Full wwPDB X-ray Structure Validation Report ⓘ

Mar 12, 2026 – 02:23 PM UTC

PDB ID	:	2GLS / pdb_00002gls
Title	:	REFINED ATOMIC MODEL OF GLUTAMINE SYNTHETASE AT 3.5 ANGSTROMS RESOLUTION
Authors	:	Eisenberg, D.; Almassy, R.J.; Yamashita, M.M.
Deposited on	:	1989-05-19
Resolution	:	3.50 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:

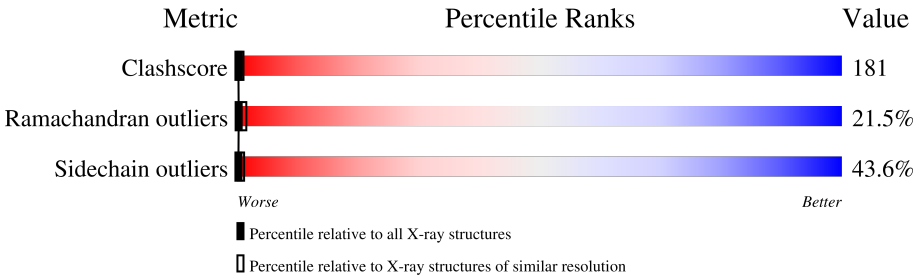
MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	NOT EXECUTED
EDS	:	NOT EXECUTED
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.50 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))
Clashscore	190562	1140 (3.54-3.46)
Ramachandran outliers	187476	1113 (3.54-3.46)
Sidechain outliers	187428	1114 (3.54-3.46)

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 <=5%

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	469	7% 35% 37% 21%
1	B	469	7% 35% 34% 24%
1	C	469	7% 33% 37% 23%
1	D	469	7% 31% 34% 28%
1	E	469	7% 30% 34% 29%
1	F	469	7% 31% 33% 29%
1	G	469	7% 33% 35% 24%
1	H	469	8% 41% 39% 12%

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Mol	Chain	Length	Quality of chain
1	I	469	7% 35% 39% 19%
1	J	469	7% 30% 34% 29%
1	K	469	7% 32% 33% 29%
1	L	469	7% 31% 34% 29%

2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 43692 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 GLUTAMINE SYNTHETASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	468	Total 3636	C 2301	N 624	O 691	S 20	0	0	0
1	B	468	Total 3636	C 2301	N 624	O 691	S 20	0	0	0
1	C	468	Total 3636	C 2301	N 624	O 691	S 20	0	0	0
1	D	468	Total 3636	C 2301	N 624	O 691	S 20	0	0	0
1	E	468	Total 3636	C 2301	N 624	O 691	S 20	0	0	0
1	F	468	Total 3636	C 2301	N 624	O 691	S 20	0	0	0
1	G	468	Total 3636	C 2301	N 624	O 691	S 20	0	0	0
1	H	468	Total 3636	C 2301	N 624	O 691	S 20	0	0	0
1	I	468	Total 3636	C 2301	N 624	O 691	S 20	0	0	0
1	J	468	Total 3636	C 2301	N 624	O 691	S 20	0	0	0
1	K	468	Total 3636	C 2301	N 624	O 691	S 20	0	0	0
1	L	468	Total 3636	C 2301	N 624	O 691	S 20	0	0	0

- Molecule 2 is MANGANESE (II) ION (CCD ID: MN) (formula: Mn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	2	Total 2	Mn 2	0	0
2	B	2	Total 2	Mn 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	C	2	Total Mn 2 2	0	0
2	D	2	Total Mn 2 2	0	0
2	E	2	Total Mn 2 2	0	0
2	F	2	Total Mn 2 2	0	0
2	G	2	Total Mn 2 2	0	0
2	H	2	Total Mn 2 2	0	0
2	I	2	Total Mn 2 2	0	0
2	J	2	Total Mn 2 2	0	0
2	K	2	Total Mn 2 2	0	0
2	L	2	Total Mn 2 2	0	0

- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	3	Total O 3 3	0	0
3	B	3	Total O 3 3	0	0
3	C	3	Total O 3 3	0	0
3	D	3	Total O 3 3	0	0
3	E	3	Total O 3 3	0	0
3	F	3	Total O 3 3	0	0
3	G	3	Total O 3 3	0	0
3	H	3	Total O 3 3	0	0
3	I	3	Total O 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	J	3	Total O 3 3	0	0
3	K	3	Total O 3 3	0	0
3	L	3	Total O 3 3	0	0

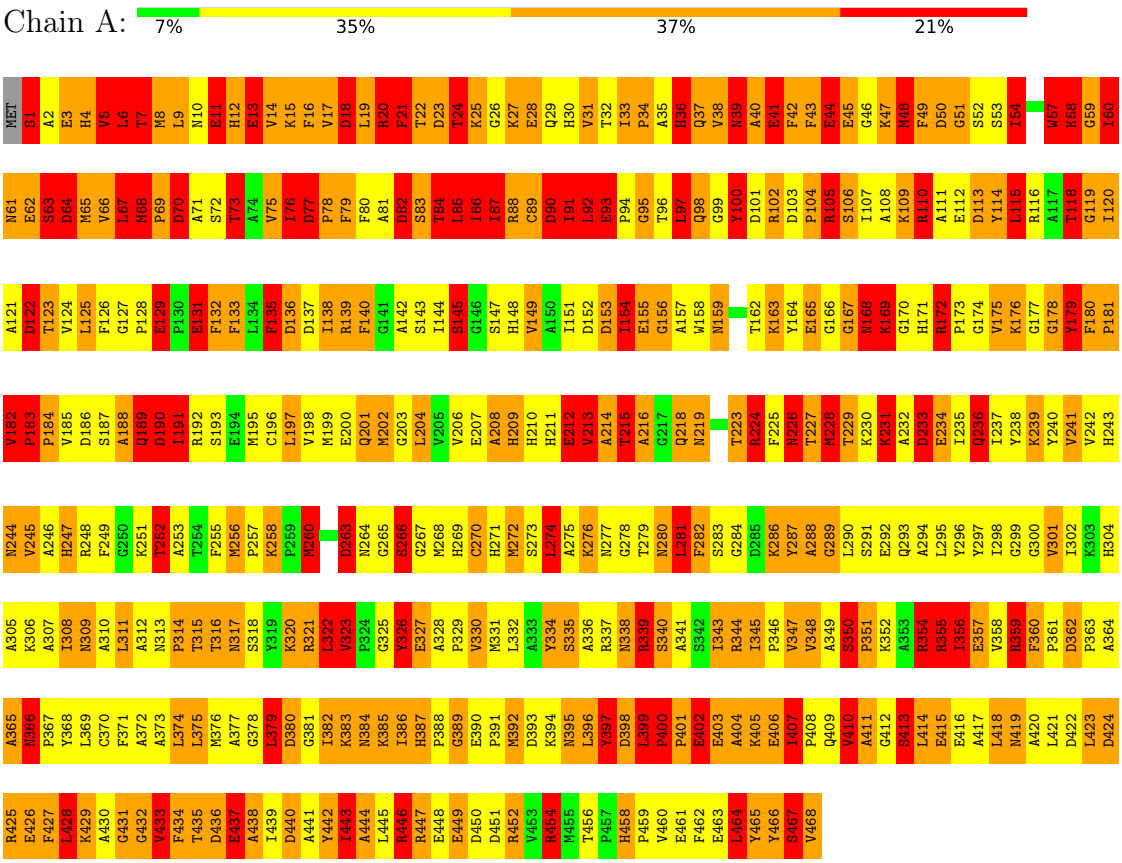
3 Residue-property plots (i)

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

Note EDS was not executed.

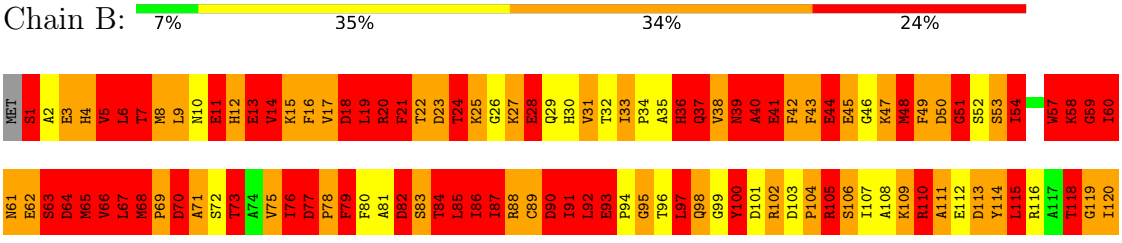
• Molecule 1: GLUTAMINE SYNTHETASE

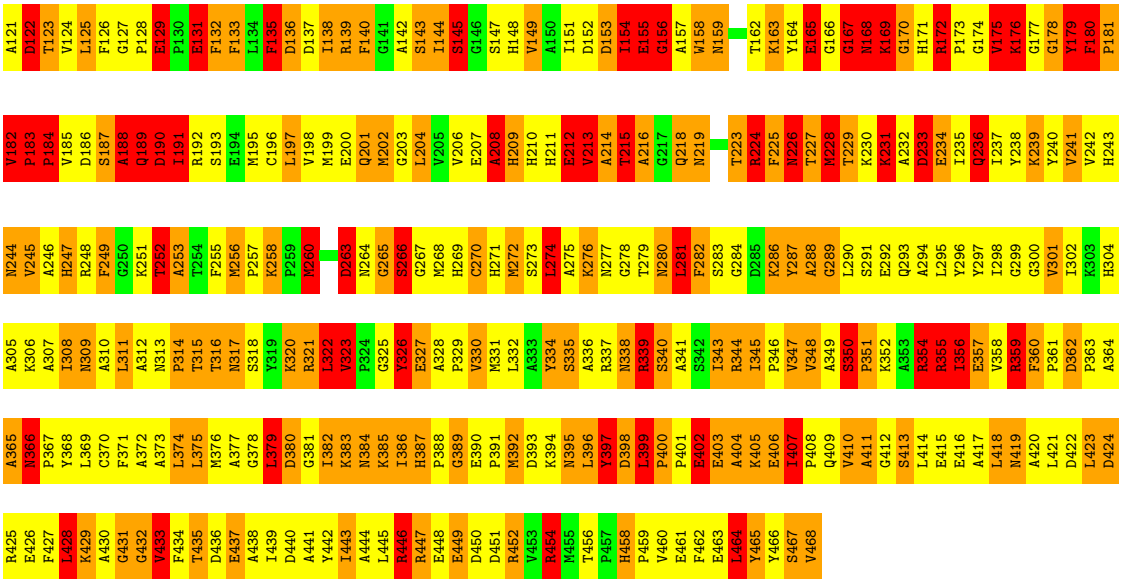
Chain A:



• Molecule 1: GLUTAMINE SYNTHETASE

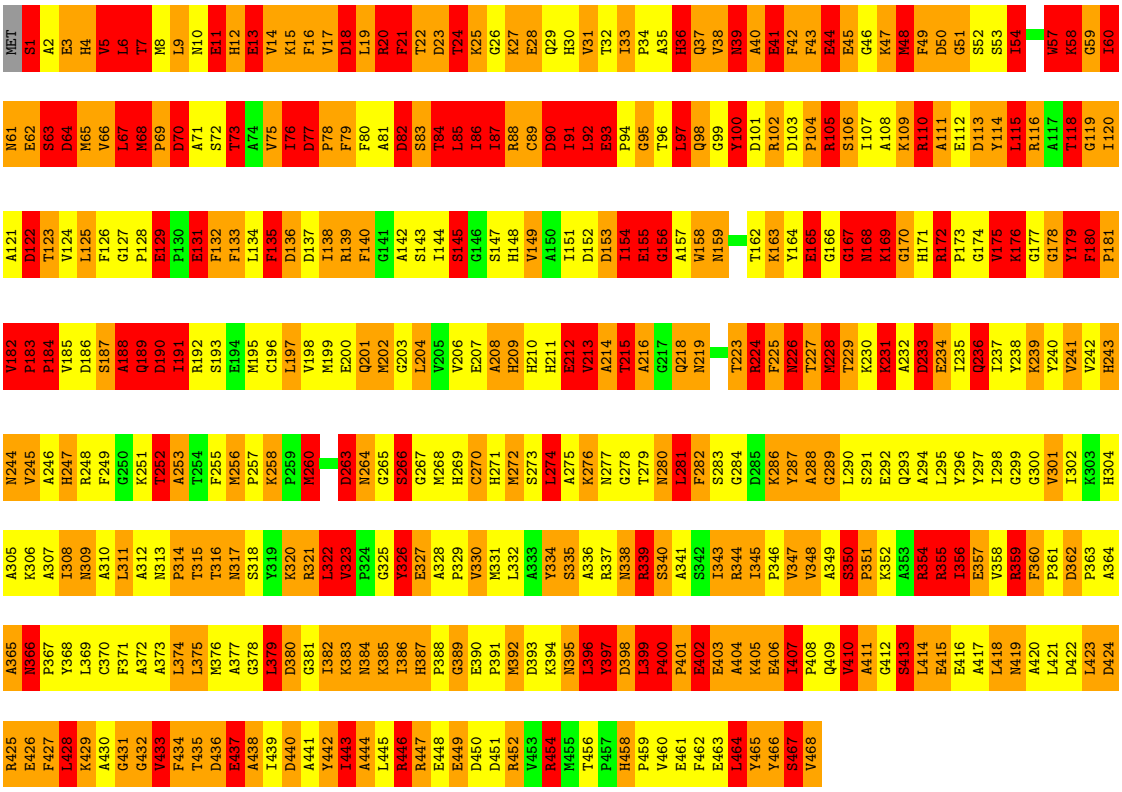
Chain B:





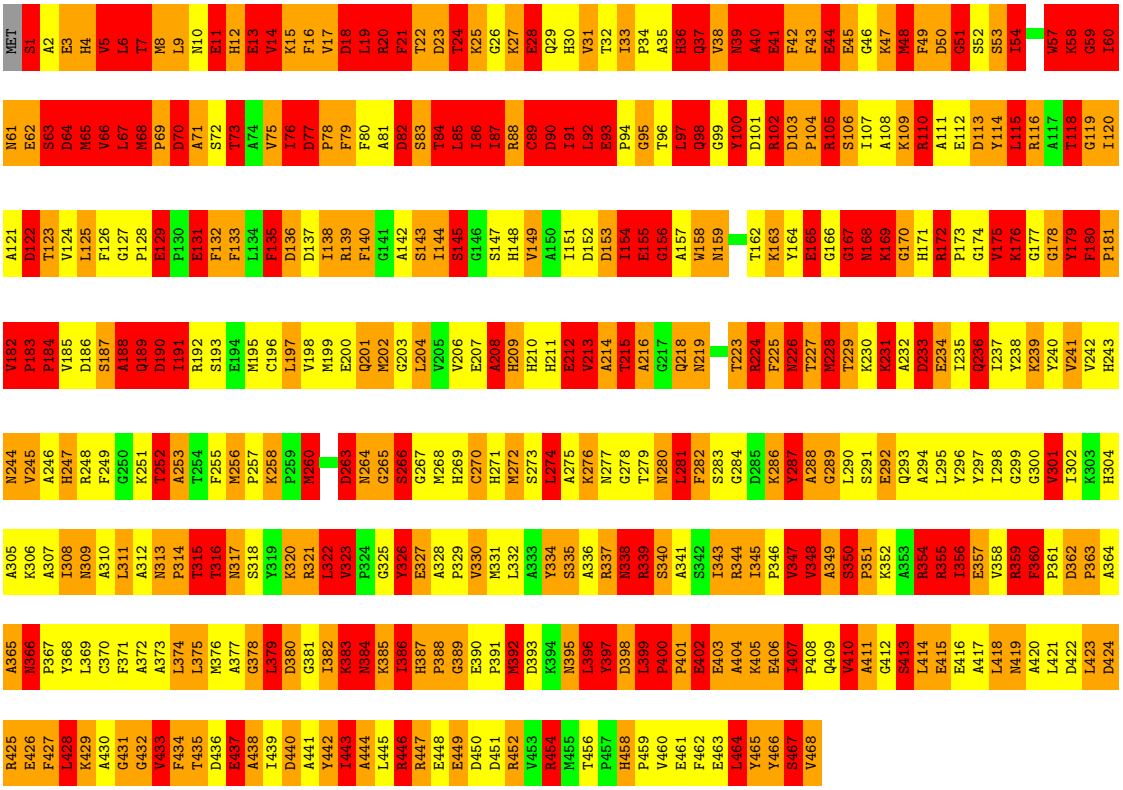
• Molecule 1: GLUTAMINE SYNTHETASE

Chain C: 7% 33% 37% 23%



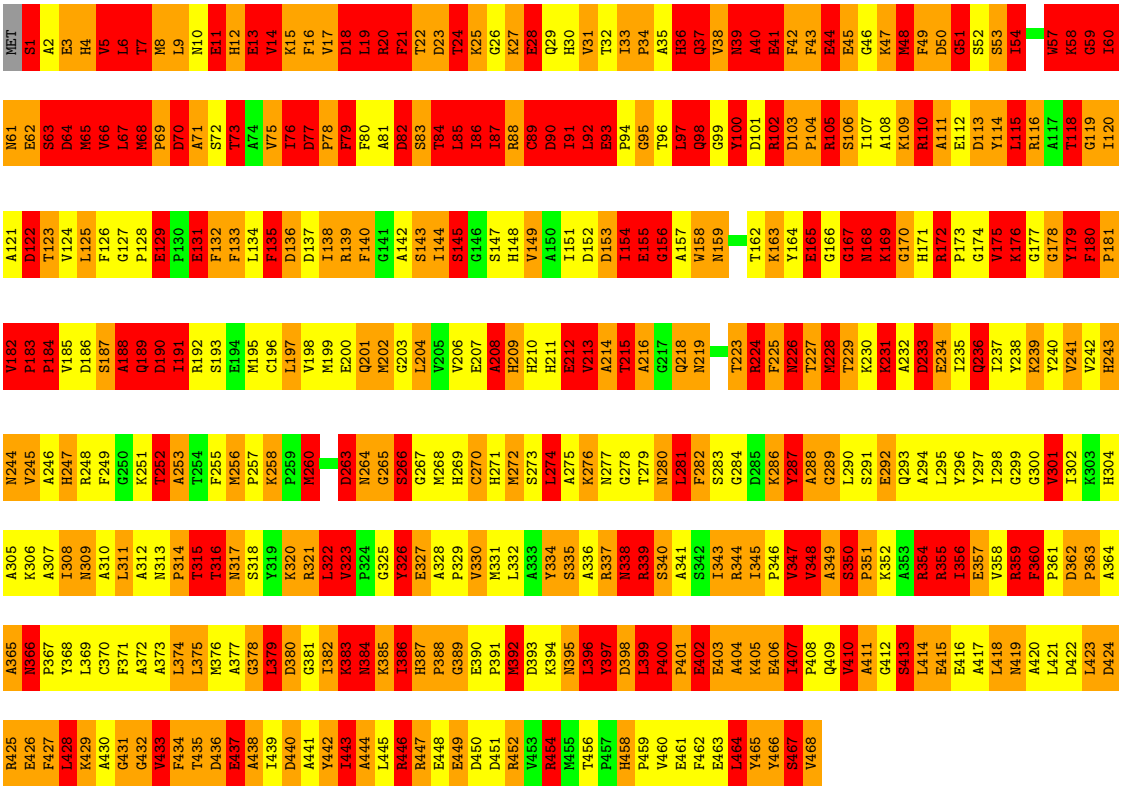
• Molecule 1: GLUTAMINE SYNTHETASE

Chain D: 7% 31% 34% 28%



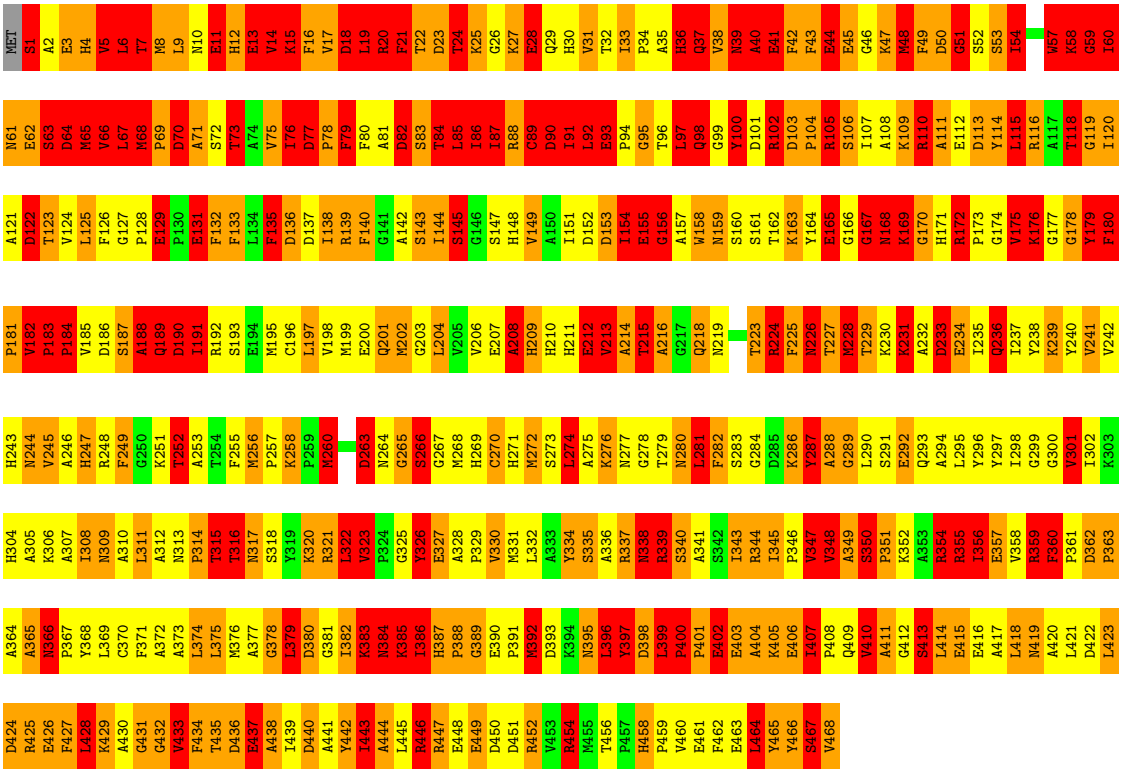
• Molecule 1: GLUTAMINE SYNTHETASE

Chain E: 7% 30% 34% 29%



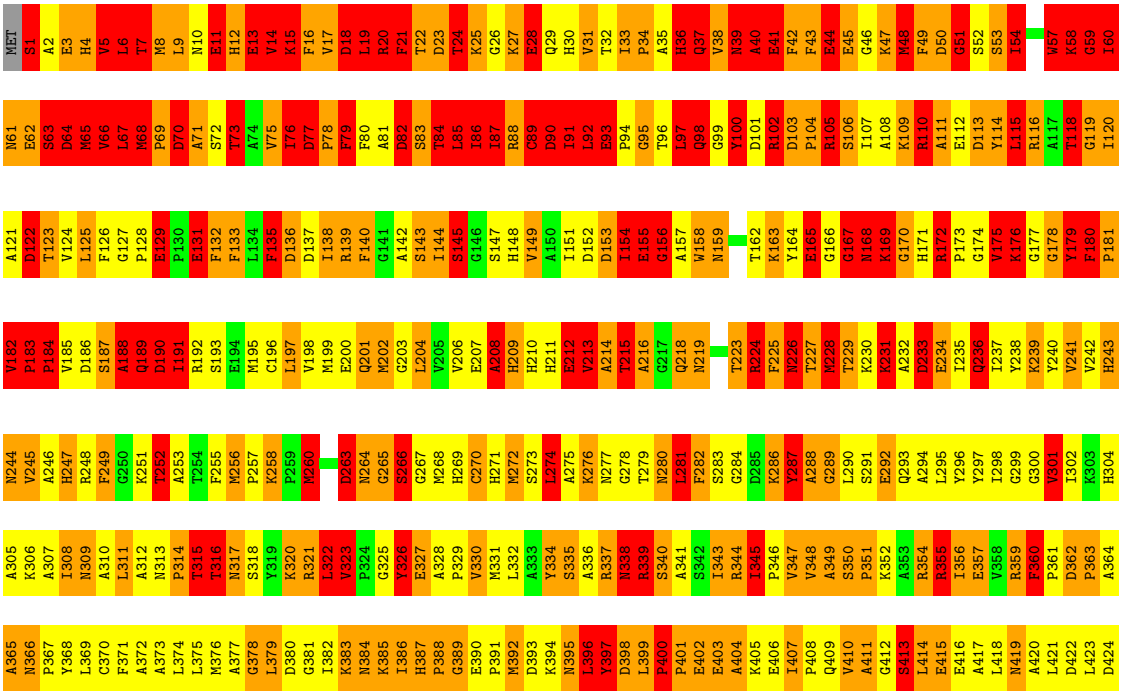
• Molecule 1: GLUTAMINE SYNTHETASE

Chain F: 7% 31% 33% 29%



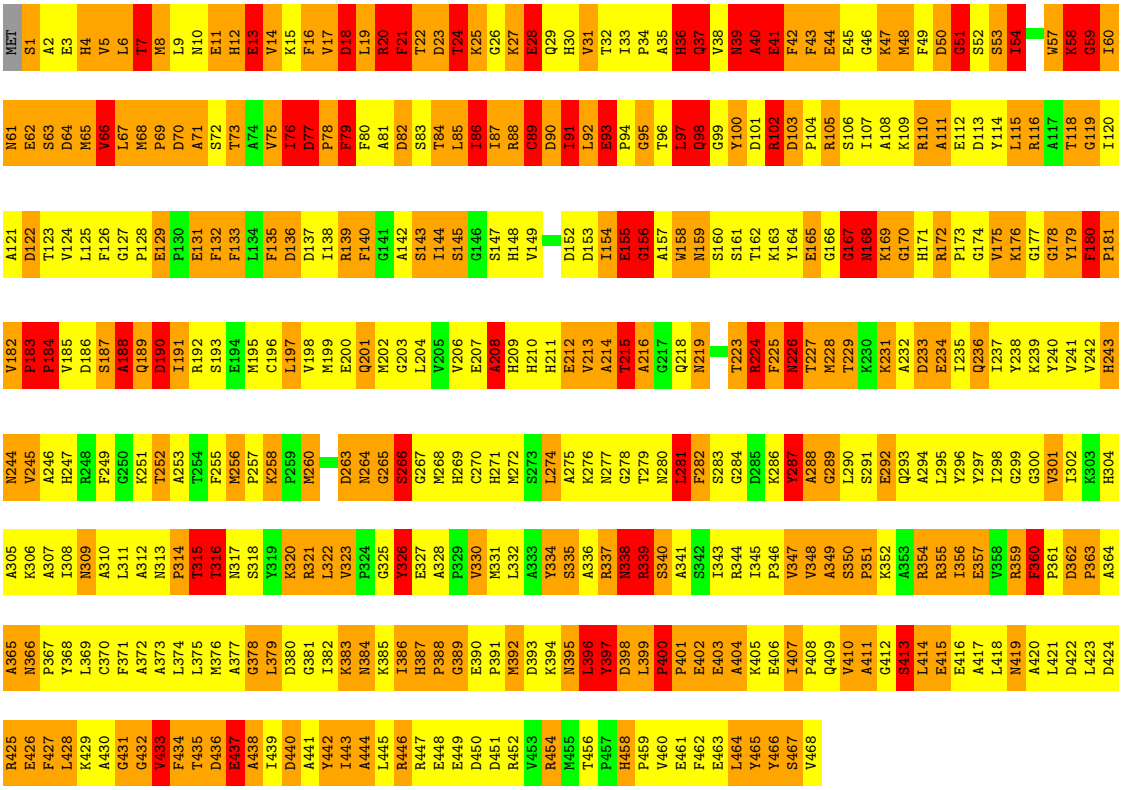
• Molecule 1: GLUTAMINE SYNTHETASE

Chain G: 7% 33% 35% 24%



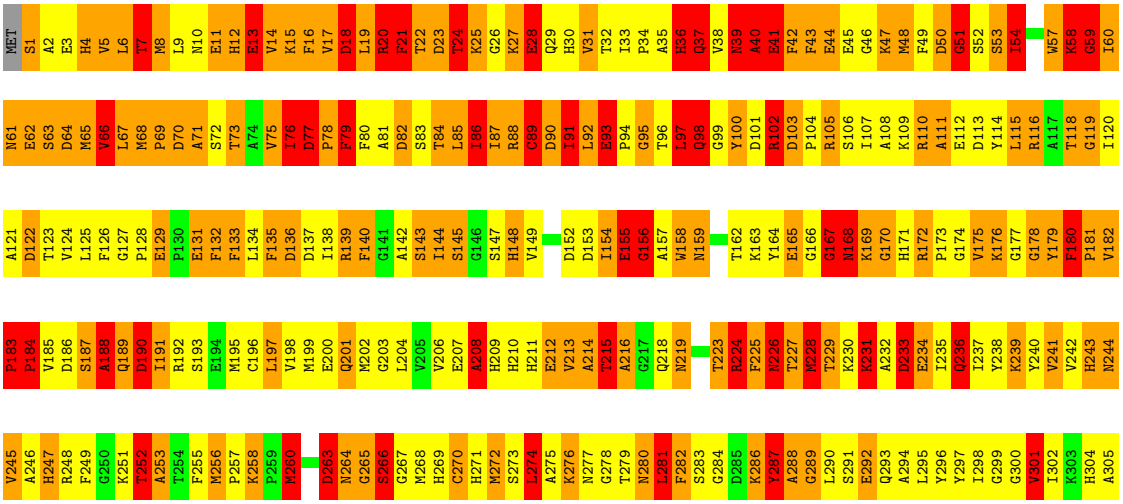
• Molecule 1: GLUTAMINE SYNTHETASE

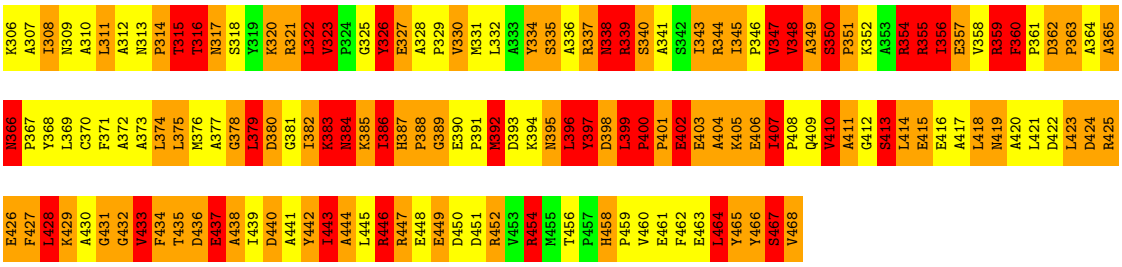
Chain H:



• Molecule 1: GLUTAMINE SYNTHETASE

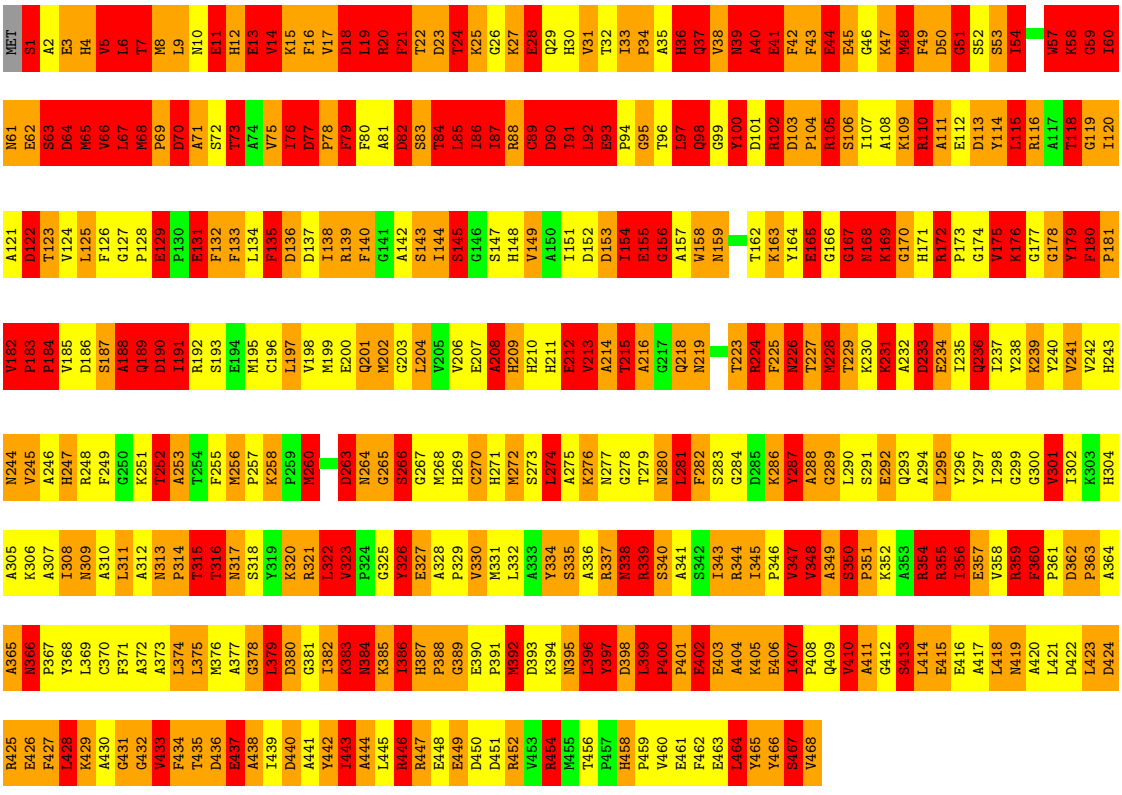
Chain I:





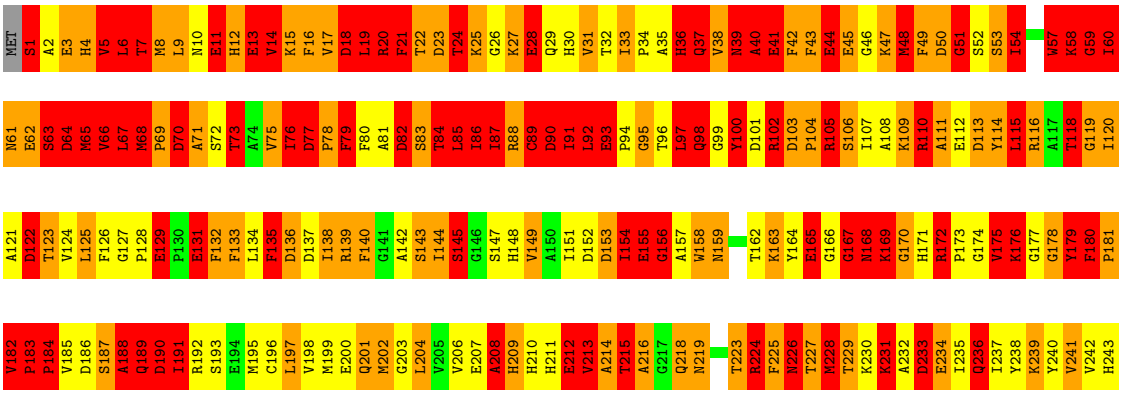
• Molecule 1: GLUTAMINE SYNTHETASE

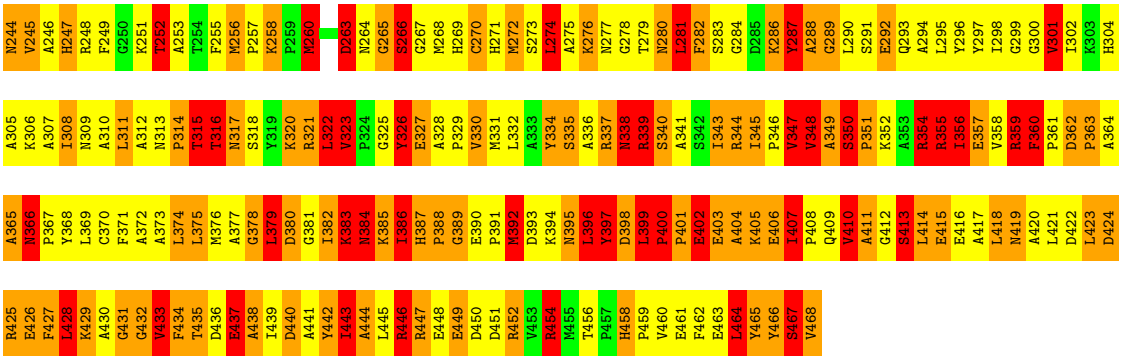
Chain J: 7% 30% 34% 29%



• Molecule 1: GLUTAMINE SYNTHETASE

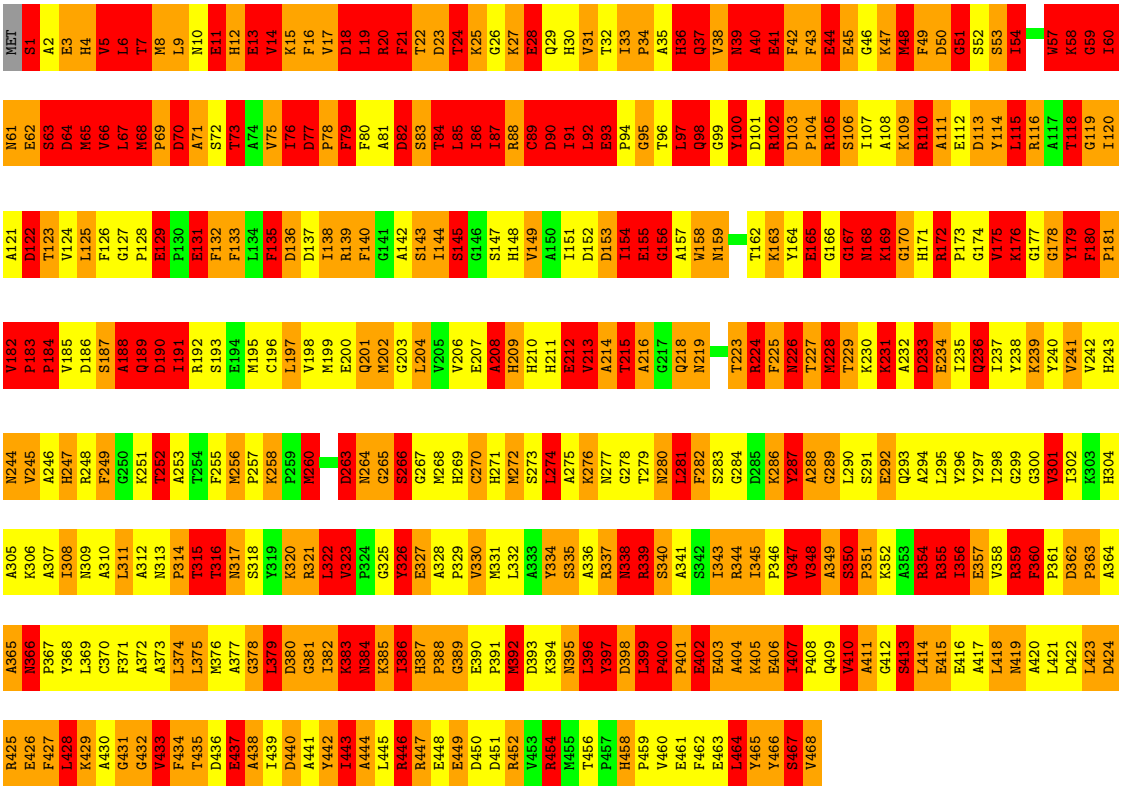
Chain K: 7% 32% 33% 29%





• Molecule 1: GLUTAMINE SYNTHETASE

Chain L: 7% 31% 34% 29%



4 Data and refinement statistics (i)

Xtriage (Phenix) and EDS were not executed - this section is therefore incomplete.

