1:O:156:LEU:HD22	1:O:234:TYR:OH	2.19	0.42
1:O:169:TRP:HD1	1:O:207:ALA:O	2.02	0.42
1:O:277:ILE:HG21	1:O:277:ILE:HD13	1.53	0.42
1:O:348:ILE:HG22	1:O:359:ASN:OD1	2.19	0.42
1:A:52:ILE:CD1	1:A:52:ILE:H	2.27	0.42
1:A:119:GLY:N	1:A:221:PRO:HB3	2.34	0.42
1:A:274:ASP:OD1	1:A:274:ASP:N	2.51	0.42
1:A:323:ILE:HG21	1:A:325:TRP:CE2	2.54	0.42
1:A:395:ASN:HB3	1:A:398:ILE:HG12	2.02	0.42
1:B:166:GLY:HA2	1:B:232:PRO:HA	2.02	0.42
1:B:233:ASP:OD2	1:B:236:LYS:HB2	2.19	0.42
1:B:351:SER:O	1:B:352:GLU:C	2.62	0.42
1:C:169:TRP:N	1:C:208:MET:HA	2.32	0.42
1:D:311:TYR:CD2	1:D:311:TYR:N	2.82	0.42
1:F:76:HIS:HB2	1:F:450:ASN:HA	2.01	0.42
1:F:233:ASP:O	1:F:234:TYR:C	2.61	0.42
1:F:356:LYS:O	1:F:359:ASN:N	2.50	0.42
1:F:384:THR:O	1:F:385:ALA:C	2.60	0.42
1:G:98:LEU:HD13	1:G:378:LEU:HD11	2.00	0.42
1:G:208:MET:SD	1:G:210:PHE:HE2	2.42	0.42
1:G:220:VAL:HB	1:G:224:ILE:HG13	2.00	0.42
1:G:248:PHE:CE2	1:G:311:TYR:CB	3.02	0.42
1:G:361:LYS:CA	1:H:266:THR:HG1	2.19	0.42
1:H:215:ALA:O	1:H:216:ASN:C	2.63	0.42
1:H:345:CYS:HA	1:H:361:LYS:O	2.19	0.42
1:I:40:SER:O	1:I:41:ARG:HB2	2.19	0.42
1:I:200:MET:HB2	1:I:228:ILE:O	2.20	0.42
1:I:306:ILE:HD12	1:I:306:ILE:HG23	1.60	0.42
1:J:31:THR:HG23	1:J:378:LEU:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:42:LEU:HD22	1:J:447:TRP:CZ2	2.54	0.42
1:J:120:HIS:O	1:J:121:PRO:C	2.62	0.42
1:J:126:LEU:HA	1:J:126:LEU:HD12	1.72	0.42
1:J:155:GLN:HE21	1:J:155:GLN:HB2	1.53	0.42
1:K:71:ARG:HB3	1:K:73:PHE:CE1	2.55	0.42
1:K:123:LEU:O	1:K:125:LYS:N	2.52	0.42
1:K:124:ASN:OD1	1:K:264:ALA:N	2.51	0.42
1:L:278:LYS:HB3	1:O:354:THR:HG22	2.01	0.42
1:M:282:SER:C	1:M:284:ALA:N	2.77	0.42
1:N:106:GLU:HG3	1:N:309:LYS:O	2.18	0.42
1:N:313:LEU:CD2	1:N:313:LEU:HD11	2.48	0.42
1:O:365:ARG:HD3	1:O:365:ARG:HA	1.65	0.42
1:A:71:ARG:HD3	1:A:197:ASP:OD1	2.20	0.42
1:A:216:ASN:ND2	1:A:219:GLU:OE2	2.52	0.42
1:A:237:MET:CE	1:A:246:LEU:HD13	2.50	0.42
1:A:305:GLN:HE22	1:A:337:THR:HG21	1.84	0.42
1:A:342:MET:SD	1:B:208:MET:CE	3.07	0.42
1:A:440:PRO:C	1:A:443:LYS:NZ	2.77	0.42
1:B:54:LYS:HB3	1:B:57:ASN:HB3	2.02	0.42
1:B:90:PHE:CD1	1:B:91:TYR:HB3	2.54	0.42
1:B:180:VAL:HG12	1:B:181:GLN:N	2.34	0.42
1:B:307:PHE:C	1:B:309:LYS:H	2.27	0.42
1:B:358:THR:HA	1:C:266:THR:HG22	2.01	0.42
1:C:78:PRO:HD2	1:C:455:PHE:CZ	2.54	0.42
1:C:162:LYS:HA	1:C:162:LYS:HD3	1.83	0.42
1:D:42:LEU:HA	1:D:42:LEU:HD23	1.73	0.42
1:E:105:VAL:HG22	1:E:374:PHE:CE2	2.55	0.42
1:F:126:LEU:HB3	1:F:127:ASP:H	1.34	0.42
1:F:193:THR:HG23	1:F:230:LYS:CD	2.49	0.42
1:F:222:LEU:HA	1:F:225:CYS:SG	2.59	0.42
1:G:194:VAL:HG21	1:G:444:TYR:CZ	2.55	0.42
1:G:281:GLY:O	1:G:282:SER:C	2.63	0.42
1:G:345:CYS:SG	1:H:216:ASN:N	2.88	0.42
1:G:464:LEU:HD23	1:G:464:LEU:HA	1.80	0.42
1:H:106:GLU:HG3	1:H:310:PRO:CA	2.49	0.42
1:I:156:LEU:C	1:I:156:LEU:CD1	2.92	0.42
1:J:48:PRO:HB3	1:J:341:ASN:ND2	2.35	0.42
1:K:122:LEU:CD1	1:L:286:LEU:HD11	2.48	0.42
1:K:219:GLU:HB3	1:K:263:ARG:NH1	2.34	0.42
1:K:231:TYR:CD1	1:K:232:PRO:HD2	2.54	0.42
1:K:242:TYR:CE2	1:K:394:MET:HB2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:64:LYS:C	1:L:65:VAL:HG23	2.45	0.42
1:L:120:HIS:ND1	1:L:122:LEU:N	2.49	0.42
1:L:188:LEU:HA	1:L:188:LEU:HD13	1.81	0.42
1:L:395:ASN:ND2	1:L:397:THR:OG1	2.52	0.42
1:N:77:LEU:HA	1:N:78:PRO:HD2	1.79	0.42
1:N:154:THR:H	1:N:336:THR:HG23	1.81	0.42
1:O:320:ASN:ND2	1:O:325:TRP:NE1	2.66	0.42
1:O:356:LYS:HB2	1:O:359:ASN:HB3	2.01	0.42
1:O:458:ASP:C	1:O:459:LEU:HD23	2.44	0.42
1:A:80:PRO:HB2	1:A:98:LEU:HB2	2.02	0.42
1:A:167:GLU:HG2	1:A:231:TYR:O	2.20	0.42
1:A:178:VAL:CG1	1:A:178:VAL:HB	2.20	0.42
1:A:348:ILE:O	1:A:348:ILE:HG13	2.19	0.42
1:B:125:LYS:HE2	1:B:127:ASP:O	2.20	0.42
1:B:259:HIS:C	1:B:260:LEU:HD12	2.44	0.42
1:B:384:THR:H	1:B:387:VAL:HB	1.85	0.42
1:C:75:ILE:HB	1:C:329:LEU:HB3	2.01	0.42
1:C:143:ASN:OD1	1:C:143:ASN:N	2.52	0.42
1:C:358:THR:HA	1:D:266:THR:CG2	2.48	0.42
1:D:219:GLU:C	1:D:220:VAL:CG1	2.92	0.42
1:D:302:SER:O	1:D:304:ALA:N	2.53	0.42
1:E:90:PHE:HE1	1:E:98:LEU:HD11	1.84	0.42
1:E:216:ASN:OD1	1:E:218:SER:N	2.53	0.42
1:E:223:ASP:OD1	1:E:224:ILE:HG12	2.19	0.42
1:E:325:TRP:CZ2	1:E:394:MET:HE1	2.54	0.42
1:F:81:ASN:OD1	1:F:98:LEU:N	2.52	0.42
1:F:231:TYR:CD1	1:J:112:PRO:HB3	2.55	0.42
1:G:92:ASN:ND2	1:G:94:ASP:HB2	2.29	0.42
1:G:342:MET:HB2	1:H:208:MET:HE1	2.02	0.42
1:H:96:GLN:HA	1:H:381:ILE:O	2.19	0.42
1:H:96:GLN:CA	1:H:382:THR:HA	2.50	0.42
1:I:98:LEU:HA	1:I:379:CYS:O	2.19	0.42
1:I:120:HIS:CE1	1:I:218:SER:HB3	2.55	0.42
1:I:472:LEU:HD22	1:M:138:ASN:HD22	1.71	0.42
1:K:21:VAL:CG1	1:K:22:VAL:N	2.83	0.42
1:K:24:THR:C	1:K:26:GLU:N	2.77	0.42
1:K:150:ASP:OD1	1:L:257:VAL:HG21	2.19	0.42
1:L:137:ALA:O	1:L:138:ASN:C	2.59	0.42
1:L:201:VAL:HG23	1:L:202:ASP:C	2.44	0.42
1:L:262:ASN:HD22	1:L:262:ASN:C	2.20	0.42
1:L:307:PHE:CD1	1:L:307:PHE:N	2.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:323:ILE:HG23	1:L:323:ILE:HD12	1.44	0.42
1:L:398:ILE:HD12	1:L:398:ILE:HG23	1.12	0.42
1:M:54:LYS:CE	1:M:55:PRO:HD2	2.48	0.42
1:M:137:ALA:CB	1:M:137:ALA:HA	2.21	0.42
1:M:257:VAL:H	1:M:257:VAL:HG22	1.29	0.42
1:M:262:ASN:HD21	1:M:288:SER:CB	2.32	0.42
1:M:395:ASN:O	1:M:398:ILE:CG1	2.67	0.42
1:N:69:GLN:HA	1:N:199:ASP:O	2.19	0.42
1:N:149:MET:HE1	1:N:205:PHE:HE1	1.78	0.42
1:N:155:GLN:HB3	1:N:252:ARG:HB3	2.02	0.42
1:N:400:GLU:O	1:N:401:ASP:C	2.62	0.42
1:O:22:VAL:O	1:O:23:SER:C	2.62	0.42
1:O:91:TYR:CD2	1:O:91:TYR:C	2.97	0.42
1:O:120:HIS:HB2	1:O:221:PRO:HA	2.00	0.42
1:O:325:TRP:HB3	1:O:398:ILE:HD11	2.02	0.42
1:O:364:LEU:C	1:O:365:ARG:HG2	2.43	0.42
1:A:133:SER:O	1:A:134:ALA:HB2	2.20	0.42
1:A:139:ALA:O	1:A:141:VAL:N	2.53	0.42
1:A:149:MET:HA	1:B:260:LEU:CD2	2.48	0.42
1:A:149:MET:HE2	1:A:205:PHE:CZ	2.55	0.42
1:B:81:ASN:ND2	1:B:402:TRP:HD1	2.15	0.42
1:B:141:VAL:HG12	1:B:142:ASP:N	2.26	0.42
1:B:336:THR:O	1:B:338:ARG:N	2.52	0.42
1:C:52:ILE:HG12	1:D:269:GLU:OE2	2.20	0.42
1:C:342:MET:SD	1:D:208:MET:CE	3.07	0.42
1:C:356:LYS:NZ	1:C:356:LYS:HD2	2.29	0.42
1:C:390:TYR:HB3	1:C:391:ILE:H	1.69	0.42
1:D:240:GLU:HG3	1:D:243:GLY:N	2.35	0.42
1:E:168:HIS:HB2	1:E:208:MET:HA	2.01	0.42
1:F:24:THR:O	1:F:26:GLU:N	2.53	0.42
1:F:77:LEU:HA	1:F:78:PRO:HD2	1.85	0.42
1:F:216:ASN:CG	1:F:219:GLU:OE2	2.62	0.42
1:F:241:PRO:C	1:F:243:GLY:N	2.76	0.42
1:G:196:GLN:CA	1:G:199:ASP:OD2	2.67	0.42
1:G:375:ILE:CG1	1:G:464:LEU:HD13	2.46	0.42
1:H:77:LEU:HD21	1:H:376:PHE:CZ	2.53	0.42
1:H:121:PRO:HG3	1:I:289:SER:HB2	2.02	0.42
1:H:348:ILE:HD12	1:I:182:PRO:O	2.19	0.42
1:H:365:ARG:HH11	1:H:365:ARG:HG3	1.84	0.42
1:I:45:VAL:C	1:I:65:VAL:HG21	2.44	0.42
1:I:219:GLU:CA	1:I:263:ARG:HH12	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:240:GLU:HG3	1:I:243:GLY:CA	2.50	0.42
1:J:155:GLN:OE1	1:J:305:GLN:HA	2.20	0.42
1:J:185:CYS:SG	1:J:186:PRO:HD2	2.59	0.42
1:K:36:HIS:ND1	1:K:37:ALA:N	2.68	0.42
1:K:110:GLY:O	1:K:111:GLN:NE2	2.53	0.42
1:K:121:PRO:HG2	1:L:289:SER:HB2	2.01	0.42
1:K:440:PRO:O	1:K:443:LYS:NZ	2.53	0.42
1:L:120:HIS:HE2	1:L:218:SER:HB3	1.84	0.42
1:N:68:LEU:CB	1:N:201:VAL:CG2	2.96	0.42
1:N:79:ASP:CG	1:N:81:ASN:HB2	2.42	0.42
1:N:150:ASP:O	1:N:296:SER:HA	2.18	0.42
1:N:262:ASN:ND2	1:N:288:SER:CB	2.67	0.42
1:O:35:TYR:O	1:O:375:ILE:HA	2.20	0.42
1:O:43:LEU:HD12	1:O:369:GLU:HA	2.02	0.42
1:O:149:MET:HE2	1:O:295:PRO:HD2	2.00	0.42
1:O:366:HIS:CD2	1:O:367:GLY:N	2.87	0.42
1:A:149:MET:CE	1:A:205:PHE:CZ	3.03	0.42
1:B:42:LEU:HD22	1:B:447:TRP:HZ2	1.83	0.42
1:C:163:PRO:HA	1:C:164:PRO:HD2	1.80	0.42
1:C:185:CYS:HA	1:C:186:PRO:HD3	1.71	0.42
1:C:255:MET:HG3	1:C:295:PRO:HB2	2.01	0.42
1:C:373:GLN:HB3	1:C:464:LEU:HG	2.02	0.42
1:C:464:LEU:C	1:C:464:LEU:HD23	2.40	0.42
1:D:164:PRO:HG3	1:D:332:THR:HG21	2.02	0.42
1:D:358:THR:HG22	1:E:266:THR:HG22	2.01	0.42
1:E:39:THR:CG2	1:E:449:VAL:HG11	2.50	0.42
1:E:165:ILE:CD1	1:E:165:ILE:CB	2.85	0.42
1:F:46:GLY:O	1:F:365:ARG:HA	2.20	0.42
1:F:99:VAL:HG11	1:F:323:ILE:CG2	2.41	0.42
1:G:42:LEU:CD1	1:G:73:PHE:HE2	2.33	0.42
1:G:66:SER:HA	1:G:366:HIS:ND1	2.34	0.42
1:G:85:PHE:CE1	1:G:98:LEU:CD1	3.02	0.42
1:G:299:MET:HE3	1:G:299:MET:HB3	1.76	0.42
1:H:35:TYR:O	1:H:376:PHE:N	2.39	0.42
1:H:74:ARG:NH2	1:H:441:LEU:HD12	2.34	0.42
1:H:196:GLN:O	1:H:197:ASP:C	2.59	0.42
1:H:390:TYR:C	1:H:392:HIS:H	2.27	0.42
1:I:147:ILE:HA	1:J:129:THR:O	2.20	0.42
1:I:234:TYR:O	1:I:235:ILE:C	2.63	0.42
1:I:329:LEU:HD13	1:I:374:PHE:HE2	1.82	0.42
1:I:338:ARG:HH11	1:I:338:ARG:HG3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:390:TYR:C	1:I:392:HIS:H	2.27	0.42
1:J:276:TYR:CD1	1:J:277:ILE:N	2.87	0.42
1:L:213:LEU:HA	1:L:213:LEU:HD13	1.78	0.42
1:M:53:LYS:HD3	1:M:58:ASN:HA	2.02	0.42
1:M:54:LYS:HG3	1:M:55:PRO:CD	2.50	0.42
1:M:107:VAL:O	1:M:307:PHE:HB3	2.20	0.42
1:N:61:LEU:CD1	1:N:61:LEU:O	2.63	0.42
1:N:365:ARG:NH1	1:N:365:ARG:HG2	2.35	0.42
1:O:188:LEU:HD13	1:O:188:LEU:HA	1.86	0.42
1:O:398:ILE:CD1	1:O:398:ILE:CG2	2.97	0.42
1:A:96:GLN:HA	1:A:382:THR:HA	2.00	0.42
1:A:185:CYS:HB2	1:E:363:TYR:CE2	2.55	0.42
1:B:464:LEU:O	1:B:464:LEU:HD23	2.20	0.42
1:C:45:VAL:HG21	1:D:169:TRP:CH2	2.54	0.42
1:C:274:ASP:OD1	1:C:274:ASP:N	2.52	0.42
1:C:472:LEU:CD2	1:H:138:ASN:HD22	2.32	0.42
1:E:124:ASN:OD1	1:E:124:ASN:C	2.62	0.42
1:E:152:LYS:HE2	1:E:202:ASP:CG	2.44	0.42
1:F:122:LEU:HD11	1:G:286:LEU:CD1	2.48	0.42
1:F:125:LYS:HE3	1:F:261:PHE:CD2	2.54	0.42
1:F:375:ILE:HG12	1:F:464:LEU:CD1	2.44	0.42
1:G:57:ASN:HD21	1:G:59:LYS:CB	2.32	0.42
1:G:210:PHE:HE1	1:G:224:ILE:HD12	1.85	0.42
1:I:180:VAL:HG13	1:I:184:ASP:CB	2.50	0.42
1:I:281:GLY:N	1:I:284:ALA:CB	2.83	0.42
1:J:105:VAL:HG22	1:J:374:PHE:CD2	2.55	0.42
1:J:220:VAL:O	1:J:221:PRO:O	2.37	0.42
1:K:186:PRO:HD2	1:O:344:LEU:HD12	2.01	0.42
1:K:235:ILE:HD11	1:O:109:ARG:O	2.20	0.42
1:L:43:LEU:HD12	1:L:43:LEU:HA	1.62	0.42
1:L:66:SER:C	1:L:68:LEU:H	2.28	0.42
1:L:390:TYR:C	1:L:392:HIS:H	2.28	0.42
1:M:74:ARG:HD3	1:M:448:GLU:CD	2.43	0.42
1:N:123:LEU:O	1:N:125:LYS:N	2.53	0.42
1:O:21:VAL:HG13	1:O:390:TYR:OH	2.20	0.42
1:O:125:LYS:HD3	1:O:125:LYS:C	2.44	0.42
1:A:85:PHE:CZ	1:A:378:LEU:HD22	2.55	0.42
1:A:178:VAL:C	1:A:180:VAL:N	2.73	0.42
1:A:222:LEU:HD12	1:A:222:LEU:HA	1.77	0.42
1:A:271:VAL:CG2	1:E:222:LEU:HD21	2.50	0.42
1:B:117:ILE:HD11	1:C:260:LEU:CD2	2.41	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:117:ILE:H	1:B:117:ILE:HG22	1.57	0.42
1:B:153:GLN:CD	1:B:300:VAL:HG12	2.44	0.42
1:C:99:VAL:HG12	1:C:100:TRP:O	2.20	0.42
1:D:290:ASN:N	1:D:290:ASN:HD22	2.18	0.42
1:D:344:LEU:CD1	1:E:213:LEU:HD13	2.49	0.42
1:E:117:ILE:CD1	1:E:117:ILE:HG21	2.50	0.42
1:G:30:ARG:HG2	1:G:377:GLN:NE2	2.35	0.42
1:H:31:THR:HG23	1:H:31:THR:H	1.59	0.42
1:H:54:LYS:HB2	1:H:57:ASN:HD22	1.85	0.42
1:H:73:PHE:CD1	1:H:73:PHE:N	2.86	0.42
1:H:98:LEU:HD13	1:H:378:LEU:HD11	2.02	0.42
1:H:150:ASP:O	1:H:150:ASP:CG	2.63	0.42
1:H:156:LEU:C	1:H:156:LEU:HD12	2.44	0.42
1:H:280:SER:CA	1:H:284:ALA:HB2	2.50	0.42
1:I:112:PRO:HB2	1:J:202:ASP:OD2	2.20	0.42
1:I:365:ARG:NH2	1:J:269:GLU:OE1	2.47	0.42
1:I:392:HIS:HB2	1:I:399:LEU:HD11	2.02	0.42
1:I:398:ILE:HG22	1:I:402:TRP:CH2	2.55	0.42
1:J:34:TYR:CE2	1:J:377:GLN:HG3	2.55	0.42
1:K:202:ASP:C	1:K:203:THR:HG23	2.45	0.42
1:K:208:MET:SD	1:O:342:MET:HB2	2.60	0.42
1:K:323:ILE:CG2	1:K:325:TRP:CZ3	3.03	0.42
1:L:163:PRO:N	1:L:330:PHE:CD1	2.87	0.42
1:L:208:MET:CG	1:L:210:PHE:CE2	3.02	0.42
1:M:64:LYS:C	1:M:65:VAL:HG23	2.44	0.42
1:M:320:ASN:ND2	1:M:325:TRP:NE1	2.68	0.42
1:N:39:THR:H	1:N:39:THR:HG23	1.37	0.42
1:N:219:GLU:HB3	1:N:263:ARG:NH2	2.35	0.42
1:N:280:SER:C	1:N:284:ALA:HB2	2.44	0.42
1:O:59:LYS:HE2	1:O:59:LYS:HB3	1.89	0.42
1:O:68:LEU:HD23	1:O:201:VAL:HG21	2.01	0.42
1:A:120:HIS:HA	1:A:121:PRO:HD3	1.92	0.41
1:A:354:THR:O	1:A:355:TYR:C	2.63	0.41
1:B:54:LYS:NZ	1:B:54:LYS:CA	2.81	0.41
1:B:71:ARG:HA	1:B:71:ARG:HD3	1.60	0.41
1:B:81:ASN:HD21	1:B:402:TRP:HE1	1.67	0.41
1:B:348:ILE:HD11	1:C:181:GLN:HE22	1.85	0.41
1:C:87:ASP:O	1:C:88:THR:CG2	2.68	0.41
1:C:326:GLY:O	1:C:327:ASN:CB	2.68	0.41
1:D:240:GLU:HG3	1:D:243:GLY:H	1.84	0.41
1:E:27:TYR:CE2	1:E:390:TYR:HE2	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:280:SER:CA	1:E:284:ALA:HB2	2.50	0.41
1:F:35:TYR:CD1	1:F:100:TRP:HH2	2.38	0.41
1:F:47:HIS:HA	1:F:48:PRO:HD2	1.54	0.41
1:F:150:ASP:CG	1:G:257:VAL:HG21	2.45	0.41
1:G:36:HIS:ND1	1:G:36:HIS:C	2.77	0.41
1:G:107:VAL:O	1:G:307:PHE:HB3	2.19	0.41
1:H:117:ILE:HD11	1:I:260:LEU:CB	2.45	0.41
1:H:122:LEU:HD13	1:H:144:ARG:HH22	1.82	0.41
1:H:399:LEU:H	1:H:399:LEU:HG	1.68	0.41
1:I:107:VAL:HG13	1:I:372:LEU:HD21	2.02	0.41
1:I:126:LEU:N	1:I:262:ASN:O	2.52	0.41
1:I:273:ASP:N	1:I:273:ASP:OD2	2.52	0.41
1:J:73:PHE:HD1	1:J:73:PHE:H	1.64	0.41
1:J:124:ASN:OD1	1:J:264:ALA:N	2.52	0.41
1:J:443:LYS:HD3	1:J:443:LYS:H	1.85	0.41
1:L:277:ILE:HD13	1:L:277:ILE:HG21	1.86	0.41
1:M:121:PRO:O	1:M:122:LEU:HD23	2.19	0.41
1:M:149:MET:CE	1:M:205:PHE:CE1	3.02	0.41
1:M:169:TRP:HD1	1:M:207:ALA:O	2.02	0.41
1:N:47:HIS:HA	1:N:48:PRO:HD2	1.42	0.41
1:N:217:LYS:CD	1:O:274:ASP:O	2.44	0.41
1:O:43:LEU:HD12	1:O:43:LEU:HA	1.95	0.41
1:O:46:GLY:N	1:O:65:VAL:HG21	2.35	0.41
1:O:339:SER:O	1:O:340:THR:C	2.63	0.41
1:A:100:TRP:CZ2	1:A:455:PHE:CE2	3.08	0.41
1:A:157:CYS:HB2	1:A:307:PHE:HE2	1.84	0.41
1:A:256:PHE:CE1	1:A:257:VAL:O	2.73	0.41
1:A:306:ILE:HD12	1:A:306:ILE:HG23	1.30	0.41
1:B:139:ALA:HB1	1:B:143:ASN:OD1	2.20	0.41
1:B:223:ASP:OD1	1:B:223:ASP:C	2.64	0.41
1:C:35:TYR:CE2	1:C:457:ALA:CB	2.94	0.41
1:C:50:PHE:CB	1:C:51:PRO:HD2	2.50	0.41
1:C:115:VAL:H	1:D:255:MET:CE	2.33	0.41
1:C:372:LEU:HD23	1:C:372:LEU:HA	1.72	0.41
1:D:385:ALA:O	1:D:389:THR:HG23	2.19	0.41
1:D:390:TYR:C	1:D:392:HIS:H	2.28	0.41
1:E:307:PHE:C	1:E:309:LYS:N	2.77	0.41
1:G:113:LEU:HA	1:G:337:THR:O	2.21	0.41
1:G:325:TRP:HB3	1:G:398:ILE:HD11	2.02	0.41
1:G:386:ASP:OD2	1:G:386:ASP:N	2.52	0.41
1:G:438:GLU:HG2	1:G:442:LYS:NZ	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:390:TYR:C	1:H:392:HIS:N	2.78	0.41
1:I:42:LEU:HD23	1:I:42:LEU:HA	1.74	0.41
1:I:149:MET:HE2	1:I:205:PHE:CE1	2.54	0.41
1:I:348:ILE:HD12	1:I:348:ILE:HA	1.90	0.41
1:J:42:LEU:HB3	1:J:447:TRP:CH2	2.55	0.41
1:J:183:GLY:O	1:J:184:ASP:C	2.63	0.41
1:J:317:GLN:HE21	1:J:317:GLN:HB2	1.70	0.41
1:K:158:LEU:HD23	1:K:249:TYR:HB2	2.02	0.41
1:L:165:ILE:O	1:L:165:ILE:HG22	2.19	0.41
1:L:276:TYR:HB2	1:L:277:ILE:H	1.54	0.41
1:M:24:THR:CG2	1:M:320:ASN:HA	2.50	0.41
1:M:75:ILE:HG12	1:M:374:PHE:CZ	2.55	0.41
1:M:87:ASP:C	1:M:88:THR:CG2	2.92	0.41
1:M:126:LEU:HD13	1:M:264:ALA:CB	2.49	0.41
1:M:173:SER:HA	1:M:174:PRO:HD3	1.57	0.41
1:M:219:GLU:C	1:M:220:VAL:HG13	2.45	0.41
1:M:363:TYR:CD1	1:N:185:CYS:HB2	2.56	0.41
1:N:106:GLU:HG3	1:N:309:LYS:C	2.45	0.41
1:O:71:ARG:HA	1:O:71:ARG:NH1	2.29	0.41
1:O:73:PHE:O	1:O:330:PHE:HD2	2.03	0.41
1:O:156:LEU:HD12	1:O:156:LEU:O	2.20	0.41
1:A:92:ASN:N	1:A:96:GLN:OE1	2.44	0.41
1:A:139:ALA:HB1	1:A:143:ASN:CG	2.40	0.41
1:A:153:GLN:N	1:A:297:GLY:HA3	2.34	0.41
1:A:279:GLY:HA2	1:E:142:ASP:OD1	2.20	0.41
1:B:166:GLY:CA	1:B:195:ILE:HD11	2.50	0.41
1:B:468:PHE:CD1	1:B:468:PHE:C	2.97	0.41
1:C:54:LYS:HZ3	1:C:54:LYS:CA	2.26	0.41
1:D:179:ALA:C	1:D:180:VAL:HG23	2.45	0.41
1:D:216:ASN:OD1	1:D:216:ASN:C	2.60	0.41
1:D:237:MET:HB3	1:D:246:LEU:HD21	2.03	0.41
1:D:281:GLY:O	1:D:282:SER:C	2.63	0.41
1:D:451:LEU:HA	1:D:454:LYS:CG	2.51	0.41
1:F:70:TYR:HE1	1:F:201:VAL:HA	1.85	0.41
1:F:151:TYR:OH	1:F:221:PRO:CB	2.68	0.41
1:F:357:ASN:H	1:G:141:VAL:HG13	1.84	0.41
1:F:468:PHE:O	1:F:468:PHE:CD1	2.74	0.41
1:G:85:PHE:C	1:G:87:ASP:H	2.27	0.41
1:G:201:VAL:HG23	1:G:202:ASP:C	2.44	0.41
1:G:237:MET:CB	1:G:246:LEU:HD22	2.46	0.41
1:H:106:GLU:HG3	1:H:310:PRO:HA	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:202:ASP:OD1	1:H:206:GLY:O	2.38	0.41
1:I:158:LEU:CD2	1:I:249:TYR:HB2	2.51	0.41
1:J:124:ASN:OD1	1:J:124:ASN:O	2.39	0.41
1:K:164:PRO:HG3	1:K:332:THR:HG21	2.00	0.41
1:K:246:LEU:O	1:K:246:LEU:CD2	2.56	0.41
1:L:101:ALA:O	1:L:376:PHE:HA	2.20	0.41
1:L:173:SER:HA	1:L:174:PRO:HD2	1.53	0.41
1:L:381:ILE:HD13	1:L:381:ILE:HG21	1.61	0.41
1:M:57:ASN:HD21	1:M:59:LYS:HB3	1.85	0.41
1:M:70:TYR:OH	1:M:230:LYS:O	2.16	0.41
1:M:167:GLU:HB2	1:M:190:LEU:HD11	2.01	0.41
1:M:306:ILE:HG23	1:M:306:ILE:HD12	1.74	0.41
1:M:374:PHE:C	1:M:464:LEU:HD13	2.45	0.41
1:N:120:HIS:ND1	1:N:121:PRO:HD2	2.35	0.41
1:N:159:ILE:HG22	1:N:247:PHE:CE1	2.55	0.41
1:O:120:HIS:CE1	1:O:122:LEU:H	2.35	0.41
1:O:126:LEU:N	1:O:262:ASN:O	2.51	0.41
1:O:178:VAL:C	1:O:180:VAL:N	2.75	0.41
1:O:218:SER:C	1:O:219:GLU:HG2	2.35	0.41
1:A:92:ASN:HA	1:A:93:PRO:HD2	1.79	0.41
1:A:238:VAL:C	1:A:240:GLU:N	2.78	0.41
1:C:42:LEU:HD22	1:C:447:TRP:HZ2	1.85	0.41
1:C:97:ARG:HG3	1:C:383:LEU:HD11	2.02	0.41
1:C:154:THR:H	1:C:336:THR:CG2	2.33	0.41
1:D:35:TYR:HD2	1:D:456:SER:C	2.28	0.41
1:D:50:PHE:HB2	1:D:51:PRO:HD2	2.02	0.41
1:D:70:TYR:CZ	1:D:230:LYS:O	2.73	0.41
1:D:85:PHE:CZ	1:D:378:LEU:HD22	2.56	0.41
1:D:109:ARG:N	1:D:308:ASN:OD1	2.47	0.41
1:D:281:GLY:O	1:D:284:ALA:HB3	2.20	0.41
1:E:81:ASN:O	1:E:82:LYS:HG3	2.21	0.41
1:E:228:ILE:N	1:E:228:ILE:HD12	2.36	0.41
1:E:464:LEU:O	1:E:465:GLY:C	2.60	0.41
1:E:465:GLY:O	1:E:467:LYS:N	2.54	0.41
1:F:116:GLY:HA3	1:F:339:SER:HB2	2.02	0.41
1:F:297:GLY:O	1:F:298:SER:C	2.61	0.41
1:F:319:HIS:CE1	1:J:466:ARG:HD3	2.55	0.41
1:G:111:GLN:HB2	1:G:338:ARG:HD3	2.02	0.41
1:G:117:ILE:HG13	1:G:149:MET:O	2.19	0.41
1:G:196:GLN:C	1:G:199:ASP:OD2	2.62	0.41
1:G:373:GLN:O	1:G:374:PHE:CG	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:39:THR:H	1:H:39:THR:HG23	1.61	0.41
1:H:80:PRO:HG2	1:H:98:LEU:O	2.20	0.41
1:H:400:GLU:C	1:H:402:TRP:N	2.74	0.41
1:I:52:ILE:HB	1:I:62:VAL:HB	2.03	0.41
1:I:109:ARG:N	1:I:308:ASN:OD1	2.51	0.41
1:I:140:GLY:C	1:I:141:VAL:HG23	2.40	0.41
1:I:188:LEU:HD13	1:I:188:LEU:HA	1.76	0.41
1:I:194:VAL:H	1:I:194:VAL:HG23	1.67	0.41
1:I:256:PHE:CE2	1:I:296:SER:OG	2.57	0.41
1:J:105:VAL:HG11	1:J:159:ILE:HD11	2.02	0.41
1:J:279:GLY:HA3	1:J:283:THR:O	2.21	0.41
1:L:96:GLN:CA	1:L:382:THR:HA	2.49	0.41
1:L:204:GLY:CA	1:L:255:MET:HE3	2.51	0.41
1:L:323:ILE:O	1:L:325:TRP:N	2.51	0.41
1:M:50:PHE:CB	1:M:51:PRO:HD2	2.48	0.41
1:M:463:PRO:HB3	1:M:466:ARG:NH2	2.30	0.41
1:N:70:TYR:CE1	1:N:201:VAL:HA	2.55	0.41
1:N:383:LEU:HD22	1:N:388:MET:CE	2.49	0.41
1:O:120:HIS:ND1	1:O:121:PRO:N	2.69	0.41
1:O:149:MET:HE1	1:O:205:PHE:HZ	1.85	0.41
1:O:457:ALA:O	1:O:459:LEU:CD2	2.68	0.41
1:O:459:LEU:N	1:O:459:LEU:CD2	2.64	0.41
1:A:130:GLU:HG2	1:E:259:HIS:CE1	2.56	0.41
1:A:143:ASN:O	1:A:144:ARG:C	2.64	0.41
1:B:77:LEU:HA	1:B:78:PRO:HD2	1.81	0.41
1:B:117:ILE:O	1:B:117:ILE:CG2	2.68	0.41
1:B:259:HIS:CE1	1:C:130:GLU:CG	3.01	0.41
1:B:320:ASN:ND2	1:B:323:ILE:HB	2.35	0.41
1:B:329:LEU:HD23	1:B:329:LEU:HA	1.85	0.41
1:B:395:ASN:C	1:B:395:ASN:HD22	2.27	0.41
1:C:31:THR:HG23	1:C:379:CYS:HA	2.02	0.41
1:C:49:TYR:HB2	1:C:50:PHE:CD2	2.54	0.41
1:C:271:VAL:HA	1:C:272:PRO:HD3	1.81	0.41
1:C:364:LEU:O	1:C:365:ARG:HD3	2.20	0.41
1:D:22:VAL:N	1:D:390:TYR:OH	2.47	0.41
1:D:105:VAL:HG12	1:D:106:GLU:N	2.28	0.41
1:D:118:SER:HB2	1:D:151:TYR:CE1	2.55	0.41
1:D:256:PHE:O	1:D:295:PRO:HA	2.21	0.41
1:D:307:PHE:C	1:D:309:LYS:N	2.76	0.41
1:E:54:LYS:HG3	1:E:55:PRO:CD	2.50	0.41
1:E:375:ILE:HG21	1:E:468:PHE:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:280:SER:O	1:F:280:SER:OG	2.38	0.41
1:F:300:VAL:HG23	1:F:300:VAL:O	2.19	0.41
1:F:469:LEU:C	1:F:471:GLN:H	2.28	0.41
1:G:34:TYR:HA	1:G:376:PHE:O	2.20	0.41
1:G:69:GLN:HB3	1:G:198:GLY:HA2	2.02	0.41
1:G:74:ARG:HA	1:G:330:PHE:CD2	2.55	0.41
1:G:451:LEU:HA	1:G:454:LYS:HG2	2.01	0.41
1:H:110:GLY:O	1:H:111:GLN:NE2	2.50	0.41
1:J:80:PRO:HB2	1:J:98:LEU:HB3	2.02	0.41
1:J:222:LEU:HA	1:J:222:LEU:HD12	1.85	0.41
1:K:257:VAL:HG21	1:O:150:ASP:CB	2.51	0.41
1:M:147:ILE:HG23	1:N:129:THR:O	2.20	0.41
1:N:119:GLY:O	1:N:221:PRO:HB3	2.21	0.41
1:N:397:THR:HB	1:N:401:ASP:OD2	2.20	0.41
1:O:39:THR:CG2	1:O:449:VAL:HG11	2.50	0.41
1:O:139:ALA:O	1:O:140:GLY:C	2.63	0.41
1:O:271:VAL:HG13	1:O:275:LEU:HD12	2.01	0.41
1:A:74:ARG:C	1:A:75:ILE:HD12	2.43	0.41
1:A:120:HIS:ND1	1:A:121:PRO:N	2.69	0.41
1:A:255:MET:CG	1:A:256:PHE:H	2.15	0.41
1:A:372:LEU:HD23	1:A:372:LEU:HA	1.75	0.41
1:B:151:TYR:OH	1:B:221:PRO:CB	2.69	0.41
1:C:224:ILE:HG21	1:C:224:ILE:HD13	1.76	0.41
1:D:162:LYS:O	1:D:330:PHE:HD1	2.04	0.41
1:D:259:HIS:HB3	1:D:260:LEU:H	1.67	0.41
1:E:158:LEU:HD23	1:E:249:TYR:HB2	2.01	0.41
1:F:68:LEU:HD22	1:F:203:THR:HG22	2.02	0.41
1:F:96:GLN:NE2	1:F:382:THR:HG22	2.36	0.41
1:F:267:VAL:H	1:F:267:VAL:HG23	1.47	0.41
1:G:121:PRO:HG3	1:H:289:SER:CB	2.51	0.41
1:G:201:VAL:HG23	1:G:202:ASP:O	2.21	0.41
1:G:219:GLU:CB	1:G:263:ARG:NH2	2.83	0.41
1:G:248:PHE:CE2	1:G:311:TYR:CG	3.08	0.41
1:G:391:ILE:HD12	1:G:402:TRP:CZ3	2.55	0.41
1:I:106:GLU:HB3	1:I:373:GLN:HG3	2.02	0.41
1:I:125:LYS:C	1:I:125:LYS:CD	2.94	0.41
1:I:185:CYS:HA	1:I:186:PRO:HD3	1.88	0.41
1:I:193:THR:CG2	1:I:193:THR:HB	2.19	0.41
1:I:369:GLU:OE1	1:J:190:LEU:CD2	2.67	0.41
1:J:34:TYR:OH	1:J:377:GLN:OE1	2.08	0.41
1:J:191:ILE:HG21	1:J:191:ILE:HD13	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:46:GLY:N	1:K:65:VAL:HB	2.35	0.41
1:K:96:GLN:HE21	1:K:382:THR:HG23	1.85	0.41
1:K:258:ARG:HG3	1:K:259:HIS:ND1	2.36	0.41
1:K:447:TRP:CD1	1:K:447:TRP:C	2.99	0.41
1:L:52:ILE:O	1:L:52:ILE:HG22	2.21	0.41
1:L:391:ILE:HD13	1:L:402:TRP:HH2	1.86	0.41
1:L:459:LEU:C	1:L:461:GLN:H	2.28	0.41
1:M:42:LEU:HD13	1:M:447:TRP:CZ2	2.55	0.41
1:M:57:ASN:HD21	1:M:59:LYS:N	2.18	0.41
1:M:72:VAL:HG21	1:M:195:ILE:O	2.21	0.41
1:N:111:GLN:HG2	1:N:369:GLU:HB3	2.01	0.41
1:N:390:TYR:HB3	1:N:391:ILE:H	1.73	0.41
1:O:74:ARG:HH21	1:O:441:LEU:HD12	1.82	0.41
1:O:137:ALA:O	1:O:138:ASN:C	2.63	0.41
1:O:163:PRO:HA	1:O:330:PHE:CD1	2.55	0.41
1:A:45:VAL:C	1:A:65:VAL:HG21	2.45	0.41
1:A:68:LEU:HD23	1:A:201:VAL:CG2	2.39	0.41
1:A:168:HIS:HB2	1:A:208:MET:CA	2.50	0.41
1:B:47:HIS:HD2	1:C:269:GLU:OE2	2.03	0.41
1:B:218:SER:C	1:B:219:GLU:HG2	2.45	0.41
1:B:367:GLY:O	1:B:368:GLU:HG2	2.21	0.41
1:B:459:LEU:HB3	1:B:465:GLY:HA3	2.02	0.41
1:C:217:LYS:HD3	1:D:274:ASP:O	2.21	0.41
1:C:396:SER:O	1:C:397:THR:C	2.63	0.41
1:D:219:GLU:HB3	1:D:263:ARG:NH2	2.36	0.41
1:D:219:GLU:O	1:D:220:VAL:HG13	2.20	0.41
1:D:235:ILE:O	1:D:235:ILE:HG22	2.21	0.41
1:D:463:PRO:HA	1:D:466:ARG:HE	1.85	0.41
1:E:235:ILE:CD1	1:E:235:ILE:CA	2.99	0.41
1:E:312:TRP:HH2	1:E:468:PHE:HB2	1.78	0.41
1:F:220:VAL:O	1:F:221:PRO:O	2.38	0.41
1:F:248:PHE:CE2	1:F:311:TYR:HB3	2.54	0.41
1:F:253:GLU:O	1:J:302:SER:N	2.50	0.41
1:F:299:MET:HB3	1:F:299:MET:HE3	1.71	0.41
1:G:36:HIS:ND1	1:G:37:ALA:N	2.69	0.41
1:G:149:MET:CE	1:G:205:PHE:HE1	2.31	0.41
1:G:251:ARG:HH11	1:G:251:ARG:HD2	1.63	0.41
1:H:384:THR:N	1:H:387:VAL:HB	2.35	0.41
1:I:23:SER:O	1:I:26:GLU:N	2.42	0.41
1:I:174:PRO:HB3	1:I:175:CYS:H	1.56	0.41
1:J:105:VAL:CG2	1:J:105:VAL:CA	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:255:MET:SD	1:K:255:MET:C	3.03	0.41
1:K:322:GLY:C	1:K:323:ILE:HD13	2.45	0.41
1:K:329:LEU:HA	1:K:329:LEU:HD23	1.80	0.41
1:L:126:LEU:HD12	1:L:126:LEU:HA	1.94	0.41
1:L:201:VAL:HG11	1:L:334:VAL:CG1	2.50	0.41
1:M:289:SER:O	1:M:291:TYR:CD1	2.74	0.41
1:O:158:LEU:O	1:O:331:VAL:HA	2.20	0.41
1:O:329:LEU:HD13	1:O:374:PHE:CE2	2.56	0.41
1:O:463:PRO:HG2	1:O:464:LEU:H	1.85	0.41
1:A:41:ARG:HG2	1:A:42:LEU:O	2.20	0.41
1:A:61:LEU:O	1:A:62:VAL:CG2	2.69	0.41
1:A:80:PRO:C	1:A:82:LYS:H	2.29	0.41
1:A:129:THR:HB	1:E:148:SER:OG	2.20	0.41
1:A:186:PRO:HD2	1:E:344:LEU:HD12	2.03	0.41
1:B:34:TYR:CE2	1:B:377:GLN:HB2	2.55	0.41
1:B:43:LEU:CD1	1:B:369:GLU:HG3	2.50	0.41
1:B:323:ILE:HG21	1:B:325:TRP:CZ2	2.56	0.41
1:B:344:LEU:HD13	1:C:213:LEU:CD1	2.51	0.41
1:B:396:SER:O	1:B:397:THR:C	2.64	0.41
1:D:372:LEU:HB3	1:D:374:PHE:HE1	1.85	0.41
1:D:461:GLN:HE22	1:E:21:VAL:H	1.69	0.41
1:E:240:GLU:CD	1:E:241:PRO:HD2	2.46	0.41
1:E:438:GLU:HG2	1:E:439:ASP:N	2.36	0.41
1:F:120:HIS:CE1	1:F:122:LEU:H	2.37	0.41
1:F:166:GLY:HA3	1:F:195:ILE:HD11	2.02	0.41
1:F:223:ASP:OD1	1:F:224:ILE:N	2.53	0.41
1:G:72:VAL:HA	1:G:332:THR:HG23	2.03	0.41
1:G:105:VAL:CG2	1:G:105:VAL:CA	2.84	0.41
1:G:144:ARG:C	1:G:145:GLU:HG2	2.44	0.41
1:H:96:GLN:HB3	1:H:382:THR:CG2	2.43	0.41
1:H:162:LYS:C	1:H:330:PHE:CD1	2.91	0.41
1:H:355:TYR:CD2	1:H:355:TYR:C	2.98	0.41
1:I:92:ASN:HA	1:I:93:PRO:HD2	1.72	0.41
1:J:39:THR:H	1:J:39:THR:HG23	1.61	0.41
1:J:54:LYS:HA	1:J:54:LYS:HZ2	1.84	0.41
1:J:471:GLN:O	1:J:472:LEU:OXT	2.38	0.41
1:K:121:PRO:HG3	1:L:289:SER:HB2	2.03	0.41
1:K:144:ARG:CZ	1:O:355:TYR:HB2	2.50	0.41
1:L:80:PRO:CG	1:L:98:LEU:O	2.68	0.41
1:L:457:ALA:O	1:L:459:LEU:HD23	2.21	0.41
1:M:21:VAL:C	1:M:22:VAL:HG13	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:117:ILE:CG1	1:M:149:MET:O	2.69	0.41
1:M:238:VAL:C	1:M:240:GLU:N	2.78	0.41
1:M:365:ARG:HA	1:M:365:ARG:HD3	1.86	0.41
1:N:119:GLY:HA3	1:O:291:TYR:CE1	2.56	0.41
1:N:312:TRP:CE3	1:N:312:TRP:HA	2.54	0.41
1:O:184:ASP:O	1:O:185:CYS:C	2.62	0.41
1:O:221:PRO:HD2	1:O:224:ILE:HD11	2.03	0.41
1:A:101:ALA:HB3	1:A:377:GLN:HB3	2.03	0.41
1:A:241:PRO:HG2	1:A:242:TYR:N	2.32	0.41
1:B:71:ARG:HA	1:B:71:ARG:NH1	2.18	0.41
1:B:74:ARG:CB	1:B:330:PHE:HE2	2.34	0.41
1:B:248:PHE:CE2	1:B:311:TYR:CG	3.09	0.41
1:B:360:PHE:CE2	1:C:216:ASN:HA	2.56	0.41
1:C:39:THR:HG22	1:C:449:VAL:CG1	2.51	0.41
1:C:316:ALA:HB3	1:C:321:ASN:OD1	2.21	0.41
1:C:348:ILE:CG2	1:C:359:ASN:OD1	2.59	0.41
1:C:351:SER:O	1:C:352:GLU:O	2.39	0.41
1:D:80:PRO:O	1:D:82:LYS:N	2.54	0.41
1:D:149:MET:HE3	1:D:295:PRO:HD2	2.03	0.41
1:D:231:TYR:HA	1:D:232:PRO:HD3	1.93	0.41
1:D:234:TYR:O	1:D:235:ILE:C	2.64	0.41
1:D:307:PHE:O	1:D:308:ASN:CB	2.67	0.41
1:D:395:ASN:HB3	1:D:398:ILE:CG1	2.45	0.41
1:D:464:LEU:C	1:D:464:LEU:HD22	2.44	0.41
1:D:465:GLY:C	1:D:467:LYS:N	2.79	0.41
1:D:467:LYS:O	1:D:468:PHE:C	2.60	0.41
1:E:68:LEU:HD23	1:E:201:VAL:HG21	2.03	0.41
1:E:133:SER:O	1:E:134:ALA:HB2	2.21	0.41
1:E:151:TYR:CD2	1:E:203:THR:CB	2.94	0.41
1:E:156:LEU:HD12	1:E:156:LEU:C	2.46	0.41
1:E:163:PRO:HB3	1:E:330:PHE:CE1	2.56	0.41
1:E:451:LEU:HD23	1:E:451:LEU:HA	1.76	0.41
1:F:49:TYR:HE1	1:F:364:LEU:CD1	2.34	0.41
1:F:258:ARG:HG3	1:F:259:HIS:ND1	2.35	0.41
1:G:24:THR:C	1:G:26:GLU:N	2.77	0.41
1:G:103:VAL:HG23	1:G:104:GLY:N	2.36	0.41
1:G:115:VAL:H	1:H:255:MET:CE	2.34	0.41
1:G:152:LYS:O	1:G:152:LYS:CG	2.65	0.41
1:G:161:CYS:SG	1:G:244:ASP:O	2.67	0.41
1:G:219:GLU:H	1:G:219:GLU:HG2	1.63	0.41
1:G:299:MET:HA	1:H:256:PHE:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:305:GLN:C	1:G:306:ILE:HD13	2.45	0.41
1:H:103:VAL:HG22	1:H:375:ILE:HG22	2.02	0.41
1:H:119:GLY:O	1:H:222:LEU:N	2.41	0.41
1:H:224:ILE:HD13	1:H:224:ILE:HG21	1.74	0.41
1:H:439:ASP:O	1:H:442:LYS:HB2	2.21	0.41
1:H:461:GLN:NE2	1:I:21:VAL:HG23	2.36	0.41
1:I:33:ILE:O	1:I:377:GLN:HA	2.21	0.41
1:I:75:ILE:HB	1:I:329:LEU:CB	2.50	0.41
1:I:259:HIS:C	1:I:260:LEU:HD12	2.46	0.41
1:I:333:VAL:CG1	1:I:334:VAL:N	2.82	0.41
1:I:373:GLN:CB	1:I:464:LEU:HD12	2.50	0.41
1:I:381:ILE:HD13	1:I:381:ILE:HG21	1.47	0.41
1:J:74:ARG:HD2	1:J:330:PHE:CZ	2.56	0.41
1:J:89:SER:C	1:J:91:TYR:H	2.29	0.41
1:J:98:LEU:CD2	1:J:379:CYS:O	2.66	0.41
1:J:105:VAL:HG11	1:J:159:ILE:CD1	2.51	0.41
1:J:259:HIS:C	1:J:260:LEU:HD12	2.41	0.41
1:K:30:ARG:HH11	1:K:377:GLN:HE22	1.67	0.41
1:K:135:TYR:CE2	1:K:287:ALA:HB2	2.53	0.41
1:K:301:THR:OG1	1:K:302:SER:N	2.52	0.41
1:L:49:TYR:CE2	1:L:118:SER:HB3	2.56	0.41
1:L:109:ARG:NH1	1:L:370:TYR:CZ	2.88	0.41
1:L:121:PRO:CD	1:L:222:LEU:CD1	2.99	0.41
1:L:316:ALA:CB	1:L:321:ASN:OD1	2.67	0.41
1:L:320:ASN:OD1	1:L:323:ILE:HG12	2.21	0.41
1:M:40:SER:O	1:M:41:ARG:HB2	2.20	0.41
1:M:76:HIS:HB2	1:M:450:ASN:HA	2.03	0.41
1:M:150:ASP:HB3	1:N:257:VAL:HG21	2.02	0.41
1:M:323:ILE:HG21	1:M:325:TRP:CE2	2.56	0.41
1:M:328:GLN:HE21	1:M:328:GLN:HB2	1.34	0.41
1:M:399:LEU:HA	1:M:402:TRP:CE3	2.51	0.41
1:N:52:ILE:HD13	1:N:52:ILE:H	1.86	0.41
1:N:68:LEU:HA	1:N:201:VAL:HG21	2.02	0.41
1:N:170:GLY:HA2	1:N:213:LEU:HD21	2.03	0.41
1:N:234:TYR:CD1	1:N:251:ARG:NH2	2.89	0.41
1:N:277:ILE:HD13	1:N:277:ILE:HG21	1.44	0.41
1:O:217:LYS:O	1:O:217:LYS:CG	2.65	0.41
1:A:106:GLU:HG3	1:A:309:LYS:C	2.46	0.41
1:A:185:CYS:SG	1:E:344:LEU:CD1	3.08	0.41
1:A:185:CYS:HA	1:A:186:PRO:HD3	1.95	0.41
1:B:364:LEU:O	1:B:365:ARG:CD	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:70:TYR:CG	1:C:195:ILE:CG2	3.04	0.41
1:C:233:ASP:O	1:C:234:TYR:C	2.62	0.41
1:D:92:ASN:C	1:D:94:ASP:N	2.79	0.41
1:D:166:GLY:H	1:D:195:ILE:HG13	1.84	0.41
1:D:231:TYR:CD1	1:D:232:PRO:HD2	2.56	0.41
1:F:372:LEU:HD23	1:F:372:LEU:HA	1.78	0.41
1:F:398:ILE:HG23	1:F:398:ILE:HD12	1.88	0.41
1:G:24:THR:HG22	1:G:27:TYR:OH	2.20	0.41
1:G:126:LEU:HD12	1:G:126:LEU:HA	1.65	0.41
1:G:219:GLU:O	1:G:263:ARG:NH2	2.37	0.41
1:G:398:ILE:HG22	1:G:402:TRP:CZ3	2.56	0.41
1:H:90:PHE:CD1	1:H:91:TYR:HB3	2.56	0.41
1:H:137:ALA:C	1:H:138:ASN:O	2.64	0.41
1:H:152:LYS:HE2	1:H:154:THR:OG1	2.21	0.41
1:H:162:LYS:HG2	1:H:244:ASP:HB3	2.02	0.41
1:I:150:ASP:CG	1:I:296:SER:HA	2.46	0.41
1:I:355:TYR:C	1:I:355:TYR:CD2	2.99	0.41
1:J:76:HIS:O	1:J:451:LEU:HB2	2.21	0.41
1:K:30:ARG:CD	1:K:30:ARG:CB	2.86	0.41
1:K:66:SER:N	1:K:69:GLN:NE2	2.63	0.41
1:K:115:VAL:HG21	1:L:257:VAL:HG13	2.02	0.41
1:K:234:TYR:O	1:K:236:LYS:N	2.54	0.41
1:L:263:ARG:HD3	1:L:292:PHE:CD2	2.56	0.41
1:M:71:ARG:HG3	1:M:370:TYR:OH	2.21	0.41
1:M:294:THR:OG1	1:M:294:THR:O	2.38	0.41
1:N:149:MET:HE1	1:N:205:PHE:CZ	2.56	0.41
1:N:150:ASP:CG	1:O:257:VAL:HG21	2.46	0.41
1:O:85:PHE:CE2	1:O:378:LEU:HD22	2.56	0.41
1:O:246:LEU:HD23	1:O:246:LEU:O	2.21	0.41
1:A:117:ILE:CG2	1:B:293:PRO:HD3	2.50	0.40
1:A:123:LEU:HD23	1:A:147:ILE:HB	2.03	0.40
1:A:155:GLN:HE21	1:A:155:GLN:HB2	1.60	0.40
1:A:255:MET:SD	1:E:115:VAL:HG22	2.61	0.40
1:A:260:LEU:HD21	1:E:149:MET:HA	2.03	0.40
1:A:351:SER:HB2	1:A:352:GLU:H	1.75	0.40
1:B:122:LEU:HD11	1:C:286:LEU:CD1	2.42	0.40
1:B:316:ALA:CB	1:B:321:ASN:OD1	2.70	0.40
1:B:451:LEU:O	1:B:454:LYS:CB	2.59	0.40
1:C:46:GLY:N	1:C:65:VAL:HB	2.35	0.40
1:C:463:PRO:CA	1:C:466:ARG:HH21	2.34	0.40
1:D:122:LEU:HD21	1:E:286:LEU:HD12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:151:TYR:OH	1:D:221:PRO:HG2	2.22	0.40
1:D:316:ALA:C	1:D:318:GLY:H	2.27	0.40
1:E:154:THR:O	1:E:334:VAL:HG12	2.21	0.40
1:E:216:ASN:ND2	1:E:219:GLU:OE2	2.54	0.40
1:E:247:PHE:CD1	1:E:247:PHE:N	2.87	0.40
1:E:255:MET:HG2	1:E:256:PHE:N	2.36	0.40
1:E:262:ASN:HD22	1:E:263:ARG:N	2.19	0.40
1:F:74:ARG:C	1:F:75:ILE:HD12	2.43	0.40
1:F:260:LEU:N	1:F:260:LEU:CD1	2.65	0.40
1:F:276:TYR:HA	1:J:217:LYS:HG2	2.02	0.40
1:G:392:HIS:HB2	1:G:399:LEU:HD11	2.03	0.40
1:H:24:THR:O	1:H:25:ASP:C	2.64	0.40
1:H:185:CYS:HA	1:H:186:PRO:HD3	1.79	0.40
1:H:193:THR:OG1	1:H:194:VAL:N	2.53	0.40
1:H:242:TYR:CD2	1:H:394:MET:HG3	2.57	0.40
1:H:336:THR:HG23	1:H:336:THR:H	1.47	0.40
1:H:342:MET:CG	1:I:208:MET:HE1	2.52	0.40
1:H:355:TYR:CE1	1:I:144:ARG:HD3	2.56	0.40
1:H:373:GLN:HB3	1:H:464:LEU:CD1	2.39	0.40
1:I:196:GLN:HA	1:I:446:PHE:CE2	2.55	0.40
1:I:306:ILE:HD13	1:I:306:ILE:N	2.17	0.40
1:L:162:LYS:HA	1:L:162:LYS:HD3	1.88	0.40
1:M:85:PHE:HA	1:M:86:PRO:HD2	1.92	0.40
1:M:172:GLY:O	1:M:173:SER:O	2.39	0.40
1:M:387:VAL:HG13	1:M:391:ILE:CD1	2.51	0.40
1:M:387:VAL:O	1:M:391:ILE:HG13	2.20	0.40
1:M:443:LYS:HD3	1:M:443:LYS:H	1.84	0.40
1:N:119:GLY:O	1:N:221:PRO:CA	2.69	0.40
1:O:76:HIS:HB2	1:O:450:ASN:HA	2.03	0.40
1:A:141:VAL:O	1:A:142:ASP:CB	2.66	0.40
1:A:151:TYR:O	1:A:152:LYS:C	2.61	0.40
1:A:224:ILE:H	1:A:224:ILE:HG12	1.76	0.40
1:B:43:LEU:HD12	1:B:369:GLU:HA	2.04	0.40
1:B:163:PRO:CA	1:B:330:PHE:CD1	3.05	0.40
1:C:33:ILE:O	1:C:377:GLN:HA	2.21	0.40
1:C:90:PHE:C	1:C:90:PHE:CD1	2.99	0.40
1:C:120:HIS:HA	1:C:222:LEU:HD13	2.03	0.40
1:C:124:ASN:OD1	1:C:124:ASN:C	2.65	0.40
1:C:231:TYR:HA	1:C:232:PRO:HD3	1.80	0.40
1:C:325:TRP:NE1	1:C:394:MET:HE1	2.35	0.40
1:C:328:GLN:HE21	1:C:328:GLN:HB2	1.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:398:ILE:HG22	1:C:402:TRP:CZ3	2.56	0.40
1:C:451:LEU:HA	1:C:454:LYS:HG2	2.01	0.40
1:C:458:ASP:OD2	1:C:458:ASP:N	2.55	0.40
1:C:461:GLN:HE22	1:D:21:VAL:CG2	2.34	0.40
1:D:33:ILE:HD12	1:D:33:ILE:HG23	1.84	0.40
1:D:262:ASN:CG	1:D:288:SER:HB3	2.46	0.40
1:D:293:PRO:O	1:D:293:PRO:HG2	2.21	0.40
1:E:27:TYR:CZ	1:E:390:TYR:HE2	2.39	0.40
1:G:28:VAL:HG22	1:G:381:ILE:HD11	2.03	0.40
1:G:71:ARG:NH1	1:G:198:GLY:N	2.50	0.40
1:G:115:VAL:N	1:H:255:MET:SD	2.93	0.40
1:H:81:ASN:ND2	1:H:402:TRP:HD1	2.19	0.40
1:H:103:VAL:HG22	1:H:375:ILE:O	2.21	0.40
1:H:113:LEU:HD13	1:I:253:GLU:CD	2.46	0.40
1:H:354:THR:O	1:H:355:TYR:C	2.63	0.40
1:I:50:PHE:HB2	1:I:51:PRO:HD2	2.02	0.40
1:I:99:VAL:CG2	1:I:402:TRP:HZ2	2.34	0.40
1:I:470:LEU:O	1:I:470:LEU:HD23	2.21	0.40
1:J:90:PHE:CD1	1:J:90:PHE:C	2.99	0.40
1:J:233:ASP:OD2	1:J:236:LYS:HB2	2.21	0.40
1:K:42:LEU:HD23	1:K:42:LEU:HA	1.83	0.40
1:K:177:GLN:O	1:K:178:VAL:C	2.64	0.40
1:K:397:THR:O	1:K:401:ASP:OD2	2.40	0.40
1:L:302:SER:O	1:L:304:ALA:N	2.53	0.40
1:M:61:LEU:O	1:M:62:VAL:HG23	2.22	0.40
1:N:96:GLN:HA	1:N:382:THR:HA	2.02	0.40
1:N:345:CYS:SG	1:O:216:ASN:N	2.91	0.40
1:O:62:VAL:HA	1:O:63:PRO:HD3	1.96	0.40
1:O:165:ILE:O	1:O:165:ILE:HG22	2.17	0.40
1:O:451:LEU:HA	1:O:454:LYS:CG	2.51	0.40
1:A:71:ARG:HA	1:A:71:ARG:HD3	1.84	0.40
1:A:98:LEU:HB3	1:A:378:LEU:HD11	2.04	0.40
1:A:217:LYS:HG2	1:B:276:TYR:HA	2.03	0.40
1:A:443:LYS:CD	1:A:443:LYS:H	2.32	0.40
1:B:258:ARG:HB2	1:B:296:SER:HB2	2.03	0.40
1:B:391:ILE:HD13	1:B:402:TRP:HH2	1.87	0.40
1:D:62:VAL:CG1	1:D:63:PRO:CD	2.99	0.40
1:D:155:GLN:HB3	1:D:252:ARG:HB3	2.03	0.40
1:D:176:THR:CA	1:D:176:THR:CG2	2.84	0.40
1:D:246:LEU:HD23	1:D:246:LEU:N	2.10	0.40
1:E:83:PHE:HD2	1:E:85:PHE:CZ	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:320:ASN:ND2	1:E:325:TRP:CD1	2.90	0.40
1:E:389:THR:CG2	1:E:389:THR:CA	2.82	0.40
1:F:78:PRO:O	1:F:79:ASP:C	2.62	0.40
1:F:252:ARG:CD	1:F:306:ILE:HD11	2.42	0.40
1:G:105:VAL:CG1	1:G:106:GLU:N	2.78	0.40
1:H:67:GLY:C	1:H:68:LEU:HG	2.34	0.40
1:H:143:ASN:O	1:H:144:ARG:O	2.39	0.40
1:H:262:ASN:HD22	1:H:263:ARG:N	2.19	0.40
1:H:335:ASP:OD2	1:H:338:ARG:HD2	2.21	0.40
1:I:74:ARG:CZ	1:I:441:LEU:HD12	2.50	0.40
1:I:103:VAL:CG2	1:I:375:ILE:HG22	2.51	0.40
1:I:174:PRO:HD3	1:I:187:PRO:HG2	2.00	0.40
1:I:343:SER:HB3	1:I:364:LEU:CD2	2.51	0.40
1:I:398:ILE:CG2	1:I:402:TRP:CZ3	3.02	0.40
1:I:461:GLN:HE21	1:I:461:GLN:HA	1.85	0.40
1:J:50:PHE:CB	1:J:51:PRO:CD	2.96	0.40
1:J:219:GLU:C	1:J:220:VAL:HG13	2.47	0.40
1:J:345:CYS:HA	1:J:361:LYS:O	2.21	0.40
1:K:21:VAL:HA	1:K:390:TYR:HE1	1.86	0.40
1:K:147:ILE:CG2	1:K:148:SER:N	2.84	0.40
1:K:178:VAL:CG1	1:K:178:VAL:HB	2.20	0.40
1:K:207:ALA:O	1:K:208:MET:CB	2.65	0.40
1:K:217:LYS:HG2	1:L:276:TYR:HA	2.04	0.40
1:K:290:ASN:HA	1:O:364:LEU:CD1	2.50	0.40
1:K:346:ALA:CB	1:K:346:ALA:N	2.71	0.40
1:K:440:PRO:C	1:K:443:LYS:NZ	2.79	0.40
1:L:59:LYS:NZ	1:L:59:LYS:CD	2.73	0.40
1:L:85:PHE:CZ	1:L:378:LEU:HD22	2.57	0.40
1:L:375:ILE:HG21	1:L:468:PHE:CE2	2.55	0.40
1:M:120:HIS:ND1	1:M:121:PRO:CD	2.85	0.40
1:M:120:HIS:ND1	1:M:121:PRO:N	2.69	0.40
1:M:240:GLU:CD	1:M:241:PRO:HD2	2.46	0.40
1:N:214:GLN:CD	1:N:219:GLU:HB2	2.46	0.40
1:N:276:TYR:O	1:N:277:ILE:HG12	2.22	0.40
1:N:384:THR:HG23	1:N:387:VAL:HG21	2.03	0.40
1:N:398:ILE:HG22	1:N:402:TRP:CH2	2.56	0.40
1:A:293:PRO:CD	1:A:293:PRO:O	2.69	0.40
1:A:348:ILE:HG22	1:A:359:ASN:OD1	2.21	0.40
1:A:443:LYS:NZ	1:A:443:LYS:CG	2.85	0.40
1:B:231:TYR:HA	1:B:232:PRO:HD3	1.88	0.40
1:C:85:PHE:HA	1:C:86:PRO:HD2	1.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:194:VAL:HG21	1:C:444:TYR:CZ	2.57	0.40
1:C:217:LYS:O	1:C:218:SER:CB	2.68	0.40
1:C:246:LEU:HD12	1:C:249:TYR:CD2	2.57	0.40
1:C:250:LEU:O	1:C:250:LEU:CD1	2.68	0.40
1:C:440:PRO:CA	1:C:443:LYS:NZ	2.82	0.40
1:C:454:LYS:HA	1:C:454:LYS:HD2	1.93	0.40
1:D:152:LYS:CE	1:D:253:GLU:OE1	2.70	0.40
1:D:196:GLN:HB3	1:D:445:THR:O	2.20	0.40
1:D:241:PRO:HG2	1:D:242:TYR:N	2.34	0.40
1:D:259:HIS:CE1	1:E:130:GLU:HG2	2.56	0.40
1:E:154:THR:O	1:E:336:THR:HG23	2.21	0.40
1:F:65:VAL:CA	1:F:69:GLN:HE22	2.21	0.40
1:F:129:THR:HG22	1:J:146:CYS:O	2.22	0.40
1:F:135:TYR:HE2	1:F:287:ALA:HB2	1.85	0.40
1:G:46:GLY:CA	1:G:63:PRO:O	2.67	0.40
1:G:111:GLN:HA	1:G:112:PRO:HD2	1.86	0.40
1:G:117:ILE:CG1	1:G:149:MET:O	2.70	0.40
1:G:233:ASP:OD2	1:G:236:LYS:HB2	2.22	0.40
1:G:465:GLY:O	1:G:468:PHE:N	2.55	0.40
1:H:70:TYR:CE1	1:H:230:LYS:O	2.74	0.40
1:H:372:LEU:HD23	1:H:372:LEU:HA	1.64	0.40
1:I:62:VAL:HG13	1:I:63:PRO:CD	2.51	0.40
1:I:208:MET:N	1:I:229:CYS:O	2.55	0.40
1:I:249:TYR:CD1	1:I:249:TYR:C	2.98	0.40
1:I:312:TRP:HA	1:I:312:TRP:HE3	1.87	0.40
1:J:390:TYR:O	1:J:391:ILE:C	2.64	0.40
1:M:35:TYR:CZ	1:M:457:ALA:HB2	2.56	0.40
1:M:96:GLN:NE2	1:M:382:THR:CG2	2.84	0.40
1:M:115:VAL:N	1:N:255:MET:CE	2.73	0.40
1:M:246:LEU:HD23	1:M:246:LEU:N	2.36	0.40
1:N:46:GLY:O	1:N:365:ARG:HD3	2.22	0.40
1:N:123:LEU:HD23	1:N:147:ILE:HB	2.03	0.40
1:N:217:LYS:O	1:N:218:SER:HB3	2.21	0.40
1:O:85:PHE:CE1	1:O:98:LEU:HD13	2.57	0.40
1:O:99:VAL:HG21	1:O:325:TRP:CZ3	2.56	0.40
1:O:107:VAL:HB	1:O:307:PHE:HD2	1.86	0.40
1:O:222:LEU:HA	1:O:225:CYS:SG	2.61	0.40
1:A:60:ILE:O	1:A:60:ILE:CG1	2.69	0.40
1:A:121:PRO:HG2	1:B:289:SER:HB2	2.03	0.40
1:B:188:LEU:HD13	1:B:188:LEU:HA	1.69	0.40
1:C:152:LYS:NZ	1:C:253:GLU:OE1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:159:ILE:HG21	1:C:159:ILE:HD13	1.80	0.40
1:C:300:VAL:HG22	1:C:300:VAL:H	1.42	0.40
1:C:315:ARG:O	1:C:316:ALA:HB2	2.21	0.40
1:C:354:THR:HG22	1:E:278:LYS:CB	2.50	0.40
1:D:277:ILE:HD13	1:D:277:ILE:HG21	1.77	0.40
1:E:80:PRO:HD3	1:E:327:ASN:OD1	2.21	0.40
1:E:149:MET:HE3	1:E:294:THR:CG2	2.11	0.40
1:E:196:GLN:HB3	1:E:445:THR:O	2.21	0.40
1:F:66:SER:OG	1:F:68:LEU:N	2.54	0.40
1:F:185:CYS:HB2	1:J:363:TYR:CD2	2.56	0.40
1:F:389:THR:O	1:F:392:HIS:HB3	2.22	0.40
1:G:80:PRO:HB2	1:G:98:LEU:CB	2.52	0.40
1:G:92:ASN:HA	1:G:93:PRO:HD2	1.68	0.40
1:G:160:GLY:HA3	1:G:245:SER:O	2.21	0.40
1:G:312:TRP:HA	1:G:312:TRP:HE3	1.85	0.40
1:H:272:PRO:HD2	1:H:275:LEU:HD11	2.02	0.40
1:I:152:LYS:HB3	1:I:255:MET:CB	2.49	0.40
1:I:246:LEU:HD23	1:I:246:LEU:O	2.21	0.40
1:J:80:PRO:O	1:J:85:PHE:HE1	2.05	0.40
1:J:147:ILE:HG22	1:J:148:SER:H	1.85	0.40
1:J:372:LEU:HD23	1:J:372:LEU:HA	1.76	0.40
1:K:66:SER:C	1:K:68:LEU:N	2.78	0.40
1:K:91:TYR:HD1	1:K:96:GLN:HG3	1.86	0.40
1:K:142:ASP:CG	1:L:283:THR:OG1	2.64	0.40
1:K:246:LEU:HD23	1:K:246:LEU:C	2.45	0.40
1:L:106:GLU:HG3	1:L:310:PRO:HA	2.03	0.40
1:L:109:ARG:NH1	1:L:370:TYR:CE1	2.89	0.40
1:L:263:ARG:NE	1:L:292:PHE:CD2	2.89	0.40
1:M:98:LEU:HD13	1:M:378:LEU:CD2	2.35	0.40
1:M:125:LYS:NZ	1:N:132:ALA:O	2.48	0.40
1:M:214:GLN:HE22	1:M:219:GLU:HB2	1.86	0.40
1:M:259:HIS:CE1	1:N:130:GLU:HG2	2.57	0.40
1:M:316:ALA:C	1:M:318:GLY:H	2.29	0.40
1:M:384:THR:H	1:M:387:VAL:HB	1.87	0.40
1:N:271:VAL:HA	1:N:272:PRO:HD3	1.88	0.40
1:N:451:LEU:HD22	1:N:454:LYS:HB2	2.04	0.40
1:O:307:PHE:CD1	1:O:307:PHE:N	2.89	0.40