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α, β, γ	235.50Å 134.50Å 200.10Å 90.00° 102.80° 90.00°	Depositor
Resolution (Å)	(Not available) – 3.50	Depositor
% Data completeness (in resolution range)	(Not available) ((Not available)-3.50)	Depositor
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
Refinement program	PROLSQ	Depositor
R, R_{free}	0.258 , (Not available)	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	43692	wwPDB-VP
Average B, all atoms (Å^2)	15.0	wwPDB-VP

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MN

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	1.95	101/3723 (2.7%)	2.88	368/5043 (7.3%)
1	B	1.95	103/3723 (2.8%)	2.88	365/5043 (7.2%)
1	C	1.95	101/3723 (2.7%)	2.88	371/5043 (7.4%)
1	D	1.95	104/3723 (2.8%)	2.89	368/5043 (7.3%)
1	E	1.95	106/3723 (2.8%)	2.89	368/5043 (7.3%)
1	F	1.95	102/3723 (2.7%)	2.88	372/5043 (7.4%)
1	G	1.95	104/3723 (2.8%)	2.88	375/5043 (7.4%)
1	H	1.95	102/3723 (2.7%)	2.88	369/5043 (7.3%)
1	I	1.95	102/3723 (2.7%)	2.88	370/5043 (7.3%)
1	J	1.95	102/3723 (2.7%)	2.88	368/5043 (7.3%)
1	K	1.95	103/3723 (2.8%)	2.88	370/5043 (7.3%)
1	L	1.95	105/3723 (2.8%)	2.89	367/5043 (7.3%)
All	All	1.95	1235/44676 (2.8%)	2.88	4431/60516 (7.3%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	1	3
1	B	1	3
1	C	1	3
1	D	1	3
1	E	1	3
1	F	1	3
1	G	1	3
1	H	1	3
1	I	1	3
1	J	1	3
1	K	1	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	L	1	3
All	All	12	36