All (47) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:177:GLN:OE1	1:M:87:ASP:N[3_645]	1.49	0.71
1:E:177:GLN:OE1	1:M:86:PRO:C[3_645]	1.62	0.58
1:I:177:GLN:CG	1:J:95:THR:C[3_645]	1.66	0.54
1:D:175:CYS:O	1:N:88:THR:CG2[3_545]	1.72	0.48
1:D:177:GLN:N	1:N:88:THR:CA[3_545]	1.73	0.47
1:I:177:GLN:CG	1:J:95:THR:O[3_645]	1.80	0.40
1:I:177:GLN:CG	1:J:96:GLN:N[3_645]	1.81	0.39
1:E:177:GLN:OE1	1:M:86:PRO:CA[3_645]	1.82	0.38
1:E:177:GLN:OE1	1:M:86:PRO:N[3_645]	1.82	0.38
1:I:177:GLN:CA	1:J:96:GLN:N[3_645]	1.82	0.38
1:D:177:GLN:CA	1:N:88:THR:O[3_545]	1.84	0.36
1:I:177:GLN:N	1:J:92:ASN:O[3_645]	1.86	0.34
1:I:177:GLN:O	1:J:92:ASN:O[3_645]	1.87	0.33
1:I:178:VAL:CA	1:J:92:ASN:ND2[3_645]	1.92	0.28
1:E:177:GLN:CD	1:M:87:ASP:N[3_645]	1.93	0.27
1:I:177:GLN:O	1:J:94:ASP:N[3_645]	1.97	0.23
1:I:178:VAL:O	1:J:94:ASP:N[3_645]	1.99	0.21
1:F:384:THR:N	1:H:176:THR:O[3_555]	2.02	0.18
1:I:176:THR:O	1:J:96:GLN:C[3_645]	2.02	0.18
1:I:177:GLN:CG	1:J:96:GLN:CA[3_645]	2.03	0.17
1:I:176:THR:O	1:J:96:GLN:CG[3_645]	2.05	0.15
1:I:176:THR:OG1	1:J:98:LEU:CG[3_645]	2.05	0.15
1:I:177:GLN:N	1:J:96:GLN:O[3_645]	2.05	0.15
1:I:177:GLN:C	1:J:92:ASN:O[3_645]	2.05	0.15
1:I:175:CYS:CA	1:J:97:ARG:NE[3_645]	2.07	0.13
1:I:176:THR:O	1:J:96:GLN:CB[3_645]	2.07	0.13
1:I:177:GLN:CB	1:J:96:GLN:O[3_645]	2.07	0.13
1:D:176:THR:CG2	1:N:87:ASP:O[3_545]	2.08	0.12
1:F:384:THR:O	1:H:176:THR:O[3_555]	2.09	0.11
1:D:177:GLN:N	1:N:88:THR:CB[3_545]	2.10	0.10
1:I:176:THR:C	1:J:96:GLN:C[3_645]	2.10	0.10
1:D:176:THR:OG1	1:N:87:ASP:N[3_545]	2.11	0.09
1:D:177:GLN:CA	1:N:88:THR:C[3_545]	2.11	0.09
1:F:385:ALA:O	1:H:177:GLN:NE2[3_555]	2.11	0.09
1:I:178:VAL:N	1:J:95:THR:N[3_645]	2.11	0.09
1:D:177:GLN:N	1:N:88:THR:CG2[3_545]	2.12	0.08
1:F:383:LEU:C	1:H:177:GLN:N[3_555]	2.12	0.08
1:D:176:THR:CA	1:N:87:ASP:O[3_545]	2.13	0.07
1:I:176:THR:C	1:J:96:GLN:O[3_645]	2.14	0.06
1:I:177:GLN:CB	1:J:95:THR:C[3_645]	2.15	0.05
1:I:177:GLN:OE1	1:J:383:LEU:CD1[3_645]	2.16	0.04
1:I:177:GLN:CB	1:J:96:GLN:N[3_645]	2.16	0.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:174:PRO:O	1:J:97:ARG:NH2[3_645]	2.17	0.03
1:I:179:ALA:N	1:J:92:ASN:CA[3_645]	2.17	0.03
1:D:176:THR:OG1	1:N:85:PHE:C[3_545]	2.19	0.01
1:D:177:GLN:O	1:N:88:THR:CB[3_545]	2.19	0.01
1:F:384:THR:N	1:H:176:THR:C[3_555]	2.19	0.01

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	415/424 (98%)	316 (76%)	69 (17%)	30 (7%)	1	12
1	B	415/424 (98%)	327 (79%)	64 (15%)	24 (6%)	1	15
1	C	415/424 (98%)	322 (78%)	63 (15%)	30 (7%)	1	12
1	D	415/424 (98%)	309 (74%)	76 (18%)	30 (7%)	1	12
1	E	415/424 (98%)	321 (77%)	66 (16%)	28 (7%)	1	13
1	F	415/424 (98%)	325 (78%)	63 (15%)	27 (6%)	1	14
1	G	415/424 (98%)	310 (75%)	71 (17%)	34 (8%)	0	9
1	H	415/424 (98%)	322 (78%)	59 (14%)	34 (8%)	0	9
1	I	415/424 (98%)	321 (77%)	64 (15%)	30 (7%)	1	12
1	J	415/424 (98%)	316 (76%)	65 (16%)	34 (8%)	0	9
1	K	415/424 (98%)	322 (78%)	66 (16%)	27 (6%)	1	14
1	L	415/424 (98%)	321 (77%)	67 (16%)	27 (6%)	1	14
1	M	415/424 (98%)	319 (77%)	72 (17%)	24 (6%)	1	15
1	N	415/424 (98%)	319 (77%)	67 (16%)	29 (7%)	1	12
1	O	415/424 (98%)	325 (78%)	59 (14%)	31 (8%)	1	11
All	All	6225/6360 (98%)	4795 (77%)	991 (16%)	439 (7%)	1	12