All (1235) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	183	PRO	CA-C	-12.11	1.41	1.52
1	C	183	PRO	CA-C	-11.97	1.41	1.52
1	F	183	PRO	CA-C	-11.94	1.41	1.52
1	E	183	PRO	CA-C	-11.93	1.41	1.52
1	I	183	PRO	CA-C	-11.93	1.41	1.52
1	K	183	PRO	CA-C	-11.92	1.41	1.52
1	H	183	PRO	CA-C	-11.90	1.41	1.52
1	L	183	PRO	CA-C	-11.89	1.41	1.52
1	A	183	PRO	CA-C	-11.89	1.41	1.52
1	J	183	PRO	CA-C	-11.83	1.41	1.52
1	D	183	PRO	CA-C	-11.82	1.41	1.52
1	G	183	PRO	CA-C	-11.81	1.41	1.52
1	E	70	ASP	CA-C	11.68	1.61	1.52
1	D	70	ASP	CA-C	11.60	1.61	1.52
1	L	70	ASP	CA-C	11.38	1.60	1.52
1	I	91	ILE	N-CA	9.86	1.58	1.46
1	D	91	ILE	N-CA	9.85	1.58	1.46
1	J	70	ASP	CA-C	9.85	1.61	1.52
1	F	91	ILE	N-CA	9.84	1.58	1.46
1	K	91	ILE	N-CA	9.82	1.58	1.46
1	G	91	ILE	N-CA	9.80	1.58	1.46
1	H	91	ILE	N-CA	9.77	1.58	1.46
1	A	91	ILE	N-CA	9.77	1.58	1.46
1	E	91	ILE	N-CA	9.76	1.58	1.46
1	J	91	ILE	N-CA	9.73	1.58	1.46
1	C	91	ILE	N-CA	9.71	1.58	1.46
1	L	91	ILE	N-CA	9.71	1.58	1.46
1	B	70	ASP	CA-C	9.71	1.60	1.52
1	K	70	ASP	CA-C	9.70	1.60	1.52
1	B	91	ILE	N-CA	9.67	1.58	1.46
1	G	70	ASP	CA-C	9.67	1.60	1.52
1	A	70	ASP	CA-C	9.62	1.60	1.52
1	I	70	ASP	CA-C	9.62	1.60	1.52
1	C	70	ASP	CA-C	9.58	1.60	1.52
1	F	70	ASP	CA-C	9.58	1.60	1.52
1	H	70	ASP	CA-C	9.46	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	316	THR	CA-CB	9.39	1.69	1.53
1	K	76	ILE	N-CA	9.38	1.58	1.46
1	E	316	THR	CA-CB	9.38	1.69	1.53
1	H	76	ILE	N-CA	9.38	1.58	1.46
1	G	316	THR	CA-CB	9.38	1.69	1.53
1	F	316	THR	CA-CB	9.36	1.69	1.53
1	A	76	ILE	N-CA	9.36	1.58	1.46
1	D	76	ILE	N-CA	9.36	1.58	1.46
1	G	76	ILE	N-CA	9.36	1.58	1.46
1	J	316	THR	CA-CB	9.35	1.69	1.53
1	B	76	ILE	N-CA	9.34	1.58	1.46
1	H	316	THR	CA-CB	9.34	1.69	1.53
1	A	316	THR	CA-CB	9.33	1.69	1.53
1	B	316	THR	CA-CB	9.33	1.69	1.53
1	C	76	ILE	N-CA	9.33	1.58	1.46
1	F	76	ILE	N-CA	9.33	1.58	1.46
1	E	76	ILE	N-CA	9.32	1.58	1.46
1	C	316	THR	CA-CB	9.31	1.69	1.53
1	K	316	THR	CA-CB	9.31	1.69	1.53
1	I	76	ILE	N-CA	9.29	1.57	1.46
1	D	316	THR	CA-CB	9.28	1.69	1.53
1	I	316	THR	CA-CB	9.26	1.69	1.53
1	J	76	ILE	N-CA	9.26	1.57	1.46
1	L	76	ILE	N-CA	9.24	1.57	1.46
1	C	315	THR	CA-C	9.22	1.65	1.52
1	B	20	ARG	N-CA	9.18	1.58	1.46
1	A	315	THR	CA-C	9.16	1.65	1.52
1	B	315	THR	CA-C	9.14	1.65	1.52
1	D	315	THR	CA-C	9.13	1.65	1.52
1	H	315	THR	CA-C	9.13	1.65	1.52
1	J	20	ARG	N-CA	9.12	1.57	1.46
1	K	315	THR	CA-C	9.12	1.65	1.52
1	C	20	ARG	N-CA	9.11	1.57	1.46
1	G	315	THR	CA-C	9.11	1.65	1.52
1	H	20	ARG	N-CA	9.10	1.57	1.46
1	I	315	THR	CA-C	9.09	1.65	1.52
1	D	20	ARG	N-CA	9.08	1.57	1.46
1	E	315	THR	CA-C	9.08	1.65	1.52
1	E	20	ARG	N-CA	9.07	1.57	1.46
1	F	315	THR	CA-C	9.06	1.65	1.52
1	I	20	ARG	N-CA	9.05	1.57	1.46
1	J	315	THR	CA-C	9.05	1.65	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	20	ARG	N-CA	9.05	1.57	1.46
1	L	315	THR	CA-C	9.03	1.64	1.52
1	F	20	ARG	N-CA	9.03	1.57	1.46
1	K	20	ARG	N-CA	9.02	1.57	1.46
1	G	20	ARG	N-CA	8.98	1.57	1.46
1	L	20	ARG	N-CA	8.96	1.57	1.46
1	F	354	ARG	N-CA	8.95	1.56	1.46
1	L	253	ALA	N-CA	8.93	1.56	1.46
1	I	354	ARG	N-CA	8.91	1.56	1.46
1	L	354	ARG	N-CA	8.91	1.56	1.46
1	E	253	ALA	N-CA	8.89	1.56	1.46
1	J	354	ARG	N-CA	8.84	1.56	1.46
1	B	253	ALA	N-CA	8.83	1.56	1.46
1	C	354	ARG	N-CA	8.83	1.56	1.46
1	B	354	ARG	N-CA	8.81	1.56	1.46
1	D	253	ALA	N-CA	8.80	1.56	1.46
1	F	253	ALA	N-CA	8.80	1.56	1.46
1	A	354	ARG	N-CA	8.75	1.56	1.46
1	E	354	ARG	N-CA	8.75	1.56	1.46
1	G	354	ARG	N-CA	8.74	1.56	1.46
1	I	253	ALA	N-CA	8.74	1.56	1.46
1	K	253	ALA	N-CA	8.73	1.56	1.46
1	H	354	ARG	N-CA	8.73	1.56	1.46
1	K	354	ARG	N-CA	8.72	1.56	1.46
1	A	17	VAL	N-CA	8.71	1.57	1.46
1	H	17	VAL	N-CA	8.72	1.57	1.46
1	D	354	ARG	N-CA	8.71	1.56	1.46
1	F	17	VAL	N-CA	8.71	1.57	1.46
1	C	253	ALA	N-CA	8.71	1.56	1.46
1	H	253	ALA	N-CA	8.71	1.56	1.46
1	G	253	ALA	N-CA	8.69	1.56	1.46
1	A	253	ALA	N-CA	8.69	1.56	1.46
1	J	253	ALA	N-CA	8.69	1.56	1.46
1	L	17	VAL	N-CA	8.69	1.57	1.46
1	D	17	VAL	N-CA	8.67	1.57	1.46
1	E	17	VAL	N-CA	8.66	1.57	1.46
1	K	17	VAL	N-CA	8.63	1.57	1.46
1	I	17	VAL	N-CA	8.62	1.57	1.46
1	J	17	VAL	N-CA	8.59	1.57	1.46
1	D	156	GLY	N-CA	8.58	1.57	1.45
1	G	17	VAL	N-CA	8.56	1.57	1.46
1	C	17	VAL	N-CA	8.56	1.57	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	156	GLY	N-CA	8.53	1.57	1.45
1	B	17	VAL	N-CA	8.52	1.56	1.46
1	K	183	PRO	C-O	8.49	1.33	1.24
1	I	156	GLY	N-CA	8.44	1.57	1.45
1	L	156	GLY	N-CA	8.44	1.57	1.45
1	B	183	PRO	C-O	8.42	1.33	1.24
1	A	156	GLY	N-CA	8.41	1.57	1.45
1	E	156	GLY	N-CA	8.41	1.57	1.45
1	K	156	GLY	N-CA	8.41	1.57	1.45
1	G	156	GLY	N-CA	8.40	1.57	1.45
1	H	156	GLY	N-CA	8.40	1.57	1.45
1	F	156	GLY	N-CA	8.39	1.57	1.45
1	C	156	GLY	N-CA	8.38	1.57	1.45
1	B	156	GLY	N-CA	8.38	1.57	1.45
1	L	183	PRO	C-O	8.35	1.33	1.24
1	D	183	PRO	C-O	8.34	1.33	1.24
1	H	183	PRO	C-O	8.33	1.33	1.24
1	A	183	PRO	C-O	8.33	1.33	1.24
1	G	183	PRO	C-O	8.33	1.33	1.24
1	J	183	PRO	C-O	8.29	1.33	1.24
1	G	100	TYR	CA-CB	-8.27	1.40	1.53
1	C	183	PRO	C-O	8.27	1.33	1.24
1	I	100	TYR	CA-CB	-8.27	1.40	1.53
1	I	183	PRO	C-O	8.26	1.33	1.24
1	E	183	PRO	C-O	8.25	1.33	1.24
1	J	100	TYR	CA-CB	-8.25	1.40	1.53
1	K	100	TYR	CA-CB	-8.18	1.40	1.53
1	E	100	TYR	CA-CB	-8.17	1.40	1.53
1	C	100	TYR	CA-CB	-8.15	1.40	1.53
1	F	183	PRO	C-O	8.12	1.33	1.24
1	A	100	TYR	CA-CB	-8.11	1.40	1.53
1	D	100	TYR	CA-CB	-8.11	1.40	1.53
1	B	100	TYR	CA-CB	-8.10	1.40	1.53
1	L	100	TYR	CA-CB	-8.10	1.40	1.53
1	H	100	TYR	CA-CB	-8.10	1.40	1.53
1	F	100	TYR	CA-CB	-8.09	1.40	1.53
1	B	465	TYR	CA-C	-7.95	1.41	1.52
1	L	465	TYR	CA-C	-7.92	1.41	1.52
1	D	465	TYR	CA-C	-7.91	1.41	1.52
1	H	67	LEU	CA-C	-7.86	1.44	1.53
1	I	67	LEU	CA-C	-7.84	1.44	1.53
1	G	67	LEU	CA-C	-7.83	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	67	LEU	CA-C	-7.83	1.44	1.53
1	D	67	LEU	CA-C	-7.83	1.44	1.53
1	B	289	GLY	N-CA	7.82	1.56	1.45
1	I	465	TYR	CA-C	-7.82	1.42	1.52
1	K	67	LEU	CA-C	-7.81	1.44	1.53
1	C	41	GLU	CA-C	7.81	1.63	1.52
1	H	465	TYR	CA-C	-7.81	1.42	1.52
1	K	289	GLY	N-CA	7.80	1.56	1.45
1	D	41	GLU	CA-C	7.80	1.63	1.52
1	J	289	GLY	N-CA	7.80	1.56	1.45
1	C	67	LEU	CA-C	-7.80	1.44	1.53
1	E	41	GLU	CA-C	7.79	1.63	1.52
1	F	289	GLY	N-CA	7.79	1.56	1.45
1	J	465	TYR	CA-C	-7.78	1.42	1.52
1	B	67	LEU	CA-C	-7.78	1.44	1.53
1	L	67	LEU	CA-C	-7.78	1.44	1.53
1	A	465	TYR	CA-C	-7.77	1.42	1.52
1	F	67	LEU	CA-C	-7.77	1.44	1.53
1	F	465	TYR	CA-C	-7.76	1.42	1.52
1	K	41	GLU	CA-C	7.76	1.63	1.52
1	A	67	LEU	CA-C	-7.76	1.44	1.53
1	L	289	GLY	N-CA	7.76	1.56	1.45
1	I	289	GLY	N-CA	7.75	1.56	1.45
1	G	465	TYR	CA-C	-7.75	1.42	1.52
1	I	77	ASP	N-CA	7.75	1.57	1.46
1	A	289	GLY	N-CA	7.75	1.56	1.45
1	E	67	LEU	CA-C	-7.74	1.44	1.53
1	C	289	GLY	N-CA	7.73	1.56	1.45
1	I	41	GLU	CA-C	7.73	1.63	1.52
1	H	77	ASP	N-CA	7.73	1.57	1.46
1	C	465	TYR	CA-C	-7.72	1.42	1.52
1	K	465	TYR	CA-C	-7.72	1.42	1.52
1	G	41	GLU	CA-C	7.70	1.63	1.52
1	D	77	ASP	N-CA	7.69	1.56	1.46
1	E	289	GLY	N-CA	7.69	1.56	1.45
1	J	41	GLU	CA-C	7.69	1.63	1.52
1	G	289	GLY	N-CA	7.69	1.56	1.45
1	C	77	ASP	N-CA	7.69	1.56	1.46
1	E	465	TYR	CA-C	-7.68	1.42	1.52
1	H	289	GLY	N-CA	7.68	1.56	1.45
1	G	77	ASP	N-CA	7.67	1.56	1.46
1	A	41	GLU	CA-C	7.66	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	77	ASP	N-CA	7.64	1.56	1.46
1	A	77	ASP	N-CA	7.64	1.56	1.46
1	J	77	ASP	N-CA	7.64	1.56	1.46
1	D	289	GLY	N-CA	7.63	1.56	1.45
1	I	88	ARG	CD-NE	-7.63	1.35	1.46
1	L	77	ASP	N-CA	7.63	1.56	1.46
1	F	88	ARG	CD-NE	-7.62	1.35	1.46
1	L	41	GLU	CA-C	7.61	1.62	1.52
1	F	41	GLU	CA-C	7.59	1.62	1.52
1	J	88	ARG	CD-NE	-7.58	1.35	1.46
1	F	77	ASP	N-CA	7.58	1.56	1.46
1	B	41	GLU	CA-C	7.58	1.62	1.52
1	K	88	ARG	CD-NE	-7.58	1.35	1.46
1	B	77	ASP	N-CA	7.57	1.56	1.46
1	H	41	GLU	CA-C	7.56	1.62	1.52
1	B	88	ARG	CD-NE	-7.55	1.35	1.46
1	G	88	ARG	CD-NE	-7.54	1.35	1.46
1	E	77	ASP	N-CA	7.53	1.56	1.46
1	A	88	ARG	CD-NE	-7.52	1.35	1.46
1	D	88	ARG	CD-NE	-7.51	1.35	1.46
1	E	88	ARG	CD-NE	-7.51	1.35	1.46
1	H	88	ARG	CD-NE	-7.49	1.35	1.46
1	L	88	ARG	CD-NE	-7.48	1.35	1.46
1	F	279	THR	CA-CB	7.46	1.65	1.53
1	L	256	MET	CA-CB	-7.42	1.40	1.52
1	C	88	ARG	CD-NE	-7.42	1.35	1.46
1	F	256	MET	CA-CB	-7.39	1.40	1.52
1	G	256	MET	CA-CB	-7.36	1.40	1.52
1	C	79	PHE	CA-CB	7.34	1.65	1.53
1	C	279	THR	CA-CB	7.33	1.65	1.53
1	B	279	THR	CA-CB	7.33	1.65	1.53
1	K	256	MET	CA-CB	-7.32	1.40	1.52
1	A	279	THR	CA-CB	7.32	1.65	1.53
1	J	279	THR	CA-CB	7.32	1.65	1.53
1	D	256	MET	CA-CB	-7.32	1.40	1.52
1	E	256	MET	CA-CB	-7.31	1.40	1.52
1	A	256	MET	CA-CB	-7.31	1.40	1.52
1	E	79	PHE	CA-CB	7.31	1.65	1.53
1	K	79	PHE	CA-CB	7.30	1.65	1.53
1	E	279	THR	CA-CB	7.30	1.65	1.53
1	H	256	MET	CA-CB	-7.30	1.40	1.52
1	I	279	THR	CA-CB	7.29	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	123	THR	N-CA	7.29	1.54	1.46
1	I	256	MET	CA-CB	-7.29	1.40	1.52
1	B	256	MET	CA-CB	-7.29	1.40	1.52
1	D	279	THR	CA-CB	7.29	1.65	1.53
1	G	279	THR	CA-CB	7.29	1.65	1.53
1	A	79	PHE	CA-CB	7.29	1.65	1.53
1	K	279	THR	CA-CB	7.29	1.65	1.53
1	C	256	MET	CA-CB	-7.28	1.40	1.52
1	I	433	VAL	N-CA	7.28	1.55	1.46
1	G	123	THR	N-CA	7.28	1.54	1.46
1	H	279	THR	CA-CB	7.27	1.65	1.53
1	A	123	THR	N-CA	7.26	1.54	1.46
1	D	123	THR	N-CA	7.26	1.54	1.46
1	I	123	THR	N-CA	7.26	1.54	1.46
1	J	79	PHE	CA-CB	7.26	1.65	1.53
1	L	79	PHE	CA-CB	7.26	1.65	1.53
1	H	79	PHE	CA-CB	7.26	1.65	1.53
1	F	123	THR	N-CA	7.26	1.54	1.46
1	D	433	VAL	N-CA	7.24	1.55	1.46
1	L	279	THR	CA-CB	7.24	1.65	1.53
1	I	79	PHE	CA-CB	7.24	1.65	1.53
1	G	79	PHE	CA-CB	7.23	1.65	1.53
1	K	77	ASP	C-O	7.23	1.33	1.24
1	L	123	THR	N-CA	7.22	1.54	1.46
1	B	79	PHE	CA-CB	7.21	1.65	1.53
1	J	77	ASP	C-O	7.21	1.33	1.24
1	K	123	THR	N-CA	7.21	1.54	1.46
1	D	79	PHE	CA-CB	7.21	1.65	1.53
1	H	433	VAL	N-CA	7.20	1.55	1.46
1	K	433	VAL	N-CA	7.20	1.55	1.46
1	F	79	PHE	CA-CB	7.20	1.65	1.53
1	B	123	THR	N-CA	7.20	1.54	1.46
1	B	433	VAL	N-CA	7.20	1.55	1.46
1	J	256	MET	CA-CB	-7.20	1.40	1.52
1	F	359	ARG	CD-NE	-7.20	1.36	1.46
1	H	77	ASP	C-O	7.20	1.33	1.24
1	J	123	THR	N-CA	7.20	1.54	1.46
1	A	433	VAL	N-CA	7.19	1.55	1.46
1	C	77	ASP	C-O	7.18	1.33	1.24
1	E	77	ASP	C-O	7.18	1.33	1.24
1	H	359	ARG	CD-NE	-7.18	1.36	1.46
1	F	433	VAL	N-CA	7.18	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	77	ASP	C-O	7.17	1.33	1.24
1	D	270	CYS	CA-CB	-7.17	1.42	1.53
1	E	433	VAL	N-CA	7.17	1.55	1.46
1	G	270	CYS	CA-CB	-7.17	1.42	1.53
1	L	433	VAL	N-CA	7.17	1.55	1.46
1	L	270	CYS	CA-CB	-7.17	1.42	1.53
1	A	270	CYS	CA-CB	-7.17	1.42	1.53
1	G	77	ASP	C-O	7.17	1.33	1.24
1	H	54	ILE	N-CA	-7.16	1.37	1.46
1	I	77	ASP	C-O	7.16	1.33	1.24
1	D	54	ILE	N-CA	-7.15	1.37	1.46
1	K	359	ARG	CD-NE	-7.15	1.36	1.46
1	E	123	THR	N-CA	7.15	1.54	1.46
1	C	123	THR	N-CA	7.15	1.54	1.46
1	H	270	CYS	CA-CB	-7.14	1.42	1.53
1	K	270	CYS	CA-CB	-7.14	1.42	1.53
1	J	54	ILE	N-CA	-7.14	1.37	1.46
1	C	433	VAL	N-CA	7.14	1.55	1.46
1	E	359	ARG	CD-NE	-7.14	1.36	1.46
1	L	359	ARG	CD-NE	-7.14	1.36	1.46
1	A	77	ASP	C-O	7.13	1.33	1.24
1	G	433	VAL	N-CA	7.12	1.55	1.46
1	I	270	CYS	CA-CB	-7.12	1.42	1.53
1	F	77	ASP	C-O	7.11	1.33	1.24
1	H	334	TYR	N-CA	7.11	1.54	1.45
1	A	359	ARG	CD-NE	-7.11	1.36	1.46
1	E	184	PRO	CA-CB	-7.11	1.43	1.53
1	D	359	ARG	CD-NE	-7.10	1.36	1.46
1	C	270	CYS	CA-CB	-7.10	1.42	1.53
1	I	359	ARG	CD-NE	-7.09	1.36	1.46
1	J	270	CYS	CA-CB	-7.09	1.42	1.53
1	B	77	ASP	C-O	7.08	1.33	1.24
1	F	184	PRO	CA-CB	-7.07	1.43	1.53
1	C	359	ARG	CD-NE	-7.06	1.36	1.46
1	K	54	ILE	N-CA	-7.06	1.37	1.46
1	C	54	ILE	N-CA	-7.05	1.37	1.46
1	G	54	ILE	N-CA	-7.05	1.37	1.46
1	J	433	VAL	N-CA	7.05	1.55	1.46
1	E	270	CYS	CA-CB	-7.04	1.42	1.53
1	F	270	CYS	CA-CB	-7.04	1.42	1.53
1	B	270	CYS	CA-CB	-7.03	1.42	1.53
1	J	184	PRO	CA-CB	-7.03	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	359	ARG	CD-NE	-7.03	1.36	1.46
1	J	334	TYR	N-CA	7.03	1.54	1.45
1	J	359	ARG	CD-NE	-7.03	1.36	1.46
1	F	334	TYR	N-CA	7.02	1.54	1.45
1	L	77	ASP	C-O	7.02	1.33	1.24
1	I	334	TYR	N-CA	7.01	1.54	1.45
1	L	54	ILE	N-CA	-7.01	1.37	1.46
1	F	54	ILE	N-CA	-7.00	1.37	1.46
1	G	359	ARG	CD-NE	-7.00	1.36	1.46
1	A	54	ILE	N-CA	-7.00	1.37	1.46
1	I	54	ILE	N-CA	-7.00	1.37	1.46
1	D	334	TYR	N-CA	6.99	1.54	1.45
1	D	59	GLY	N-CA	-6.99	1.35	1.45
1	H	184	PRO	CA-CB	-6.99	1.43	1.53
1	L	334	TYR	N-CA	6.99	1.54	1.45
1	H	59	GLY	N-CA	-6.98	1.35	1.45
1	B	54	ILE	N-CA	-6.97	1.37	1.46
1	A	59	GLY	N-CA	-6.97	1.35	1.45
1	F	152	ASP	N-CA	6.97	1.54	1.45
1	B	59	GLY	N-CA	-6.97	1.35	1.45
1	I	59	GLY	N-CA	-6.97	1.35	1.45
1	A	184	PRO	CA-CB	-6.96	1.43	1.53
1	F	59	GLY	N-CA	-6.96	1.35	1.45
1	E	334	TYR	N-CA	6.96	1.54	1.45
1	K	152	ASP	N-CA	6.96	1.54	1.45
1	D	184	PRO	CA-CB	-6.96	1.43	1.53
1	E	54	ILE	N-CA	-6.96	1.37	1.46
1	C	334	TYR	N-CA	6.95	1.54	1.45
1	I	152	ASP	N-CA	6.95	1.54	1.45
1	I	184	PRO	CA-CB	-6.94	1.44	1.53
1	C	184	PRO	CA-CB	-6.93	1.44	1.53
1	K	184	PRO	CA-CB	-6.93	1.44	1.53
1	A	334	TYR	N-CA	6.92	1.54	1.45
1	L	184	PRO	CA-CB	-6.92	1.44	1.53
1	J	59	GLY	N-CA	-6.91	1.35	1.45
1	G	184	PRO	CA-CB	-6.91	1.44	1.53
1	G	334	TYR	N-CA	6.90	1.54	1.45
1	C	59	GLY	N-CA	-6.90	1.35	1.45
1	B	184	PRO	CA-CB	-6.90	1.44	1.53
1	E	59	GLY	N-CA	-6.90	1.35	1.45
1	L	59	GLY	N-CA	-6.90	1.35	1.45
1	K	334	TYR	N-CA	6.88	1.54	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	334	TYR	N-CA	6.88	1.54	1.45
1	F	39	ASN	CA-CB	6.87	1.65	1.53
1	H	39	ASN	CA-CB	6.85	1.65	1.53
1	G	59	GLY	N-CA	-6.83	1.35	1.45
1	K	39	ASN	CA-CB	6.83	1.65	1.53
1	D	85	LEU	N-CA	6.82	1.54	1.46
1	A	152	ASP	N-CA	6.81	1.54	1.45
1	J	152	ASP	N-CA	6.80	1.54	1.45
1	I	39	ASN	CA-CB	6.80	1.65	1.53
1	C	39	ASN	CA-CB	6.79	1.65	1.53
1	B	39	ASN	CA-CB	6.79	1.65	1.53
1	E	152	ASP	N-CA	6.79	1.54	1.45
1	L	39	ASN	CA-CB	6.79	1.65	1.53
1	D	152	ASP	N-CA	6.79	1.54	1.45
1	H	152	ASP	N-CA	6.79	1.54	1.45
1	E	39	ASN	CA-CB	6.78	1.65	1.53
1	A	39	ASN	CA-CB	6.77	1.65	1.53
1	B	152	ASP	N-CA	6.76	1.54	1.45
1	K	59	GLY	N-CA	-6.75	1.35	1.45
1	L	152	ASP	N-CA	6.75	1.54	1.45
1	C	152	ASP	N-CA	6.74	1.54	1.45
1	G	39	ASN	CA-CB	6.74	1.64	1.53
1	J	24	THR	CA-CB	6.73	1.64	1.53
1	D	39	ASN	CA-CB	6.72	1.64	1.53
1	J	39	ASN	CA-CB	6.72	1.64	1.53
1	D	40	ALA	N-CA	6.72	1.54	1.46
1	J	85	LEU	N-CA	6.70	1.54	1.46
1	B	340	SER	N-CA	6.70	1.54	1.46
1	H	85	LEU	N-CA	6.69	1.54	1.46
1	G	152	ASP	N-CA	6.69	1.54	1.45
1	I	84	THR	N-CA	6.68	1.54	1.46
1	L	84	THR	N-CA	6.68	1.54	1.46
1	I	340	SER	N-CA	6.67	1.54	1.46
1	L	85	LEU	N-CA	6.67	1.54	1.46
1	C	340	SER	N-CA	6.67	1.54	1.46
1	J	84	THR	N-CA	6.67	1.54	1.46
1	E	40	ALA	N-CA	6.66	1.54	1.46
1	K	340	SER	N-CA	6.66	1.54	1.46
1	I	40	ALA	N-CA	6.66	1.54	1.46
1	B	24	THR	CA-CB	6.65	1.64	1.53
1	C	24	THR	CA-CB	6.64	1.64	1.53
1	K	24	THR	CA-CB	6.64	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	24	THR	CA-CB	6.63	1.64	1.53
1	K	84	THR	N-CA	6.63	1.54	1.46
1	A	85	LEU	N-CA	6.63	1.54	1.46
1	F	340	SER	N-CA	6.62	1.54	1.46
1	B	85	LEU	N-CA	6.62	1.54	1.46
1	I	21	PHE	N-CA	6.62	1.54	1.46
1	E	340	SER	N-CA	6.62	1.54	1.46
1	F	85	LEU	N-CA	6.62	1.54	1.46
1	J	227	THR	N-CA	6.60	1.54	1.46
1	A	340	SER	N-CA	6.60	1.54	1.46
1	D	340	SER	N-CA	6.60	1.54	1.46
1	G	340	SER	N-CA	6.60	1.54	1.46
1	H	278	GLY	N-CA	6.60	1.54	1.45
1	I	278	GLY	N-CA	6.60	1.54	1.45
1	J	340	SER	N-CA	6.60	1.54	1.46
1	F	24	THR	CA-CB	6.60	1.64	1.53
1	H	340	SER	N-CA	6.59	1.54	1.46
1	A	24	THR	CA-CB	6.59	1.64	1.53
1	C	84	THR	N-CA	6.59	1.54	1.46
1	C	85	LEU	N-CA	6.59	1.54	1.46
1	K	85	LEU	N-CA	6.59	1.54	1.46
1	L	132	PHE	N-CA	6.59	1.54	1.45
1	J	40	ALA	N-CA	6.58	1.54	1.46
1	E	85	LEU	N-CA	6.58	1.54	1.46
1	D	84	THR	N-CA	6.58	1.54	1.46
1	L	24	THR	CA-CB	6.58	1.64	1.53
1	A	21	PHE	N-CA	6.58	1.54	1.46
1	G	40	ALA	N-CA	6.58	1.54	1.46
1	C	40	ALA	N-CA	6.57	1.54	1.46
1	F	40	ALA	N-CA	6.57	1.54	1.46
1	H	84	THR	N-CA	6.57	1.54	1.46
1	E	84	THR	N-CA	6.56	1.54	1.46
1	A	40	ALA	N-CA	6.56	1.54	1.46
1	E	132	PHE	N-CA	6.56	1.54	1.45
1	A	84	THR	N-CA	6.56	1.54	1.46
1	G	85	LEU	N-CA	6.55	1.54	1.46
1	L	21	PHE	N-CA	6.55	1.54	1.46
1	G	84	THR	N-CA	6.55	1.54	1.46
1	B	40	ALA	N-CA	6.55	1.54	1.46
1	G	132	PHE	N-CA	6.55	1.54	1.45
1	F	132	PHE	N-CA	6.54	1.54	1.45
1	F	84	THR	N-CA	6.54	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	24	THR	CA-CB	6.54	1.64	1.53
1	J	132	PHE	N-CA	6.54	1.54	1.45
1	G	278	GLY	N-CA	6.54	1.54	1.45
1	E	24	THR	CA-CB	6.53	1.64	1.53
1	I	24	THR	CA-CB	6.53	1.64	1.53
1	B	132	PHE	N-CA	6.53	1.54	1.45
1	L	40	ALA	N-CA	6.53	1.54	1.46
1	E	278	GLY	N-CA	6.52	1.54	1.45
1	D	278	GLY	N-CA	6.52	1.54	1.45
1	L	340	SER	N-CA	6.52	1.54	1.46
1	H	24	THR	CA-CB	6.52	1.64	1.53
1	H	40	ALA	N-CA	6.52	1.54	1.46
1	L	54	ILE	CA-C	6.51	1.61	1.52
1	A	132	PHE	N-CA	6.51	1.54	1.45
1	I	85	LEU	N-CA	6.51	1.54	1.46
1	J	21	PHE	N-CA	6.51	1.54	1.46
1	K	278	GLY	N-CA	6.51	1.54	1.45
1	F	278	GLY	N-CA	6.50	1.54	1.45
1	B	88	ARG	CA-CB	-6.50	1.44	1.52
1	K	21	PHE	N-CA	6.50	1.54	1.46
1	C	21	PHE	N-CA	6.49	1.54	1.46
1	F	227	THR	N-CA	6.49	1.54	1.46
1	E	21	PHE	N-CA	6.48	1.54	1.46
1	B	21	PHE	N-CA	6.48	1.54	1.46
1	C	132	PHE	N-CA	6.48	1.54	1.45
1	D	21	PHE	N-CA	6.48	1.54	1.46
1	I	132	PHE	N-CA	6.48	1.54	1.45
1	K	132	PHE	N-CA	6.48	1.54	1.45
1	G	88	ARG	CA-CB	-6.48	1.44	1.52
1	C	227	THR	N-CA	6.48	1.54	1.46
1	C	278	GLY	N-CA	6.47	1.54	1.45
1	K	227	THR	N-CA	6.47	1.54	1.46
1	D	132	PHE	N-CA	6.47	1.54	1.45
1	A	278	GLY	N-CA	6.46	1.54	1.45
1	G	227	THR	N-CA	6.46	1.54	1.46
1	J	278	GLY	N-CA	6.46	1.54	1.45
1	B	278	GLY	N-CA	6.46	1.54	1.45
1	F	21	PHE	N-CA	6.46	1.54	1.46
1	L	278	GLY	N-CA	6.46	1.54	1.45
1	A	227	THR	N-CA	6.45	1.54	1.46
1	H	54	ILE	CA-C	6.44	1.60	1.52
1	B	227	THR	N-CA	6.44	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	227	THR	N-CA	6.44	1.54	1.46
1	H	21	PHE	N-CA	6.42	1.54	1.46
1	C	90	ASP	N-CA	6.42	1.53	1.46
1	A	88	ARG	CA-CB	-6.42	1.44	1.52
1	K	40	ALA	N-CA	6.42	1.54	1.46
1	G	21	PHE	N-CA	6.41	1.54	1.46
1	H	132	PHE	N-CA	6.41	1.53	1.45
1	F	88	ARG	CA-CB	-6.40	1.45	1.52
1	B	84	THR	N-CA	6.40	1.54	1.46
1	G	54	ILE	CA-C	6.40	1.60	1.52
1	H	227	THR	N-CA	6.39	1.53	1.46
1	I	54	ILE	CA-C	6.38	1.60	1.52
1	I	227	THR	N-CA	6.38	1.53	1.46
1	E	88	ARG	CA-CB	-6.37	1.45	1.52
1	E	227	THR	N-CA	6.37	1.53	1.46
1	D	88	ARG	CA-CB	-6.37	1.45	1.52
1	J	54	ILE	CA-C	6.37	1.60	1.52
1	E	54	ILE	CA-C	6.36	1.60	1.52
1	H	88	ARG	CA-CB	-6.35	1.45	1.52
1	F	54	ILE	CA-C	6.35	1.60	1.52
1	D	227	THR	N-CA	6.35	1.53	1.46
1	A	54	ILE	CA-C	6.33	1.60	1.52
1	D	54	ILE	CA-C	6.33	1.60	1.52
1	J	88	ARG	CA-CB	-6.33	1.45	1.52
1	L	88	ARG	CA-CB	-6.33	1.45	1.52
1	I	88	ARG	CA-CB	-6.32	1.45	1.52
1	K	54	ILE	CA-C	6.31	1.60	1.52
1	C	88	ARG	CA-CB	-6.29	1.45	1.52
1	C	127	GLY	N-CA	6.29	1.53	1.44
1	L	90	ASP	C-N	6.29	1.42	1.33
1	K	88	ARG	CA-CB	-6.28	1.45	1.52
1	K	90	ASP	N-CA	6.27	1.53	1.46
1	B	90	ASP	C-N	6.27	1.42	1.33
1	B	54	ILE	CA-C	6.27	1.60	1.52
1	C	54	ILE	CA-C	6.25	1.60	1.52
1	J	127	GLY	N-CA	6.25	1.53	1.44
1	D	91	ILE	C-O	6.24	1.31	1.24
1	K	127	GLY	N-CA	6.24	1.53	1.44
1	H	90	ASP	N-CA	6.23	1.53	1.46
1	C	90	ASP	C-N	6.23	1.42	1.33
1	F	90	ASP	N-CA	6.22	1.53	1.46
1	D	90	ASP	N-CA	6.21	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	228	MET	CA-CB	-6.21	1.43	1.53
1	C	228	MET	CA-CB	-6.20	1.43	1.53
1	H	228	MET	CA-CB	-6.20	1.43	1.53
1	D	127	GLY	N-CA	6.20	1.53	1.44
1	E	127	GLY	N-CA	6.20	1.53	1.44
1	G	90	ASP	C-N	6.20	1.42	1.33
1	A	127	GLY	N-CA	6.19	1.53	1.44
1	J	228	MET	CA-CB	-6.19	1.43	1.53
1	F	64	ASP	N-CA	6.18	1.54	1.46
1	I	91	ILE	C-O	6.18	1.31	1.24
1	K	64	ASP	N-CA	6.18	1.54	1.46
1	A	90	ASP	N-CA	6.18	1.53	1.46
1	E	90	ASP	C-N	6.18	1.42	1.33
1	G	90	ASP	N-CA	6.18	1.53	1.46
1	B	90	ASP	N-CA	6.18	1.53	1.46
1	I	127	GLY	N-CA	6.18	1.53	1.44
1	G	91	ILE	C-O	6.17	1.31	1.24
1	F	228	MET	CA-CB	-6.17	1.43	1.53
1	L	127	GLY	N-CA	6.17	1.53	1.44
1	A	91	ILE	C-O	6.16	1.31	1.24
1	E	90	ASP	N-CA	6.16	1.53	1.46
1	A	228	MET	CA-CB	-6.16	1.43	1.53
1	D	228	MET	CA-CB	-6.15	1.43	1.53
1	H	90	ASP	C-N	6.15	1.42	1.33
1	I	90	ASP	C-N	6.15	1.42	1.33
1	H	127	GLY	N-CA	6.14	1.53	1.44
1	D	90	ASP	C-N	6.14	1.42	1.33
1	A	64	ASP	N-CA	6.14	1.54	1.46
1	K	168	ASN	N-CA	-6.14	1.38	1.46
1	J	64	ASP	N-CA	6.13	1.54	1.46
1	A	90	ASP	C-N	6.13	1.42	1.33
1	F	127	GLY	N-CA	6.13	1.53	1.44
1	B	228	MET	CA-CB	-6.13	1.43	1.53
1	L	90	ASP	N-CA	6.13	1.53	1.46
1	L	228	MET	CA-CB	-6.13	1.43	1.53
1	G	228	MET	CA-CB	-6.12	1.43	1.53
1	L	91	ILE	C-O	6.12	1.31	1.24
1	E	228	MET	CA-CB	-6.11	1.43	1.53
1	J	90	ASP	C-N	6.11	1.42	1.33
1	J	90	ASP	N-CA	6.11	1.53	1.46
1	C	64	ASP	N-CA	6.11	1.54	1.46
1	H	315	THR	N-CA	-6.11	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	127	GLY	N-CA	6.11	1.53	1.44
1	E	64	ASP	N-CA	6.11	1.54	1.46
1	G	64	ASP	N-CA	6.11	1.54	1.46
1	H	64	ASP	N-CA	6.11	1.54	1.46
1	C	91	ILE	C-O	6.10	1.31	1.24
1	I	64	ASP	N-CA	6.10	1.54	1.46
1	C	277	ASN	C-O	6.10	1.28	1.23
1	E	91	ILE	C-O	6.09	1.31	1.24
1	F	91	ILE	C-O	6.09	1.31	1.24
1	H	91	ILE	C-O	6.09	1.31	1.24
1	E	168	ASN	N-CA	-6.09	1.38	1.46
1	C	39	ASN	C-O	6.09	1.31	1.24
1	L	64	ASP	N-CA	6.09	1.54	1.46
1	J	91	ILE	C-O	6.08	1.31	1.24
1	K	90	ASP	C-N	6.07	1.41	1.33
1	D	4	HIS	N-CA	-6.07	1.38	1.46
1	E	4	HIS	N-CA	-6.07	1.38	1.46
1	L	4	HIS	N-CA	-6.07	1.38	1.46
1	G	127	GLY	N-CA	6.07	1.53	1.44
1	B	91	ILE	C-O	6.07	1.31	1.24
1	K	91	ILE	C-O	6.06	1.31	1.24
1	B	4	HIS	N-CA	-6.06	1.38	1.46
1	G	89	CYS	C-N	-6.06	1.25	1.33
1	J	16	PHE	N-CA	6.05	1.53	1.46
1	K	228	MET	CA-CB	-6.05	1.43	1.53
1	D	64	ASP	N-CA	6.04	1.54	1.46
1	B	64	ASP	N-CA	6.04	1.54	1.46
1	G	168	ASN	N-CA	-6.03	1.38	1.46
1	D	315	THR	N-CA	-6.03	1.38	1.46
1	F	90	ASP	C-N	6.03	1.41	1.33
1	G	4	HIS	N-CA	-6.03	1.38	1.46
1	B	168	ASN	N-CA	-6.02	1.38	1.46
1	C	4	HIS	N-CA	-6.02	1.38	1.46
1	E	69	PRO	C-N	-6.01	1.26	1.33
1	K	4	HIS	N-CA	-6.01	1.38	1.46
1	B	315	THR	N-CA	-6.01	1.38	1.46
1	B	277	ASN	C-O	6.01	1.28	1.23