All (439) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	140	GLY
1	A	174	PRO
1	A	180	VAL
1	A	299	MET
1	A	303	ASP
1	A	458	ASP
1	B	140	GLY
1	B	173	SER
1	B	174	PRO
1	B	185	CYS
1	B	218	SER
1	B	352	GLU
1	C	140	GLY
1	C	151	TYR
1	C	173	SER
1	C	174	PRO
1	C	178	VAL
1	C	180	VAL
1	C	303	ASP
1	C	352	GLU
1	C	391	ILE
1	D	144	ARG
1	D	174	PRO
1	D	180	VAL
1	D	218	SER
1	D	337	THR
1	D	351	SER
1	E	140	GLY
1	E	173	SER
1	E	174	PRO
1	E	180	VAL
1	E	184	ASP
1	E	185	CYS
1	E	303	ASP
1	F	93	PRO
1	F	140	GLY
1	F	173	SER
1	F	174	PRO
1	F	176	THR
1	F	180	VAL
1	G	81	ASN
1	G	140	GLY
1	G	144	ARG

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Mol	Chain	Res	Type
1	G	173	SER
1	G	174	PRO
1	G	178	VAL
1	G	180	VAL
1	G	352	GLU
1	G	391	ILE
1	H	138	ASN
1	H	140	GLY
1	H	144	ARG
1	H	174	PRO
1	H	178	VAL
1	H	179	ALA
1	H	180	VAL
1	I	140	GLY
1	I	173	SER
1	I	174	PRO
1	I	176	THR
1	I	179	ALA
1	I	180	VAL
1	I	184	ASP
1	I	235	ILE
1	I	303	ASP
1	J	81	ASN
1	J	138	ASN
1	J	174	PRO
1	J	179	ALA
1	J	180	VAL
1	J	184	ASP
1	J	185	CYS
1	J	241	PRO
1	J	242	TYR
1	J	351	SER
1	K	124	ASN
1	K	140	GLY
1	K	144	ARG
1	K	173	SER
1	K	174	PRO
1	K	180	VAL
1	K	218	SER
1	L	124	ASN
1	L	140	GLY
1	L	173	SER

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Mol	Chain	Res	Type
1	L	174	PRO
1	L	179	ALA
1	L	180	VAL
1	L	225	CYS
1	M	138	ASN
1	M	140	GLY
1	M	173	SER
1	M	174	PRO
1	M	180	VAL
1	M	184	ASP
1	M	221	PRO
1	M	303	ASP
1	M	466	ARG
1	N	140	GLY
1	N	173	SER
1	N	174	PRO
1	N	180	VAL
1	N	201	VAL
1	N	218	SER
1	N	303	ASP
1	N	391	ILE
1	N	466	ARG
1	O	140	GLY
1	O	151	TYR
1	O	173	SER
1	O	174	PRO
1	O	178	VAL
1	O	180	VAL
1	O	218	SER
1	O	324	CYS
1	O	352	GLU
1	A	144	ARG
1	A	178	VAL
1	A	184	ASP
1	A	218	SER
1	A	245	SER
1	B	178	VAL
1	B	180	VAL
1	B	184	ASP
1	B	221	PRO
1	B	235	ILE
1	B	241	PRO

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Mol	Chain	Res	Type
1	B	303	ASP
1	C	131	ASN
1	C	138	ASN
1	C	184	ASP
1	C	245	SER
1	C	278	LYS
1	C	316	ALA
1	C	357	ASN
1	D	140	GLY
1	D	151	TYR
1	D	177	GLN
1	D	179	ALA
1	D	245	SER
1	D	278	LYS
1	D	303	ASP
1	D	305	GLN
1	D	352	GLU
1	D	466	ARG
1	E	151	TYR
1	E	221	PRO
1	E	225	CYS
1	E	357	ASN
1	F	41	ARG
1	F	144	ARG
1	F	178	VAL
1	F	182	PRO
1	F	218	SER
1	F	245	SER
1	F	352	GLU
1	G	138	ASN
1	G	168	HIS
1	G	179	ALA
1	G	184	ASP
1	G	218	SER
1	G	221	PRO
1	G	241	PRO
1	G	242	TYR
1	G	298	SER
1	G	303	ASP
1	G	316	ALA
1	H	25	ASP
1	H	151	TYR

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Mol	Chain	Res	Type
1	H	221	PRO
1	H	235	ILE
1	H	245	SER
1	H	351	SER
1	H	391	ILE
1	H	458	ASP
1	H	460	ASP
1	H	466	ARG
1	I	41	ARG
1	I	84	GLY
1	I	201	VAL
1	I	234	TYR
1	J	41	ARG
1	J	140	GLY
1	J	151	TYR
1	J	177	GLN
1	J	216	ASN
1	J	225	CYS
1	J	245	SER
1	J	293	PRO
1	J	299	MET
1	J	316	ALA
1	J	352	GLU
1	J	466	ARG
1	K	84	GLY
1	K	178	VAL
1	K	184	ASP
1	K	216	ASN
1	K	221	PRO
1	K	282	SER
1	K	352	GLU
1	K	460	ASP
1	L	178	VAL
1	L	218	SER
1	L	278	LYS
1	L	303	ASP
1	M	57	ASN
1	M	90	PHE
1	M	178	VAL
1	M	218	SER
1	M	293	PRO
1	N	41	ARG

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Mol	Chain	Res	Type
1	N	93	PRO
1	N	124	ASN
1	N	138	ASN
1	N	179	ALA
1	N	216	ASN
1	N	349	SER
1	N	352	GLU
1	O	41	ARG
1	O	81	ASN
1	O	82	LYS
1	O	124	ASN
1	O	179	ALA
1	O	184	ASP
1	O	391	ILE
1	A	93	PRO
1	A	124	ASN
1	A	141	VAL
1	A	185	CYS
1	A	221	PRO
1	A	239	SER
1	A	241	PRO
1	A	293	PRO
1	A	351	SER
1	A	466	ARG
1	B	242	TYR
1	C	93	PRO
1	C	218	SER
1	C	221	PRO
1	C	234	TYR
1	C	235	ILE
1	D	235	ILE
1	D	391	ILE
1	D	400	GLU
1	D	401	ASP
1	E	138	ASN
1	E	177	GLN
1	E	218	SER
1	E	273	ASP
1	E	466	ARG
1	F	23	SER
1	F	184	ASP
1	F	199	ASP

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Mol	Chain	Res	Type
1	F	221	PRO
1	F	293	PRO
1	G	41	ARG
1	G	182	PRO
1	H	41	ARG
1	H	173	SER
1	H	182	PRO
1	H	216	ASN
1	H	278	LYS
1	H	293	PRO
1	H	352	GLU
1	H	400	GLU
1	H	447	TRP
1	I	124	ASN
1	I	168	HIS
1	I	178	VAL
1	I	182	PRO
1	I	241	PRO
1	I	293	PRO
1	I	298	SER
1	I	351	SER
1	J	131	ASN
1	J	221	PRO
1	J	222	LEU
1	K	182	PRO
1	K	281	GLY
1	K	324	CYS
1	K	351	SER
1	L	41	ARG
1	L	184	ASP
1	L	221	PRO
1	L	288	SER
1	L	298	SER
1	M	185	CYS
1	M	299	MET
1	M	340	THR
1	M	391	ILE
1	N	26	GLU
1	N	144	ARG
1	N	176	THR
1	N	182	PRO
1	N	221	PRO

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Mol	Chain	Res	Type
1	N	241	PRO
1	N	390	TYR
1	O	303	ASP
1	O	322	GLY
1	O	470	LEU
1	A	41	ARG
1	A	139	ALA
1	A	142	ASP
1	A	201	VAL
1	A	249	TYR
1	B	337	THR
1	B	357	ASN
1	C	182	PRO
1	C	340	THR
1	D	26	GLU
1	D	93	PRO
1	D	182	PRO
1	E	179	ALA
1	E	245	SER
1	F	25	ASP
1	F	63	PRO
1	F	299	MET
1	F	349	SER
1	G	211	THR
1	G	293	PRO
1	G	325	TRP
1	G	351	SER
1	H	93	PRO
1	H	176	THR
1	I	185	CYS
1	I	316	ALA
1	I	352	GLU
1	I	397	THR
1	J	173	SER
1	J	398	ILE
1	K	41	ARG
1	K	138	ASN
1	K	293	PRO
1	K	316	ALA
1	L	93	PRO
1	L	177	GLN
1	L	185	CYS

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Mol	Chain	Res	Type
1	L	352	GLU
1	L	357	ASN
1	M	144	ARG
1	M	239	SER
1	M	241	PRO
1	M	400	GLU
1	N	184	ASP
1	N	235	ILE
1	N	468	PHE
1	O	63	PRO
1	O	138	ASN
1	O	245	SER
1	A	182	PRO
1	B	63	PRO
1	B	124	ASN
1	B	138	ASN
1	C	26	GLU
1	C	185	CYS
1	C	208	MET
1	C	293	PRO
1	D	168	HIS
1	D	173	SER
1	E	86	PRO
1	E	233	ASP
1	E	293	PRO
1	E	458	ASP
1	F	185	CYS
1	F	208	MET
1	F	303	ASP
1	G	63	PRO
1	G	82	LYS
1	H	218	SER
1	H	276	TYR
1	H	303	ASP
1	I	151	TYR
1	I	221	PRO
1	I	288	SER
1	J	303	ASP
1	K	185	CYS
1	K	241	PRO
1	L	241	PRO
1	M	235	ILE

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Mol	Chain	Res	Type
1	M	316	ALA
1	N	398	ILE
1	O	93	PRO
1	O	235	ILE
1	O	293	PRO
1	A	173	SER
1	A	357	ASN
1	B	81	ASN
1	B	245	SER
1	B	387	VAL
1	C	323	ILE
1	C	351	SER
1	E	182	PRO
1	E	322	GLY
1	F	357	ASN
1	G	93	PRO
1	G	151	TYR
1	G	387	VAL
1	H	63	PRO
1	H	390	TYR
1	I	93	PRO
1	J	201	VAL
1	J	458	ASP
1	L	142	ASP
1	L	243	GLY
1	L	391	ILE
1	O	185	CYS
1	O	388	MET
1	C	63	PRO
1	E	178	VAL
1	F	267	VAL
1	J	45	VAL
1	J	281	GLY
1	K	93	PRO
1	L	267	VAL
1	L	322	GLY
1	O	387	VAL
1	E	93	PRO
1	G	297	GLY
1	I	297	GLY
1	O	201	VAL
1	A	281	GLY

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Mol	Chain	Res	Type
1	B	281	GLY
1	E	235	ILE
1	G	185	CYS
1	G	398	ILE
1	H	241	PRO
1	D	84	GLY
1	D	107	VAL
1	D	221	PRO
1	E	241	PRO
1	J	195	ILE
1	N	178	VAL
1	B	293	PRO
1	D	63	PRO
1	D	86	PRO
1	J	182	PRO
1	K	235	ILE
1	O	182	PRO
1	O	241	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	367/368 (100%)	297 (81%)	70 (19%)	1	10
1	B	367/368 (100%)	292 (80%)	75 (20%)	1	8
1	C	367/368 (100%)	296 (81%)	71 (19%)	1	9
1	D	367/368 (100%)	302 (82%)	65 (18%)	2	12
1	E	367/368 (100%)	297 (81%)	70 (19%)	1	10
1	F	367/368 (100%)	296 (81%)	71 (19%)	1	9
1	G	367/368 (100%)	306 (83%)	61 (17%)	2	14
1	H	367/368 (100%)	298 (81%)	69 (19%)	1	10
1	I	367/368 (100%)	305 (83%)	62 (17%)	2	13
1	J	367/368 (100%)	308 (84%)	59 (16%)	2	14

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	K	367/368 (100%)	296 (81%)	71 (19%)	1	9
1	L	367/368 (100%)	300 (82%)	67 (18%)	2	11
1	M	367/368 (100%)	298 (81%)	69 (19%)	1	10
1	N	367/368 (100%)	295 (80%)	72 (20%)	1	9
1	O	367/368 (100%)	309 (84%)	58 (16%)	2	15
All	All	5505/5520 (100%)	4495 (82%)	1010 (18%)	2	11

All (1010) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	32	ASN
1	A	43	LEU
1	A	52	ILE
1	A	54	LYS
1	A	58	ASN
1	A	61	LEU
1	A	63	PRO
1	A	64	LYS
1	A	66	SER
1	A	91	TYR
1	A	95	THR
1	A	97	ARG
1	A	122	LEU
1	A	129	THR
1	A	145	GLU
1	A	149	MET
1	A	156	LEU
1	A	173	SER
1	A	176	THR
1	A	180	VAL
1	A	182	PRO
1	A	184	ASP
1	A	187	PRO
1	A	188	LEU
1	A	190	LEU
1	A	193	THR
1	A	197	ASP
1	A	219	GLU
1	A	220	VAL
1	A	222	LEU

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Mol	Chain	Res	Type
1	A	224	ILE
1	A	228	ILE
1	A	229	CYS
1	A	246	LEU
1	A	247	PHE
1	A	250	LEU
1	A	252	ARG
1	A	255	MET
1	A	257	VAL
1	A	258	ARG
1	A	272	PRO
1	A	274	ASP
1	A	277	ILE
1	A	280	SER
1	A	282	SER
1	A	283	THR
1	A	286	LEU
1	A	291	TYR
1	A	295	PRO
1	A	296	SER
1	A	308	ASN
1	A	315	ARG
1	A	317	GLN
1	A	323	ILE
1	A	329	LEU
1	A	332	THR
1	A	337	THR
1	A	341	ASN
1	A	344	LEU
1	A	352	GLU
1	A	353	THR
1	A	368	GLU
1	A	388	MET
1	A	391	ILE
1	A	402	TRP
1	A	442	LYS
1	A	443	LYS
1	A	464	LEU
1	A	470	LEU
1	A	472	LEU
1	B	23	SER
1	B	31	THR

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Mol	Chain	Res	Type
1	B	32	ASN
1	B	36	HIS
1	B	52	ILE
1	B	54	LYS
1	B	56	ASN
1	B	57	ASN
1	B	66	SER
1	B	69	GLN
1	B	72	VAL
1	B	91	TYR
1	B	95	THR
1	B	97	ARG
1	B	113	LEU
1	B	122	LEU
1	B	127	ASP
1	B	141	VAL
1	B	145	GLU
1	B	149	MET
1	B	150	ASP
1	B	153	GLN
1	B	167	GLU
1	B	174	PRO
1	B	178	VAL
1	B	180	VAL
1	B	182	PRO
1	B	184	ASP
1	B	187	PRO
1	B	188	LEU
1	B	193	THR
1	B	197	ASP
1	B	218	SER
1	B	222	LEU
1	B	224	ILE
1	B	244	ASP
1	B	246	LEU
1	B	247	PHE
1	B	250	LEU
1	B	252	ARG
1	B	255	MET
1	B	257	VAL
1	B	273	ASP
1	B	274	ASP