1	E	215	THR	CA-CB	6.01	1.63	1.53
1	I	90	ASP	N-CA	6.00	1.53	1.46
1	J	168	ASN	N-CA	-6.00	1.38	1.46
1	I	4	HIS	N-CA	-6.00	1.38	1.46
1	J	315	THR	N-CA	-5.99	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	4	HIS	N-CA	-5.99	1.38	1.46
1	C	89	CYS	C-N	-5.99	1.26	1.33
1	H	89	CYS	C-N	-5.99	1.26	1.33
1	E	437	GLU	CA-CB	5.99	1.63	1.53
1	H	168	ASN	N-CA	-5.99	1.38	1.46
1	A	315	THR	N-CA	-5.98	1.38	1.46
1	G	16	PHE	N-CA	5.98	1.53	1.46
1	E	277	ASN	C-O	5.98	1.28	1.23
1	F	277	ASN	C-O	5.98	1.28	1.23
1	G	315	THR	N-CA	-5.98	1.38	1.46
1	F	168	ASN	N-CA	-5.97	1.38	1.46
1	J	277	ASN	C-O	5.97	1.28	1.23
1	K	16	PHE	N-CA	5.97	1.53	1.46
1	B	215	THR	CA-CB	5.97	1.63	1.53
1	C	168	ASN	N-CA	-5.97	1.38	1.46
1	J	110	ARG	N-CA	5.97	1.53	1.46
1	A	168	ASN	N-CA	-5.96	1.38	1.46
1	J	215	THR	CA-CB	5.96	1.63	1.53
1	C	315	THR	N-CA	-5.96	1.38	1.46
1	D	168	ASN	N-CA	-5.96	1.38	1.46
1	E	315	THR	N-CA	-5.96	1.38	1.46
1	F	315	THR	N-CA	-5.96	1.38	1.46
1	F	110	ARG	N-CA	5.96	1.53	1.46
1	D	277	ASN	C-O	5.96	1.28	1.23
1	I	277	ASN	C-O	5.96	1.28	1.23
1	I	315	THR	N-CA	-5.96	1.38	1.46
1	L	407	ILE	CA-CB	5.96	1.61	1.54
1	K	89	CYS	C-N	-5.95	1.26	1.33
1	I	215	THR	CA-CB	5.95	1.63	1.53
1	D	16	PHE	N-CA	5.95	1.53	1.46
1	F	16	PHE	N-CA	5.95	1.53	1.46
1	F	437	GLU	CA-CB	5.95	1.63	1.53
1	H	4	HIS	N-CA	-5.94	1.38	1.46
1	A	437	GLU	CA-CB	5.94	1.63	1.53
1	K	277	ASN	C-O	5.94	1.28	1.23
1	A	4	HIS	N-CA	-5.94	1.38	1.46
1	L	69	PRO	C-N	-5.93	1.26	1.33
1	C	407	ILE	CA-CB	5.93	1.61	1.54
1	E	16	PHE	N-CA	5.93	1.53	1.46
1	G	437	GLU	CA-CB	5.93	1.63	1.53
1	L	16	PHE	N-CA	5.93	1.53	1.46
1	L	315	THR	N-CA	-5.93	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	39	ASN	C-O	5.93	1.31	1.24
1	C	437	GLU	CA-CB	5.93	1.63	1.53
1	K	215	THR	CA-CB	5.93	1.63	1.53
1	I	178	GLY	N-CA	5.93	1.53	1.45
1	D	215	THR	CA-CB	5.93	1.63	1.53
1	D	437	GLU	CA-CB	5.93	1.63	1.53
1	A	215	THR	CA-CB	5.92	1.63	1.53
1	C	110	ARG	N-CA	5.92	1.53	1.46
1	D	39	ASN	C-O	5.92	1.31	1.24
1	G	39	ASN	C-O	5.92	1.31	1.24
1	F	215	THR	CA-CB	5.92	1.63	1.53
1	L	168	ASN	N-CA	-5.92	1.38	1.46
1	G	215	THR	CA-CB	5.91	1.63	1.53
1	H	437	GLU	CA-CB	5.91	1.63	1.53
1	K	315	THR	N-CA	-5.91	1.38	1.46
1	L	277	ASN	C-O	5.91	1.28	1.23
1	L	39	ASN	C-O	5.91	1.31	1.24
1	I	437	GLU	CA-CB	5.91	1.63	1.53
1	C	16	PHE	N-CA	5.90	1.53	1.46
1	H	178	GLY	N-CA	5.90	1.53	1.45
1	L	89	CYS	C-N	-5.90	1.26	1.33
1	I	168	ASN	N-CA	-5.90	1.38	1.46
1	G	359	ARG	NE-CZ	-5.90	1.26	1.33
1	A	407	ILE	CA-CB	5.90	1.61	1.54
1	J	407	ILE	CA-CB	5.90	1.61	1.54
1	C	215	THR	CA-CB	5.89	1.63	1.53
1	H	215	THR	CA-CB	5.89	1.63	1.53
1	A	16	PHE	N-CA	5.88	1.53	1.46
1	A	89	CYS	C-N	-5.88	1.26	1.33
1	B	437	GLU	CA-CB	5.88	1.63	1.53
1	J	178	GLY	N-CA	5.88	1.53	1.45
1	L	437	GLU	CA-CB	5.88	1.63	1.53
1	A	39	ASN	C-O	5.88	1.31	1.24
1	E	89	CYS	C-N	-5.88	1.26	1.33
1	F	4	HIS	N-CA	-5.88	1.38	1.46
1	J	39	ASN	C-O	5.88	1.31	1.24
1	L	110	ARG	N-CA	5.88	1.53	1.46
1	L	359	ARG	NE-CZ	-5.88	1.26	1.33
1	D	110	ARG	N-CA	5.87	1.53	1.46
1	E	407	ILE	CA-CB	5.87	1.61	1.54
1	K	437	GLU	CA-CB	5.87	1.63	1.53
1	F	407	ILE	CA-CB	5.87	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	16	PHE	N-CA	5.87	1.53	1.46
1	E	39	ASN	C-O	5.87	1.31	1.24
1	B	16	PHE	N-CA	5.86	1.53	1.46
1	L	215	THR	CA-CB	5.86	1.63	1.53
1	E	359	ARG	NE-CZ	-5.86	1.26	1.33
1	B	178	GLY	N-CA	5.85	1.53	1.45
1	E	178	GLY	N-CA	5.85	1.53	1.45
1	G	178	GLY	N-CA	5.85	1.53	1.45
1	A	277	ASN	C-O	5.85	1.28	1.23
1	I	359	ARG	NE-CZ	-5.85	1.26	1.33
1	B	24	THR	N-CA	-5.85	1.38	1.46
1	G	407	ILE	CA-CB	5.85	1.61	1.54
1	H	39	ASN	C-O	5.85	1.31	1.24
1	B	407	ILE	CA-CB	5.84	1.61	1.54
1	J	437	GLU	CA-CB	5.84	1.63	1.53
1	H	277	ASN	C-O	5.84	1.28	1.23
1	K	407	ILE	CA-CB	5.83	1.61	1.54
1	E	110	ARG	N-CA	5.83	1.53	1.46
1	J	89	CYS	C-N	-5.83	1.26	1.33
1	K	39	ASN	C-O	5.83	1.31	1.24
1	A	178	GLY	N-CA	5.82	1.53	1.45
1	B	359	ARG	NE-CZ	-5.82	1.26	1.33
1	D	178	GLY	N-CA	5.82	1.53	1.45
1	I	39	ASN	C-O	5.82	1.31	1.24
1	A	359	ARG	NE-CZ	-5.82	1.26	1.33
1	I	89	CYS	C-N	-5.82	1.26	1.33
1	F	178	GLY	N-CA	5.82	1.53	1.45
1	I	16	PHE	N-CA	5.81	1.53	1.46
1	E	166	GLY	CA-C	5.81	1.59	1.51
1	G	277	ASN	C-O	5.81	1.28	1.23
1	B	110	ARG	N-CA	5.80	1.53	1.46
1	D	407	ILE	CA-CB	5.80	1.61	1.54
1	J	359	ARG	NE-CZ	-5.80	1.26	1.33
1	G	110	ARG	N-CA	5.80	1.53	1.46
1	F	89	CYS	C-N	-5.80	1.26	1.33
1	D	69	PRO	C-N	-5.79	1.27	1.33
1	D	89	CYS	C-N	-5.79	1.26	1.33
1	J	24	THR	N-CA	-5.79	1.38	1.46
1	H	256	MET	N-CA	5.79	1.54	1.45
1	C	178	GLY	N-CA	5.79	1.53	1.45
1	K	178	GLY	N-CA	5.79	1.53	1.45
1	H	110	ARG	N-CA	5.79	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	110	ARG	N-CA	5.79	1.53	1.46
1	B	89	CYS	C-N	-5.79	1.26	1.33
1	I	407	ILE	CA-CB	5.79	1.61	1.54
1	K	110	ARG	N-CA	5.78	1.53	1.46
1	H	407	ILE	CA-CB	5.77	1.61	1.54
1	C	359	ARG	NE-CZ	-5.77	1.26	1.33
1	F	39	ASN	C-O	5.76	1.31	1.24
1	E	154	ILE	C-N	-5.75	1.25	1.33
1	I	41	GLU	N-CA	5.75	1.53	1.46
1	D	41	GLU	N-CA	5.75	1.53	1.46
1	G	256	MET	N-CA	5.75	1.54	1.45
1	I	22	THR	CA-CB	5.75	1.61	1.53
1	J	256	MET	N-CA	5.73	1.53	1.45
1	F	154	ILE	C-N	-5.73	1.25	1.33
1	F	166	GLY	CA-C	5.73	1.59	1.51
1	D	359	ARG	NE-CZ	-5.72	1.26	1.33
1	B	22	THR	CA-CB	5.71	1.61	1.53
1	D	256	MET	N-CA	5.71	1.53	1.45
1	J	166	GLY	CA-C	5.71	1.59	1.51
1	L	70	ASP	N-CA	-5.71	1.40	1.46
1	J	41	GLU	N-CA	5.71	1.53	1.46
1	L	41	GLU	N-CA	5.71	1.53	1.46
1	C	48	MET	C-N	-5.70	1.28	1.33
1	L	178	GLY	N-CA	5.70	1.53	1.45
1	B	41	GLU	N-CA	5.70	1.53	1.46
1	E	41	GLU	N-CA	5.70	1.53	1.46
1	E	256	MET	N-CA	5.70	1.53	1.45
1	J	22	THR	CA-CB	5.70	1.61	1.53
1	D	24	THR	N-CA	-5.69	1.38	1.46
1	F	22	THR	CA-CB	5.69	1.61	1.53
1	A	256	MET	N-CA	5.69	1.53	1.45
1	C	24	THR	N-CA	-5.69	1.38	1.46
1	F	24	THR	N-CA	-5.69	1.38	1.46
1	H	24	THR	N-CA	-5.69	1.38	1.46
1	I	110	ARG	N-CA	5.69	1.53	1.46
1	A	166	GLY	CA-C	5.69	1.59	1.51
1	G	166	GLY	CA-C	5.69	1.59	1.51
1	H	41	GLU	N-CA	5.68	1.53	1.46
1	I	24	THR	N-CA	-5.68	1.38	1.46
1	B	166	GLY	CA-C	5.68	1.59	1.51
1	F	256	MET	N-CA	5.68	1.53	1.45
1	F	359	ARG	NE-CZ	-5.68	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	41	GLU	N-CA	5.68	1.53	1.46
1	L	166	GLY	CA-C	5.68	1.59	1.51
1	E	41	GLU	C-O	-5.67	1.16	1.24
1	I	86	ILE	CA-CB	5.67	1.62	1.54
1	A	41	GLU	N-CA	5.67	1.53	1.46
1	K	256	MET	N-CA	5.67	1.53	1.45
1	C	166	GLY	CA-C	5.66	1.59	1.51
1	D	166	GLY	CA-C	5.66	1.59	1.51
1	G	41	GLU	N-CA	5.66	1.53	1.46
1	A	22	THR	CA-CB	5.65	1.61	1.53
1	C	122	ASP	N-CA	-5.65	1.39	1.46
1	J	48	MET	C-N	-5.65	1.28	1.33
1	K	86	ILE	CA-CB	5.65	1.62	1.54
1	K	359	ARG	NE-CZ	-5.65	1.26	1.33
1	C	256	MET	N-CA	5.65	1.53	1.45
1	H	22	THR	CA-CB	5.65	1.61	1.53
1	E	22	THR	CA-CB	5.65	1.61	1.53
1	E	24	THR	N-CA	-5.65	1.39	1.46
1	L	256	MET	N-CA	5.65	1.53	1.45
1	A	24	THR	N-CA	-5.64	1.39	1.46
1	L	24	THR	N-CA	-5.64	1.39	1.46
1	L	154	ILE	C-N	-5.64	1.25	1.33
1	C	22	THR	CA-CB	5.64	1.61	1.53
1	F	86	ILE	CA-CB	5.64	1.62	1.54
1	K	24	THR	N-CA	-5.64	1.39	1.46
1	D	22	THR	CA-CB	5.63	1.61	1.53
1	G	22	THR	CA-CB	5.63	1.61	1.53
1	H	86	ILE	CA-CB	5.63	1.62	1.54
1	I	256	MET	N-CA	5.63	1.53	1.45
1	K	166	GLY	CA-C	5.63	1.59	1.51
1	A	154	ILE	C-N	-5.63	1.25	1.33
1	H	359	ARG	NE-CZ	-5.63	1.26	1.33
1	K	22	THR	CA-CB	5.63	1.61	1.53
1	D	93	GLU	CA-CB	5.63	1.62	1.53
1	F	93	GLU	CA-CB	5.62	1.62	1.53
1	C	41	GLU	C-O	-5.62	1.16	1.24
1	I	122	ASP	N-CA	-5.62	1.39	1.46
1	E	93	GLU	CA-CB	5.62	1.62	1.53
1	F	41	GLU	N-CA	5.62	1.53	1.46
1	I	166	GLY	CA-C	5.62	1.59	1.51
1	K	172	ARG	CA-CB	-5.62	1.46	1.54
1	L	223	THR	CA-CB	5.62	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	122	ASP	N-CA	-5.62	1.39	1.46
1	G	93	GLU	CA-CB	5.62	1.62	1.53
1	H	223	THR	CA-CB	5.62	1.63	1.53
1	I	172	ARG	CA-CB	-5.62	1.46	1.54
1	L	93	GLU	CA-CB	5.62	1.62	1.53
1	G	223	THR	CA-CB	5.61	1.63	1.53
1	K	154	ILE	C-N	-5.61	1.25	1.33
1	H	166	GLY	CA-C	5.61	1.59	1.51
1	J	154	ILE	C-N	-5.61	1.25	1.33
1	B	154	ILE	C-N	-5.60	1.25	1.33
1	B	256	MET	N-CA	5.60	1.53	1.45
1	L	22	THR	CA-CB	5.60	1.61	1.53
1	C	41	GLU	N-CA	5.60	1.53	1.46
1	E	86	ILE	CA-CB	5.60	1.62	1.54
1	H	93	GLU	CA-CB	5.60	1.62	1.53
1	L	122	ASP	N-CA	-5.60	1.39	1.46
1	A	172	ARG	CA-CB	-5.59	1.46	1.54
1	G	86	ILE	CA-CB	5.59	1.62	1.54
1	H	154	ILE	C-N	-5.59	1.25	1.33
1	I	93	GLU	CA-CB	5.59	1.62	1.53
1	J	86	ILE	CA-CB	5.58	1.62	1.54
1	C	154	ILE	C-N	-5.58	1.25	1.33
1	D	154	ILE	C-N	-5.58	1.25	1.33
1	H	172	ARG	CA-CB	-5.58	1.46	1.54
1	D	70	ASP	N-CA	-5.58	1.40	1.46
1	D	172	ARG	CA-CB	-5.58	1.46	1.54
1	G	24	THR	N-CA	-5.58	1.39	1.46
1	C	86	ILE	CA-CB	5.57	1.62	1.54
1	F	122	ASP	N-CA	-5.57	1.39	1.46
1	A	93	GLU	CA-CB	5.57	1.62	1.53
1	J	122	ASP	N-CA	-5.57	1.39	1.46
1	D	122	ASP	N-CA	-5.56	1.39	1.46
1	G	170	GLY	C-O	5.56	1.31	1.23
1	A	223	THR	CA-CB	5.56	1.63	1.53
1	C	172	ARG	CA-CB	-5.56	1.46	1.54
1	I	48	MET	C-N	-5.56	1.28	1.33
1	J	41	GLU	C-O	-5.56	1.17	1.24
1	K	399	LEU	CA-C	5.56	1.59	1.52
1	I	170	GLY	C-O	5.56	1.31	1.23
1	L	86	ILE	CA-CB	5.56	1.62	1.54
1	D	41	GLU	C-O	-5.56	1.17	1.24
1	F	223	THR	CA-CB	5.56	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	263	ASP	C-O	5.55	1.30	1.24
1	B	213	VAL	CA-C	-5.55	1.45	1.52
1	B	223	THR	CA-CB	5.55	1.63	1.53
1	F	399	LEU	CA-C	5.54	1.59	1.52
1	J	93	GLU	CA-CB	5.54	1.62	1.53
1	B	93	GLU	CA-CB	5.54	1.62	1.53
1	G	154	ILE	C-N	-5.54	1.25	1.33
1	C	213	VAL	CA-C	-5.54	1.45	1.52
1	D	86	ILE	CA-CB	5.54	1.61	1.54
1	J	172	ARG	CA-CB	-5.54	1.46	1.54
1	B	122	ASP	N-CA	-5.53	1.39	1.46
1	E	122	ASP	N-CA	-5.53	1.39	1.46
1	A	86	ILE	CA-CB	5.53	1.61	1.54
1	G	122	ASP	N-CA	-5.53	1.39	1.46
1	F	213	VAL	CA-C	-5.53	1.45	1.52
1	J	213	VAL	CA-C	-5.53	1.45	1.52
1	B	172	ARG	CA-CB	-5.52	1.46	1.54
1	C	223	THR	CA-CB	5.52	1.63	1.53
1	E	172	ARG	CA-CB	-5.52	1.46	1.54
1	K	41	GLU	C-O	-5.52	1.17	1.24
1	K	223	THR	CA-CB	5.52	1.63	1.53
1	C	181	PRO	CA-CB	-5.52	1.46	1.53
1	H	48	MET	C-N	-5.52	1.28	1.33
1	K	48	MET	C-N	-5.52	1.28	1.33
1	B	399	LEU	CA-C	5.51	1.59	1.52
1	A	48	MET	C-N	-5.51	1.28	1.33
1	C	93	GLU	CA-CB	5.51	1.62	1.53
1	D	48	MET	C-N	-5.51	1.28	1.33
1	I	41	GLU	C-O	-5.51	1.17	1.24
1	A	399	LEU	CA-C	5.51	1.59	1.52
1	F	181	PRO	CA-CB	-5.51	1.46	1.53
1	H	122	ASP	N-CA	-5.51	1.39	1.46
1	J	170	GLY	C-O	5.51	1.31	1.23
1	G	181	PRO	CA-CB	-5.50	1.46	1.53
1	I	154	ILE	C-N	-5.50	1.25	1.33
1	E	170	GLY	C-O	5.50	1.31	1.23
1	F	172	ARG	CA-CB	-5.50	1.46	1.54
1	C	170	GLY	C-O	5.50	1.31	1.23
1	L	172	ARG	CA-CB	-5.50	1.46	1.54
1	A	170	GLY	C-O	5.50	1.31	1.23
1	D	213	VAL	CA-C	-5.50	1.45	1.52
1	G	399	LEU	CA-C	5.50	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	86	ILE	CA-CB	5.50	1.61	1.54
1	K	122	ASP	N-CA	-5.49	1.39	1.46
1	D	223	THR	CA-CB	5.49	1.63	1.53
1	J	223	THR	CA-CB	5.49	1.63	1.53
1	B	170	GLY	C-O	5.49	1.31	1.23
1	D	181	PRO	CA-CB	-5.49	1.46	1.53
1	L	170	GLY	C-O	5.49	1.31	1.23
1	F	41	GLU	C-O	-5.48	1.17	1.24
1	G	172	ARG	CA-CB	-5.48	1.46	1.54
1	E	223	THR	CA-CB	5.48	1.63	1.53
1	G	48	MET	C-N	-5.48	1.28	1.33
1	H	213	VAL	CA-C	-5.48	1.45	1.52
1	I	223	THR	CA-CB	5.48	1.63	1.53
1	B	41	GLU	C-O	-5.48	1.17	1.24
1	F	263	ASP	C-O	5.48	1.30	1.24
1	E	399	LEU	CA-C	5.47	1.59	1.52
1	I	213	VAL	CA-C	-5.47	1.45	1.52
1	K	93	GLU	CA-CB	5.47	1.62	1.53
1	K	168	ASN	C-O	5.47	1.30	1.24
1	K	170	GLY	C-O	5.46	1.31	1.23
1	H	399	LEU	CA-C	5.46	1.59	1.52
1	A	41	GLU	C-O	-5.45	1.17	1.24
1	B	181	PRO	CA-CB	-5.45	1.46	1.53
1	I	181	PRO	CA-CB	-5.45	1.46	1.53
1	C	399	LEU	CA-C	5.45	1.59	1.52
1	H	41	GLU	C-O	-5.45	1.17	1.24
1	J	181	PRO	CA-CB	-5.45	1.46	1.53
1	L	41	GLU	C-O	-5.45	1.17	1.24
1	D	170	GLY	C-O	5.44	1.31	1.23
1	K	213	VAL	CA-C	-5.44	1.45	1.52
1	J	399	LEU	CA-C	5.44	1.59	1.52
1	E	70	ASP	N-CA	-5.43	1.40	1.46
1	A	213	VAL	CA-C	-5.43	1.45	1.52
1	G	263	ASP	C-O	5.43	1.30	1.24
1	H	263	ASP	C-O	5.43	1.30	1.24
1	D	168	ASN	C-O	5.42	1.30	1.24
1	F	170	GLY	C-O	5.42	1.31	1.23
1	G	41	GLU	C-O	-5.42	1.17	1.24
1	G	214	ALA	CA-C	-5.42	1.46	1.52
1	E	48	MET	C-N	-5.42	1.28	1.33
1	I	263	ASP	C-O	5.42	1.30	1.24
1	F	189	GLN	N-CA	-5.42	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	168	ASN	C-O	5.41	1.30	1.24
1	J	168	ASN	C-O	5.41	1.30	1.24
1	L	90	ASP	CA-CB	5.41	1.60	1.53
1	J	326	TYR	CA-C	5.41	1.60	1.52
1	J	263	ASP	C-O	5.41	1.30	1.24
1	B	48	MET	C-N	-5.40	1.28	1.33
1	I	399	LEU	CA-C	5.40	1.59	1.52
1	F	168	ASN	C-O	5.40	1.30	1.24
1	A	263	ASP	C-O	5.40	1.30	1.24
1	D	263	ASP	C-O	5.40	1.30	1.24
1	H	335	SER	C-O	5.40	1.30	1.24
1	K	263	ASP	C-O	5.40	1.30	1.24
1	B	263	ASP	C-O	5.40	1.30	1.24
1	H	181	PRO	CA-CB	-5.39	1.46	1.53
1	L	189	GLN	N-CA	-5.39	1.39	1.46
1	E	12	HIS	CA-C	-5.39	1.45	1.52
1	H	170	GLY	C-O	5.39	1.31	1.23
1	L	213	VAL	CA-C	-5.38	1.46	1.52
1	J	189	GLN	N-CA	-5.38	1.39	1.46
1	B	189	GLN	N-CA	-5.38	1.39	1.46
1	C	263	ASP	C-O	5.38	1.30	1.24
1	D	326	TYR	CA-C	5.38	1.59	1.52
1	H	12	HIS	CA-C	-5.38	1.45	1.52
1	A	181	PRO	CA-CB	-5.37	1.46	1.53
1	K	181	PRO	CA-CB	-5.37	1.46	1.53
1	L	168	ASN	C-O	5.37	1.30	1.24
1	L	399	LEU	CA-C	5.37	1.59	1.52
1	I	214	ALA	CA-C	-5.37	1.46	1.52
1	D	399	LEU	CA-C	5.37	1.59	1.52
1	F	326	TYR	CA-C	5.36	1.59	1.52
1	L	48	MET	C-N	-5.36	1.28	1.33
1	G	213	VAL	CA-C	-5.36	1.46	1.52
1	H	90	ASP	CA-CB	5.36	1.60	1.53
1	G	90	ASP	CA-CB	5.36	1.60	1.53
1	L	181	PRO	CA-CB	-5.36	1.46	1.53
1	H	88	ARG	NE-CZ	-5.35	1.27	1.33
1	A	90	ASP	CA-CB	5.35	1.60	1.53
1	A	168	ASN	C-O	5.35	1.30	1.24
1	E	62	GLU	CA-CB	-5.35	1.43	1.53
1	G	168	ASN	C-O	5.35	1.30	1.24
1	K	12	HIS	CA-C	-5.35	1.45	1.52
1	E	213	VAL	CA-C	-5.35	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	12	HIS	CA-C	-5.35	1.45	1.52
1	F	62	GLU	CA-CB	-5.35	1.43	1.53
1	K	189	GLN	N-CA	-5.35	1.39	1.46
1	E	263	ASP	C-O	5.34	1.30	1.24
1	G	12	HIS	CA-C	-5.34	1.45	1.52
1	A	189	GLN	N-CA	-5.34	1.39	1.46
1	D	90	ASP	CA-CB	5.34	1.60	1.53
1	I	90	ASP	CA-CB	5.34	1.60	1.53
1	I	189	GLN	N-CA	-5.34	1.39	1.46
1	B	168	ASN	C-O	5.34	1.30	1.24
1	G	326	TYR	CA-C	5.34	1.59	1.52
1	D	189	GLN	N-CA	-5.34	1.39	1.46
1	H	168	ASN	C-O	5.34	1.30	1.24
1	C	90	ASP	CA-CB	5.33	1.60	1.53
1	F	48	MET	C-N	-5.33	1.28	1.33
1	C	88	ARG	NE-CZ	-5.33	1.27	1.33
1	J	12	HIS	CA-C	-5.33	1.45	1.52
1	C	326	TYR	CA-C	5.33	1.59	1.52
1	B	13	GLU	N-CA	5.32	1.53	1.46
1	B	214	ALA	CA-C	-5.32	1.46	1.52
1	H	69	PRO	C-N	-5.32	1.26	1.33
1	I	326	TYR	CA-C	5.32	1.59	1.52
1	H	326	TYR	CA-C	5.32	1.59	1.52
1	L	12	HIS	CA-C	-5.32	1.45	1.52
1	C	189	GLN	N-CA	-5.32	1.39	1.46
1	E	189	GLN	N-CA	-5.31	1.39	1.46
1	G	189	GLN	N-CA	-5.31	1.39	1.46
1	E	181	PRO	CA-CB	-5.31	1.46	1.53
1	J	88	ARG	NE-CZ	-5.31	1.27	1.33
1	F	12	HIS	CA-C	-5.31	1.45	1.52
1	H	62	GLU	CA-CB	-5.30	1.43	1.53
1	I	168	ASN	C-O	5.30	1.30	1.24
1	A	88	ARG	NE-CZ	-5.30	1.27	1.33
1	E	90	ASP	CA-CB	5.30	1.60	1.53
1	D	88	ARG	NE-CZ	-5.29	1.27	1.33
1	K	326	TYR	CA-C	5.29	1.59	1.52
1	F	90	ASP	CA-CB	5.29	1.60	1.53
1	B	155	GLU	N-CA	5.29	1.53	1.46
1	F	214	ALA	CA-C	-5.29	1.46	1.52
1	K	214	ALA	CA-C	-5.29	1.46	1.52
1	A	12	HIS	CA-C	-5.29	1.45	1.52
1	D	12	HIS	CA-C	-5.29	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	69	PRO	C-N	-5.29	1.26	1.33
1	C	168	ASN	C-O	5.28	1.30	1.24
1	A	335	SER	C-O	5.28	1.30	1.24
1	G	335	SER	C-O	5.28	1.30	1.24
1	K	365	ALA	N-CA	5.28	1.52	1.45
1	B	326	TYR	CA-C	5.28	1.59	1.52
1	E	326	TYR	CA-C	5.28	1.59	1.52
1	E	335	SER	C-O	5.28	1.30	1.24
1	F	335	SER	C-O	5.28	1.30	1.24
1	K	90	ASP	CA-CB	5.28	1.60	1.53
1	B	62	GLU	CA-CB	-5.27	1.43	1.53
1	L	62	GLU	CA-CB	-5.27	1.43	1.53
1	A	326	TYR	CA-C	5.27	1.59	1.52
1	K	62	GLU	CA-CB	-5.27	1.43	1.53
1	C	69	PRO	C-N	-5.27	1.26	1.33
1	A	62	GLU	CA-CB	-5.26	1.43	1.53
1	J	155	GLU	N-CA	5.26	1.52	1.46
1	I	155	GLU	N-CA	5.26	1.52	1.46
1	G	359	ARG	CZ-NH2	5.26	1.40	1.33
1	L	335	SER	C-O	5.26	1.30	1.24
1	B	88	ARG	NE-CZ	-5.26	1.27	1.33
1	G	155	GLU	N-CA	5.26	1.52	1.46
1	E	365	ALA	N-CA	5.26	1.52	1.45
1	F	69	PRO	C-N	-5.26	1.26	1.33
1	G	62	GLU	CA-CB	-5.26	1.43	1.53
1	B	69	PRO	C-N	-5.25	1.26	1.33
1	H	155	GLU	N-CA	5.25	1.52	1.46
1	K	335	SER	C-O	5.25	1.30	1.24
1	J	335	SER	C-O	5.25	1.30	1.24
1	F	95	GLY	CA-C	5.25	1.57	1.51
1	L	365	ALA	N-CA	5.25	1.52	1.45
1	C	62	GLU	CA-CB	-5.24	1.43	1.53
1	D	155	GLU	N-CA	5.24	1.52	1.46
1	H	13	GLU	N-CA	5.24	1.52	1.46
1	I	88	ARG	NE-CZ	-5.24	1.27	1.33
1	D	335	SER	C-O	5.24	1.30	1.24
1	A	214	ALA	CA-C	-5.24	1.46	1.52
1	D	214	ALA	CA-C	-5.24	1.46	1.52
1	K	88	ARG	NE-CZ	-5.23	1.27	1.33
1	B	287	TYR	N-CA	-5.23	1.39	1.46
1	A	155	GLU	N-CA	5.23	1.52	1.46
1	E	88	ARG	NE-CZ	-5.23	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	189	GLN	N-CA	-5.23	1.39	1.46
1	D	327	GLU	CA-C	5.22	1.59	1.53
1	L	214	ALA	CA-C	-5.22	1.46	1.52
1	L	326	TYR	CA-C	5.22	1.59	1.52
1	A	69	PRO	C-N	-5.22	1.26	1.33
1	F	88	ARG	NE-CZ	-5.22	1.27	1.33
1	K	69	PRO	C-N	-5.22	1.26	1.33
1	D	62	GLU	CA-CB	-5.22	1.43	1.53
1	F	155	GLU	N-CA	5.22	1.52	1.46
1	B	90	ASP	CA-CB	5.21	1.60	1.53
1	B	335	SER	C-O	5.21	1.30	1.24
1	I	62	GLU	CA-CB	-5.21	1.43	1.53
1	J	90	ASP	CA-CB	5.21	1.60	1.53
1	J	287	TYR	N-CA	-5.20	1.39	1.46
1	K	327	GLU	CA-C	5.20	1.59	1.53
1	K	75	VAL	C-O	5.20	1.29	1.24
1	A	327	GLU	CA-C	5.20	1.59	1.53
1	A	365	ALA	N-CA	5.20	1.51	1.45
1	E	155	GLU	N-CA	5.20	1.52	1.46
1	F	365	ALA	N-CA	5.20	1.51	1.45
1	I	335	SER	C-O	5.20	1.30	1.24
1	E	214	ALA	CA-C	-5.20	1.46	1.52
1	F	13	GLU	N-CA	5.20	1.52	1.46
1	J	62	GLU	CA-CB	-5.20	1.43	1.53
1	J	69	PRO	C-N	-5.20	1.26	1.33
1	J	365	ALA	N-CA	5.20	1.51	1.45
1	G	279	THR	CB-OG1	5.19	1.52	1.43
1	J	359	ARG	CZ-NH2	5.19	1.40	1.33
1	H	214	ALA	CA-C	-5.19	1.46	1.52
1	C	365	ALA	N-CA	5.19	1.51	1.45
1	G	365	ALA	N-CA	5.19	1.51	1.45
1	A	359	ARG	CZ-NH2	5.18	1.40	1.33
1	B	279	THR	CB-OG1	5.18	1.52	1.43
1	C	327	GLU	CA-C	5.18	1.59	1.53
1	L	279	THR	CB-OG1	5.18	1.52	1.43
1	G	88	ARG	NE-CZ	-5.18	1.27	1.33
1	G	327	GLU	CA-C	5.18	1.59	1.53
1	I	13	GLU	N-CA	5.18	1.52	1.46
1	A	75	VAL	C-O	5.17	1.29	1.24
1	B	12	HIS	CA-C	-5.17	1.46	1.52
1	B	327	GLU	CA-C	5.17	1.59	1.53
1	L	327	GLU	CA-C	5.17	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	279	THR	CB-OG1	5.17	1.52	1.43
1	I	279	THR	CB-OG1	5.17	1.52	1.43
1	C	13	GLU	N-CA	5.17	1.52	1.46
1	C	214	ALA	CA-C	-5.17	1.46	1.52
1	F	287	TYR	N-CA	-5.17	1.39	1.46
1	L	13	GLU	N-CA	5.16	1.52	1.46
1	I	365	ALA	N-CA	5.16	1.51	1.45
1	C	155	GLU	N-CA	5.16	1.52	1.46
1	I	12	HIS	CA-C	-5.16	1.46	1.52
1	I	359	ARG	CZ-NH2	5.16	1.40	1.33
1	J	327	GLU	CA-C	5.16	1.59	1.53
1	K	155	GLU	N-CA	5.16	1.52	1.46
1	L	88	ARG	NE-CZ	-5.16	1.27	1.33
1	K	279	THR	CB-OG1	5.15	1.51	1.43
1	E	327	GLU	CA-C	5.15	1.59	1.53
1	F	327	GLU	CA-C	5.15	1.59	1.53
1	I	327	GLU	CA-C	5.15	1.59	1.53
1	D	287	TYR	N-CA	-5.15	1.39	1.46
1	A	287	TYR	N-CA	-5.14	1.39	1.46
1	L	155	GLU	N-CA	5.13	1.52	1.46
1	D	279	THR	CB-OG1	5.13	1.51	1.43
1	H	75	VAL	C-O	5.13	1.29	1.24
1	J	214	ALA	CA-C	-5.13	1.46	1.52
1	J	279	THR	CB-OG1	5.13	1.51	1.43
1	G	264	ASN	N-CA	5.13	1.52	1.46
1	A	279	THR	CB-OG1	5.12	1.51	1.43
1	H	327	GLU	CA-C	5.12	1.59	1.53
1	A	13	GLU	N-CA	5.12	1.52	1.46
1	K	287	TYR	N-CA	-5.12	1.39	1.46
1	I	69	PRO	C-N	-5.12	1.27	1.33
1	D	359	ARG	CZ-NH2	5.12	1.40	1.33
1	C	287	TYR	N-CA	-5.11	1.39	1.46
1	H	279	THR	CB-OG1	5.11	1.51	1.43
1	B	116	ARG	CD-NE	5.11	1.53	1.46
1	B	359	ARG	CZ-NH2	5.11	1.40	1.33
1	E	116	ARG	CD-NE	5.11	1.53	1.46
1	E	359	ARG	CZ-NH2	5.11	1.40	1.33
1	I	75	VAL	C-O	5.11	1.29	1.24
1	C	359	ARG	CZ-NH2	5.10	1.40	1.33
1	F	279	THR	CB-OG1	5.10	1.51	1.43
1	K	359	ARG	CZ-NH2	5.10	1.40	1.33
1	G	13	GLU	N-CA	5.10	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	75	VAL	C-O	5.10	1.29	1.24
1	D	13	GLU	N-CA	5.10	1.52	1.46
1	H	365	ALA	N-CA	5.09	1.51	1.45
1	B	95	GLY	CA-C	5.09	1.57	1.51
1	H	116	ARG	CD-NE	5.09	1.53	1.46
1	E	13	GLU	N-CA	5.09	1.52	1.46
1	H	359	ARG	CZ-NH2	5.09	1.40	1.33
1	I	50	ASP	CA-CB	5.09	1.60	1.53
1	D	264	ASN	N-CA	5.08	1.52	1.46
1	H	50	ASP	CA-CB	5.08	1.60	1.53
1	L	359	ARG	CZ-NH2	5.08	1.40	1.33
1	A	116	ARG	CD-NE	5.08	1.53	1.46
1	C	116	ARG	CD-NE	5.08	1.53	1.46
1	K	13	GLU	N-CA	5.08	1.52	1.46
1	K	116	ARG	CD-NE	5.08	1.53	1.46
1	D	365	ALA	N-CA	5.08	1.51	1.45
1	G	287	TYR	N-CA	-5.08	1.39	1.46
1	E	264	ASN	N-CA	5.07	1.52	1.46
1	J	13	GLU	N-CA	5.07	1.52	1.46
1	E	287	TYR	N-CA	-5.07	1.39	1.46
1	C	335	SER	C-O	5.07	1.30	1.24
1	B	365	ALA	N-CA	5.07	1.51	1.45
1	D	95	GLY	CA-C	5.07	1.57	1.51
1	F	116	ARG	CD-NE	5.06	1.53	1.46
1	L	116	ARG	CD-NE	5.06	1.53	1.46
1	B	75	VAL	C-O	5.05	1.29	1.24
1	E	95	GLY	CA-C	5.05	1.57	1.51
1	E	279	THR	CB-OG1	5.05	1.51	1.43
1	G	95	GLY	CA-C	5.05	1.57	1.51
1	C	75	VAL	C-O	5.05	1.29	1.24
1	F	359	ARG	CZ-NH2	5.04	1.40	1.33
1	F	73	THR	CA-CB	5.04	1.62	1.53
1	I	287	TYR	N-CA	-5.04	1.39	1.46
1	E	75	VAL	C-O	5.04	1.29	1.24
1	E	105	ARG	CA-CB	-5.04	1.45	1.53
1	F	75	VAL	C-O	5.04	1.29	1.24
1	E	50	ASP	CA-CB	5.04	1.60	1.53
1	K	50	ASP	CA-CB	5.04	1.60	1.53
1	K	95	GLY	CA-C	5.04	1.57	1.51
1	B	50	ASP	CA-CB	5.04	1.60	1.53
1	D	75	VAL	C-O	5.04	1.29	1.24
1	I	116	ARG	CD-NE	5.03	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	75	VAL	C-O	5.03	1.29	1.24
1	B	435	THR	CA-CB	5.03	1.61	1.53
1	D	50	ASP	CA-CB	5.03	1.60	1.53
1	L	95	GLY	CA-C	5.03	1.57	1.51
1	J	34	PRO	CA-CB	-5.02	1.47	1.53
1	A	34	PRO	CA-CB	-5.02	1.47	1.53
1	G	34	PRO	CA-CB	-5.02	1.47	1.53
1	J	264	ASN	N-CA	5.02	1.52	1.46
1	L	50	ASP	CA-CB	5.02	1.60	1.53
1	C	264	ASN	N-CA	5.01	1.52	1.46
1	H	264	ASN	N-CA	5.01	1.52	1.46
1	D	116	ARG	CD-NE	5.01	1.53	1.46
1	G	116	ARG	CD-NE	5.01	1.53	1.46
1	I	264	ASN	N-CA	5.01	1.52	1.46
1	J	116	ARG	CD-NE	5.01	1.53	1.46
1	G	435	THR	CA-CB	5.01	1.61	1.53
1	H	105	ARG	CA-CB	-5.01	1.45	1.53
1	K	335	SER	CA-C	-5.01	1.46	1.52
1	G	75	VAL	C-O	5.00	1.29	1.24
1	L	381	GLY	N-CA	5.00	1.52	1.45
1	E	34	PRO	CA-CB	-5.00	1.47	1.53
1	L	34	PRO	CA-CB	-5.00	1.47	1.53
1	L	264	ASN	N-CA	5.00	1.52	1.46