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Mol	Chain	Res	Type
1	B	277	ILE
1	B	282	SER
1	B	288	SER
1	B	292	PHE
1	B	293	PRO
1	B	294	THR
1	B	295	PRO
1	B	301	THR
1	B	308	ASN
1	B	315	ARG
1	B	317	GLN
1	B	329	LEU
1	B	332	THR
1	B	339	SER
1	B	341	ASN
1	B	342	MET
1	B	343	SER
1	B	344	LEU
1	B	352	GLU
1	B	353	THR
1	B	357	ASN
1	B	358	THR
1	B	386	ASP
1	B	388	MET
1	B	402	TRP
1	B	442	LYS
1	B	443	LYS
1	B	445	THR
1	B	464	LEU
1	B	470	LEU
1	B	472	LEU
1	C	23	SER
1	C	31	THR
1	C	32	ASN
1	C	43	LEU
1	C	51	PRO
1	C	54	LYS
1	C	57	ASN
1	C	61	LEU
1	C	63	PRO
1	C	66	SER
1	C	69	GLN

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Mol	Chain	Res	Type
1	C	71	ARG
1	C	91	TYR
1	C	95	THR
1	C	97	ARG
1	C	129	THR
1	C	145	GLU
1	C	148	SER
1	C	149	MET
1	C	153	GLN
1	C	157	CYS
1	C	165	ILE
1	C	175	CYS
1	C	177	GLN
1	C	180	VAL
1	C	184	ASP
1	C	187	PRO
1	C	188	LEU
1	C	190	LEU
1	C	193	THR
1	C	212	THR
1	C	213	LEU
1	C	219	GLU
1	C	220	VAL
1	C	223	ASP
1	C	224	ILE
1	C	225	CYS
1	C	228	ILE
1	C	230	LYS
1	C	236	LYS
1	C	244	ASP
1	C	250	LEU
1	C	255	MET
1	C	258	ARG
1	C	274	ASP
1	C	280	SER
1	C	282	SER
1	C	292	PHE
1	C	293	PRO
1	C	294	THR
1	C	302	SER
1	C	315	ARG
1	C	317	GLN

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Mol	Chain	Res	Type
1	C	323	ILE
1	C	329	LEU
1	C	332	THR
1	C	336	THR
1	C	338	ARG
1	C	340	THR
1	C	341	ASN
1	C	344	LEU
1	C	352	GLU
1	C	353	THR
1	C	374	PHE
1	C	442	LYS
1	C	443	LYS
1	C	449	VAL
1	C	459	LEU
1	C	464	LEU
1	C	470	LEU
1	C	472	LEU
1	D	23	SER
1	D	32	ASN
1	D	52	ILE
1	D	53	LYS
1	D	54	LYS
1	D	56	ASN
1	D	68	LEU
1	D	71	ARG
1	D	91	TYR
1	D	97	ARG
1	D	98	LEU
1	D	103	VAL
1	D	129	THR
1	D	145	GLU
1	D	149	MET
1	D	154	THR
1	D	155	GLN
1	D	163	PRO
1	D	175	CYS
1	D	177	GLN
1	D	180	VAL
1	D	182	PRO
1	D	184	ASP
1	D	187	PRO

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Mol	Chain	Res	Type
1	D	188	LEU
1	D	193	THR
1	D	213	LEU
1	D	219	GLU
1	D	224	ILE
1	D	227	SER
1	D	228	ILE
1	D	246	LEU
1	D	247	PHE
1	D	250	LEU
1	D	252	ARG
1	D	255	MET
1	D	257	VAL
1	D	273	ASP
1	D	274	ASP
1	D	282	SER
1	D	292	PHE
1	D	295	PRO
1	D	308	ASN
1	D	315	ARG
1	D	317	GLN
1	D	329	LEU
1	D	332	THR
1	D	336	THR
1	D	338	ARG
1	D	341	ASN
1	D	342	MET
1	D	344	LEU
1	D	352	GLU
1	D	353	THR
1	D	358	THR
1	D	361	LYS
1	D	365	ARG
1	D	372	LEU
1	D	384	THR
1	D	402	TRP
1	D	443	LYS
1	D	459	LEU
1	D	460	ASP
1	D	464	LEU
1	D	470	LEU
1	E	23	SER

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Mol	Chain	Res	Type
1	E	32	ASN
1	E	43	LEU
1	E	49	TYR
1	E	54	LYS
1	E	57	ASN
1	E	66	SER
1	E	71	ARG
1	E	91	TYR
1	E	97	ARG
1	E	117	ILE
1	E	122	LEU
1	E	127	ASP
1	E	129	THR
1	E	145	GLU
1	E	149	MET
1	E	153	GLN
1	E	154	THR
1	E	163	PRO
1	E	167	GLU
1	E	174	PRO
1	E	175	CYS
1	E	178	VAL
1	E	180	VAL
1	E	182	PRO
1	E	184	ASP
1	E	187	PRO
1	E	188	LEU
1	E	193	THR
1	E	197	ASP
1	E	212	THR
1	E	217	LYS
1	E	219	GLU
1	E	222	LEU
1	E	224	ILE
1	E	227	SER
1	E	229	CYS
1	E	239	SER
1	E	247	PHE
1	E	250	LEU
1	E	252	ARG
1	E	255	MET
1	E	257	VAL

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Mol	Chain	Res	Type
1	E	270	ASN
1	E	273	ASP
1	E	277	ILE
1	E	280	SER
1	E	294	THR
1	E	295	PRO
1	E	301	THR
1	E	308	ASN
1	E	315	ARG
1	E	317	GLN
1	E	329	LEU
1	E	332	THR
1	E	336	THR
1	E	337	THR
1	E	341	ASN
1	E	345	CYS
1	E	352	GLU
1	E	358	THR
1	E	368	GLU
1	E	386	ASP
1	E	443	LYS
1	E	445	THR
1	E	449	VAL
1	E	460	ASP
1	E	464	LEU
1	E	470	LEU
1	E	472	LEU
1	F	31	THR
1	F	32	ASN
1	F	54	LYS
1	F	58	ASN
1	F	59	LYS
1	F	61	LEU
1	F	66	SER
1	F	69	GLN
1	F	71	ARG
1	F	72	VAL
1	F	91	TYR
1	F	97	ARG
1	F	117	ILE
1	F	122	LEU
1	F	127	ASP

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Mol	Chain	Res	Type
1	F	129	THR
1	F	145	GLU
1	F	148	SER
1	F	149	MET
1	F	153	GLN
1	F	154	THR
1	F	167	GLU
1	F	171	LYS
1	F	173	SER
1	F	174	PRO
1	F	175	CYS
1	F	176	THR
1	F	180	VAL
1	F	182	PRO
1	F	184	ASP
1	F	187	PRO
1	F	188	LEU
1	F	193	THR
1	F	222	LEU
1	F	224	ILE
1	F	225	CYS
1	F	227	SER
1	F	229	CYS
1	F	246	LEU
1	F	247	PHE
1	F	250	LEU
1	F	252	ARG
1	F	255	MET
1	F	257	VAL
1	F	260	LEU
1	F	274	ASP
1	F	277	ILE
1	F	294	THR
1	F	305	GLN
1	F	310	PRO
1	F	315	ARG
1	F	317	GLN
1	F	320	ASN
1	F	323	ILE
1	F	329	LEU
1	F	332	THR
1	F	336	THR

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Mol	Chain	Res	Type
1	F	341	ASN
1	F	343	SER
1	F	344	LEU
1	F	353	THR
1	F	358	THR
1	F	365	ARG
1	F	384	THR
1	F	386	ASP
1	F	388	MET
1	F	396	SER
1	F	443	LYS
1	F	464	LEU
1	F	470	LEU
1	F	472	LEU
1	G	23	SER
1	G	32	ASN
1	G	52	ILE
1	G	54	LYS
1	G	57	ASN
1	G	61	LEU
1	G	66	SER
1	G	71	ARG
1	G	77	LEU
1	G	91	TYR
1	G	97	ARG
1	G	117	ILE
1	G	122	LEU
1	G	123	LEU
1	G	129	THR
1	G	145	GLU
1	G	149	MET
1	G	153	GLN
1	G	180	VAL
1	G	184	ASP
1	G	187	PRO
1	G	188	LEU
1	G	193	THR
1	G	219	GLU
1	G	223	ASP
1	G	224	ILE
1	G	225	CYS
1	G	228	ILE

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Mol	Chain	Res	Type
1	G	229	CYS
1	G	247	PHE
1	G	250	LEU
1	G	252	ARG
1	G	255	MET
1	G	270	ASN
1	G	272	PRO
1	G	274	ASP
1	G	277	ILE
1	G	280	SER
1	G	282	SER
1	G	286	LEU
1	G	292	PHE
1	G	293	PRO
1	G	315	ARG
1	G	317	GLN
1	G	323	ILE
1	G	329	LEU
1	G	332	THR
1	G	341	ASN
1	G	343	SER
1	G	344	LEU
1	G	348	ILE
1	G	352	GLU
1	G	353	THR
1	G	357	ASN
1	G	391	ILE
1	G	442	LYS
1	G	443	LYS
1	G	461	GLN
1	G	463	PRO
1	G	464	LEU
1	G	472	LEU
1	H	31	THR
1	H	32	ASN
1	H	54	LYS
1	H	56	ASN
1	H	59	LYS
1	H	66	SER
1	H	68	LEU
1	H	71	ARG
1	H	91	TYR

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Mol	Chain	Res	Type
1	H	97	ARG
1	H	112	PRO
1	H	117	ILE
1	H	129	THR
1	H	145	GLU
1	H	147	ILE
1	H	149	MET
1	H	153	GLN
1	H	174	PRO
1	H	175	CYS
1	H	180	VAL
1	H	182	PRO
1	H	184	ASP
1	H	186	PRO
1	H	187	PRO
1	H	188	LEU
1	H	191	ILE
1	H	193	THR
1	H	218	SER
1	H	222	LEU
1	H	224	ILE
1	H	227	SER
1	H	228	ILE
1	H	232	PRO
1	H	246	LEU
1	H	247	PHE
1	H	250	LEU
1	H	252	ARG
1	H	255	MET
1	H	257	VAL
1	H	258	ARG
1	H	274	ASP
1	H	293	PRO
1	H	294	THR
1	H	300	VAL
1	H	308	ASN
1	H	310	PRO
1	H	315	ARG
1	H	317	GLN
1	H	320	ASN
1	H	323	ILE
1	H	329	LEU

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Mol	Chain	Res	Type
1	H	332	THR
1	H	336	THR
1	H	341	ASN
1	H	344	LEU
1	H	352	GLU
1	H	353	THR
1	H	357	ASN
1	H	358	THR
1	H	380	LYS
1	H	384	THR
1	H	396	SER
1	H	399	LEU
1	H	402	TRP
1	H	443	LYS
1	H	449	VAL
1	H	460	ASP
1	H	469	LEU
1	H	470	LEU
1	I	21	VAL
1	I	31	THR
1	I	32	ASN
1	I	43	LEU
1	I	54	LYS
1	I	57	ASN
1	I	66	SER
1	I	71	ARG
1	I	72	VAL
1	I	75	ILE
1	I	77	LEU
1	I	91	TYR
1	I	97	ARG
1	I	117	ILE
1	I	135	TYR
1	I	145	GLU
1	I	146	CYS
1	I	148	SER
1	I	149	MET
1	I	150	ASP
1	I	153	GLN
1	I	156	LEU
1	I	174	PRO
1	I	177	GLN

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Mol	Chain	Res	Type
1	I	180	VAL
1	I	184	ASP
1	I	188	LEU
1	I	218	SER
1	I	220	VAL
1	I	221	PRO
1	I	222	LEU
1	I	224	ILE
1	I	228	ILE
1	I	244	ASP
1	I	247	PHE
1	I	250	LEU
1	I	252	ARG
1	I	256	PHE
1	I	257	VAL
1	I	260	LEU
1	I	274	ASP
1	I	277	ILE
1	I	295	PRO
1	I	308	ASN
1	I	315	ARG
1	I	317	GLN
1	I	323	ILE
1	I	329	LEU
1	I	332	THR
1	I	337	THR
1	I	341	ASN
1	I	344	LEU
1	I	345	CYS
1	I	352	GLU
1	I	353	THR
1	I	357	ASN
1	I	358	THR
1	I	384	THR
1	I	391	ILE
1	I	443	LYS
1	I	464	LEU
1	I	470	LEU
1	J	32	ASN
1	J	54	LYS
1	J	57	ASN
1	J	61	LEU

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Mol	Chain	Res	Type
1	J	66	SER
1	J	71	ARG
1	J	94	ASP
1	J	97	ARG
1	J	117	ILE
1	J	129	THR
1	J	145	GLU
1	J	149	MET
1	J	153	GLN
1	J	156	LEU
1	J	163	PRO
1	J	173	SER
1	J	180	VAL
1	J	182	PRO
1	J	184	ASP
1	J	187	PRO
1	J	188	LEU
1	J	190	LEU
1	J	193	THR
1	J	195	ILE
1	J	197	ASP
1	J	219	GLU
1	J	222	LEU
1	J	224	ILE
1	J	225	CYS
1	J	228	ILE
1	J	236	LYS
1	J	244	ASP
1	J	246	LEU
1	J	247	PHE
1	J	250	LEU
1	J	252	ARG
1	J	253	GLU
1	J	255	MET
1	J	257	VAL
1	J	262	ASN
1	J	273	ASP
1	J	291	TYR
1	J	295	PRO
1	J	308	ASN
1	J	315	ARG
1	J	317	GLN

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Mol	Chain	Res	Type
1	J	329	LEU
1	J	332	THR
1	J	337	THR
1	J	341	ASN
1	J	344	LEU
1	J	345	CYS
1	J	353	THR
1	J	373	GLN
1	J	383	LEU
1	J	386	ASP
1	J	443	LYS
1	J	464	LEU
1	J	470	LEU
1	K	31	THR
1	K	32	ASN
1	K	41	ARG
1	K	54	LYS
1	K	57	ASN
1	K	66	SER
1	K	75	ILE
1	K	91	TYR
1	K	97	ARG
1	K	125	LYS
1	K	129	THR
1	K	145	GLU
1	K	149	MET
1	K	153	GLN
1	K	154	THR
1	K	180	VAL
1	K	182	PRO
1	K	184	ASP
1	K	187	PRO
1	K	188	LEU
1	K	190	LEU
1	K	193	THR
1	K	212	THR
1	K	213	LEU
1	K	219	GLU
1	K	222	LEU
1	K	224	ILE
1	K	227	SER
1	K	228	ILE

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Mol	Chain	Res	Type
1	K	232	PRO
1	K	240	GLU
1	K	245	SER
1	K	246	LEU
1	K	247	PHE
1	K	250	LEU
1	K	251	ARG
1	K	252	ARG
1	K	255	MET
1	K	257	VAL
1	K	258	ARG
1	K	274	ASP
1	K	283	THR
1	K	290	ASN
1	K	295	PRO
1	K	298	SER
1	K	306	ILE
1	K	315	ARG
1	K	317	GLN
1	K	323	ILE
1	K	329	LEU
1	K	330	PHE
1	K	332	THR
1	K	337	THR
1	K	338	ARG
1	K	341	ASN
1	K	344	LEU
1	K	352	GLU
1	K	357	ASN
1	K	358	THR
1	K	378	LEU
1	K	399	LEU
1	K	400	GLU
1	K	402	TRP
1	K	442	LYS
1	K	443	LYS
1	K	445	THR
1	K	449	VAL
1	K	456	SER
1	K	461	GLN
1	K	464	LEU
1	K	470	LEU