All (4431) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	88	ARG	CD-NE-CZ	27.75	163.25	124.40
1	B	88	ARG	CD-NE-CZ	27.73	163.23	124.40
1	G	88	ARG	CD-NE-CZ	27.73	163.22	124.40
1	J	88	ARG	CD-NE-CZ	27.71	163.20	124.40
1	F	88	ARG	CD-NE-CZ	27.70	163.18	124.40
1	A	88	ARG	CD-NE-CZ	27.66	163.13	124.40
1	H	88	ARG	CD-NE-CZ	27.65	163.12	124.40
1	L	88	ARG	CD-NE-CZ	27.65	163.11	124.40
1	C	88	ARG	CD-NE-CZ	27.64	163.10	124.40
1	I	88	ARG	CD-NE-CZ	27.64	163.10	124.40
1	K	88	ARG	CD-NE-CZ	27.63	163.08	124.40
1	D	88	ARG	CD-NE-CZ	27.62	163.07	124.40
1	E	359	ARG	CD-NE-CZ	24.98	159.38	124.40
1	F	359	ARG	CD-NE-CZ	24.92	159.28	124.40
1	G	359	ARG	CD-NE-CZ	24.92	159.28	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	359	ARG	CD-NE-CZ	24.91	159.28	124.40
1	D	359	ARG	CD-NE-CZ	24.91	159.27	124.40
1	J	359	ARG	CD-NE-CZ	24.90	159.26	124.40
1	L	359	ARG	CD-NE-CZ	24.89	159.24	124.40
1	C	359	ARG	CD-NE-CZ	24.88	159.23	124.40
1	A	359	ARG	CD-NE-CZ	24.88	159.23	124.40
1	I	359	ARG	CD-NE-CZ	24.87	159.22	124.40
1	K	359	ARG	CD-NE-CZ	24.82	159.14	124.40
1	H	359	ARG	CD-NE-CZ	24.81	159.14	124.40
1	G	77	ASP	CA-CB-CG	22.04	134.63	112.60
1	A	77	ASP	CA-CB-CG	22.02	134.62	112.60
1	C	77	ASP	CA-CB-CG	22.01	134.61	112.60
1	K	77	ASP	CA-CB-CG	22.00	134.60	112.60
1	D	77	ASP	CA-CB-CG	21.99	134.59	112.60
1	F	77	ASP	CA-CB-CG	21.97	134.57	112.60
1	B	77	ASP	CA-CB-CG	21.97	134.57	112.60
1	D	315	THR	N-CA-CB	21.97	147.61	110.49
1	H	77	ASP	CA-CB-CG	21.97	134.57	112.60
1	L	77	ASP	CA-CB-CG	21.96	134.56	112.60
1	A	315	THR	N-CA-CB	21.96	147.60	110.49
1	C	315	THR	N-CA-CB	21.95	147.59	110.49
1	L	315	THR	N-CA-CB	21.95	147.59	110.49
1	K	315	THR	N-CA-CB	21.94	147.57	110.49
1	G	315	THR	N-CA-CB	21.94	147.56	110.49
1	J	77	ASP	CA-CB-CG	21.94	134.54	112.60
1	J	315	THR	N-CA-CB	21.94	147.56	110.49
1	H	315	THR	N-CA-CB	21.93	147.56	110.49
1	E	77	ASP	CA-CB-CG	21.93	134.53	112.60
1	I	77	ASP	CA-CB-CG	21.93	134.53	112.60
1	F	315	THR	N-CA-CB	21.92	147.53	110.49
1	I	315	THR	N-CA-CB	21.91	147.53	110.49
1	E	315	THR	N-CA-CB	21.90	147.51	110.49
1	B	315	THR	N-CA-CB	21.87	147.46	110.49
1	L	183	PRO	N-CA-C	18.43	133.18	110.70
1	B	183	PRO	N-CA-C	18.41	133.16	110.70
1	F	183	PRO	N-CA-C	18.40	133.15	110.70
1	E	183	PRO	N-CA-C	18.38	133.13	110.70
1	J	183	PRO	N-CA-C	18.38	133.13	110.70
1	D	183	PRO	N-CA-C	18.37	133.11	110.70
1	H	183	PRO	N-CA-C	18.37	133.11	110.70
1	I	183	PRO	N-CA-C	18.36	133.09	110.70
1	A	183	PRO	N-CA-C	18.35	133.08	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	183	PRO	N-CA-C	18.33	133.06	110.70
1	C	183	PRO	N-CA-C	18.33	133.06	110.70
1	G	183	PRO	N-CA-C	18.31	133.04	110.70
1	I	21	PHE	CA-CB-CG	17.87	131.67	113.80
1	B	21	PHE	CA-CB-CG	17.86	131.66	113.80
1	G	21	PHE	CA-CB-CG	17.85	131.65	113.80
1	D	21	PHE	CA-CB-CG	17.85	131.65	113.80
1	E	21	PHE	CA-CB-CG	17.82	131.62	113.80
1	A	21	PHE	CA-CB-CG	17.80	131.60	113.80
1	J	21	PHE	CA-CB-CG	17.80	131.60	113.80
1	L	21	PHE	CA-CB-CG	17.80	131.60	113.80
1	C	21	PHE	CA-CB-CG	17.76	131.56	113.80
1	K	21	PHE	CA-CB-CG	17.74	131.54	113.80
1	F	21	PHE	CA-CB-CG	17.72	131.52	113.80
1	H	21	PHE	CA-CB-CG	17.71	131.51	113.80
1	B	122	ASP	CA-CB-CG	-15.89	96.71	112.60
1	D	122	ASP	CA-CB-CG	-15.88	96.72	112.60
1	G	122	ASP	CA-CB-CG	-15.85	96.75	112.60
1	I	122	ASP	CA-CB-CG	-15.85	96.75	112.60
1	J	122	ASP	CA-CB-CG	-15.84	96.76	112.60
1	L	69	PRO	CA-C-N	15.83	141.28	122.44
1	L	69	PRO	C-N-CA	15.83	141.28	122.44
1	F	122	ASP	CA-CB-CG	-15.82	96.78	112.60
1	H	122	ASP	CA-CB-CG	-15.82	96.78	112.60
1	C	122	ASP	CA-CB-CG	-15.82	96.78	112.60
1	A	122	ASP	CA-CB-CG	-15.81	96.79	112.60
1	D	69	PRO	CA-C-N	15.81	141.26	122.44
1	D	69	PRO	C-N-CA	15.81	141.26	122.44
1	E	69	PRO	CA-C-N	15.80	141.25	122.44
1	E	69	PRO	C-N-CA	15.80	141.25	122.44
1	L	122	ASP	CA-CB-CG	-15.80	96.80	112.60
1	K	122	ASP	CA-CB-CG	-15.78	96.82	112.60
1	E	122	ASP	CA-CB-CG	-15.73	96.87	112.60
1	K	53	SER	CA-C-N	15.04	149.03	121.97
1	K	53	SER	C-N-CA	15.04	149.03	121.97
1	F	53	SER	CA-C-N	15.01	148.99	121.97
1	F	53	SER	C-N-CA	15.01	148.99	121.97
1	J	53	SER	CA-C-N	15.01	148.99	121.97
1	J	53	SER	C-N-CA	15.01	148.99	121.97
1	C	53	SER	CA-C-N	15.00	148.97	121.97
1	C	53	SER	C-N-CA	15.00	148.97	121.97
1	H	397	TYR	CA-CB-CG	15.00	140.89	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	397	TYR	CA-CB-CG	14.99	140.89	113.90
1	D	397	TYR	CA-CB-CG	14.99	140.88	113.90
1	C	397	TYR	CA-CB-CG	14.98	140.87	113.90
1	I	397	TYR	CA-CB-CG	14.98	140.86	113.90
1	A	397	TYR	CA-CB-CG	14.97	140.85	113.90
1	F	397	TYR	CA-CB-CG	14.97	140.85	113.90
1	E	397	TYR	CA-CB-CG	14.97	140.85	113.90
1	I	53	SER	CA-C-N	14.97	148.91	121.97
1	I	53	SER	C-N-CA	14.97	148.91	121.97
1	J	397	TYR	CA-CB-CG	14.97	140.84	113.90
1	L	397	TYR	CA-CB-CG	14.96	140.83	113.90
1	G	397	TYR	CA-CB-CG	14.96	140.82	113.90
1	D	53	SER	CA-C-N	14.95	148.88	121.97
1	D	53	SER	C-N-CA	14.95	148.88	121.97
1	G	53	SER	CA-C-N	14.94	148.86	121.97
1	G	53	SER	C-N-CA	14.94	148.86	121.97
1	B	53	SER	CA-C-N	14.94	148.85	121.97
1	B	53	SER	C-N-CA	14.94	148.85	121.97
1	E	53	SER	CA-C-N	14.94	148.85	121.97
1	E	53	SER	C-N-CA	14.94	148.85	121.97
1	L	53	SER	CA-C-N	14.93	148.84	121.97
1	L	53	SER	C-N-CA	14.93	148.84	121.97
1	B	397	TYR	CA-CB-CG	14.92	140.76	113.90
1	H	53	SER	CA-C-N	14.92	148.83	121.97
1	H	53	SER	C-N-CA	14.92	148.83	121.97
1	A	53	SER	CA-C-N	14.91	148.81	121.97
1	A	53	SER	C-N-CA	14.91	148.81	121.97
1	G	100	TYR	CA-C-N	14.76	143.80	122.40
1	G	100	TYR	C-N-CA	14.76	143.80	122.40
1	J	100	TYR	CA-C-N	14.76	143.79	122.40
1	J	100	TYR	C-N-CA	14.76	143.79	122.40
1	A	100	TYR	CA-C-N	14.74	143.78	122.40
1	A	100	TYR	C-N-CA	14.74	143.78	122.40
1	E	100	TYR	CA-C-N	14.73	143.77	122.40
1	E	100	TYR	C-N-CA	14.73	143.77	122.40
1	I	100	TYR	CA-C-N	14.73	143.76	122.40
1	I	100	TYR	C-N-CA	14.73	143.76	122.40
1	F	100	TYR	CA-C-N	14.70	143.72	122.40
1	F	100	TYR	C-N-CA	14.70	143.72	122.40
1	D	100	TYR	CA-C-N	14.70	143.72	122.40
1	D	100	TYR	C-N-CA	14.70	143.72	122.40
1	C	100	TYR	CA-C-N	14.70	143.71	122.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	100	TYR	C-N-CA	14.70	143.71	122.40
1	L	100	TYR	CA-C-N	14.70	143.71	122.40
1	L	100	TYR	C-N-CA	14.70	143.71	122.40
1	K	100	TYR	CA-C-N	14.69	143.71	122.40
1	K	100	TYR	C-N-CA	14.69	143.71	122.40
1	B	100	TYR	CA-C-N	14.67	143.68	122.40
1	B	100	TYR	C-N-CA	14.67	143.68	122.40
1	H	100	TYR	CA-C-N	14.66	143.66	122.40
1	H	100	TYR	C-N-CA	14.66	143.66	122.40
1	K	233	ASP	CA-CB-CG	14.53	127.13	112.60
1	G	233	ASP	CA-CB-CG	14.48	127.08	112.60
1	F	233	ASP	CA-CB-CG	14.48	127.08	112.60
1	L	233	ASP	CA-CB-CG	14.47	127.08	112.60
1	D	233	ASP	CA-CB-CG	14.44	127.04	112.60
1	C	233	ASP	CA-CB-CG	14.44	127.04	112.60
1	H	233	ASP	CA-CB-CG	14.43	127.03	112.60
1	A	233	ASP	CA-CB-CG	14.42	127.02	112.60
1	B	233	ASP	CA-CB-CG	14.37	126.97	112.60
1	J	233	ASP	CA-CB-CG	14.36	126.96	112.60
1	E	233	ASP	CA-CB-CG	14.36	126.96	112.60
1	I	233	ASP	CA-CB-CG	14.35	126.95	112.60
1	E	90	ASP	CA-CB-CG	-14.30	98.30	112.60
1	G	90	ASP	CA-CB-CG	-14.30	98.30	112.60
1	H	90	ASP	CA-CB-CG	-14.27	98.33	112.60
1	F	90	ASP	CA-CB-CG	-14.22	98.38	112.60
1	A	90	ASP	CA-CB-CG	-14.22	98.38	112.60
1	I	90	ASP	CA-CB-CG	-14.22	98.38	112.60
1	B	90	ASP	CA-CB-CG	-14.21	98.39	112.60
1	L	90	ASP	CA-CB-CG	-14.20	98.40	112.60
1	C	90	ASP	CA-CB-CG	-14.18	98.42	112.60
1	J	90	ASP	CA-CB-CG	-14.17	98.43	112.60
1	K	100	TYR	CA-CB-CG	14.16	139.39	113.90
1	E	100	TYR	CA-CB-CG	14.16	139.39	113.90
1	D	90	ASP	CA-CB-CG	-14.15	98.45	112.60
1	K	90	ASP	CA-CB-CG	-14.15	98.45	112.60
1	D	100	TYR	CA-CB-CG	14.13	139.34	113.90
1	G	100	TYR	CA-CB-CG	14.13	139.34	113.90
1	I	100	TYR	CA-CB-CG	14.13	139.34	113.90
1	E	403	GLU	CB-CG-CD	14.13	136.61	112.60
1	C	403	GLU	CB-CG-CD	14.12	136.61	112.60
1	C	100	TYR	CA-CB-CG	14.12	139.31	113.90
1	J	403	GLU	CB-CG-CD	14.12	136.60	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	403	GLU	CB-CG-CD	14.11	136.59	112.60
1	J	100	TYR	CA-CB-CG	14.10	139.28	113.90
1	D	403	GLU	CB-CG-CD	14.09	136.56	112.60
1	A	100	TYR	CA-CB-CG	14.09	139.25	113.90
1	B	100	TYR	CA-CB-CG	14.09	139.25	113.90
1	L	100	TYR	CA-CB-CG	14.09	139.25	113.90
1	H	403	GLU	CB-CG-CD	14.08	136.54	112.60
1	I	403	GLU	CB-CG-CD	14.08	136.54	112.60
1	K	403	GLU	CB-CG-CD	14.08	136.54	112.60
1	A	403	GLU	CB-CG-CD	14.07	136.52	112.60
1	L	403	GLU	CB-CG-CD	14.07	136.51	112.60
1	F	100	TYR	CA-CB-CG	14.07	139.22	113.90
1	F	403	GLU	CB-CG-CD	14.05	136.48	112.60
1	H	100	TYR	CA-CB-CG	14.05	139.19	113.90
1	G	403	GLU	CB-CG-CD	14.04	136.47	112.60
1	C	366	ASN	O-C-N	14.02	133.81	121.20
1	J	366	ASN	O-C-N	13.96	133.76	121.20
1	A	366	ASN	O-C-N	13.96	133.76	121.20
1	E	366	ASN	O-C-N	13.91	133.72	121.20
1	G	366	ASN	O-C-N	13.90	133.71	121.20
1	K	366	ASN	O-C-N	13.73	133.95	121.18
1	D	366	ASN	O-C-N	13.71	133.93	121.18
1	I	366	ASN	O-C-N	13.67	133.90	121.18
1	L	366	ASN	O-C-N	13.64	133.86	121.18
1	F	366	ASN	O-C-N	13.63	133.86	121.18
1	J	152	ASP	CA-CB-CG	13.55	126.15	112.60
1	F	152	ASP	CA-CB-CG	13.55	126.15	112.60
1	C	152	ASP	CA-CB-CG	13.54	126.14	112.60
1	G	152	ASP	CA-CB-CG	13.54	126.14	112.60
1	B	366	ASN	O-C-N	13.51	133.74	121.18
1	H	366	ASN	O-C-N	13.49	133.73	121.18
1	A	152	ASP	CA-CB-CG	13.48	126.08	112.60
1	H	152	ASP	CA-CB-CG	13.48	126.08	112.60
1	I	152	ASP	CA-CB-CG	13.47	126.07	112.60
1	D	152	ASP	CA-CB-CG	13.46	126.06	112.60
1	E	152	ASP	CA-CB-CG	13.44	126.04	112.60
1	L	152	ASP	CA-CB-CG	13.43	126.03	112.60
1	K	152	ASP	CA-CB-CG	13.41	126.01	112.60
1	B	152	ASP	CA-CB-CG	13.41	126.01	112.60
1	F	69	PRO	CA-C-N	12.54	141.37	122.56
1	F	69	PRO	C-N-CA	12.54	141.37	122.56
1	B	27	LYS	CA-C-N	12.52	145.45	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	27	LYS	C-N-CA	12.52	145.45	121.54
1	G	27	LYS	CA-C-N	12.50	145.42	121.54
1	G	27	LYS	C-N-CA	12.50	145.42	121.54
1	H	69	PRO	CA-C-N	12.47	141.27	122.56
1	H	69	PRO	C-N-CA	12.47	141.27	122.56
1	I	69	PRO	CA-C-N	12.47	141.27	122.56
1	I	69	PRO	C-N-CA	12.47	141.27	122.56
1	F	27	LYS	CA-C-N	12.47	145.36	121.54
1	F	27	LYS	C-N-CA	12.47	145.36	121.54
1	I	27	LYS	CA-C-N	12.46	145.35	121.54
1	I	27	LYS	C-N-CA	12.46	145.35	121.54
1	J	27	LYS	CA-C-N	12.46	145.34	121.54
1	J	27	LYS	C-N-CA	12.46	145.34	121.54
1	A	69	PRO	CA-C-N	12.45	141.24	122.56
1	A	69	PRO	C-N-CA	12.45	141.24	122.56
1	C	27	LYS	CA-C-N	12.45	145.32	121.54
1	C	27	LYS	C-N-CA	12.45	145.32	121.54
1	A	27	LYS	CA-C-N	12.45	145.31	121.54
1	A	27	LYS	C-N-CA	12.45	145.31	121.54
1	D	27	LYS	CA-C-N	12.45	145.31	121.54
1	D	27	LYS	C-N-CA	12.45	145.31	121.54
1	L	27	LYS	CA-C-N	12.44	145.31	121.54
1	L	27	LYS	C-N-CA	12.44	145.31	121.54
1	K	27	LYS	CA-C-N	12.44	145.31	121.54
1	K	27	LYS	C-N-CA	12.44	145.31	121.54
1	C	69	PRO	CA-C-N	12.44	141.22	122.56
1	C	69	PRO	C-N-CA	12.44	141.22	122.56
1	J	69	PRO	CA-C-N	12.44	141.22	122.56
1	J	69	PRO	C-N-CA	12.44	141.22	122.56
1	K	69	PRO	CA-C-N	12.44	141.22	122.56
1	K	69	PRO	C-N-CA	12.44	141.22	122.56
1	B	69	PRO	CA-C-N	12.43	141.21	122.56
1	B	69	PRO	C-N-CA	12.43	141.21	122.56
1	G	69	PRO	CA-C-N	12.43	141.21	122.56
1	G	69	PRO	C-N-CA	12.43	141.21	122.56
1	E	27	LYS	CA-C-N	12.43	145.27	121.54
1	E	27	LYS	C-N-CA	12.43	145.27	121.54
1	H	27	LYS	CA-C-N	12.40	145.23	121.54
1	H	27	LYS	C-N-CA	12.40	145.23	121.54
1	G	77	ASP	CB-CA-C	12.29	134.39	110.17
1	L	77	ASP	CB-CA-C	12.28	134.35	110.17
1	C	77	ASP	CB-CA-C	12.26	134.32	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	77	ASP	CB-CA-C	12.26	134.32	110.17
1	D	77	ASP	CB-CA-C	12.26	134.32	110.17
1	F	77	ASP	CB-CA-C	12.24	134.29	110.17
1	H	77	ASP	CB-CA-C	12.24	134.29	110.17
1	B	77	ASP	CB-CA-C	12.24	134.28	110.17
1	I	77	ASP	CB-CA-C	12.24	134.28	110.17
1	A	77	ASP	CB-CA-C	12.24	134.28	110.17
1	E	77	ASP	CB-CA-C	12.22	134.25	110.17
1	H	419	ASN	CA-CB-CG	-12.21	100.39	112.60
1	J	77	ASP	CB-CA-C	12.20	134.21	110.17
1	C	419	ASN	CA-CB-CG	-12.16	100.44	112.60
1	D	419	ASN	CA-CB-CG	-12.13	100.47	112.60
1	E	419	ASN	CA-CB-CG	-12.13	100.47	112.60
1	F	419	ASN	CA-CB-CG	-12.13	100.47	112.60
1	K	419	ASN	CA-CB-CG	-12.13	100.47	112.60
1	I	419	ASN	CA-CB-CG	-12.10	100.50	112.60
1	B	419	ASN	CA-CB-CG	-12.09	100.51	112.60
1	G	419	ASN	CA-CB-CG	-12.08	100.52	112.60
1	A	419	ASN	CA-CB-CG	-12.07	100.53	112.60
1	J	419	ASN	CA-CB-CG	-12.05	100.55	112.60
1	L	419	ASN	CA-CB-CG	-12.04	100.56	112.60
1	F	155	GLU	CB-CG-CD	12.00	133.01	112.60
1	G	155	GLU	CB-CG-CD	11.99	132.98	112.60
1	I	155	GLU	CB-CG-CD	11.97	132.96	112.60
1	J	155	GLU	CB-CG-CD	11.97	132.94	112.60
1	A	155	GLU	CB-CG-CD	11.97	132.94	112.60
1	K	155	GLU	CB-CG-CD	11.96	132.94	112.60
1	D	155	GLU	CB-CG-CD	11.96	132.93	112.60
1	E	155	GLU	CB-CG-CD	11.96	132.93	112.60
1	L	155	GLU	CB-CG-CD	11.96	132.93	112.60
1	B	155	GLU	CB-CG-CD	11.94	132.90	112.60
1	H	155	GLU	CB-CG-CD	11.93	132.88	112.60
1	C	155	GLU	CB-CG-CD	11.93	132.87	112.60
1	J	60	ILE	N-CA-CB	11.92	126.34	112.40
1	C	60	ILE	N-CA-CB	11.91	126.34	112.40
1	K	60	ILE	N-CA-CB	11.87	126.29	112.40
1	A	60	ILE	N-CA-CB	11.87	126.29	112.40
1	G	60	ILE	N-CA-CB	11.87	126.28	112.40
1	D	60	ILE	N-CA-CB	11.86	126.27	112.40
1	H	60	ILE	N-CA-CB	11.85	126.27	112.40
1	F	60	ILE	N-CA-CB	11.80	126.20	112.40
1	B	60	ILE	N-CA-CB	11.80	126.20	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	60	ILE	N-CA-CB	11.77	126.17	112.40
1	E	60	ILE	N-CA-CB	11.76	126.16	112.40
1	L	60	ILE	N-CA-CB	11.74	126.14	112.40
1	J	166	GLY	N-CA-C	-11.44	99.34	113.99
1	B	166	GLY	N-CA-C	-11.43	99.36	113.99
1	F	166	GLY	N-CA-C	-11.42	99.38	113.99
1	E	100	TYR	N-CA-CB	11.40	127.53	109.51
1	G	166	GLY	N-CA-C	-11.40	99.40	113.99
1	C	166	GLY	N-CA-C	-11.40	99.40	113.99
1	E	166	GLY	N-CA-C	-11.40	99.40	113.99
1	D	166	GLY	N-CA-C	-11.40	99.40	113.99
1	A	166	GLY	N-CA-C	-11.39	99.41	113.99
1	C	100	TYR	N-CA-CB	11.39	127.50	109.51
1	L	166	GLY	N-CA-C	-11.39	99.41	113.99
1	H	166	GLY	N-CA-C	-11.38	99.42	113.99
1	I	100	TYR	N-CA-CB	11.38	127.48	109.51
1	I	166	GLY	N-CA-C	-11.38	99.43	113.99
1	K	166	GLY	N-CA-C	-11.38	99.43	113.99
1	J	100	TYR	N-CA-CB	11.36	127.45	109.51
1	K	100	TYR	N-CA-CB	11.35	127.44	109.51
1	H	100	TYR	N-CA-CB	11.34	127.42	109.51
1	F	100	TYR	N-CA-CB	11.32	127.40	109.51
1	D	100	TYR	N-CA-CB	11.32	127.40	109.51
1	A	100	TYR	N-CA-CB	11.32	127.39	109.51
1	G	100	TYR	N-CA-CB	11.31	127.38	109.51
1	B	100	TYR	N-CA-CB	11.30	127.36	109.51
1	L	100	TYR	N-CA-CB	11.27	127.32	109.51
1	B	4	HIS	CA-CB-CG	-11.15	102.64	113.80
1	H	4	HIS	CA-CB-CG	-11.15	102.65	113.80
1	G	4	HIS	CA-CB-CG	-11.15	102.65	113.80
1	K	4	HIS	CA-CB-CG	-11.14	102.66	113.80
1	D	4	HIS	CA-CB-CG	-11.13	102.67	113.80
1	F	4	HIS	CA-CB-CG	-11.12	102.67	113.80
1	A	4	HIS	CA-CB-CG	-11.12	102.68	113.80
1	B	182	VAL	CA-C-O	11.12	129.54	119.76
1	C	379	LEU	CB-CA-C	11.12	131.04	110.70
1	C	4	HIS	CA-CB-CG	-11.11	102.69	113.80
1	I	4	HIS	CA-CB-CG	-11.11	102.69	113.80
1	H	379	LEU	CB-CA-C	11.10	131.01	110.70
1	J	4	HIS	CA-CB-CG	-11.10	102.70	113.80
1	D	379	LEU	CB-CA-C	11.10	131.00	110.70
1	E	4	HIS	CA-CB-CG	-11.09	102.71	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	182	VAL	CA-C-O	11.09	129.52	119.76
1	H	182	VAL	CA-C-O	11.08	129.51	119.76
1	E	182	VAL	CA-C-O	11.07	129.50	119.76
1	A	182	VAL	CA-C-O	11.06	129.50	119.76
1	C	182	VAL	CA-C-O	11.06	129.50	119.76
1	G	182	VAL	CA-C-O	11.06	129.50	119.76
1	D	182	VAL	CA-C-O	11.06	129.50	119.76
1	L	182	VAL	CA-C-O	11.06	129.50	119.76
1	G	379	LEU	CB-CA-C	11.06	130.93	110.70
1	L	379	LEU	CB-CA-C	11.05	130.92	110.70
1	A	379	LEU	CB-CA-C	11.04	130.90	110.70
1	L	4	HIS	CA-CB-CG	-11.03	102.77	113.80
1	B	379	LEU	CB-CA-C	11.03	130.88	110.70
1	I	379	LEU	CB-CA-C	11.03	130.88	110.70
1	J	379	LEU	CB-CA-C	11.03	130.88	110.70
1	E	379	LEU	CB-CA-C	11.02	130.87	110.70
1	F	379	LEU	CB-CA-C	11.02	130.86	110.70
1	K	379	LEU	CB-CA-C	11.02	130.86	110.70
1	F	182	VAL	CA-C-O	11.01	129.45	119.76
1	J	188	ALA	CA-C-N	10.93	142.42	121.54
1	J	188	ALA	C-N-CA	10.93	142.42	121.54
1	G	188	ALA	CA-C-N	10.93	142.41	121.54
1	G	188	ALA	C-N-CA	10.93	142.41	121.54
1	B	135	PHE	CA-CB-CG	10.92	124.72	113.80
1	H	135	PHE	CA-CB-CG	10.92	124.72	113.80
1	J	182	VAL	CA-C-O	10.92	129.37	119.76
1	B	188	ALA	CA-C-N	10.91	142.38	121.54
1	B	188	ALA	C-N-CA	10.91	142.38	121.54
1	A	188	ALA	CA-C-N	10.91	142.37	121.54
1	A	188	ALA	C-N-CA	10.91	142.37	121.54
1	E	188	ALA	CA-C-N	10.90	142.37	121.54
1	E	188	ALA	C-N-CA	10.90	142.37	121.54
1	E	135	PHE	CA-CB-CG	10.89	124.69	113.80
1	L	135	PHE	CA-CB-CG	10.89	124.69	113.80
1	K	188	ALA	CA-C-N	10.89	142.33	121.54
1	K	188	ALA	C-N-CA	10.89	142.33	121.54
1	D	188	ALA	CA-C-N	10.88	142.33	121.54
1	D	188	ALA	C-N-CA	10.88	142.33	121.54
1	L	188	ALA	CA-C-N	10.89	142.33	121.54
1	L	188	ALA	C-N-CA	10.89	142.33	121.54
1	J	135	PHE	CA-CB-CG	10.88	124.68	113.80
1	C	188	ALA	CA-C-N	10.88	142.33	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	188	ALA	C-N-CA	10.88	142.33	121.54
1	H	188	ALA	CA-C-N	10.88	142.31	121.54
1	H	188	ALA	C-N-CA	10.88	142.31	121.54
1	F	188	ALA	CA-C-N	10.87	142.30	121.54
1	F	188	ALA	C-N-CA	10.87	142.30	121.54
1	I	182	VAL	CA-C-O	10.87	129.32	119.76
1	I	188	ALA	CA-C-N	10.86	142.28	121.54
1	I	188	ALA	C-N-CA	10.86	142.28	121.54
1	I	135	PHE	CA-CB-CG	10.85	124.65	113.80
1	G	135	PHE	CA-CB-CG	10.84	124.64	113.80
1	A	135	PHE	CA-CB-CG	10.84	124.64	113.80
1	K	135	PHE	CA-CB-CG	10.83	124.63	113.80
1	D	135	PHE	CA-CB-CG	10.82	124.62	113.80
1	C	135	PHE	CA-CB-CG	10.81	124.61	113.80
1	F	135	PHE	CA-CB-CG	10.81	124.61	113.80
1	E	133	PHE	CA-CB-CG	10.60	124.40	113.80
1	K	133	PHE	CA-CB-CG	10.60	124.40	113.80
1	B	133	PHE	CA-CB-CG	10.58	124.38	113.80
1	L	133	PHE	CA-CB-CG	10.57	124.37	113.80
1	C	133	PHE	CA-CB-CG	10.56	124.36	113.80
1	A	133	PHE	CA-CB-CG	10.55	124.35	113.80
1	D	90	ASP	CA-C-N	-10.54	103.00	121.97
1	D	90	ASP	C-N-CA	-10.54	103.00	121.97
1	J	133	PHE	CA-CB-CG	10.53	124.33	113.80
1	F	133	PHE	CA-CB-CG	10.53	124.33	113.80
1	I	90	ASP	CA-C-N	-10.53	103.02	121.97
1	I	90	ASP	C-N-CA	-10.53	103.02	121.97
1	B	90	ASP	CA-C-N	-10.51	103.05	121.97
1	B	90	ASP	C-N-CA	-10.51	103.05	121.97
1	G	366	ASN	N-CA-CB	10.51	129.02	109.37
1	C	90	ASP	CA-C-N	-10.51	103.06	121.97
1	C	90	ASP	C-N-CA	-10.51	103.06	121.97
1	D	133	PHE	CA-CB-CG	10.50	124.30	113.80
1	E	90	ASP	CA-C-N	-10.50	103.06	121.97
1	E	90	ASP	C-N-CA	-10.50	103.06	121.97
1	G	133	PHE	CA-CB-CG	10.50	124.30	113.80
1	J	90	ASP	CA-C-N	-10.50	103.07	121.97
1	J	90	ASP	C-N-CA	-10.50	103.07	121.97
1	C	366	ASN	N-CA-CB	10.50	129.01	109.37
1	A	90	ASP	CA-C-N	-10.49	103.08	121.97
1	A	90	ASP	C-N-CA	-10.49	103.08	121.97
1	H	90	ASP	CA-C-N	-10.49	103.08	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	90	ASP	C-N-CA	-10.49	103.08	121.97
1	H	133	PHE	CA-CB-CG	10.49	124.29	113.80
1	L	90	ASP	CA-C-N	-10.48	103.11	121.97
1	L	90	ASP	C-N-CA	-10.48	103.11	121.97
1	F	90	ASP	CA-C-N	-10.47	103.13	121.97
1	F	90	ASP	C-N-CA	-10.47	103.13	121.97
1	E	366	ASN	N-CA-CB	10.46	128.94	109.37
1	K	90	ASP	CA-C-N	-10.46	103.14	121.97
1	K	90	ASP	C-N-CA	-10.46	103.14	121.97
1	J	366	ASN	N-CA-CB	10.46	128.92	109.37
1	G	90	ASP	CA-C-N	-10.45	103.15	121.97
1	G	90	ASP	C-N-CA	-10.45	103.15	121.97
1	A	366	ASN	N-CA-CB	10.45	128.92	109.37
1	I	133	PHE	CA-CB-CG	10.44	124.24	113.80
1	K	366	ASN	N-CA-CB	10.21	128.95	109.44
1	L	366	ASN	N-CA-CB	10.21	128.95	109.44
1	B	366	ASN	N-CA-CB	10.20	128.91	109.44
1	D	366	ASN	N-CA-CB	10.19	128.91	109.44
1	I	366	ASN	N-CA-CB	10.18	128.87	109.44
1	H	366	ASN	N-CA-CB	10.17	128.87	109.44
1	F	366	ASN	N-CA-CB	10.17	128.86	109.44
1	B	360	PHE	CA-CB-CG	10.07	123.87	113.80
1	K	41	GLU	N-CA-C	-10.07	89.35	110.80
1	J	360	PHE	CA-CB-CG	10.06	123.86	113.80
1	L	360	PHE	CA-CB-CG	10.05	123.85	113.80
1	A	360	PHE	CA-CB-CG	10.03	123.83	113.80
1	G	41	GLU	N-CA-C	-10.03	89.45	110.80
1	G	360	PHE	CA-CB-CG	10.02	123.82	113.80
1	I	41	GLU	N-CA-C	-10.02	89.46	110.80
1	I	360	PHE	CA-CB-CG	10.02	123.82	113.80
1	A	41	GLU	N-CA-C	-10.01	89.47	110.80
1	D	360	PHE	CA-CB-CG	10.01	123.81	113.80
1	E	41	GLU	N-CA-C	-10.01	89.48	110.80
1	J	41	GLU	N-CA-C	-10.01	89.48	110.80
1	L	41	GLU	N-CA-C	-10.01	89.48	110.80
1	D	41	GLU	N-CA-C	-10.00	89.50	110.80
1	C	41	GLU	N-CA-C	-9.99	89.51	110.80
1	F	41	GLU	N-CA-C	-9.99	89.51	110.80
1	C	360	PHE	CA-CB-CG	9.99	123.79	113.80
1	E	360	PHE	CA-CB-CG	9.99	123.79	113.80
1	B	41	GLU	N-CA-C	-9.98	89.55	110.80
1	H	41	GLU	N-CA-C	-9.97	89.57	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	360	PHE	CA-CB-CG	9.96	123.76	113.80
1	K	360	PHE	CA-CB-CG	9.96	123.76	113.80
1	H	360	PHE	CA-CB-CG	9.95	123.75	113.80
1	E	404	ALA	N-CA-C	-9.86	100.37	111.71
1	L	404	ALA	N-CA-C	-9.83	100.41	111.71
1	H	78	PRO	CA-C-N	9.81	140.28	121.54
1	H	78	PRO	C-N-CA	9.81	140.28	121.54
1	B	78	PRO	CA-C-N	9.79	140.24	121.54
1	B	78	PRO	C-N-CA	9.79	140.24	121.54
1	F	404	ALA	N-CA-C	-9.77	100.48	111.71
1	I	404	ALA	N-CA-C	-9.77	100.48	111.71
1	H	404	ALA	N-CA-C	-9.76	100.49	111.71
1	A	404	ALA	N-CA-C	-9.75	100.50	111.71
1	B	404	ALA	N-CA-C	-9.75	100.50	111.71
1	G	404	ALA	N-CA-C	-9.75	100.50	111.71
1	A	78	PRO	CA-C-N	9.75	140.16	121.54
1	A	78	PRO	C-N-CA	9.75	140.16	121.54
1	G	78	PRO	CA-C-N	9.74	140.15	121.54
1	G	78	PRO	C-N-CA	9.74	140.15	121.54
1	D	404	ALA	N-CA-C	-9.74	100.50	111.71
1	F	78	PRO	CA-C-N	9.74	140.14	121.54
1	F	78	PRO	C-N-CA	9.74	140.14	121.54
1	J	404	ALA	N-CA-C	-9.74	100.51	111.71
1	C	404	ALA	N-CA-C	-9.73	100.52	111.71
1	L	78	PRO	CA-C-N	9.73	140.13	121.54
1	L	78	PRO	C-N-CA	9.73	140.13	121.54
1	K	78	PRO	CA-C-N	9.72	140.11	121.54
1	K	78	PRO	C-N-CA	9.72	140.11	121.54
1	D	78	PRO	CA-C-N	9.72	140.11	121.54
1	D	78	PRO	C-N-CA	9.72	140.11	121.54
1	L	17	VAL	N-CA-CB	-9.72	95.19	111.23
1	J	78	PRO	CA-C-N	9.71	140.10	121.54
1	J	78	PRO	C-N-CA	9.71	140.10	121.54
1	F	17	VAL	N-CA-CB	-9.71	95.21	111.23
1	K	404	ALA	N-CA-C	-9.71	100.54	111.71
1	C	78	PRO	CA-C-N	9.70	140.07	121.54
1	C	78	PRO	C-N-CA	9.70	140.07	121.54
1	G	17	VAL	N-CA-CB	-9.70	95.22	111.23
1	I	78	PRO	CA-C-N	9.70	140.07	121.54
1	I	78	PRO	C-N-CA	9.70	140.07	121.54
1	A	17	VAL	N-CA-CB	-9.70	95.23	111.23
1	E	78	PRO	CA-C-N	9.69	140.04	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	78	PRO	C-N-CA	9.69	140.04	121.54
1	I	184	PRO	CA-C-N	9.69	136.72	120.64
1	I	184	PRO	C-N-CA	9.69	136.72	120.64
1	H	17	VAL	N-CA-CB	-9.68	95.26	111.23
1	C	17	VAL	N-CA-CB	-9.68	95.27	111.23
1	E	17	VAL	N-CA-CB	-9.67	95.27	111.23
1	I	17	VAL	N-CA-CB	-9.67	95.27	111.23
1	K	17	VAL	N-CA-CB	-9.67	95.27	111.23
1	J	184	PRO	CA-C-N	9.67	136.69	120.64
1	J	184	PRO	C-N-CA	9.67	136.69	120.64
1	J	17	VAL	N-CA-CB	-9.66	95.28	111.23
1	G	184	PRO	CA-C-N	9.65	136.66	120.64
1	G	184	PRO	C-N-CA	9.65	136.66	120.64
1	D	17	VAL	N-CA-CB	-9.65	95.31	111.23
1	B	17	VAL	N-CA-CB	-9.65	95.31	111.23
1	D	184	PRO	CA-C-N	9.65	136.65	120.64
1	D	184	PRO	C-N-CA	9.65	136.65	120.64
1	B	184	PRO	CA-C-N	9.63	136.63	120.64
1	B	184	PRO	C-N-CA	9.63	136.63	120.64
1	A	184	PRO	CA-C-N	9.62	136.62	120.64
1	A	184	PRO	C-N-CA	9.62	136.62	120.64
1	L	184	PRO	CA-C-N	9.62	136.61	120.64
1	L	184	PRO	C-N-CA	9.62	136.61	120.64