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Mol	Chain	Res	Type
1	L	23	SER
1	L	32	ASN
1	L	33	ILE
1	L	52	ILE
1	L	54	LYS
1	L	56	ASN
1	L	57	ASN
1	L	59	LYS
1	L	61	LEU
1	L	62	VAL
1	L	63	PRO
1	L	66	SER
1	L	69	GLN
1	L	71	ARG
1	L	72	VAL
1	L	91	TYR
1	L	95	THR
1	L	97	ARG
1	L	117	ILE
1	L	123	LEU
1	L	145	GLU
1	L	149	MET
1	L	153	GLN
1	L	154	THR
1	L	167	GLU
1	L	175	CYS
1	L	177	GLN
1	L	180	VAL
1	L	184	ASP
1	L	187	PRO
1	L	188	LEU
1	L	193	THR
1	L	222	LEU
1	L	228	ILE
1	L	229	CYS
1	L	247	PHE
1	L	250	LEU
1	L	252	ARG
1	L	255	MET
1	L	257	VAL
1	L	277	ILE
1	L	282	SER

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Mol	Chain	Res	Type
1	L	288	SER
1	L	291	TYR
1	L	292	PHE
1	L	293	PRO
1	L	306	ILE
1	L	310	PRO
1	L	315	ARG
1	L	317	GLN
1	L	323	ILE
1	L	329	LEU
1	L	332	THR
1	L	337	THR
1	L	341	ASN
1	L	345	CYS
1	L	349	SER
1	L	352	GLU
1	L	353	THR
1	L	357	ASN
1	L	372	LEU
1	L	384	THR
1	L	388	MET
1	L	443	LYS
1	L	464	LEU
1	L	469	LEU
1	L	472	LEU
1	M	31	THR
1	M	32	ASN
1	M	43	LEU
1	M	51	PRO
1	M	52	ILE
1	M	54	LYS
1	M	57	ASN
1	M	63	PRO
1	M	64	LYS
1	M	66	SER
1	M	71	ARG
1	M	91	TYR
1	M	97	ARG
1	M	117	ILE
1	M	129	THR
1	M	145	GLU
1	M	149	MET

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Mol	Chain	Res	Type
1	M	156	LEU
1	M	173	SER
1	M	175	CYS
1	M	176	THR
1	M	180	VAL
1	M	182	PRO
1	M	184	ASP
1	M	187	PRO
1	M	188	LEU
1	M	193	THR
1	M	219	GLU
1	M	222	LEU
1	M	223	ASP
1	M	224	ILE
1	M	244	ASP
1	M	247	PHE
1	M	250	LEU
1	M	253	GLU
1	M	254	GLN
1	M	255	MET
1	M	257	VAL
1	M	270	ASN
1	M	271	VAL
1	M	273	ASP
1	M	274	ASP
1	M	277	ILE
1	M	280	SER
1	M	286	LEU
1	M	293	PRO
1	M	308	ASN
1	M	313	LEU
1	M	315	ARG
1	M	317	GLN
1	M	323	ILE
1	M	329	LEU
1	M	332	THR
1	M	336	THR
1	M	337	THR
1	M	338	ARG
1	M	341	ASN
1	M	344	LEU
1	M	352	GLU

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Mol	Chain	Res	Type
1	M	353	THR
1	M	365	ARG
1	M	375	ILE
1	M	387	VAL
1	M	399	LEU
1	M	443	LYS
1	M	463	PRO
1	M	464	LEU
1	M	470	LEU
1	M	472	LEU
1	N	31	THR
1	N	32	ASN
1	N	43	LEU
1	N	52	ILE
1	N	54	LYS
1	N	57	ASN
1	N	66	SER
1	N	71	ARG
1	N	87	ASP
1	N	88	THR
1	N	91	TYR
1	N	97	ARG
1	N	115	VAL
1	N	122	LEU
1	N	129	THR
1	N	145	GLU
1	N	149	MET
1	N	153	GLN
1	N	154	THR
1	N	161	CYS
1	N	173	SER
1	N	174	PRO
1	N	175	CYS
1	N	176	THR
1	N	180	VAL
1	N	182	PRO
1	N	184	ASP
1	N	188	LEU
1	N	193	THR
1	N	195	ILE
1	N	213	LEU
1	N	222	LEU

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Mol	Chain	Res	Type
1	N	224	ILE
1	N	225	CYS
1	N	227	SER
1	N	228	ILE
1	N	232	PRO
1	N	246	LEU
1	N	247	PHE
1	N	250	LEU
1	N	251	ARG
1	N	255	MET
1	N	257	VAL
1	N	258	ARG
1	N	274	ASP
1	N	277	ILE
1	N	292	PHE
1	N	293	PRO
1	N	294	THR
1	N	308	ASN
1	N	310	PRO
1	N	311	TYR
1	N	315	ARG
1	N	317	GLN
1	N	323	ILE
1	N	329	LEU
1	N	332	THR
1	N	336	THR
1	N	341	ASN
1	N	344	LEU
1	N	352	GLU
1	N	353	THR
1	N	357	ASN
1	N	365	ARG
1	N	384	THR
1	N	386	ASP
1	N	402	TRP
1	N	443	LYS
1	N	459	LEU
1	N	464	LEU
1	N	470	LEU
1	N	472	LEU
1	O	31	THR
1	O	32	ASN

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Mol	Chain	Res	Type
1	O	43	LEU
1	O	52	ILE
1	O	54	LYS
1	O	56	ASN
1	O	65	VAL
1	O	66	SER
1	O	91	TYR
1	O	97	ARG
1	O	117	ILE
1	O	125	LYS
1	O	129	THR
1	O	145	GLU
1	O	148	SER
1	O	149	MET
1	O	153	GLN
1	O	167	GLU
1	O	175	CYS
1	O	177	GLN
1	O	180	VAL
1	O	182	PRO
1	O	184	ASP
1	O	187	PRO
1	O	188	LEU
1	O	193	THR
1	O	219	GLU
1	O	222	LEU
1	O	225	CYS
1	O	228	ILE
1	O	229	CYS
1	O	247	PHE
1	O	250	LEU
1	O	252	ARG
1	O	257	VAL
1	O	273	ASP
1	O	274	ASP
1	O	282	SER
1	O	294	THR
1	O	295	PRO
1	O	315	ARG
1	O	317	GLN
1	O	329	LEU
1	O	332	THR

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Mol	Chain	Res	Type
1	O	334	VAL
1	O	338	ARG
1	O	341	ASN
1	O	352	GLU
1	O	353	THR
1	O	357	ASN
1	O	368	GLU
1	O	441	LEU
1	O	442	LYS
1	O	443	LYS
1	O	449	VAL
1	O	464	LEU
1	O	470	LEU
1	O	472	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (267) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	32	ASN
1	A	57	ASN
1	A	69	GLN
1	A	92	ASN
1	A	111	GLN
1	A	131	ASN
1	A	143	ASN
1	A	153	GLN
1	A	168	HIS
1	A	259	HIS
1	A	262	ASN
1	A	290	ASN
1	A	317	GLN
1	A	319	HIS
1	A	327	ASN
1	A	328	GLN
1	A	366	HIS
1	A	377	GLN
1	A	395	ASN
1	A	403	ASN
1	A	450	ASN
1	A	461	GLN
1	B	47	HIS
1	B	57	ASN

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Mol	Chain	Res	Type
1	B	69	GLN
1	B	92	ASN
1	B	131	ASN
1	B	192	ASN
1	B	259	HIS
1	B	262	ASN
1	B	290	ASN
1	B	317	GLN
1	B	327	ASN
1	B	366	HIS
1	B	377	GLN
1	B	403	ASN
1	B	461	GLN
1	C	32	ASN
1	C	57	ASN
1	C	69	GLN
1	C	92	ASN
1	C	138	ASN
1	C	153	GLN
1	C	168	HIS
1	C	181	GLN
1	C	259	HIS
1	C	262	ASN
1	C	290	ASN
1	C	305	GLN
1	C	314	GLN
1	C	317	GLN
1	C	327	ASN
1	C	328	GLN
1	C	377	GLN
1	C	395	ASN
1	C	403	ASN
1	D	57	ASN
1	D	69	GLN
1	D	92	ASN
1	D	131	ASN
1	D	153	GLN
1	D	214	GLN
1	D	259	HIS
1	D	262	ASN
1	D	290	ASN
1	D	317	GLN

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Mol	Chain	Res	Type
1	D	341	ASN
1	D	373	GLN
1	D	377	GLN
1	D	395	ASN
1	D	403	ASN
1	D	461	GLN
1	E	32	ASN
1	E	57	ASN
1	E	69	GLN
1	E	92	ASN
1	E	138	ASN
1	E	153	GLN
1	E	168	HIS
1	E	181	GLN
1	E	262	ASN
1	E	290	ASN
1	E	317	GLN
1	E	319	HIS
1	E	377	GLN
1	E	395	ASN
1	E	403	ASN
1	E	461	GLN
1	F	57	ASN
1	F	69	GLN
1	F	92	ASN
1	F	131	ASN
1	F	138	ASN
1	F	153	GLN
1	F	155	GLN
1	F	181	GLN
1	F	254	GLN
1	F	259	HIS
1	F	262	ASN
1	F	270	ASN
1	F	290	ASN
1	F	317	GLN
1	F	319	HIS
1	F	366	HIS
1	F	377	GLN
1	F	395	ASN
1	F	450	ASN
1	G	57	ASN

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Mol	Chain	Res	Type
1	G	69	GLN
1	G	92	ASN
1	G	138	ASN
1	G	153	GLN
1	G	168	HIS
1	G	181	GLN
1	G	192	ASN
1	G	254	GLN
1	G	259	HIS
1	G	262	ASN
1	G	290	ASN
1	G	317	GLN
1	G	319	HIS
1	G	327	ASN
1	G	328	GLN
1	G	341	ASN
1	G	373	GLN
1	G	377	GLN
1	G	395	ASN
1	G	403	ASN
1	G	450	ASN
1	G	461	GLN
1	H	32	ASN
1	H	57	ASN
1	H	69	GLN
1	H	92	ASN
1	H	131	ASN
1	H	138	ASN
1	H	153	GLN
1	H	259	HIS
1	H	262	ASN
1	H	290	ASN
1	H	317	GLN
1	H	327	ASN
1	H	377	GLN
1	H	395	ASN
1	H	403	ASN
1	H	461	GLN
1	I	57	ASN
1	I	69	GLN
1	I	92	ASN
1	I	131	ASN

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Mol	Chain	Res	Type
1	I	138	ASN
1	I	153	GLN
1	I	168	HIS
1	I	259	HIS
1	I	262	ASN
1	I	290	ASN
1	I	305	GLN
1	I	327	ASN
1	I	403	ASN
1	I	461	GLN
1	J	57	ASN
1	J	69	GLN
1	J	131	ASN
1	J	138	ASN
1	J	153	GLN
1	J	168	HIS
1	J	192	ASN
1	J	254	GLN
1	J	259	HIS
1	J	262	ASN
1	J	317	GLN
1	J	319	HIS
1	J	341	ASN
1	J	395	ASN
1	J	403	ASN
1	J	461	GLN
1	K	57	ASN
1	K	69	GLN
1	K	92	ASN
1	K	131	ASN
1	K	138	ASN
1	K	153	GLN
1	K	155	GLN
1	K	168	HIS
1	K	192	ASN
1	K	259	HIS
1	K	262	ASN
1	K	270	ASN
1	K	317	GLN
1	K	341	ASN
1	K	395	ASN
1	K	403	ASN

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Mol	Chain	Res	Type
1	K	450	ASN
1	K	461	GLN
1	L	32	ASN
1	L	57	ASN
1	L	69	GLN
1	L	92	ASN
1	L	131	ASN
1	L	138	ASN
1	L	153	GLN
1	L	192	ASN
1	L	216	ASN
1	L	254	GLN
1	L	259	HIS
1	L	262	ASN
1	L	305	GLN
1	L	317	GLN
1	L	327	ASN
1	L	341	ASN
1	L	395	ASN
1	L	403	ASN
1	L	461	GLN
1	M	57	ASN
1	M	69	GLN
1	M	92	ASN
1	M	138	ASN
1	M	181	GLN
1	M	192	ASN
1	M	259	HIS
1	M	262	ASN
1	M	290	ASN
1	M	317	GLN
1	M	319	HIS
1	M	321	ASN
1	M	327	ASN
1	M	328	GLN
1	M	341	ASN
1	M	395	ASN
1	M	403	ASN
1	M	461	GLN
1	N	32	ASN
1	N	57	ASN
1	N	69	GLN

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Mol	Chain	Res	Type
1	N	92	ASN
1	N	96	GLN
1	N	131	ASN
1	N	138	ASN
1	N	153	GLN
1	N	168	HIS
1	N	181	GLN
1	N	254	GLN
1	N	259	HIS
1	N	262	ASN
1	N	270	ASN
1	N	290	ASN
1	N	317	GLN
1	N	341	ASN
1	N	377	GLN
1	N	395	ASN
1	N	403	ASN
1	N	461	GLN
1	O	57	ASN
1	O	69	GLN
1	O	92	ASN
1	O	138	ASN
1	O	153	GLN
1	O	168	HIS
1	O	181	GLN
1	O	262	ASN
1	O	305	GLN
1	O	317	GLN
1	O	319	HIS
1	O	341	ASN
1	O	395	ASN
1	O	403	ASN
1	O	450	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [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 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	419/424 (98%)	-0.35	2 (0%) 87 69	40, 77, 111, 122	0
1	B	419/424 (98%)	-0.36	1 (0%) 91 80	36, 76, 109, 131	0
1	C	419/424 (98%)	-0.36	0 100 100	44, 79, 110, 121	0
1	D	419/424 (98%)	-0.27	5 (1%) 76 51	37, 78, 109, 130	0
1	E	419/424 (98%)	-0.40	1 (0%) 91 80	41, 79, 114, 128	0
1	F	419/424 (98%)	-0.31	1 (0%) 91 80	40, 80, 111, 131	0
1	G	419/424 (98%)	-0.36	1 (0%) 91 80	46, 83, 112, 135	0
1	H	419/424 (98%)	-0.34	4 (0%) 79 55	34, 78, 111, 136	0
1	I	419/424 (98%)	-0.34	2 (0%) 87 69	48, 82, 113, 132	0
1	J	419/424 (98%)	-0.28	2 (0%) 87 69	43, 79, 111, 134	0
1	K	419/424 (98%)	-0.38	1 (0%) 91 80	35, 76, 109, 129	0
1	L	419/424 (98%)	-0.36	1 (0%) 91 80	38, 73, 108, 137	0
1	M	419/424 (98%)	-0.26	2 (0%) 87 69	43, 75, 108, 133	0
1	N	419/424 (98%)	-0.28	3 (0%) 84 63	45, 80, 112, 128	0
1	O	419/424 (98%)	-0.39	2 (0%) 87 69	45, 82, 112, 133	0
All	All	6285/6360 (98%)	-0.33	28 (0%) 88 72	34, 78, 111, 137	0

All (28) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	I	176	THR	5.9
1	H	179	ALA	5.0
1	I	174	PRO	4.4
1	N	114	GLY	4.4
1	N	163	PRO	3.3
1	L	261	PHE	2.9
1	G	391	ILE	2.8

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Mol	Chain	Res	Type	RSRZ
1	H	176	THR	2.7
1	H	175	CYS	2.7
1	H	229	CYS	2.7
1	N	44	ALA	2.7
1	J	99	VAL	2.6
1	D	176	THR	2.6
1	E	391	ILE	2.5
1	D	174	PRO	2.4
1	A	469	LEU	2.4
1	O	266	THR	2.4
1	M	469	LEU	2.3
1	D	247	PHE	2.3
1	M	266	THR	2.3
1	D	44	ALA	2.3
1	O	346	ALA	2.3
1	B	146	CYS	2.2
1	J	381	ILE	2.2
1	A	371	ASP	2.1
1	F	43	LEU	2.0
1	K	469	LEU	2.0
1	D	114	GLY	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.