1	E	184	PRO	CA-C-N	9.60	136.58	120.64
1	E	184	PRO	C-N-CA	9.60	136.58	120.64
1	H	184	PRO	CA-C-N	9.59	136.55	120.64
1	H	184	PRO	C-N-CA	9.59	136.55	120.64
1	F	184	PRO	CA-C-N	9.58	136.55	120.64
1	F	184	PRO	C-N-CA	9.58	136.55	120.64
1	C	184	PRO	CA-C-N	9.58	136.55	120.64
1	C	184	PRO	C-N-CA	9.58	136.55	120.64
1	K	184	PRO	CA-C-N	9.58	136.55	120.64
1	K	184	PRO	C-N-CA	9.58	136.55	120.64
1	B	396	LEU	CA-C-N	9.54	139.76	121.54
1	B	396	LEU	C-N-CA	9.54	139.76	121.54
1	I	396	LEU	CA-C-N	9.53	139.75	121.54
1	I	396	LEU	C-N-CA	9.53	139.75	121.54
1	L	396	LEU	CA-C-N	9.52	139.73	121.54
1	L	396	LEU	C-N-CA	9.52	139.73	121.54
1	F	396	LEU	CA-C-N	9.52	139.71	121.54
1	F	396	LEU	C-N-CA	9.52	139.71	121.54
1	A	396	LEU	CA-C-N	9.51	139.71	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	396	LEU	C-N-CA	9.51	139.71	121.54
1	C	396	LEU	CA-C-N	9.49	139.67	121.54
1	C	396	LEU	C-N-CA	9.49	139.67	121.54
1	D	396	LEU	CA-C-N	9.49	139.67	121.54
1	D	396	LEU	C-N-CA	9.49	139.67	121.54
1	H	396	LEU	CA-C-N	9.47	139.64	121.54
1	H	396	LEU	C-N-CA	9.47	139.64	121.54
1	G	396	LEU	CA-C-N	9.47	139.63	121.54
1	G	396	LEU	C-N-CA	9.47	139.63	121.54
1	E	396	LEU	CA-C-N	9.47	139.63	121.54
1	E	396	LEU	C-N-CA	9.47	139.63	121.54
1	G	43	PHE	CA-CB-CG	-9.46	104.34	113.80
1	J	396	LEU	CA-C-N	9.45	139.59	121.54
1	J	396	LEU	C-N-CA	9.45	139.59	121.54
1	K	396	LEU	CA-C-N	9.45	139.59	121.54
1	K	396	LEU	C-N-CA	9.45	139.59	121.54
1	D	43	PHE	CA-CB-CG	-9.45	104.35	113.80
1	B	43	PHE	CA-CB-CG	-9.42	104.38	113.80
1	H	43	PHE	CA-CB-CG	-9.42	104.38	113.80
1	L	43	PHE	CA-CB-CG	-9.42	104.38	113.80
1	K	43	PHE	CA-CB-CG	-9.41	104.39	113.80
1	A	43	PHE	CA-CB-CG	-9.41	104.39	113.80
1	B	135	PHE	CA-C-N	9.41	133.23	120.44
1	B	135	PHE	C-N-CA	9.41	133.23	120.44
1	C	43	PHE	CA-CB-CG	-9.40	104.40	113.80
1	C	135	PHE	CA-C-N	9.40	133.22	120.44
1	C	135	PHE	C-N-CA	9.40	133.22	120.44
1	L	216	ALA	N-CA-C	9.40	121.79	108.54
1	L	50	ASP	CA-CB-CG	-9.39	103.21	112.60
1	I	43	PHE	CA-CB-CG	-9.38	104.42	113.80
1	D	50	ASP	CA-CB-CG	-9.37	103.23	112.60
1	F	43	PHE	CA-CB-CG	-9.37	104.44	113.80
1	G	135	PHE	CA-C-N	9.37	133.18	120.44
1	G	135	PHE	C-N-CA	9.37	133.18	120.44
1	H	216	ALA	N-CA-C	9.36	121.74	108.54
1	J	43	PHE	CA-CB-CG	-9.36	104.44	113.80
1	K	50	ASP	CA-CB-CG	-9.33	103.27	112.60
1	D	135	PHE	CA-C-N	9.33	133.13	120.44
1	D	135	PHE	C-N-CA	9.33	133.13	120.44
1	B	50	ASP	CA-CB-CG	-9.32	103.28	112.60
1	E	43	PHE	CA-CB-CG	-9.31	104.49	113.80
1	H	50	ASP	CA-CB-CG	-9.30	103.30	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	135	PHE	CA-C-N	9.30	133.09	120.44
1	J	135	PHE	C-N-CA	9.30	133.09	120.44
1	A	50	ASP	CA-CB-CG	-9.29	103.31	112.60
1	E	50	ASP	CA-CB-CG	-9.29	103.31	112.60
1	C	50	ASP	CA-CB-CG	-9.27	103.33	112.60
1	J	50	ASP	CA-CB-CG	-9.26	103.34	112.60
1	G	50	ASP	CA-CB-CG	-9.24	103.36	112.60
1	D	432	GLY	CA-C-O	9.24	128.60	119.27
1	F	50	ASP	CA-CB-CG	-9.24	103.36	112.60
1	H	432	GLY	CA-C-O	9.21	128.57	119.27
1	I	432	GLY	CA-C-O	9.21	128.57	119.27
1	I	50	ASP	CA-CB-CG	-9.20	103.40	112.60
1	C	432	GLY	CA-C-O	9.18	128.54	119.27
1	F	256	MET	CB-CA-C	9.17	122.87	109.11
1	E	256	MET	CB-CA-C	9.16	122.86	109.11
1	G	256	MET	CB-CA-C	9.16	122.86	109.11
1	J	432	GLY	CA-C-O	9.16	128.53	119.27
1	E	432	GLY	CA-C-O	9.16	128.52	119.27
1	A	256	MET	CB-CA-C	9.14	122.82	109.11
1	L	432	GLY	CA-C-O	9.13	128.49	119.27
1	A	432	GLY	CA-C-O	9.13	128.49	119.27
1	H	256	MET	CB-CA-C	9.10	122.76	109.11
1	L	256	MET	CB-CA-C	9.10	122.77	109.11
1	K	256	MET	CB-CA-C	9.10	122.76	109.11
1	G	432	GLY	CA-C-O	9.09	128.45	119.27
1	B	179	TYR	N-CA-C	9.09	121.99	109.54
1	C	256	MET	CB-CA-C	9.08	122.72	109.11
1	J	256	MET	CB-CA-C	9.07	122.72	109.11
1	K	432	GLY	CA-C-O	9.07	128.43	119.27
1	I	256	MET	CB-CA-C	9.06	122.71	109.11
1	E	315	THR	CA-CB-OG1	9.06	123.19	109.60
1	D	179	TYR	N-CA-C	9.06	121.95	109.54
1	F	432	GLY	CA-C-O	9.06	128.42	119.27
1	B	256	MET	CB-CA-C	9.05	122.69	109.11
1	D	256	MET	CB-CA-C	9.05	122.68	109.11
1	B	432	GLY	CA-C-O	9.04	128.40	119.27
1	K	315	THR	CA-CB-OG1	9.04	123.16	109.60
1	L	179	TYR	N-CA-C	9.01	121.89	109.54
1	G	315	THR	CA-CB-OG1	9.01	123.11	109.60
1	C	315	THR	CA-CB-OG1	9.01	123.11	109.60
1	C	179	TYR	N-CA-C	8.99	121.86	109.54
1	B	315	THR	CA-CB-OG1	8.99	123.08	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	315	THR	CA-CB-OG1	8.98	123.08	109.60
1	K	179	TYR	N-CA-C	8.98	121.84	109.54
1	G	179	TYR	N-CA-C	8.98	121.84	109.54
1	J	179	TYR	N-CA-C	8.98	121.84	109.54
1	D	315	THR	CA-CB-OG1	8.97	123.06	109.60
1	H	179	TYR	N-CA-C	8.97	121.83	109.54
1	F	315	THR	CA-CB-OG1	8.97	123.05	109.60
1	E	179	TYR	N-CA-C	8.96	121.82	109.54
1	I	315	THR	CA-CB-OG1	8.96	123.04	109.60
1	J	315	THR	CA-CB-OG1	8.96	123.04	109.60
1	A	179	TYR	N-CA-C	8.96	121.81	109.54
1	H	315	THR	CA-CB-OG1	8.96	123.03	109.60
1	K	350	SER	O-C-N	8.95	129.10	121.31
1	L	315	THR	CA-CB-OG1	8.95	123.02	109.60
1	I	179	TYR	N-CA-C	8.93	121.77	109.54
1	L	400	PRO	CB-CA-C	8.92	121.81	110.92
1	D	400	PRO	CB-CA-C	8.92	121.80	110.92
1	F	400	PRO	CB-CA-C	8.92	121.80	110.92
1	L	350	SER	O-C-N	8.92	129.07	121.31
1	B	350	SER	O-C-N	8.91	129.06	121.31
1	F	179	TYR	N-CA-C	8.91	121.74	109.54
1	H	400	PRO	CB-CA-C	8.90	121.78	110.92
1	B	400	PRO	CB-CA-C	8.89	121.77	110.92
1	F	350	SER	O-C-N	8.89	129.04	121.31
1	K	400	PRO	CB-CA-C	8.89	121.76	110.92
1	E	90	ASP	N-CA-C	-8.87	101.76	112.59
1	C	400	PRO	CB-CA-C	8.87	121.74	110.92
1	F	90	ASP	N-CA-C	-8.87	101.78	112.59
1	J	90	ASP	N-CA-C	-8.87	101.78	112.59
1	I	400	PRO	CB-CA-C	8.86	121.73	110.92
1	K	90	ASP	N-CA-C	-8.86	101.78	112.59
1	A	400	PRO	CB-CA-C	8.85	121.72	110.92
1	G	90	ASP	N-CA-C	-8.85	101.79	112.59
1	E	400	PRO	CB-CA-C	8.85	121.72	110.92
1	D	7	THR	N-CA-CB	8.84	125.43	110.49
1	B	90	ASP	N-CA-C	-8.84	101.81	112.59
1	D	90	ASP	N-CA-C	-8.83	101.81	112.59
1	E	7	THR	N-CA-CB	8.83	125.41	110.49
1	E	350	SER	O-C-N	8.83	128.99	121.31
1	J	400	PRO	CB-CA-C	8.83	121.69	110.92
1	F	7	THR	N-CA-CB	8.83	125.41	110.49
1	F	465	TYR	N-CA-C	8.82	124.05	113.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	7	THR	N-CA-CB	8.82	125.40	110.49
1	C	90	ASP	N-CA-C	-8.82	101.83	112.59
1	I	90	ASP	N-CA-C	-8.82	101.83	112.59
1	A	350	SER	O-C-N	8.82	128.98	121.31
1	J	350	SER	O-C-N	8.82	128.98	121.31
1	A	90	ASP	N-CA-C	-8.81	101.84	112.59
1	I	7	THR	N-CA-CB	8.81	125.38	110.49
1	B	465	TYR	N-CA-C	8.81	124.03	113.28
1	D	90	ASP	N-CA-CB	-8.81	96.82	110.92
1	A	7	THR	N-CA-CB	8.81	125.38	110.49
1	D	350	SER	O-C-N	8.81	128.97	121.31
1	L	465	TYR	N-CA-C	8.80	124.02	113.28
1	E	277	ASN	CB-CA-C	8.80	127.75	112.00
1	C	350	SER	O-C-N	8.79	128.96	121.31
1	I	350	SER	O-C-N	8.79	128.96	121.31
1	B	277	ASN	CB-CA-C	8.79	127.73	112.00
1	C	90	ASP	N-CA-CB	-8.79	96.86	110.92
1	H	58	LYS	CA-C-N	8.79	138.63	121.41
1	H	58	LYS	C-N-CA	8.79	138.63	121.41
1	D	465	TYR	N-CA-C	8.79	124.00	113.28
1	L	90	ASP	N-CA-C	-8.78	101.88	112.59
1	G	58	LYS	CA-C-N	8.78	138.61	121.41
1	G	58	LYS	C-N-CA	8.78	138.61	121.41
1	H	90	ASP	N-CA-C	-8.78	101.89	112.59
1	G	465	TYR	N-CA-C	8.77	123.98	113.28
1	L	90	ASP	N-CA-CB	-8.77	96.89	110.92
1	A	465	TYR	N-CA-C	8.77	123.98	113.28
1	J	465	TYR	N-CA-C	8.77	123.98	113.28
1	B	7	THR	N-CA-CB	8.77	125.30	110.49
1	G	7	THR	N-CA-CB	8.77	125.30	110.49
1	C	7	THR	N-CA-CB	8.76	125.30	110.49
1	C	465	TYR	N-CA-C	8.76	123.97	113.28
1	H	7	THR	N-CA-CB	8.76	125.30	110.49
1	H	350	SER	O-C-N	8.76	128.93	121.31
1	G	277	ASN	CB-CA-C	8.76	127.67	112.00
1	G	400	PRO	CB-CA-C	8.76	121.60	110.92
1	H	465	TYR	N-CA-C	8.75	123.95	113.28
1	I	58	LYS	CA-C-N	8.75	138.56	121.41
1	I	58	LYS	C-N-CA	8.75	138.56	121.41
1	B	58	LYS	CA-C-N	8.75	138.56	121.41
1	B	58	LYS	C-N-CA	8.75	138.56	121.41
1	A	90	ASP	N-CA-CB	-8.75	96.93	110.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	277	ASN	CB-CA-C	8.75	127.66	112.00
1	K	7	THR	N-CA-CB	8.75	125.27	110.49
1	I	90	ASP	N-CA-CB	-8.74	96.93	110.92
1	H	90	ASP	N-CA-CB	-8.74	96.93	110.92
1	J	90	ASP	N-CA-CB	-8.74	96.94	110.92
1	A	277	ASN	CB-CA-C	8.74	127.64	112.00
1	F	58	LYS	CA-C-N	8.74	138.54	121.41
1	F	58	LYS	C-N-CA	8.74	138.54	121.41
1	B	90	ASP	N-CA-CB	-8.73	96.95	110.92
1	J	277	ASN	CB-CA-C	8.73	127.63	112.00
1	E	465	TYR	N-CA-C	8.73	123.93	113.28
1	F	90	ASP	N-CA-CB	-8.73	96.95	110.92
1	K	465	TYR	N-CA-C	8.73	123.93	113.28
1	A	58	LYS	CA-C-N	8.73	138.51	121.41
1	A	58	LYS	C-N-CA	8.73	138.51	121.41
1	J	7	THR	N-CA-CB	8.73	125.24	110.49
1	K	277	ASN	CB-CA-C	8.73	127.62	112.00
1	D	277	ASN	CB-CA-C	8.72	127.62	112.00
1	H	277	ASN	CB-CA-C	8.72	127.61	112.00
1	K	90	ASP	N-CA-CB	-8.72	96.96	110.92
1	E	58	LYS	CA-C-N	8.72	138.50	121.41
1	E	58	LYS	C-N-CA	8.72	138.50	121.41
1	G	431	GLY	O-C-N	8.71	129.68	122.71
1	L	277	ASN	CB-CA-C	8.71	127.60	112.00
1	G	350	SER	O-C-N	8.71	128.89	121.31
1	I	465	TYR	N-CA-C	8.71	123.91	113.28
1	G	90	ASP	N-CA-CB	-8.71	96.99	110.92
1	C	58	LYS	CA-C-N	8.70	138.47	121.41
1	C	58	LYS	C-N-CA	8.70	138.47	121.41
1	K	58	LYS	CA-C-N	8.70	138.46	121.41
1	K	58	LYS	C-N-CA	8.70	138.46	121.41
1	C	277	ASN	CB-CA-C	8.70	127.56	112.00
1	E	90	ASP	N-CA-CB	-8.70	97.01	110.92
1	D	58	LYS	CA-C-N	8.69	138.45	121.41
1	D	58	LYS	C-N-CA	8.69	138.45	121.41
1	F	277	ASN	CB-CA-C	8.69	127.56	112.00
1	K	431	GLY	O-C-N	8.69	129.66	122.71
1	J	58	LYS	CA-C-N	8.69	138.43	121.41
1	J	58	LYS	C-N-CA	8.69	138.43	121.41
1	L	58	LYS	CA-C-N	8.68	138.43	121.41
1	L	58	LYS	C-N-CA	8.68	138.43	121.41
1	H	431	GLY	O-C-N	8.66	129.64	122.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	431	GLY	O-C-N	8.66	129.64	122.71
1	J	431	GLY	O-C-N	8.66	129.63	122.71
1	D	431	GLY	O-C-N	8.65	129.63	122.71
1	C	431	GLY	O-C-N	8.65	129.63	122.71
1	L	76	ILE	CA-C-O	-8.62	110.00	120.78
1	F	431	GLY	O-C-N	8.62	129.60	122.71
1	A	431	GLY	O-C-N	8.60	129.59	122.71
1	J	233	ASP	CB-CA-C	8.59	128.45	110.32
1	I	233	ASP	CB-CA-C	8.59	128.44	110.32
1	E	76	ILE	CA-C-O	-8.58	110.05	120.78
1	K	76	ILE	CA-C-O	-8.56	110.07	120.78
1	F	76	ILE	CA-C-O	-8.56	110.08	120.78
1	D	168	ASN	CA-CB-CG	-8.56	104.04	112.60
1	D	184	PRO	CB-CA-C	8.56	125.68	111.56
1	I	76	ILE	CA-C-O	-8.56	110.08	120.78
1	L	233	ASP	CB-CA-C	8.56	128.38	110.32
1	B	233	ASP	CB-CA-C	8.55	128.37	110.32
1	F	184	PRO	CB-CA-C	8.55	125.68	111.56
1	J	184	PRO	CB-CA-C	8.55	125.68	111.56
1	A	233	ASP	CB-CA-C	8.54	128.35	110.32
1	E	184	PRO	CB-CA-C	8.54	125.65	111.56
1	C	76	ILE	CA-C-O	-8.54	110.11	120.78
1	E	233	ASP	CB-CA-C	8.54	128.33	110.32
1	F	233	ASP	CB-CA-C	8.53	128.32	110.32
1	H	233	ASP	CB-CA-C	8.53	128.32	110.32
1	K	184	PRO	CB-CA-C	8.53	125.64	111.56
1	A	76	ILE	CA-C-O	-8.53	110.12	120.78
1	D	233	ASP	CB-CA-C	8.53	128.32	110.32
1	C	233	ASP	CB-CA-C	8.53	128.31	110.32
1	G	184	PRO	CB-CA-C	8.53	125.63	111.56
1	L	184	PRO	CB-CA-C	8.53	125.63	111.56
1	C	184	PRO	CB-CA-C	8.52	125.62	111.56
1	G	168	ASN	CA-CB-CG	-8.52	104.08	112.60
1	H	184	PRO	CB-CA-C	8.52	125.62	111.56
1	H	66	VAL	CA-C-N	-8.51	109.63	122.23
1	H	66	VAL	C-N-CA	-8.51	109.63	122.23
1	I	184	PRO	CB-CA-C	8.51	125.61	111.56
1	J	76	ILE	CA-C-O	-8.51	110.14	120.78
1	A	184	PRO	CB-CA-C	8.51	125.60	111.56
1	L	431	GLY	O-C-N	8.51	129.52	122.71
1	B	431	GLY	O-C-N	8.50	129.51	122.71
1	D	76	ILE	CA-C-O	-8.50	110.15	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	431	GLY	O-C-N	8.50	129.51	122.71
1	C	168	ASN	CA-CB-CG	-8.50	104.10	112.60
1	G	233	ASP	CB-CA-C	8.50	128.25	110.32
1	H	168	ASN	CA-CB-CG	-8.50	104.10	112.60
1	L	168	ASN	CA-CB-CG	-8.50	104.10	112.60
1	K	233	ASP	CB-CA-C	8.50	128.25	110.32
1	H	76	ILE	CA-C-O	-8.49	110.16	120.78
1	B	184	PRO	CB-CA-C	8.48	125.55	111.56
1	A	66	VAL	CA-C-N	-8.47	109.69	122.23
1	A	66	VAL	C-N-CA	-8.47	109.69	122.23
1	G	76	ILE	CA-C-O	-8.47	110.19	120.78
1	I	66	VAL	CA-C-N	-8.46	109.70	122.23
1	I	66	VAL	C-N-CA	-8.46	109.70	122.23
1	A	168	ASN	CA-CB-CG	-8.46	104.14	112.60
1	K	168	ASN	CA-CB-CG	-8.45	104.15	112.60
1	B	76	ILE	CA-C-O	-8.45	110.22	120.78
1	F	168	ASN	CA-CB-CG	-8.45	104.16	112.60
1	F	67	LEU	N-CA-C	8.44	119.72	108.07
1	H	399	LEU	O-C-N	8.44	131.02	121.32
1	J	168	ASN	CA-CB-CG	-8.44	104.16	112.60
1	D	66	VAL	CA-C-N	-8.43	109.75	122.23
1	D	66	VAL	C-N-CA	-8.43	109.75	122.23
1	L	66	VAL	CA-C-N	-8.43	109.75	122.23
1	L	66	VAL	C-N-CA	-8.43	109.75	122.23
1	E	66	VAL	CA-C-N	-8.43	109.75	122.23
1	E	66	VAL	C-N-CA	-8.43	109.75	122.23
1	B	168	ASN	CA-CB-CG	-8.43	104.17	112.60
1	C	274	LEU	CB-CA-C	8.43	124.88	109.71
1	K	66	VAL	CA-C-N	-8.43	109.76	122.23
1	K	66	VAL	C-N-CA	-8.43	109.76	122.23
1	K	399	LEU	O-C-N	8.42	131.00	121.32
1	C	67	LEU	N-CA-C	8.42	119.69	108.07
1	H	274	LEU	CB-CA-C	8.42	124.86	109.71
1	E	168	ASN	CA-CB-CG	-8.41	104.19	112.60
1	G	399	LEU	O-C-N	8.41	130.99	121.32
1	A	399	LEU	O-C-N	8.41	130.99	121.32
1	C	66	VAL	CA-C-N	-8.41	109.79	122.23
1	C	66	VAL	C-N-CA	-8.41	109.79	122.23
1	B	66	VAL	CA-C-N	-8.40	109.80	122.23
1	B	66	VAL	C-N-CA	-8.40	109.80	122.23
1	D	92	LEU	O-C-N	8.40	131.42	121.76
1	C	399	LEU	O-C-N	8.40	130.98	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	274	LEU	CB-CA-C	8.40	124.83	109.71
1	I	67	LEU	N-CA-C	8.40	119.66	108.07
1	F	399	LEU	O-C-N	8.39	130.97	121.32
1	G	66	VAL	CA-C-N	-8.39	109.81	122.23
1	G	66	VAL	C-N-CA	-8.39	109.81	122.23
1	J	274	LEU	CB-CA-C	8.39	124.81	109.71
1	E	274	LEU	CB-CA-C	8.39	124.81	109.71
1	G	67	LEU	N-CA-C	8.39	119.65	108.07
1	J	67	LEU	N-CA-C	8.39	119.65	108.07
1	J	92	LEU	O-C-N	8.39	131.40	121.76
1	D	399	LEU	O-C-N	8.38	130.96	121.32
1	I	168	ASN	CA-CB-CG	-8.38	104.22	112.60
1	F	92	LEU	O-C-N	8.38	131.39	121.76
1	K	67	LEU	N-CA-C	8.37	119.63	108.07
1	J	399	LEU	O-C-N	8.37	130.95	121.32
1	L	399	LEU	O-C-N	8.37	130.95	121.32
1	A	274	LEU	CB-CA-C	8.37	124.78	109.71
1	B	67	LEU	N-CA-C	8.37	119.62	108.07
1	F	66	VAL	CA-C-N	-8.37	109.85	122.23
1	F	66	VAL	C-N-CA	-8.37	109.85	122.23
1	J	66	VAL	CA-C-N	-8.37	109.84	122.23
1	J	66	VAL	C-N-CA	-8.37	109.84	122.23
1	L	316	THR	N-CA-CB	-8.37	96.35	110.49
1	B	92	LEU	O-C-N	8.36	131.38	121.76
1	B	399	LEU	O-C-N	8.36	130.94	121.32
1	G	274	LEU	CB-CA-C	8.36	124.76	109.71
1	K	274	LEU	CB-CA-C	8.36	124.76	109.71
1	C	191	ILE	N-CA-CB	8.36	120.33	110.55
1	K	92	LEU	O-C-N	8.36	131.37	121.76
1	L	274	LEU	CB-CA-C	8.36	124.75	109.71
1	E	316	THR	N-CA-CB	-8.36	96.37	110.49
1	B	274	LEU	CB-CA-C	8.36	124.75	109.71
1	A	92	LEU	O-C-N	8.35	131.36	121.76
1	B	316	THR	N-CA-CB	-8.35	96.39	110.49
1	D	274	LEU	CB-CA-C	8.35	124.73	109.71
1	E	191	ILE	N-CA-CB	8.35	120.31	110.55
1	F	316	THR	N-CA-CB	-8.35	96.39	110.49
1	L	67	LEU	N-CA-C	8.35	119.59	108.07
1	E	399	LEU	O-C-N	8.34	130.91	121.32
1	I	191	ILE	N-CA-CB	8.34	120.31	110.55
1	I	274	LEU	CB-CA-C	8.34	124.72	109.71
1	A	67	LEU	N-CA-C	8.33	119.57	108.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	92	LEU	O-C-N	8.33	131.34	121.76
1	H	67	LEU	N-CA-C	8.33	119.56	108.07
1	K	316	THR	N-CA-CB	-8.33	96.42	110.49
1	C	92	LEU	O-C-N	8.32	131.33	121.76
1	J	316	THR	N-CA-CB	-8.32	96.43	110.49
1	A	191	ILE	N-CA-CB	8.32	120.28	110.55
1	D	67	LEU	N-CA-C	8.31	119.54	108.07
1	F	191	ILE	N-CA-CB	8.31	120.28	110.55
1	D	191	ILE	N-CA-CB	8.31	120.27	110.55
1	C	316	THR	N-CA-CB	-8.31	96.45	110.49
1	G	316	THR	N-CA-CB	-8.30	96.46	110.49
1	I	316	THR	N-CA-CB	-8.30	96.46	110.49
1	J	191	ILE	N-CA-CB	8.30	120.26	110.55
1	L	92	LEU	O-C-N	8.30	131.30	121.76
1	D	316	THR	N-CA-CB	-8.30	96.47	110.49
1	A	316	THR	N-CA-CB	-8.29	96.48	110.49
1	B	191	ILE	N-CA-CB	8.29	120.24	110.55
1	I	399	LEU	O-C-N	8.29	130.85	121.32
1	E	67	LEU	N-CA-C	8.28	119.50	108.07
1	K	191	ILE	N-CA-CB	8.28	120.23	110.55
1	D	351	PRO	N-CA-C	-8.27	103.08	113.84
1	H	316	THR	N-CA-CB	-8.27	96.51	110.49
1	F	351	PRO	N-CA-C	-8.26	103.10	113.84
1	L	191	ILE	N-CA-CB	8.26	120.21	110.55
1	H	92	LEU	O-C-N	8.26	131.25	121.76
1	E	351	PRO	N-CA-C	-8.25	103.12	113.84
1	J	351	PRO	N-CA-C	-8.25	103.12	113.84
1	I	351	PRO	N-CA-C	-8.24	103.13	113.84
1	K	351	PRO	N-CA-C	-8.24	103.13	113.84
1	G	351	PRO	N-CA-C	-8.24	103.13	113.84
1	C	351	PRO	N-CA-C	-8.23	103.14	113.84
1	E	92	LEU	O-C-N	8.22	131.22	121.76
1	G	191	ILE	N-CA-CB	8.22	120.17	110.55
1	H	191	ILE	N-CA-CB	8.22	120.17	110.55
1	I	92	LEU	O-C-N	8.22	131.21	121.76
1	H	351	PRO	N-CA-C	-8.22	103.16	113.84
1	A	351	PRO	N-CA-C	-8.21	103.16	113.84
1	B	351	PRO	N-CA-C	-8.20	103.17	113.84
1	H	86	ILE	CB-CA-C	-8.19	97.85	111.29
1	G	86	ILE	CB-CA-C	-8.17	97.89	111.29
1	I	86	ILE	CB-CA-C	-8.17	97.90	111.29
1	L	351	PRO	N-CA-C	-8.17	103.22	113.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	465	TYR	CA-CB-CG	-8.16	99.21	113.90
1	B	86	ILE	CB-CA-C	-8.16	97.91	111.29
1	A	86	ILE	CB-CA-C	-8.15	97.92	111.29
1	E	86	ILE	CB-CA-C	-8.15	97.92	111.29
1	J	86	ILE	CB-CA-C	-8.15	97.92	111.29
1	J	465	TYR	CA-CB-CG	-8.15	99.24	113.90
1	F	86	ILE	CB-CA-C	-8.14	97.94	111.29
1	L	86	ILE	CB-CA-C	-8.14	97.94	111.29
1	D	86	ILE	CB-CA-C	-8.14	97.94	111.29
1	K	86	ILE	CB-CA-C	-8.13	97.96	111.29
1	G	465	TYR	CA-CB-CG	-8.12	99.28	113.90
1	I	465	TYR	CA-CB-CG	-8.12	99.28	113.90
1	K	465	TYR	CA-CB-CG	-8.12	99.28	113.90
1	H	465	TYR	CA-CB-CG	-8.11	99.30	113.90
1	D	465	TYR	CA-CB-CG	-8.11	99.31	113.90
1	F	465	TYR	CA-CB-CG	-8.10	99.31	113.90
1	A	465	TYR	CA-CB-CG	-8.10	99.32	113.90
1	C	86	ILE	CB-CA-C	-8.10	98.01	111.29
1	C	465	TYR	CA-CB-CG	-8.09	99.33	113.90
1	L	465	TYR	CA-CB-CG	-8.09	99.33	113.90
1	F	91	ILE	N-CA-C	-8.05	92.59	109.34
1	B	465	TYR	CA-CB-CG	-8.05	99.41	113.90
1	H	91	ILE	N-CA-C	-8.05	92.60	109.34
1	F	131	GLU	CB-CG-CD	8.04	126.27	112.60
1	I	91	ILE	N-CA-C	-8.03	92.63	109.34
1	G	91	ILE	N-CA-C	-8.03	92.64	109.34
1	F	399	LEU	N-CA-CB	8.02	124.65	110.37
1	K	91	ILE	N-CA-C	-8.02	92.66	109.34
1	H	278	GLY	CA-C-N	8.02	134.26	122.39
1	H	278	GLY	C-N-CA	8.02	134.26	122.39
1	J	91	ILE	N-CA-C	-8.02	92.66	109.34
1	G	278	GLY	CA-C-N	8.01	134.25	122.39
1	G	278	GLY	C-N-CA	8.01	134.25	122.39
1	D	399	LEU	N-CA-CB	8.01	124.63	110.37
1	B	399	LEU	N-CA-CB	8.01	124.63	110.37
1	E	131	GLU	CB-CG-CD	8.01	126.22	112.60
1	J	52	SER	CA-C-N	8.00	136.83	121.54
1	J	52	SER	C-N-CA	8.00	136.83	121.54
1	L	278	GLY	CA-C-N	8.00	134.23	122.39
1	L	278	GLY	C-N-CA	8.00	134.23	122.39
1	D	91	ILE	N-CA-C	-8.00	92.70	109.34
1	L	91	ILE	N-CA-C	-8.00	92.70	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	91	ILE	N-CA-C	-8.00	92.71	109.34
1	B	52	SER	CA-C-N	8.00	136.81	121.54
1	B	52	SER	C-N-CA	8.00	136.81	121.54
1	I	52	SER	CA-C-N	7.99	136.81	121.54
1	I	52	SER	C-N-CA	7.99	136.81	121.54
1	G	131	GLU	CB-CG-CD	7.99	126.19	112.60
1	K	399	LEU	N-CA-CB	7.99	124.59	110.37
1	H	131	GLU	CB-CG-CD	7.99	126.19	112.60
1	E	52	SER	CA-C-N	7.99	136.80	121.54
1	E	52	SER	C-N-CA	7.99	136.80	121.54
1	E	88	ARG	N-CA-CB	7.99	122.25	110.35
1	L	52	SER	CA-C-N	7.99	136.80	121.54
1	L	52	SER	C-N-CA	7.99	136.80	121.54
1	A	52	SER	CA-C-N	7.99	136.79	121.54
1	A	52	SER	C-N-CA	7.99	136.79	121.54
1	E	91	ILE	N-CA-C	-7.99	92.73	109.34
1	B	91	ILE	N-CA-C	-7.99	92.73	109.34
1	C	399	LEU	N-CA-CB	7.98	124.58	110.37
1	A	88	ARG	N-CA-CB	7.98	122.24	110.35
1	L	131	GLU	CB-CG-CD	7.98	126.17	112.60
1	C	91	ILE	N-CA-C	-7.98	92.74	109.34
1	H	399	LEU	N-CA-CB	7.98	124.58	110.37
1	I	88	ARG	N-CA-CB	7.98	122.24	110.35
1	F	52	SER	CA-C-N	7.98	136.78	121.54
1	F	52	SER	C-N-CA	7.98	136.78	121.54
1	C	88	ARG	N-CA-CB	7.97	122.23	110.35
1	D	131	GLU	CB-CG-CD	7.97	126.16	112.60
1	G	88	ARG	N-CA-CB	7.97	122.23	110.35
1	K	278	GLY	CA-C-N	7.97	134.19	122.39
1	K	278	GLY	C-N-CA	7.97	134.19	122.39
1	B	131	GLU	CB-CG-CD	7.97	126.15	112.60
1	I	131	GLU	CB-CG-CD	7.97	126.15	112.60
1	L	88	ARG	N-CA-CB	7.97	122.23	110.35
1	A	399	LEU	N-CA-CB	7.97	124.55	110.37
1	F	278	GLY	CA-C-N	7.97	134.18	122.39
1	F	278	GLY	C-N-CA	7.97	134.18	122.39
1	B	88	ARG	N-CA-CB	7.96	122.21	110.35
1	E	85	LEU	CB-CA-C	7.96	123.43	111.17
1	I	278	GLY	CA-C-N	7.96	134.18	122.39
1	I	278	GLY	C-N-CA	7.96	134.18	122.39
1	F	88	ARG	N-CA-CB	7.96	122.21	110.35
1	A	131	GLU	CB-CG-CD	7.96	126.13	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	52	SER	CA-C-N	7.96	136.74	121.54
1	K	52	SER	C-N-CA	7.96	136.74	121.54
1	J	131	GLU	CB-CG-CD	7.96	126.13	112.60
1	J	278	GLY	CA-C-N	7.96	134.16	122.39
1	J	278	GLY	C-N-CA	7.96	134.16	122.39
1	G	399	LEU	N-CA-CB	7.95	124.53	110.37
1	D	278	GLY	CA-C-N	7.95	134.16	122.39
1	D	278	GLY	C-N-CA	7.95	134.16	122.39
1	J	399	LEU	N-CA-CB	7.95	124.52	110.37
1	I	399	LEU	N-CA-CB	7.95	124.51	110.37
1	E	278	GLY	CA-C-N	7.94	134.15	122.39
1	E	278	GLY	C-N-CA	7.94	134.15	122.39
1	D	88	ARG	N-CA-CB	7.94	122.18	110.35
1	H	88	ARG	N-CA-CB	7.94	122.18	110.35
1	A	278	GLY	CA-C-N	7.93	134.13	122.39
1	A	278	GLY	C-N-CA	7.93	134.13	122.39
1	C	278	GLY	CA-C-N	7.93	134.13	122.39
1	C	278	GLY	C-N-CA	7.93	134.13	122.39
1	L	85	LEU	CB-CA-C	7.93	123.39	111.17
1	C	52	SER	CA-C-N	7.93	136.69	121.54
1	C	52	SER	C-N-CA	7.93	136.69	121.54
1	E	399	LEU	N-CA-CB	7.91	124.45	110.37
1	G	52	SER	CA-C-N	7.91	136.66	121.54
1	G	52	SER	C-N-CA	7.91	136.66	121.54
1	K	131	GLU	CB-CG-CD	7.91	126.05	112.60
1	C	131	GLU	CB-CG-CD	7.91	126.05	112.60
1	G	85	LEU	CB-CA-C	7.91	123.35	111.17
1	B	278	GLY	CA-C-N	7.90	134.09	122.39
1	B	278	GLY	C-N-CA	7.90	134.09	122.39
1	K	88	ARG	N-CA-CB	7.90	122.13	110.35
1	H	52	SER	CA-C-N	7.90	136.63	121.54
1	H	52	SER	C-N-CA	7.90	136.63	121.54
1	K	85	LEU	CB-CA-C	7.89	123.33	111.17
1	D	52	SER	CA-C-N	7.89	136.61	121.54
1	D	52	SER	C-N-CA	7.89	136.61	121.54
1	J	88	ARG	N-CA-CB	7.89	122.10	110.35
1	J	85	LEU	CB-CA-C	7.88	123.31	111.17
1	L	399	LEU	N-CA-CB	7.88	124.41	110.37
1	A	85	LEU	CB-CA-C	7.88	123.30	111.17
1	B	95	GLY	N-CA-C	-7.87	103.12	112.64
1	B	446	ARG	CD-NE-CZ	7.87	135.41	124.40
1	C	85	LEU	CB-CA-C	7.87	123.28	111.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	85	LEU	CB-CA-C	7.86	123.28	111.17
1	L	179	TYR	CA-CB-CG	-7.86	99.76	113.90
1	I	116	ARG	CD-NE-CZ	-7.85	113.42	124.40
1	A	179	TYR	CA-CB-CG	-7.85	99.78	113.90
1	F	85	LEU	CB-CA-C	7.85	123.25	111.17
1	D	179	TYR	CA-CB-CG	-7.84	99.78	113.90
1	J	179	TYR	CA-CB-CG	-7.84	99.78	113.90
1	A	95	GLY	N-CA-C	-7.84	103.16	112.64
1	I	85	LEU	CB-CA-C	7.84	123.24	111.17
1	K	116	ARG	CD-NE-CZ	-7.84	113.42	124.40
1	L	84	THR	N-CA-C	-7.84	98.07	109.59
1	B	85	LEU	CB-CA-C	7.84	123.24	111.17
1	H	330	VAL	N-CA-CB	-7.84	102.17	112.36
1	F	179	TYR	CA-CB-CG	-7.84	99.80	113.90
1	D	95	GLY	N-CA-C	-7.83	103.16	112.64
1	F	116	ARG	CD-NE-CZ	-7.83	113.43	124.40
1	G	95	GLY	N-CA-C	-7.83	103.16	112.64
1	K	84	THR	N-CA-C	-7.83	98.08	109.59
1	B	179	TYR	CA-CB-CG	-7.83	99.80	113.90
1	D	330	VAL	N-CA-CB	-7.83	102.18	112.36
1	F	95	GLY	N-CA-C	-7.83	103.17	112.64
1	J	330	VAL	N-CA-CB	-7.83	102.19	112.36
1	K	95	GLY	N-CA-C	-7.82	103.17	112.64
1	B	330	VAL	N-CA-CB	-7.82	102.19	112.36
1	L	116	ARG	CD-NE-CZ	-7.82	113.45	124.40
1	I	95	GLY	N-CA-C	-7.82	103.18	112.64
1	A	446	ARG	CD-NE-CZ	7.82	135.35	124.40
1	D	84	THR	N-CA-C	-7.82	98.10	109.59
1	E	179	TYR	CA-CB-CG	-7.82	99.83	113.90
1	B	18	ASP	CA-C-N	7.82	136.47	121.54
1	B	18	ASP	C-N-CA	7.82	136.47	121.54
1	E	116	ARG	CD-NE-CZ	-7.82	113.46	124.40
1	C	84	THR	N-CA-C	-7.82	98.10	109.59
1	G	116	ARG	CD-NE-CZ	-7.82	113.46	124.40
1	L	95	GLY	N-CA-C	-7.82	103.18	112.64
1	H	84	THR	N-CA-C	-7.81	98.10	109.59
1	I	84	THR	N-CA-C	-7.81	98.10	109.59
1	L	330	VAL	N-CA-CB	-7.81	102.21	112.36
1	E	330	VAL	N-CA-CB	-7.81	102.21	112.36
1	G	446	ARG	CD-NE-CZ	7.81	135.33	124.40
1	K	330	VAL	N-CA-CB	-7.80	102.21	112.36
1	H	85	LEU	CB-CA-C	7.80	123.19	111.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	95	GLY	N-CA-C	-7.80	103.20	112.64
1	C	446	ARG	CD-NE-CZ	7.80	135.32	124.40
1	H	95	GLY	N-CA-C	-7.80	103.20	112.64
1	H	446	ARG	CD-NE-CZ	7.80	135.32	124.40
1	D	116	ARG	CD-NE-CZ	-7.80	113.49	124.40
1	H	116	ARG	CD-NE-CZ	-7.80	113.48	124.40
1	H	179	TYR	CA-CB-CG	-7.80	99.87	113.90
1	K	179	TYR	CA-CB-CG	-7.80	99.87	113.90
1	C	179	TYR	CA-CB-CG	-7.79	99.87	113.90
1	F	446	ARG	CD-NE-CZ	7.79	135.31	124.40
1	A	116	ARG	CD-NE-CZ	-7.79	113.49	124.40
1	I	179	TYR	CA-CB-CG	-7.79	99.87	113.90
1	I	330	VAL	N-CA-CB	-7.79	102.23	112.36
1	L	446	ARG	CD-NE-CZ	7.79	135.31	124.40
1	G	179	TYR	CA-CB-CG	-7.79	99.88	113.90
1	H	437	GLU	CB-CA-C	-7.79	94.92	110.42
1	A	18	ASP	CA-C-N	7.79	136.41	121.54
1	A	18	ASP	C-N-CA	7.79	136.41	121.54
1	K	446	ARG	CD-NE-CZ	7.79	135.30	124.40
1	C	116	ARG	CD-NE-CZ	-7.78	113.51	124.40
1	E	437	GLU	CB-CA-C	-7.78	94.94	110.42
1	J	116	ARG	CD-NE-CZ	-7.78	113.51	124.40
1	C	18	ASP	CA-C-N	7.78	136.39	121.54
1	C	18	ASP	C-N-CA	7.78	136.39	121.54
1	E	18	ASP	CA-C-N	7.78	136.40	121.54
1	E	18	ASP	C-N-CA	7.78	136.40	121.54
1	C	330	VAL	N-CA-CB	-7.78	102.25	112.36
1	F	330	VAL	N-CA-CB	-7.78	102.25	112.36
1	E	95	GLY	N-CA-C	-7.77	103.23	112.64
1	A	330	VAL	N-CA-CB	-7.77	102.26	112.36
1	B	437	GLU	CB-CA-C	-7.77	94.96	110.42
1	C	366	ASN	OD1-CG-ND2	7.77	130.37	122.60
1	D	18	ASP	CA-C-N	7.77	136.38	121.54
1	D	18	ASP	C-N-CA	7.77	136.38	121.54
1	D	437	GLU	CB-CA-C	-7.77	94.96	110.42
1	F	437	GLU	CB-CA-C	-7.77	94.96	110.42
1	L	437	GLU	CB-CA-C	-7.77	94.96	110.42
1	E	446	ARG	CD-NE-CZ	7.76	135.27	124.40
1	G	366	ASN	OD1-CG-ND2	7.76	130.36	122.60
1	H	18	ASP	CA-C-N	7.76	136.37	121.54
1	H	18	ASP	C-N-CA	7.76	136.37	121.54
1	B	84	THR	N-CA-C	-7.76	98.18	109.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	437	GLU	CB-CA-C	-7.76	94.97	110.42
1	A	84	THR	N-CA-C	-7.76	98.18	109.59
1	B	116	ARG	CD-NE-CZ	-7.76	113.54	124.40
1	G	330	VAL	N-CA-CB	-7.76	102.28	112.36
1	J	18	ASP	CA-C-N	7.76	136.36	121.54
1	J	18	ASP	C-N-CA	7.76	136.36	121.54
1	E	70	ASP	O-C-N	7.75	130.68	121.76
1	I	437	GLU	CB-CA-C	-7.75	94.99	110.42
1	L	18	ASP	CA-C-N	7.75	136.34	121.54
1	L	18	ASP	C-N-CA	7.75	136.34	121.54
1	K	437	GLU	CB-CA-C	-7.75	95.00	110.42
1	C	437	GLU	CB-CA-C	-7.75	95.00	110.42
1	F	18	ASP	CA-C-N	7.75	136.34	121.54
1	F	18	ASP	C-N-CA	7.75	136.34	121.54
1	H	366	ASN	OD1-CG-ND2	7.75	130.34	122.60
1	E	84	THR	N-CA-C	-7.74	98.21	109.59
1	D	446	ARG	CD-NE-CZ	7.74	135.24	124.40
1	I	446	ARG	CD-NE-CZ	7.74	135.24	124.40
1	J	84	THR	N-CA-C	-7.74	98.21	109.59
1	G	437	GLU	CB-CA-C	-7.74	95.02	110.42
1	B	366	ASN	OD1-CG-ND2	7.73	130.33	122.60
1	F	366	ASN	OD1-CG-ND2	7.73	130.33	122.60
1	J	446	ARG	CD-NE-CZ	7.73	135.22	124.40
1	K	18	ASP	CA-C-N	7.73	136.30	121.54
1	K	18	ASP	C-N-CA	7.73	136.30	121.54
1	J	437	GLU	CB-CA-C	-7.73	95.04	110.42
1	G	84	THR	N-CA-C	-7.73	98.23	109.59
1	I	18	ASP	CA-C-N	7.73	136.30	121.54
1	I	18	ASP	C-N-CA	7.73	136.30	121.54
1	J	41	GLU	O-C-N	7.72	132.86	122.59
1	L	366	ASN	OD1-CG-ND2	7.72	130.32	122.60
1	G	18	ASP	CA-C-N	7.72	136.28	121.54
1	G	18	ASP	C-N-CA	7.72	136.28	121.54
1	D	70	ASP	O-C-N	7.71	130.62	121.76
1	L	270	CYS	N-CA-CB	7.70	122.86	110.77
1	F	84	THR	N-CA-C	-7.70	98.27	109.59
1	J	95	GLY	N-CA-C	-7.70	103.32	112.64
1	K	270	CYS	N-CA-CB	7.70	122.86	110.77
1	K	366	ASN	OD1-CG-ND2	7.68	130.28	122.60
1	F	270	CYS	N-CA-CB	7.68	122.83	110.77
1	H	270	CYS	N-CA-CB	7.68	122.82	110.77
1	E	41	GLU	O-C-N	7.67	132.79	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	41	GLU	O-C-N	7.67	132.79	122.59
1	J	270	CYS	N-CA-CB	7.67	122.81	110.77
1	C	41	GLU	O-C-N	7.67	132.79	122.59
1	B	270	CYS	N-CA-CB	7.67	122.81	110.77
1	E	366	ASN	OD1-CG-ND2	7.66	130.26	122.60
1	I	366	ASN	OD1-CG-ND2	7.66	130.26	122.60
1	A	366	ASN	OD1-CG-ND2	7.66	130.26	122.60
1	F	229	THR	CB-CA-C	7.66	123.46	110.74
1	I	41	GLU	O-C-N	7.66	132.78	122.59
1	I	270	CYS	N-CA-CB	7.66	122.80	110.77
1	A	270	CYS	N-CA-CB	7.65	122.79	110.77
1	L	70	ASP	O-C-N	7.65	130.56	121.76
1	G	270	CYS	N-CA-CB	7.65	122.78	110.77
1	G	229	THR	CB-CA-C	7.64	123.43	110.74
1	H	229	THR	CB-CA-C	7.64	123.42	110.74
1	I	88	ARG	NE-CZ-NH1	7.63	129.13	121.50
1	J	366	ASN	OD1-CG-ND2	7.63	130.23	122.60
1	B	229	THR	CB-CA-C	7.63	123.41	110.74
1	D	270	CYS	N-CA-CB	7.63	122.75	110.77
1	C	229	THR	CB-CA-C	7.63	123.40	110.74
1	B	88	ARG	NE-CZ-NH1	7.62	129.12	121.50
1	C	270	CYS	N-CA-CB	7.62	122.73	110.77
1	L	229	THR	CB-CA-C	7.62	123.38	110.74
1	A	229	THR	CB-CA-C	7.61	123.38	110.74
1	D	229	THR	CB-CA-C	7.61	123.38	110.74
1	E	229	THR	CB-CA-C	7.61	123.37	110.74
1	D	366	ASN	OD1-CG-ND2	7.60	130.20	122.60
1	F	41	GLU	O-C-N	7.60	132.69	122.59
1	J	229	THR	CB-CA-C	7.59	123.34	110.74
1	D	88	ARG	NE-CZ-NH1	7.59	129.09	121.50
1	E	270	CYS	N-CA-CB	7.59	122.69	110.77
1	K	41	GLU	O-C-N	7.59	132.68	122.59
1	G	41	GLU	O-C-N	7.58	132.67	122.59
1	A	41	GLU	O-C-N	7.57	132.66	122.59
1	H	88	ARG	NE-CZ-NH1	7.57	129.07	121.50
1	K	229	THR	CB-CA-C	7.57	123.31	110.74
1	B	41	GLU	O-C-N	7.56	132.65	122.59
1	L	88	ARG	NE-CZ-NH1	7.56	129.06	121.50
1	H	41	GLU	O-C-N	7.56	132.65	122.59
1	E	88	ARG	NE-CZ-NH1	7.56	129.06	121.50
1	K	88	ARG	NE-CZ-NH1	7.56	129.06	121.50
1	L	41	GLU	O-C-N	7.56	132.64	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	88	ARG	NE-CZ-NH1	7.56	129.06	121.50
1	F	88	ARG	NE-CZ-NH1	7.56	129.06	121.50
1	C	88	ARG	NE-CZ-NH1	7.55	129.05	121.50
1	I	229	THR	CB-CA-C	7.55	123.28	110.74
1	F	75	VAL	CA-C-O	-7.53	111.84	120.95
1	E	362	ASP	CA-CB-CG	7.52	120.12	112.60
1	C	180	PHE	CA-CB-CG	7.50	121.30	113.80
1	B	180	PHE	CA-CB-CG	7.49	121.29	113.80
1	K	419	ASN	OD1-CG-ND2	7.49	130.09	122.60
1	B	75	VAL	CA-C-O	-7.48	111.90	120.95
1	H	419	ASN	OD1-CG-ND2	7.47	130.07	122.60
1	K	180	PHE	CA-CB-CG	7.47	121.27	113.80
1	L	135	PHE	CA-C-N	7.46	133.17	120.71
1	L	135	PHE	C-N-CA	7.46	133.17	120.71
1	A	135	PHE	CA-C-N	7.46	133.17	120.71
1	A	135	PHE	C-N-CA	7.46	133.17	120.71
1	I	362	ASP	CA-CB-CG	7.46	120.06	112.60
1	K	166	GLY	CA-C-N	7.46	136.03	121.41
1	K	166	GLY	C-N-CA	7.46	136.03	121.41
1	F	135	PHE	CA-C-N	7.46	133.16	120.71
1	F	135	PHE	C-N-CA	7.46	133.16	120.71
1	G	88	ARG	NE-CZ-NH1	7.46	128.96	121.50
1	J	182	VAL	CA-C-N	7.45	128.06	120.38
1	J	182	VAL	C-N-CA	7.45	128.06	120.38
1	J	216	ALA	N-CA-C	7.45	121.87	107.71
1	A	182	VAL	CA-C-N	7.45	128.06	120.38
1	A	182	VAL	C-N-CA	7.45	128.06	120.38
1	J	88	ARG	NE-CZ-NH1	7.45	128.95	121.50
1	K	182	VAL	CA-C-N	7.45	128.06	120.38
1	K	182	VAL	C-N-CA	7.45	128.06	120.38
1	D	75	VAL	CA-C-O	-7.45	111.94	120.95
1	I	166	GLY	CA-C-N	7.45	136.00	121.41
1	I	166	GLY	C-N-CA	7.45	136.00	121.41
1	G	182	VAL	CA-C-N	7.44	128.05	120.38
1	G	182	VAL	C-N-CA	7.44	128.05	120.38
1	H	182	VAL	CA-C-N	7.44	128.05	120.38
1	H	182	VAL	C-N-CA	7.44	128.05	120.38
1	A	180	PHE	CA-CB-CG	7.44	121.24	113.80
1	G	362	ASP	CA-CB-CG	7.44	120.04	112.60
1	E	135	PHE	CA-C-N	7.44	133.13	120.71
1	E	135	PHE	C-N-CA	7.44	133.13	120.71
1	L	362	ASP	CA-CB-CG	7.44	120.04	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	135	PHE	CA-C-N	7.44	133.13	120.71
1	K	135	PHE	C-N-CA	7.44	133.13	120.71
1	K	216	ALA	N-CA-C	7.44	121.84	107.71
1	I	135	PHE	CA-C-N	7.43	133.13	120.71
1	I	135	PHE	C-N-CA	7.43	133.13	120.71
1	I	182	VAL	CA-C-N	7.43	128.04	120.38
1	I	182	VAL	C-N-CA	7.43	128.04	120.38
1	J	362	ASP	CA-CB-CG	7.43	120.03	112.60
1	K	75	VAL	CA-C-O	-7.43	111.95	120.95
1	J	180	PHE	CA-CB-CG	7.43	121.23	113.80
1	E	214	ALA	N-CA-C	7.43	120.52	108.34
1	D	216	ALA	N-CA-C	7.43	121.82	107.71
1	F	216	ALA	N-CA-C	7.43	121.82	107.71
1	H	135	PHE	CA-C-N	7.43	133.11	120.71
1	H	135	PHE	C-N-CA	7.43	133.11	120.71
1	L	166	GLY	CA-C-N	7.43	135.97	121.41
1	L	166	GLY	C-N-CA	7.43	135.97	121.41
1	L	182	VAL	CA-C-N	7.43	128.03	120.38
1	L	182	VAL	C-N-CA	7.43	128.03	120.38
1	F	180	PHE	CA-CB-CG	7.42	121.22	113.80
1	A	75	VAL	CA-C-O	-7.42	111.97	120.95
1	C	216	ALA	N-CA-C	7.42	121.81	107.71
1	E	252	THR	CA-C-N	-7.42	111.81	122.94
1	E	252	THR	C-N-CA	-7.42	111.81	122.94
1	H	180	PHE	CA-CB-CG	7.42	121.22	113.80
1	C	182	VAL	CA-C-N	7.42	128.02	120.38
1	C	182	VAL	C-N-CA	7.42	128.02	120.38
1	B	216	ALA	N-CA-C	7.42	121.80	107.71
1	D	182	VAL	CA-C-N	7.42	128.02	120.38
1	D	182	VAL	C-N-CA	7.42	128.02	120.38
1	E	75	VAL	CA-C-O	-7.42	111.98	120.95
1	H	166	GLY	CA-C-N	7.42	135.94	121.41
1	H	166	GLY	C-N-CA	7.42	135.94	121.41
1	L	75	VAL	CA-C-O	-7.42	111.98	120.95
1	G	180	PHE	CA-CB-CG	7.41	121.21	113.80
1	G	214	ALA	N-CA-C	7.41	120.50	108.34
1	I	180	PHE	CA-CB-CG	7.41	121.21	113.80
1	H	75	VAL	CA-C-O	-7.41	111.98	120.95
1	A	216	ALA	N-CA-C	7.41	121.78	107.71
1	C	166	GLY	CA-C-N	7.41	135.93	121.41
1	C	166	GLY	C-N-CA	7.41	135.93	121.41
1	A	362	ASP	CA-CB-CG	7.41	120.00	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	214	ALA	N-CA-C	7.40	120.48	108.34
1	D	166	GLY	CA-C-N	7.40	135.91	121.41
1	D	166	GLY	C-N-CA	7.40	135.91	121.41
1	B	362	ASP	CA-CB-CG	7.40	120.00	112.60
1	E	216	ALA	N-CA-C	7.39	121.76	107.71
1	F	214	ALA	N-CA-C	7.39	120.46	108.34
1	K	214	ALA	N-CA-C	7.39	120.46	108.34
1	L	214	ALA	N-CA-C	7.39	120.46	108.34
1	L	252	THR	CA-C-N	-7.39	111.85	122.94
1	L	252	THR	C-N-CA	-7.39	111.85	122.94
1	A	214	ALA	N-CA-C	7.39	120.46	108.34
1	C	75	VAL	CA-C-O	-7.39	112.01	120.95
1	E	419	ASN	OD1-CG-ND2	7.39	129.99	122.60
1	L	180	PHE	CA-CB-CG	7.39	121.19	113.80
1	D	214	ALA	N-CA-C	7.39	120.46	108.34
1	I	216	ALA	N-CA-C	7.39	121.74	107.71
1	J	166	GLY	CA-C-N	7.38	135.88	121.41
1	J	166	GLY	C-N-CA	7.38	135.88	121.41
1	F	182	VAL	CA-C-N	7.38	127.98	120.38
1	F	182	VAL	C-N-CA	7.38	127.98	120.38
1	D	419	ASN	OD1-CG-ND2	7.38	129.98	122.60
1	A	166	GLY	CA-C-N	7.38	135.87	121.41
1	A	166	GLY	C-N-CA	7.38	135.87	121.41
1	F	166	GLY	CA-C-N	7.37	135.86	121.41
1	F	166	GLY	C-N-CA	7.37	135.86	121.41
1	J	316	THR	OG1-CB-CG2	7.37	124.04	109.30
1	F	252	THR	CA-C-N	-7.37	111.89	122.94
1	F	252	THR	C-N-CA	-7.37	111.89	122.94
1	I	75	VAL	CA-C-O	-7.37	112.03	120.95
1	I	17	VAL	CA-CB-CG2	7.37	122.92	110.40
1	C	465	TYR	CB-CA-C	7.37	123.86	109.72
1	D	252	THR	CA-C-N	-7.37	111.89	122.94
1	D	252	THR	C-N-CA	-7.37	111.89	122.94
1	G	75	VAL	CA-C-O	-7.37	112.04	120.95
1	D	180	PHE	CA-CB-CG	7.36	121.16	113.80
1	G	216	ALA	N-CA-C	7.36	121.70	107.71
1	E	166	GLY	CA-C-N	7.36	135.84	121.41
1	E	166	GLY	C-N-CA	7.36	135.84	121.41
1	F	362	ASP	CA-CB-CG	7.36	119.96	112.60
1	G	166	GLY	CA-C-N	7.36	135.84	121.41
1	G	166	GLY	C-N-CA	7.36	135.84	121.41
1	A	316	THR	OG1-CB-CG2	7.36	124.02	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	465	TYR	CB-CA-C	7.36	123.85	109.72
1	B	465	TYR	CB-CA-C	7.36	123.85	109.72
1	C	316	THR	OG1-CB-CG2	7.36	124.02	109.30
1	F	316	THR	OG1-CB-CG2	7.36	124.02	109.30
1	J	419	ASN	OD1-CG-ND2	7.36	129.96	122.60
1	B	214	ALA	N-CA-C	7.35	120.40	108.34
1	H	214	ALA	N-CA-C	7.35	120.40	108.34
1	H	17	VAL	CA-CB-CG2	7.35	122.90	110.40
1	E	182	VAL	CA-C-N	7.35	127.95	120.38
1	E	182	VAL	C-N-CA	7.35	127.95	120.38
1	I	214	ALA	N-CA-C	7.35	120.39	108.34
1	L	316	THR	OG1-CB-CG2	7.35	124.00	109.30
1	K	316	THR	OG1-CB-CG2	7.35	123.99	109.30
1	B	252	THR	CA-C-N	-7.34	111.92	122.94
1	B	252	THR	C-N-CA	-7.34	111.92	122.94
1	E	316	THR	OG1-CB-CG2	7.34	123.99	109.30
1	G	465	TYR	CB-CA-C	7.34	123.82	109.72
1	J	75	VAL	CA-C-O	-7.34	112.06	120.95
1	A	419	ASN	OD1-CG-ND2	7.34	129.94	122.60
1	B	166	GLY	CA-C-N	7.34	135.80	121.41
1	B	166	GLY	C-N-CA	7.34	135.80	121.41
1	B	182	VAL	CA-C-N	7.34	127.94	120.38
1	B	182	VAL	C-N-CA	7.34	127.94	120.38
1	B	316	THR	OG1-CB-CG2	7.34	123.98	109.30
1	C	17	VAL	CA-CB-CG2	7.34	122.87	110.40
1	C	252	THR	CA-C-N	-7.34	111.94	122.94
1	C	252	THR	C-N-CA	-7.34	111.94	122.94
1	E	17	VAL	CA-CB-CG2	7.34	122.87	110.40
1	H	362	ASP	CA-CB-CG	7.34	119.94	112.60
1	J	17	VAL	CA-CB-CG2	7.34	122.87	110.40
1	K	39	ASN	CA-CB-CG	-7.33	105.27	112.60
1	L	419	ASN	OD1-CG-ND2	7.33	129.94	122.60
1	G	17	VAL	CA-CB-CG2	7.33	122.87	110.40
1	G	316	THR	OG1-CB-CG2	7.33	123.97	109.30
1	H	316	THR	OG1-CB-CG2	7.33	123.97	109.30
1	J	252	THR	CA-C-N	-7.33	111.94	122.94
1	J	252	THR	C-N-CA	-7.33	111.94	122.94
1	K	252	THR	CA-C-N	-7.33	111.94	122.94
1	K	252	THR	C-N-CA	-7.33	111.94	122.94
1	K	362	ASP	CA-CB-CG	7.33	119.93	112.60
1	K	465	TYR	CB-CA-C	7.33	123.80	109.72
1	I	316	THR	OG1-CB-CG2	7.33	123.97	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	362	ASP	CA-CB-CG	7.33	119.93	112.60
1	C	362	ASP	CA-CB-CG	7.33	119.93	112.60
1	B	433	VAL	N-CA-CB	-7.32	99.14	111.23
1	G	252	THR	CA-C-N	-7.32	111.95	122.94
1	G	252	THR	C-N-CA	-7.32	111.95	122.94
1	L	465	TYR	CB-CA-C	7.32	123.78	109.72
1	H	252	THR	CA-C-N	-7.32	111.96	122.94
1	H	252	THR	C-N-CA	-7.32	111.96	122.94
1	A	252	THR	CA-C-N	-7.32	111.96	122.94
1	A	252	THR	C-N-CA	-7.32	111.96	122.94
1	D	465	TYR	CB-CA-C	7.32	123.77	109.72
1	H	465	TYR	CB-CA-C	7.32	123.77	109.72
1	A	465	TYR	CB-CA-C	7.32	123.77	109.72
1	I	433	VAL	N-CA-CB	-7.32	99.16	111.23
1	J	465	TYR	CB-CA-C	7.32	123.77	109.72
1	I	252	THR	CA-C-N	-7.31	111.97	122.94
1	I	252	THR	C-N-CA	-7.31	111.97	122.94
1	C	419	ASN	OD1-CG-ND2	7.31	129.91	122.60
1	F	419	ASN	OD1-CG-ND2	7.31	129.91	122.60
1	I	39	ASN	CA-CB-CG	-7.31	105.29	112.60
1	K	17	VAL	CA-CB-CG2	7.31	122.83	110.40
1	I	419	ASN	OD1-CG-ND2	7.31	129.91	122.60
1	D	17	VAL	CA-CB-CG2	7.31	122.82	110.40
1	E	180	PHE	CA-CB-CG	7.31	121.11	113.80
1	A	17	VAL	CA-CB-CG2	7.30	122.82	110.40
1	B	17	VAL	CA-CB-CG2	7.30	122.82	110.40
1	C	214	ALA	N-CA-C	7.30	120.32	108.34
1	F	17	VAL	CA-CB-CG2	7.30	122.82	110.40
1	F	433	VAL	N-CA-CB	-7.30	99.19	111.23
1	B	39	ASN	CA-CB-CG	-7.30	105.30	112.60
1	L	17	VAL	CA-CB-CG2	7.30	122.80	110.40
1	E	465	TYR	CB-CA-C	7.29	123.73	109.72
1	B	60	ILE	CB-CA-C	7.29	120.05	111.59
1	L	234	GLU	CB-CG-CD	7.29	125.00	112.60
1	B	419	ASN	OD1-CG-ND2	7.29	129.89	122.60
1	A	433	VAL	N-CA-CB	-7.29	99.20	111.23
1	D	433	VAL	N-CA-CB	-7.29	99.20	111.23
1	G	39	ASN	CA-CB-CG	-7.29	105.31	112.60
1	G	419	ASN	OD1-CG-ND2	7.29	129.89	122.60
1	C	433	VAL	N-CA-CB	-7.28	99.21	111.23
1	H	39	ASN	CA-CB-CG	-7.28	105.32	112.60
1	J	234	GLU	CB-CG-CD	7.28	124.98	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	316	THR	OG1-CB-CG2	7.28	123.86	109.30
1	F	465	TYR	CB-CA-C	7.28	123.69	109.72
1	A	39	ASN	CA-CB-CG	-7.28	105.33	112.60
1	C	234	GLU	CB-CG-CD	7.28	124.97	112.60
1	E	60	ILE	CB-CA-C	7.27	120.03	111.59
1	F	39	ASN	CA-CB-CG	-7.27	105.33	112.60
1	E	433	VAL	N-CA-CB	-7.27	99.23	111.23
1	J	433	VAL	CB-CA-C	7.27	123.22	111.29
1	L	60	ILE	CB-CA-C	7.27	120.02	111.59
1	C	433	VAL	CB-CA-C	7.26	123.20	111.29
1	G	433	VAL	N-CA-CB	-7.26	99.25	111.23
1	D	234	GLU	CB-CG-CD	7.26	124.94	112.60
1	G	234	GLU	CB-CG-CD	7.26	124.94	112.60
1	I	234	GLU	CB-CG-CD	7.26	124.94	112.60
1	A	234	GLU	CB-CG-CD	7.25	124.93	112.60
1	B	227	THR	CB-CA-C	7.25	123.72	109.35
1	L	433	VAL	N-CA-CB	-7.25	99.26	111.23
1	K	234	GLU	CB-CG-CD	7.25	124.93	112.60
1	H	433	VAL	N-CA-CB	-7.25	99.27	111.23
1	A	60	ILE	CB-CA-C	7.25	120.00	111.59
1	B	234	GLU	CB-CG-CD	7.25	124.92	112.60
1	E	39	ASN	CA-CB-CG	-7.25	105.35	112.60
1	J	433	VAL	N-CA-CB	-7.25	99.27	111.23
1	K	433	VAL	N-CA-CB	-7.25	99.27	111.23
1	I	60	ILE	CB-CA-C	7.25	120.00	111.59
1	G	227	THR	CB-CA-C	7.25	123.69	109.35
1	C	39	ASN	CA-CB-CG	-7.24	105.36	112.60
1	D	227	THR	CB-CA-C	7.24	123.69	109.35
1	F	234	GLU	CB-CG-CD	7.24	124.91	112.60
1	E	234	GLU	CB-CG-CD	7.24	124.91	112.60
1	K	433	VAL	CB-CA-C	7.24	123.16	111.29
1	H	60	ILE	CB-CA-C	7.24	119.98	111.59
1	A	433	VAL	CB-CA-C	7.23	123.15	111.29
1	D	413	SER	N-CA-C	7.23	126.20	110.80
1	J	227	THR	CB-CA-C	7.23	123.66	109.35
1	L	39	ASN	CA-CB-CG	-7.23	105.37	112.60
1	D	433	VAL	CB-CA-C	7.22	123.14	111.29
1	I	227	THR	CB-CA-C	7.22	123.65	109.35
1	B	413	SER	N-CA-C	7.22	126.18	110.80
1	A	227	THR	CB-CA-C	7.21	123.62	109.35
1	G	433	VAL	CB-CA-C	7.21	123.11	111.29
1	I	355	ARG	CD-NE-CZ	-7.21	114.31	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	433	VAL	CB-CA-C	7.20	123.10	111.29
1	L	413	SER	N-CA-C	7.20	126.14	110.80
1	D	39	ASN	CA-CB-CG	-7.20	105.40	112.60
1	I	433	VAL	CB-CA-C	7.20	123.10	111.29
1	C	413	SER	N-CA-C	7.20	126.13	110.80
1	D	355	ARG	CD-NE-CZ	-7.20	114.33	124.40
1	F	355	ARG	CD-NE-CZ	-7.20	114.33	124.40
1	I	413	SER	N-CA-C	7.20	126.13	110.80
1	L	355	ARG	CD-NE-CZ	-7.20	114.33	124.40
1	H	355	ARG	CD-NE-CZ	-7.19	114.33	124.40
1	K	227	THR	CB-CA-C	7.19	123.59	109.35
1	J	355	ARG	CD-NE-CZ	-7.19	114.33	124.40
1	L	227	THR	CB-CA-C	7.19	123.59	109.35
1	A	413	SER	N-CA-C	7.19	126.11	110.80
1	G	136	ASP	N-CA-C	7.19	118.90	111.14
1	F	227	THR	CB-CA-C	7.18	123.58	109.35
1	H	413	SER	N-CA-C	7.18	126.10	110.80
1	L	433	VAL	CB-CA-C	7.18	123.07	111.29
1	E	227	THR	CB-CA-C	7.18	123.57	109.35
1	J	60	ILE	CB-CA-C	7.18	119.92	111.59
1	D	60	ILE	CB-CA-C	7.18	119.92	111.59
1	D	132	PHE	CA-C-O	-7.18	113.77	121.45
1	H	234	GLU	CB-CG-CD	7.18	124.80	112.60
1	J	39	ASN	CA-CB-CG	-7.18	105.42	112.60
1	C	227	THR	CB-CA-C	7.17	123.55	109.35
1	G	132	PHE	CA-C-O	-7.17	113.78	121.45
1	F	60	ILE	CB-CA-C	7.17	119.91	111.59
1	C	355	ARG	CD-NE-CZ	-7.17	114.37	124.40
1	E	355	ARG	CD-NE-CZ	-7.17	114.37	124.40
1	E	413	SER	N-CA-C	7.17	126.06	110.80
1	H	227	THR	CB-CA-C	7.16	123.53	109.35
1	J	132	PHE	CA-C-O	-7.16	113.79	121.45
1	B	136	ASP	N-CA-C	7.16	118.87	111.14
1	F	413	SER	N-CA-C	7.15	126.04	110.80
1	F	433	VAL	CB-CA-C	7.15	123.02	111.29
1	A	355	ARG	CD-NE-CZ	-7.15	114.39	124.40
1	K	60	ILE	CB-CA-C	7.15	119.89	111.59
1	G	355	ARG	CD-NE-CZ	-7.15	114.39	124.40
1	B	355	ARG	CD-NE-CZ	-7.15	114.39	124.40
1	B	433	VAL	CB-CA-C	7.15	123.01	111.29
1	C	60	ILE	CB-CA-C	7.14	119.88	111.59
1	G	413	SER	N-CA-C	7.14	126.02	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	458	HIS	N-CA-C	7.14	118.65	109.72
1	K	355	ARG	CD-NE-CZ	-7.14	114.40	124.40
1	C	228	MET	CB-CA-C	7.14	124.63	110.42
1	D	458	HIS	N-CA-C	7.14	118.64	109.72
1	E	433	VAL	CB-CA-C	7.14	123.00	111.29
1	C	132	PHE	CA-C-O	-7.14	113.81	121.45
1	L	132	PHE	CA-C-O	-7.14	113.81	121.45
1	C	136	ASP	N-CA-C	7.13	118.84	111.14
1	J	136	ASP	N-CA-C	7.13	118.84	111.14
1	I	132	PHE	CA-C-O	-7.12	113.83	121.45
1	J	413	SER	N-CA-C	7.12	125.98	110.80
1	G	60	ILE	CB-CA-C	7.12	119.85	111.59
1	J	458	HIS	N-CA-C	7.11	118.61	109.72
1	A	132	PHE	CA-C-O	-7.11	113.84	121.45
1	F	228	MET	CB-CA-C	7.11	124.56	110.42
1	L	228	MET	CB-CA-C	7.11	124.56	110.42
1	D	136	ASP	N-CA-C	7.11	118.81	111.14
1	E	458	HIS	N-CA-C	7.10	118.60	109.72
1	F	132	PHE	CA-C-O	-7.10	113.85	121.45
1	K	413	SER	N-CA-C	7.10	125.93	110.80
1	I	228	MET	CB-CA-C	7.10	124.55	110.42
1	D	228	MET	CB-CA-C	7.10	124.54	110.42
1	L	140	PHE	O-C-N	7.09	130.38	123.29
1	H	132	PHE	CA-C-O	-7.09	113.86	121.45
1	C	116	ARG	NE-CZ-NH1	-7.09	114.41	121.50
1	E	132	PHE	CA-C-O	-7.08	113.87	121.45
1	L	458	HIS	N-CA-C	7.08	118.57	109.72
1	B	458	HIS	N-CA-C	7.08	118.57	109.72
1	K	228	MET	CB-CA-C	7.08	124.50	110.42
1	A	458	HIS	N-CA-C	7.07	118.56	109.72
1	A	228	MET	CB-CA-C	7.06	124.47	110.42
1	H	116	ARG	NE-CZ-NH1	-7.06	114.44	121.50
1	C	458	HIS	N-CA-C	7.06	118.54	109.72
1	E	228	MET	CB-CA-C	7.06	124.46	110.42
1	G	458	HIS	N-CA-C	7.06	118.54	109.72
1	B	140	PHE	O-C-N	7.05	130.34	123.29
1	B	132	PHE	CA-C-O	-7.05	113.91	121.45
1	H	228	MET	CB-CA-C	7.05	124.44	110.42
1	A	140	PHE	O-C-N	7.04	130.34	123.29
1	B	116	ARG	NE-CZ-NH1	-7.04	114.46	121.50
1	K	132	PHE	CA-C-O	-7.04	113.91	121.45
1	B	57	TRP	N-CA-CB	7.04	122.39	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	140	PHE	O-C-N	7.04	130.33	123.29
1	C	57	TRP	N-CA-CB	7.04	122.38	110.49
1	K	57	TRP	N-CA-CB	7.04	122.38	110.49
1	J	116	ARG	NE-CZ-NH1	-7.03	114.47	121.50
1	J	228	MET	CB-CA-C	7.03	124.42	110.42
1	G	228	MET	CB-CA-C	7.03	124.41	110.42
1	L	57	TRP	N-CA-CB	7.03	122.37	110.49
1	A	57	TRP	N-CA-CB	7.03	122.36	110.49
1	I	140	PHE	O-C-N	7.02	130.31	123.29
1	B	228	MET	CB-CA-C	7.02	124.39	110.42
1	K	458	HIS	N-CA-C	7.02	118.49	109.72
1	J	57	TRP	N-CA-CB	7.02	122.35	110.49
1	L	54	ILE	N-CA-CB	7.02	122.81	111.23
1	F	116	ARG	NE-CZ-NH1	-7.01	114.49	121.50
1	G	57	TRP	N-CA-CB	7.01	122.34	110.49
1	G	140	PHE	O-C-N	7.01	130.30	123.29
1	I	57	TRP	N-CA-CB	7.01	122.33	110.49
1	B	431	GLY	N-CA-C	-7.00	106.09	113.58
1	A	116	ARG	NE-CZ-NH1	-6.99	114.51	121.50
1	C	119	GLY	N-CA-C	-6.99	105.42	114.85
1	H	54	ILE	N-CA-CB	6.99	122.76	111.23
1	D	57	TRP	N-CA-CB	6.98	122.29	110.49
1	E	54	ILE	N-CA-CB	6.98	122.75	111.23
1	G	116	ARG	NE-CZ-NH1	-6.98	114.52	121.50
1	K	140	PHE	O-C-N	6.98	130.27	123.29
1	H	57	TRP	N-CA-CB	6.98	122.28	110.49
1	L	116	ARG	NE-CZ-NH1	-6.98	114.52	121.50
1	J	140	PHE	O-C-N	6.97	130.26	123.29
1	D	116	ARG	NE-CZ-NH1	-6.97	114.53	121.50
1	F	140	PHE	O-C-N	6.97	130.26	123.29
1	H	140	PHE	O-C-N	6.97	130.26	123.29
1	B	11	GLU	CA-C-N	-6.97	111.18	122.26
1	B	11	GLU	C-N-CA	-6.97	111.18	122.26
1	H	11	GLU	CA-C-N	-6.97	111.18	122.26
1	H	11	GLU	C-N-CA	-6.97	111.18	122.26
1	D	54	ILE	N-CA-CB	6.96	122.72	111.23
1	K	54	ILE	N-CA-CB	6.96	122.72	111.23
1	A	54	ILE	N-CA-CB	6.96	122.71	111.23
1	L	11	GLU	CA-C-N	-6.96	111.20	122.26
1	L	11	GLU	C-N-CA	-6.96	111.20	122.26
1	E	116	ARG	NE-CZ-NH1	-6.95	114.55	121.50
1	E	140	PHE	O-C-N	6.95	130.24	123.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	57	TRP	N-CA-CB	6.95	122.23	110.49
1	D	140	PHE	O-C-N	6.95	130.24	123.29
1	F	11	GLU	CA-C-N	-6.95	111.22	122.26
1	F	11	GLU	C-N-CA	-6.95	111.22	122.26
1	G	11	GLU	CA-C-N	-6.95	111.22	122.26
1	G	11	GLU	C-N-CA	-6.95	111.22	122.26
1	H	156	GLY	N-CA-C	-6.95	96.72	113.18
1	J	54	ILE	N-CA-CB	6.94	122.69	111.23
1	B	54	ILE	N-CA-CB	6.94	122.69	111.23
1	E	57	TRP	N-CA-CB	6.94	122.22	110.49
1	J	431	GLY	N-CA-C	-6.93	106.16	113.58
1	L	119	GLY	N-CA-C	-6.93	105.49	114.85
1	F	54	ILE	N-CA-CB	6.93	122.66	111.23
1	I	11	GLU	CA-C-N	-6.93	111.24	122.26
1	I	11	GLU	C-N-CA	-6.93	111.24	122.26
1	F	431	GLY	N-CA-C	-6.93	106.17	113.58
1	B	156	GLY	N-CA-C	-6.93	96.76	113.18
1	K	11	GLU	CA-C-N	-6.93	111.25	122.26
1	K	11	GLU	C-N-CA	-6.93	111.25	122.26
1	C	54	ILE	N-CA-CB	6.92	122.66	111.23
1	L	156	GLY	N-CA-C	-6.92	96.77	113.18
1	A	11	GLU	CA-C-N	-6.92	111.25	122.26
1	A	11	GLU	C-N-CA	-6.92	111.25	122.26
1	B	432	GLY	N-CA-C	-6.92	105.65	114.37
1	F	155	GLU	CA-CB-CG	6.92	127.94	114.10
1	I	90	ASP	O-C-N	6.92	130.77	122.26
1	I	156	GLY	N-CA-C	-6.92	96.78	113.18
1	E	119	GLY	N-CA-C	-6.92	105.51	114.85
1	I	54	ILE	N-CA-CB	6.92	122.65	111.23
1	J	156	GLY	N-CA-C	-6.92	96.79	113.18
1	K	116	ARG	NE-CZ-NH1	-6.92	114.58	121.50
1	A	119	GLY	N-CA-C	-6.91	105.52	114.85
1	A	323	VAL	O-C-N	6.91	128.98	121.10
1	C	431	GLY	N-CA-C	-6.91	106.19	113.58
1	C	11	GLU	CA-C-N	-6.91	111.28	122.26
1	C	11	GLU	C-N-CA	-6.91	111.28	122.26
1	F	119	GLY	N-CA-C	-6.91	105.53	114.85
1	I	431	GLY	N-CA-C	-6.91	106.19	113.58
1	L	431	GLY	N-CA-C	-6.91	106.19	113.58
1	D	156	GLY	N-CA-C	-6.91	96.81	113.18
1	E	155	GLU	CA-CB-CG	6.91	127.91	114.10
1	I	323	VAL	O-C-N	6.90	128.97	121.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	155	GLU	CA-CB-CG	6.90	127.91	114.10
1	G	155	GLU	CA-CB-CG	6.90	127.91	114.10
1	A	431	GLY	N-CA-C	-6.90	106.20	113.58
1	E	156	GLY	N-CA-C	-6.90	96.82	113.18
1	F	90	ASP	O-C-N	6.90	130.75	122.26
1	D	11	GLU	CA-C-N	-6.90	111.29	122.26
1	D	11	GLU	C-N-CA	-6.90	111.29	122.26
1	I	155	GLU	CA-CB-CG	6.90	127.90	114.10
1	A	155	GLU	CA-CB-CG	6.90	127.89	114.10
1	A	156	GLY	N-CA-C	-6.90	96.83	113.18
1	G	54	ILE	N-CA-CB	6.90	122.61	111.23
1	H	23	ASP	N-CA-CB	6.90	122.15	110.49
1	K	119	GLY	N-CA-C	-6.90	105.54	114.85
1	D	90	ASP	O-C-N	6.90	130.74	122.26
1	K	156	GLY	N-CA-C	-6.90	96.84	113.18
1	I	116	ARG	NE-CZ-NH1	-6.89	114.61	121.50
1	E	11	GLU	CA-C-N	-6.89	111.30	122.26
1	E	11	GLU	C-N-CA	-6.89	111.30	122.26
1	F	156	GLY	N-CA-C	-6.89	96.85	113.18
1	G	323	VAL	O-C-N	6.89	128.95	121.10
1	J	155	GLU	CA-CB-CG	6.89	127.88	114.10
1	K	431	GLY	N-CA-C	-6.89	106.21	113.58
1	D	155	GLU	CA-CB-CG	6.89	127.88	114.10
1	G	431	GLY	N-CA-C	-6.89	106.21	113.58
1	J	119	GLY	N-CA-C	-6.89	105.55	114.85
1	K	155	GLU	CA-CB-CG	6.89	127.87	114.10
1	G	156	GLY	N-CA-C	-6.88	96.87	113.18
1	B	155	GLU	CA-CB-CG	6.88	127.85	114.10
1	C	156	GLY	N-CA-C	-6.87	96.89	113.18
1	C	323	VAL	O-C-N	6.87	128.94	121.10
1	D	323	VAL	O-C-N	6.87	128.94	121.10
1	H	155	GLU	CA-CB-CG	6.87	127.85	114.10
1	I	119	GLY	N-CA-C	-6.87	105.57	114.85
1	J	11	GLU	CA-C-N	-6.87	111.33	122.26
1	J	11	GLU	C-N-CA	-6.87	111.33	122.26
1	H	323	VAL	O-C-N	6.87	128.93	121.10
1	C	155	GLU	CA-CB-CG	6.87	127.83	114.10
1	B	119	GLY	N-CA-C	-6.86	105.59	114.85
1	D	431	GLY	N-CA-C	-6.86	106.24	113.58
1	D	432	GLY	N-CA-C	-6.86	105.73	114.37
1	F	432	GLY	N-CA-C	-6.85	105.73	114.37
1	J	90	ASP	O-C-N	6.85	130.69	122.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	323	VAL	O-C-N	6.85	128.91	121.10
1	H	432	GLY	N-CA-C	-6.85	105.74	114.37
1	C	432	GLY	N-CA-C	-6.85	105.74	114.37
1	L	323	VAL	O-C-N	6.85	128.91	121.10
1	E	166	GLY	O-C-N	6.85	130.07	122.54
1	K	432	GLY	N-CA-C	-6.84	105.75	114.37
1	J	432	GLY	N-CA-C	-6.84	105.75	114.37
1	C	90	ASP	O-C-N	6.84	130.67	122.26
1	D	23	ASP	N-CA-CB	6.84	122.05	110.49
1	H	119	GLY	N-CA-C	-6.84	105.62	114.85
1	E	23	ASP	N-CA-CB	6.84	122.04	110.49
1	E	90	ASP	O-C-N	6.83	130.67	122.26
1	B	323	VAL	O-C-N	6.83	128.89	121.10
1	G	119	GLY	N-CA-C	-6.83	105.62	114.85
1	G	432	GLY	N-CA-C	-6.83	105.76	114.37
1	H	89	CYS	O-C-N	6.83	131.67	122.59
1	A	90	ASP	O-C-N	6.83	130.65	122.26
1	J	323	VAL	O-C-N	6.82	128.88	121.10
1	E	432	GLY	N-CA-C	-6.82	105.78	114.37
1	L	432	GLY	N-CA-C	-6.82	105.78	114.37
1	A	432	GLY	N-CA-C	-6.82	105.78	114.37
1	E	323	VAL	O-C-N	6.81	128.87	121.10
1	A	23	ASP	N-CA-CB	6.81	122.00	110.49
1	C	23	ASP	N-CA-CB	6.81	122.00	110.49
1	L	23	ASP	N-CA-CB	6.81	122.00	110.49
1	L	122	ASP	N-CA-C	6.81	121.72	113.41
1	H	90	ASP	O-C-N	6.81	130.63	122.26
1	B	23	ASP	N-CA-CB	6.80	121.99	110.49
1	D	89	CYS	O-C-N	6.80	131.64	122.59
1	F	166	GLY	O-C-N	6.80	130.03	122.54
1	A	122	ASP	N-CA-C	6.80	121.71	113.41
1	K	23	ASP	N-CA-CB	6.80	121.99	110.49
1	C	122	ASP	N-CA-C	6.80	121.70	113.41
1	B	166	GLY	O-C-N	6.80	130.02	122.54
1	K	323	VAL	O-C-N	6.80	128.85	121.10
1	D	119	GLY	N-CA-C	-6.79	105.68	114.85
1	F	23	ASP	N-CA-CB	6.79	121.97	110.49
1	D	402	GLU	CA-CB-CG	6.79	127.67	114.10
1	E	76	ILE	N-CA-C	-6.79	95.23	109.34
1	B	89	CYS	O-C-N	6.78	131.61	122.59
1	J	23	ASP	N-CA-CB	6.78	121.95	110.49
1	D	122	ASP	N-CA-C	6.78	121.68	113.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	23	ASP	N-CA-CB	6.78	121.95	110.49
1	B	76	ILE	N-CA-C	-6.78	95.25	109.34
1	B	90	ASP	O-C-N	6.77	130.59	122.26
1	H	431	GLY	N-CA-C	-6.77	106.33	113.58
1	K	90	ASP	O-C-N	6.77	130.59	122.26
1	G	90	ASP	O-C-N	6.77	130.59	122.26
1	K	76	ILE	N-CA-C	-6.77	95.26	109.34
1	E	431	GLY	N-CA-C	-6.77	106.34	113.58
1	F	76	ILE	N-CA-C	-6.77	95.26	109.34
1	G	166	GLY	O-C-N	6.77	129.99	122.54
1	B	122	ASP	N-CA-C	6.76	121.66	113.41
1	C	76	ILE	N-CA-C	-6.76	95.27	109.34
1	E	122	ASP	N-CA-C	6.76	121.66	113.41
1	A	76	ILE	N-CA-C	-6.76	95.28	109.34
1	I	432	GLY	N-CA-C	-6.76	105.85	114.37
1	D	76	ILE	N-CA-C	-6.76	95.28	109.34
1	D	354	ARG	CA-CB-CG	6.76	127.61	114.10
1	F	122	ASP	N-CA-C	6.76	121.65	113.41
1	G	23	ASP	N-CA-CB	6.76	121.91	110.49
1	I	23	ASP	CA-C-N	6.76	134.44	121.54
1	I	23	ASP	C-N-CA	6.76	134.44	121.54
1	J	76	ILE	N-CA-C	-6.76	95.28	109.34
1	I	122	ASP	N-CA-C	6.75	121.65	113.41
1	J	166	GLY	O-C-N	6.75	129.97	122.54
1	J	402	GLU	CA-CB-CG	6.75	127.61	114.10
1	C	89	CYS	O-C-N	6.75	131.57	122.59
1	L	90	ASP	O-C-N	6.75	130.56	122.26
1	G	76	ILE	N-CA-C	-6.75	95.30	109.34
1	B	402	GLU	CA-CB-CG	6.75	127.59	114.10
1	H	84	THR	CA-C-N	-6.75	113.24	122.95
1	H	84	THR	C-N-CA	-6.75	113.24	122.95
1	E	354	ARG	CA-CB-CG	6.74	127.59	114.10
1	L	402	GLU	CA-CB-CG	6.74	127.58	114.10
1	I	76	ILE	N-CA-C	-6.74	95.32	109.34
1	A	166	GLY	O-C-N	6.74	129.95	122.54
1	A	402	GLU	CA-CB-CG	6.74	127.58	114.10
1	G	402	GLU	CA-CB-CG	6.74	127.58	114.10
1	G	89	CYS	O-C-N	6.74	131.55	122.59
1	H	76	ILE	N-CA-C	-6.74	95.33	109.34
1	I	166	GLY	O-C-N	6.74	129.95	122.54
1	K	122	ASP	N-CA-C	6.74	121.63	113.41
1	H	402	GLU	CA-CB-CG	6.73	127.57	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	84	THR	CA-C-N	-6.73	113.25	122.95
1	J	84	THR	C-N-CA	-6.73	113.25	122.95
1	L	89	CYS	O-C-N	6.73	131.55	122.59
1	C	402	GLU	CA-CB-CG	6.73	127.56	114.10
1	I	402	GLU	CA-CB-CG	6.73	127.56	114.10
1	K	70	ASP	O-C-N	6.73	130.67	121.92
1	F	23	ASP	CA-C-N	6.73	134.39	121.54
1	F	23	ASP	C-N-CA	6.73	134.39	121.54
1	L	76	ILE	N-CA-C	-6.72	95.36	109.34
1	F	402	GLU	CA-CB-CG	6.72	127.54	114.10
1	E	402	GLU	CA-CB-CG	6.72	127.54	114.10
1	J	122	ASP	N-CA-C	6.72	121.61	113.41
1	D	84	THR	CA-C-N	-6.71	113.28	122.95
1	D	84	THR	C-N-CA	-6.71	113.28	122.95
1	F	89	CYS	O-C-N	6.71	131.52	122.59
1	J	23	ASP	CA-C-N	6.71	134.35	121.54
1	J	23	ASP	C-N-CA	6.71	134.35	121.54
1	K	402	GLU	CA-CB-CG	6.71	127.52	114.10
1	A	354	ARG	CA-CB-CG	6.71	127.51	114.10
1	H	70	ASP	O-C-N	6.71	130.64	121.92
1	I	89	CYS	O-C-N	6.71	131.51	122.59
1	L	23	ASP	CA-C-N	6.71	134.35	121.54
1	L	23	ASP	C-N-CA	6.71	134.35	121.54
1	C	166	GLY	O-C-N	6.70	129.91	122.54
1	H	23	ASP	CA-C-N	6.70	134.34	121.54
1	H	23	ASP	C-N-CA	6.70	134.34	121.54
1	K	84	THR	CA-C-N	-6.70	113.30	122.95
1	K	84	THR	C-N-CA	-6.70	113.30	122.95
1	A	70	ASP	O-C-N	6.70	130.63	121.92
1	G	122	ASP	N-CA-C	6.70	121.58	113.41
1	B	23	ASP	CA-C-N	6.70	134.33	121.54
1	B	23	ASP	C-N-CA	6.70	134.33	121.54
1	B	354	ARG	CA-CB-CG	6.69	127.49	114.10
1	I	354	ARG	CA-CB-CG	6.69	127.49	114.10
1	K	354	ARG	CA-CB-CG	6.69	127.49	114.10
1	J	70	ASP	O-C-N	6.69	130.62	121.92
1	B	70	ASP	O-C-N	6.69	130.62	121.92
1	C	23	ASP	CA-C-N	6.69	134.32	121.54
1	C	23	ASP	C-N-CA	6.69	134.32	121.54
1	F	84	THR	CA-C-N	-6.69	113.32	122.95
1	F	84	THR	C-N-CA	-6.69	113.32	122.95
1	A	84	THR	CA-C-N	-6.69	113.32	122.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	84	THR	C-N-CA	-6.69	113.32	122.95
1	A	89	CYS	O-C-N	6.69	131.49	122.59
1	D	166	GLY	O-C-N	6.69	129.89	122.54
1	E	23	ASP	CA-C-N	6.69	134.31	121.54
1	E	23	ASP	C-N-CA	6.69	134.31	121.54
1	A	23	ASP	CA-C-N	6.68	134.31	121.54
1	A	23	ASP	C-N-CA	6.68	134.31	121.54
1	K	23	ASP	CA-C-N	6.68	134.30	121.54
1	K	23	ASP	C-N-CA	6.68	134.30	121.54
1	D	23	ASP	CA-C-N	6.68	134.30	121.54
1	D	23	ASP	C-N-CA	6.68	134.30	121.54
1	G	354	ARG	CA-CB-CG	6.68	127.45	114.10
1	J	354	ARG	CA-CB-CG	6.68	127.45	114.10
1	C	354	ARG	CA-CB-CG	6.67	127.45	114.10
1	H	354	ARG	CA-CB-CG	6.67	127.45	114.10
1	H	166	GLY	O-C-N	6.67	129.88	122.54
1	G	23	ASP	CA-C-N	6.67	134.28	121.54
1	G	23	ASP	C-N-CA	6.67	134.28	121.54
1	B	84	THR	CA-C-N	-6.67	113.34	122.95
1	B	84	THR	C-N-CA	-6.67	113.34	122.95
1	J	89	CYS	O-C-N	6.67	131.46	122.59
1	G	84	THR	CA-C-N	-6.67	113.35	122.95
1	G	84	THR	C-N-CA	-6.67	113.35	122.95
1	L	354	ARG	CA-CB-CG	6.67	127.43	114.10
1	B	7	THR	CA-CB-OG1	6.66	119.59	109.60
1	I	70	ASP	O-C-N	6.66	130.58	121.92
1	L	166	GLY	O-C-N	6.66	129.87	122.54
1	K	89	CYS	O-C-N	6.65	131.44	122.59
1	G	7	THR	CA-CB-OG1	6.65	119.58	109.60
1	H	155	GLU	N-CA-C	-6.65	96.63	110.80
1	F	354	ARG	CA-CB-CG	6.65	127.39	114.10
1	B	17	VAL	CB-CA-C	6.65	122.19	111.29
1	C	84	THR	CA-C-N	-6.65	113.38	122.95
1	C	84	THR	C-N-CA	-6.65	113.38	122.95
1	H	17	VAL	CB-CA-C	6.65	122.19	111.29
1	G	70	ASP	O-C-N	6.64	130.56	121.92
1	H	122	ASP	N-CA-C	6.64	121.51	113.41
1	I	84	THR	CA-C-N	-6.64	113.39	122.95
1	I	84	THR	C-N-CA	-6.64	113.39	122.95
1	K	166	GLY	O-C-N	6.64	129.84	122.54
1	L	84	THR	CA-C-N	-6.64	113.39	122.95
1	L	84	THR	C-N-CA	-6.64	113.39	122.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	105	ARG	CD-NE-CZ	6.64	133.69	124.40
1	C	7	THR	CA-CB-OG1	6.63	119.55	109.60
1	D	155	GLU	N-CA-C	-6.63	96.67	110.80
1	F	70	ASP	O-C-N	6.63	130.54	121.92
1	K	17	VAL	CB-CA-C	6.63	122.17	111.29
1	E	89	CYS	O-C-N	6.63	131.41	122.59
1	F	7	THR	CA-CB-OG1	6.63	119.55	109.60
1	L	39	ASN	N-CA-CB	-6.63	99.28	110.49
1	D	105	ARG	CD-NE-CZ	6.63	133.68	124.40
1	K	155	GLU	N-CA-C	-6.63	96.68	110.80
1	E	84	THR	CA-C-N	-6.63	113.41	122.95
1	E	84	THR	C-N-CA	-6.63	113.41	122.95
1	G	288	ALA	N-CA-CB	-6.63	101.97	111.84
1	C	155	GLU	N-CA-C	-6.62	96.69	110.80
1	F	17	VAL	CB-CA-C	6.62	122.15	111.29
1	I	155	GLU	N-CA-C	-6.62	96.69	110.80
1	B	288	ALA	N-CA-CB	-6.62	101.97	111.84
1	D	314	PRO	CA-C-O	6.62	132.65	120.60
1	E	288	ALA	N-CA-CB	-6.62	101.97	111.84
1	L	7	THR	CA-CB-OG1	6.62	119.53	109.60
1	A	7	THR	CA-CB-OG1	6.62	119.53	109.60
1	J	129	GLU	CB-CG-CD	6.62	123.85	112.60
1	B	407	ILE	CA-C-N	6.62	126.97	119.83
1	B	407	ILE	C-N-CA	6.62	126.97	119.83
1	E	155	GLU	N-CA-C	-6.62	96.71	110.80
1	F	105	ARG	CD-NE-CZ	6.62	133.66	124.40
1	G	155	GLU	N-CA-C	-6.62	96.71	110.80
1	L	155	GLU	N-CA-C	-6.61	96.71	110.80
1	G	407	ILE	CA-C-N	6.61	126.97	119.83
1	G	407	ILE	C-N-CA	6.61	126.97	119.83
1	F	155	GLU	N-CA-C	-6.61	96.72	110.80
1	J	155	GLU	N-CA-C	-6.61	96.72	110.80
1	J	289	GLY	N-CA-C	-6.61	97.52	113.18
1	K	407	ILE	CA-C-N	6.61	126.97	119.83
1	K	407	ILE	C-N-CA	6.61	126.97	119.83
1	E	39	ASN	N-CA-CB	-6.61	99.33	110.49
1	H	7	THR	CA-CB-OG1	6.61	119.51	109.60
1	D	17	VAL	CB-CA-C	6.60	122.12	111.29
1	E	289	GLY	N-CA-C	-6.60	97.53	113.18
1	I	407	ILE	CA-C-N	6.60	126.96	119.83
1	I	407	ILE	C-N-CA	6.60	126.96	119.83
1	L	105	ARG	CD-NE-CZ	6.60	133.64	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	129	GLU	CB-CG-CD	6.60	123.82	112.60
1	A	155	GLU	N-CA-C	-6.60	96.75	110.80
1	L	289	GLY	N-CA-C	-6.60	97.55	113.18
1	B	155	GLU	N-CA-C	-6.60	96.75	110.80
1	B	289	GLY	N-CA-C	-6.59	97.55	113.18
1	C	288	ALA	N-CA-CB	-6.59	102.01	111.84
1	A	289	GLY	N-CA-C	-6.59	97.56	113.18
1	C	105	ARG	CD-NE-CZ	6.59	133.63	124.40
1	E	17	VAL	CB-CA-C	6.59	122.10	111.29
1	J	7	THR	CA-CB-OG1	6.59	119.49	109.60
1	C	39	ASN	N-CA-CB	-6.59	99.36	110.49
1	G	129	GLU	CB-CG-CD	6.59	123.80	112.60
1	A	105	ARG	CD-NE-CZ	6.59	133.62	124.40
1	L	288	ALA	N-CA-CB	-6.59	102.03	111.84
1	K	201	GLN	CA-CB-CG	6.59	127.28	114.10
1	E	7	THR	CA-CB-OG1	6.58	119.48	109.60
1	H	129	GLU	CB-CG-CD	6.58	123.79	112.60
1	I	289	GLY	N-CA-C	-6.58	97.58	113.18
1	F	407	ILE	CA-C-N	6.58	126.94	119.83
1	F	407	ILE	C-N-CA	6.58	126.94	119.83
1	I	17	VAL	CB-CA-C	6.58	122.08	111.29
1	E	105	ARG	CD-NE-CZ	6.58	133.61	124.40
1	A	17	VAL	CB-CA-C	6.58	122.08	111.29
1	L	17	VAL	CB-CA-C	6.58	122.08	111.29
1	B	129	GLU	CB-CG-CD	6.58	123.78	112.60
1	D	258	LYS	CA-C-N	6.58	126.08	119.24
1	D	258	LYS	C-N-CA	6.58	126.08	119.24
1	K	288	ALA	N-CA-CB	-6.58	102.04	111.84
1	C	17	VAL	CB-CA-C	6.58	122.07	111.29
1	C	407	ILE	CA-C-N	6.58	126.93	119.83
1	C	407	ILE	C-N-CA	6.58	126.93	119.83
1	F	289	GLY	N-CA-C	-6.58	97.59	113.18
1	J	17	VAL	CB-CA-C	6.58	122.08	111.29
1	K	7	THR	CA-CB-OG1	6.58	119.46	109.60
1	F	288	ALA	N-CA-CB	-6.57	102.04	111.84
1	D	129	GLU	CB-CG-CD	6.57	123.77	112.60
1	F	39	ASN	N-CA-CB	-6.57	99.38	110.49
1	G	105	ARG	CD-NE-CZ	6.57	133.60	124.40
1	J	407	ILE	CA-C-N	6.57	126.93	119.83
1	J	407	ILE	C-N-CA	6.57	126.93	119.83
1	A	407	ILE	CA-C-N	6.57	126.92	119.83
1	A	407	ILE	C-N-CA	6.57	126.92	119.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	129	GLU	CB-CG-CD	6.57	123.77	112.60
1	A	39	ASN	N-CA-CB	-6.57	99.39	110.49
1	E	129	GLU	CB-CG-CD	6.57	123.77	112.60
1	G	17	VAL	CB-CA-C	6.57	122.06	111.29
1	G	289	GLY	N-CA-C	-6.57	97.62	113.18
1	H	289	GLY	N-CA-C	-6.57	97.62	113.18
1	K	289	GLY	N-CA-C	-6.57	97.62	113.18
1	D	289	GLY	N-CA-C	-6.56	97.62	113.18
1	I	7	THR	CA-CB-OG1	6.56	119.45	109.60
1	J	314	PRO	CA-C-O	6.56	132.54	120.60
1	L	314	PRO	CA-C-O	6.56	132.54	120.60
1	A	129	GLU	CB-CG-CD	6.55	123.74	112.60
1	K	39	ASN	N-CA-CB	-6.55	99.41	110.49
1	G	314	PRO	CA-C-O	6.55	132.53	120.60
1	B	201	GLN	CA-CB-CG	6.55	127.20	114.10
1	C	129	GLU	CB-CG-CD	6.55	123.74	112.60
1	F	314	PRO	CA-C-O	6.55	132.52	120.60
1	H	407	ILE	CA-C-N	6.55	126.91	119.83
1	H	407	ILE	C-N-CA	6.55	126.91	119.83
1	J	39	ASN	N-CA-CB	-6.55	99.42	110.49
1	C	172	ARG	N-CA-CB	6.55	117.98	111.10
1	H	105	ARG	CD-NE-CZ	6.55	133.57	124.40
1	I	105	ARG	CD-NE-CZ	6.55	133.57	124.40
1	I	288	ALA	N-CA-CB	-6.55	102.08	111.84
1	I	39	ASN	N-CA-CB	-6.55	99.42	110.49
1	L	129	GLU	CB-CG-CD	6.55	123.73	112.60
1	C	282	PHE	CA-CB-CG	6.55	120.35	113.80
1	C	289	GLY	N-CA-C	-6.55	97.67	113.18
1	D	7	THR	CA-CB-OG1	6.55	119.42	109.60
1	D	39	ASN	N-CA-CB	-6.55	99.43	110.49
1	H	314	PRO	CA-C-O	6.55	132.51	120.60
1	B	314	PRO	CA-C-O	6.54	132.51	120.60
1	A	201	GLN	CA-CB-CG	6.54	127.18	114.10
1	C	314	PRO	CA-C-O	6.54	132.50	120.60
1	I	129	GLU	CB-CG-CD	6.54	123.72	112.60
1	A	288	ALA	N-CA-CB	-6.54	102.10	111.84
1	F	201	GLN	CA-CB-CG	6.54	127.17	114.10
1	B	105	ARG	CD-NE-CZ	6.53	133.55	124.40
1	C	70	ASP	O-C-N	6.53	130.41	121.92
1	H	39	ASN	N-CA-CB	-6.53	99.45	110.49
1	A	314	PRO	CA-C-O	6.53	132.48	120.60
1	G	5	VAL	O-C-N	6.53	130.73	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	407	ILE	CA-C-N	6.53	126.88	119.83
1	L	407	ILE	C-N-CA	6.53	126.88	119.83
1	H	288	ALA	N-CA-CB	-6.52	102.12	111.84
1	G	244	ASN	N-CA-C	6.52	119.36	111.40
1	J	105	ARG	CD-NE-CZ	6.52	133.53	124.40
1	J	201	GLN	CA-CB-CG	6.52	127.15	114.10
1	D	407	ILE	CA-C-N	6.52	126.87	119.83
1	D	407	ILE	C-N-CA	6.52	126.87	119.83
1	I	201	GLN	CA-CB-CG	6.52	127.14	114.10
1	L	201	GLN	CA-CB-CG	6.52	127.14	114.10
1	H	201	GLN	CA-CB-CG	6.52	127.14	114.10
1	H	244	ASN	N-CA-C	6.52	119.35	111.40
1	K	282	PHE	CA-CB-CG	6.52	120.32	113.80
1	J	288	ALA	N-CA-CB	-6.52	102.13	111.84
1	K	226	ASN	CA-CB-CG	-6.51	106.09	112.60
1	C	201	GLN	CA-CB-CG	6.51	127.13	114.10
1	B	39	ASN	N-CA-CB	-6.51	99.49	110.49
1	E	407	ILE	CA-C-N	6.51	126.86	119.83
1	E	407	ILE	C-N-CA	6.51	126.86	119.83
1	F	54	ILE	O-C-N	6.51	130.71	122.57
1	J	282	PHE	CA-CB-CG	6.51	120.31	113.80
1	I	169	LYS	CA-C-N	6.51	134.17	121.41
1	I	169	LYS	C-N-CA	6.51	134.17	121.41
1	I	172	ARG	N-CA-CB	6.51	117.93	111.10
1	A	170	GLY	N-CA-C	6.50	128.60	113.18
1	H	170	GLY	N-CA-C	6.50	128.60	113.18
1	D	288	ALA	N-CA-CB	-6.50	102.15	111.84
1	L	54	ILE	O-C-N	6.50	130.70	122.57
1	H	282	PHE	CA-CB-CG	6.50	120.30	113.80
1	J	170	GLY	N-CA-C	6.50	128.58	113.18
1	C	170	GLY	N-CA-C	6.50	128.58	113.18
1	E	201	GLN	CA-CB-CG	6.50	127.09	114.10
1	F	170	GLY	N-CA-C	6.50	128.58	113.18
1	G	282	PHE	CA-CB-CG	6.50	120.30	113.80
1	E	314	PRO	CA-C-O	6.49	132.42	120.60
1	L	244	ASN	N-CA-C	6.49	119.32	111.40
1	D	201	GLN	CA-CB-CG	6.49	127.08	114.10
1	E	282	PHE	CA-CB-CG	6.49	120.29	113.80
1	J	245	VAL	N-CA-C	-6.49	104.19	110.42
1	F	169	LYS	CA-C-N	6.49	134.13	121.41
1	F	169	LYS	C-N-CA	6.49	134.13	121.41
1	F	181	PRO	CB-CA-C	6.49	119.84	111.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	170	GLY	N-CA-C	6.49	128.56	113.18
1	G	201	GLN	CA-CB-CG	6.49	127.08	114.10
1	I	314	PRO	CA-C-O	6.49	132.41	120.60
1	G	39	ASN	N-CA-CB	-6.49	99.52	110.49
1	K	170	GLY	N-CA-C	6.49	128.56	113.18
1	A	327	GLU	N-CA-C	-6.49	102.70	112.04
1	I	170	GLY	N-CA-C	6.48	128.55	113.18
1	K	314	PRO	CA-C-O	6.48	132.40	120.60
1	E	170	GLY	N-CA-C	6.48	128.54	113.18
1	H	172	ARG	N-CA-CB	6.48	117.91	111.10
1	J	181	PRO	CB-CA-C	6.48	119.83	111.21
1	E	154	ILE	CA-C-O	-6.48	112.68	120.78
1	J	263	ASP	CA-C-O	-6.48	111.25	120.51
1	B	169	LYS	CA-C-N	6.48	134.11	121.41
1	B	169	LYS	C-N-CA	6.48	134.11	121.41
1	C	244	ASN	N-CA-C	6.48	119.30	111.40
1	F	282	PHE	CA-CB-CG	6.48	120.28	113.80
1	H	54	ILE	O-C-N	6.48	130.67	122.57
1	K	5	VAL	O-C-N	6.48	130.66	122.57
1	L	170	GLY	N-CA-C	6.48	128.53	113.18
1	D	170	GLY	N-CA-C	6.47	128.52	113.18
1	H	169	LYS	CA-C-N	6.47	134.10	121.41
1	H	169	LYS	C-N-CA	6.47	134.10	121.41
1	G	54	ILE	O-C-N	6.47	130.66	122.57
1	L	263	ASP	CA-C-O	-6.47	111.26	120.51
1	A	172	ARG	N-CA-CB	6.47	117.89	111.10
1	D	244	ASN	N-CA-C	6.47	119.29	111.40
1	E	244	ASN	N-CA-C	6.47	119.29	111.40
1	D	327	GLU	N-CA-C	-6.47	102.73	112.04
1	B	315	THR	O-C-N	6.47	131.19	122.59
1	H	181	PRO	CB-CA-C	6.47	119.81	111.21
1	I	258	LYS	CA-C-N	6.47	125.97	119.24
1	I	258	LYS	C-N-CA	6.47	125.97	119.24
1	B	244	ASN	N-CA-C	6.46	119.29	111.40
1	C	181	PRO	CB-CA-C	6.46	119.81	111.21
1	E	226	ASN	CA-CB-CG	-6.46	106.14	112.60
1	L	154	ILE	CA-C-O	-6.46	112.70	120.78
1	B	170	GLY	N-CA-C	6.46	128.49	113.18
1	C	327	GLU	N-CA-C	-6.46	102.74	112.04
1	H	327	GLU	N-CA-C	-6.46	102.73	112.04
1	L	169	LYS	CA-C-N	6.46	134.07	121.41
1	L	169	LYS	C-N-CA	6.46	134.07	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	327	GLU	N-CA-C	-6.46	102.74	112.04
1	K	169	LYS	CA-C-N	6.46	134.07	121.41
1	K	169	LYS	C-N-CA	6.46	134.07	121.41
1	D	181	PRO	CB-CA-C	6.46	119.80	111.21
1	J	54	ILE	O-C-N	6.46	130.64	122.57
1	L	252	THR	CA-C-O	-6.46	113.64	120.80
1	B	226	ASN	CA-CB-CG	-6.45	106.15	112.60
1	D	169	LYS	CA-C-N	6.45	134.06	121.41
1	D	169	LYS	C-N-CA	6.45	134.06	121.41
1	F	244	ASN	N-CA-C	6.45	119.27	111.40
1	L	258	LYS	CA-C-N	6.45	125.95	119.24
1	L	258	LYS	C-N-CA	6.45	125.95	119.24
1	K	54	ILE	O-C-N	6.45	130.63	122.57
1	E	93	GLU	N-CA-CB	-6.45	98.89	110.37
1	L	282	PHE	CA-CB-CG	6.45	120.25	113.80
1	A	169	LYS	CA-C-N	6.45	134.05	121.41
1	A	169	LYS	C-N-CA	6.45	134.05	121.41
1	A	282	PHE	CA-CB-CG	6.45	120.25	113.80
1	D	172	ARG	N-CA-CB	6.45	117.87	111.10
1	E	327	GLU	N-CA-C	-6.45	102.75	112.04
1	G	169	LYS	CA-C-N	6.45	134.05	121.41
1	G	169	LYS	C-N-CA	6.45	134.05	121.41
1	K	181	PRO	CB-CA-C	6.45	119.79	111.21
1	H	226	ASN	CA-CB-CG	-6.45	106.15	112.60
1	I	244	ASN	N-CA-C	6.45	119.27	111.40
1	C	169	LYS	CA-C-N	6.45	134.04	121.41
1	C	169	LYS	C-N-CA	6.45	134.04	121.41
1	H	258	LYS	CA-C-N	6.45	125.94	119.24
1	H	258	LYS	C-N-CA	6.45	125.94	119.24
1	A	181	PRO	CB-CA-C	6.44	119.78	111.21
1	A	244	ASN	N-CA-C	6.44	119.26	111.40
1	B	327	GLU	N-CA-C	-6.44	102.76	112.04
1	F	263	ASP	CA-C-O	-6.44	111.30	120.51
1	A	93	GLU	N-CA-CB	-6.44	98.91	110.37
1	D	282	PHE	CA-CB-CG	6.44	120.24	113.80
1	E	169	LYS	CA-C-N	6.44	134.03	121.41
1	E	169	LYS	C-N-CA	6.44	134.03	121.41
1	I	181	PRO	CB-CA-C	6.44	119.78	111.21
1	J	244	ASN	N-CA-C	6.44	119.26	111.40
1	B	282	PHE	CA-CB-CG	6.44	120.24	113.80
1	C	315	THR	O-C-N	6.44	131.15	122.59
1	C	154	ILE	CA-C-O	-6.44	112.73	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	327	GLU	N-CA-C	-6.44	102.77	112.04
1	J	172	ARG	N-CA-CB	6.44	117.86	111.10
1	B	54	ILE	O-C-N	6.43	130.61	122.57
1	C	226	ASN	CA-CB-CG	-6.43	106.17	112.60
1	J	93	GLU	N-CA-CB	-6.43	98.92	110.37
1	A	5	VAL	O-C-N	6.43	130.61	122.57
1	I	93	GLU	N-CA-CB	-6.43	98.93	110.37
1	J	169	LYS	CA-C-N	6.43	134.01	121.41
1	J	169	LYS	C-N-CA	6.43	134.01	121.41
1	H	263	ASP	CA-C-O	-6.43	111.32	120.51
1	L	226	ASN	CA-CB-CG	-6.43	106.17	112.60
1	A	154	ILE	CA-C-O	-6.42	112.75	120.78
1	A	226	ASN	CA-CB-CG	-6.42	106.18	112.60
1	I	54	ILE	O-C-N	6.42	130.60	122.57
1	J	226	ASN	CA-CB-CG	-6.42	106.17	112.60
1	D	5	VAL	O-C-N	6.42	130.60	122.57
1	D	93	GLU	N-CA-CB	-6.42	98.94	110.37
1	I	263	ASP	CA-C-O	-6.42	111.33	120.51
1	D	226	ASN	CA-CB-CG	-6.42	106.18	112.60
1	F	327	GLU	N-CA-C	-6.42	102.79	112.04
1	I	282	PHE	CA-CB-CG	6.42	120.22	113.80
1	B	181	PRO	CB-CA-C	6.42	119.75	111.21
1	K	327	GLU	N-CA-C	-6.42	102.80	112.04
1	G	172	ARG	N-CA-CB	6.42	117.84	111.10
1	L	181	PRO	CB-CA-C	6.42	119.75	111.21
1	G	93	GLU	N-CA-CB	-6.42	98.95	110.37
1	E	5	VAL	O-C-N	6.41	130.59	122.57
1	E	172	ARG	N-CA-CB	6.41	117.83	111.10
1	F	154	ILE	CA-C-O	-6.41	112.76	120.78
1	G	181	PRO	CB-CA-C	6.41	119.74	111.21
1	B	154	ILE	CA-C-O	-6.41	112.77	120.78
1	I	327	GLU	N-CA-C	-6.41	102.81	112.04
1	L	172	ARG	N-CA-CB	6.41	117.83	111.10
1	G	245	VAL	N-CA-C	-6.41	104.27	110.42
1	C	258	LYS	CA-C-N	6.41	125.90	119.24
1	C	258	LYS	C-N-CA	6.41	125.90	119.24
1	E	54	ILE	O-C-N	6.41	130.58	122.57
1	K	244	ASN	N-CA-C	6.41	119.22	111.40
1	C	93	GLU	N-CA-CB	-6.41	98.97	110.37
1	I	245	VAL	N-CA-C	-6.40	104.27	110.42
1	F	93	GLU	N-CA-CB	-6.40	98.97	110.37
1	H	122	ASP	N-CA-CB	6.40	119.82	110.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	93	GLU	N-CA-CB	-6.40	98.97	110.37
1	G	226	ASN	CA-CB-CG	-6.40	106.20	112.60
1	J	5	VAL	O-C-N	6.40	130.57	122.57
1	J	327	GLU	N-CA-C	-6.40	102.83	112.04
1	K	154	ILE	CA-C-O	-6.40	112.78	120.78
1	A	54	ILE	O-C-N	6.40	130.57	122.57
1	D	263	ASP	CA-C-O	-6.40	111.36	120.51
1	F	5	VAL	O-C-N	6.40	130.57	122.57
1	H	154	ILE	CA-C-O	-6.40	112.78	120.78
1	F	226	ASN	CA-CB-CG	-6.40	106.20	112.60
1	F	258	LYS	CA-C-N	6.40	125.89	119.24
1	F	258	LYS	C-N-CA	6.40	125.89	119.24
1	C	5	VAL	O-C-N	6.39	130.56	122.57
1	F	182	VAL	CB-CA-C	6.39	117.14	110.88
1	G	263	ASP	CA-C-O	-6.39	111.37	120.51
1	J	258	LYS	CA-C-N	6.39	125.89	119.24
1	J	258	LYS	C-N-CA	6.39	125.89	119.24
1	K	258	LYS	CA-C-N	6.39	125.89	119.24
1	K	258	LYS	C-N-CA	6.39	125.89	119.24
1	K	263	ASP	CA-C-O	-6.39	111.37	120.51
1	B	93	GLU	N-CA-CB	-6.39	99.00	110.37
1	K	93	GLU	N-CA-CB	-6.39	99.00	110.37
1	B	252	THR	CA-C-O	-6.39	113.71	120.80
1	H	5	VAL	O-C-N	6.39	130.55	122.57
1	K	172	ARG	N-CA-CB	6.39	117.81	111.10
1	L	245	VAL	N-CA-C	-6.39	104.29	110.42
1	A	263	ASP	CA-C-O	-6.38	111.38	120.51
1	B	172	ARG	N-CA-CB	6.38	117.80	111.10
1	D	154	ILE	CA-C-O	-6.38	112.80	120.78
1	E	263	ASP	CA-C-O	-6.38	111.38	120.51
1	G	154	ILE	CA-C-O	-6.38	112.80	120.78
1	E	181	PRO	CB-CA-C	6.38	119.70	111.21
1	B	258	LYS	CA-C-N	6.38	125.87	119.24
1	B	258	LYS	C-N-CA	6.38	125.87	119.24
1	E	252	THR	CA-C-O	-6.38	113.72	120.80
1	B	263	ASP	CA-C-O	-6.38	111.39	120.51
1	H	93	GLU	N-CA-CB	-6.37	99.03	110.37
1	I	154	ILE	CA-C-O	-6.37	112.81	120.78
1	E	277	ASN	CA-CB-CG	6.37	118.97	112.60
1	B	245	VAL	N-CA-C	-6.37	104.31	110.42
1	J	154	ILE	CA-C-O	-6.37	112.82	120.78
1	K	245	VAL	N-CA-C	-6.37	104.31	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	54	ILE	O-C-N	6.36	130.52	122.57
1	I	226	ASN	CA-CB-CG	-6.36	106.24	112.60
1	H	252	THR	CA-C-O	-6.36	113.74	120.80
1	I	315	THR	O-C-N	6.36	131.05	122.59
1	L	182	VAL	CB-CA-C	6.36	117.11	110.88
1	K	122	ASP	N-CA-CB	6.36	119.75	110.47
1	A	122	ASP	N-CA-CB	6.36	119.75	110.47
1	B	5	VAL	O-C-N	6.36	130.52	122.57
1	J	252	THR	CA-C-O	-6.36	113.74	120.80
1	A	258	LYS	CA-C-N	6.36	125.85	119.24
1	A	258	LYS	C-N-CA	6.36	125.85	119.24
1	C	54	ILE	O-C-N	6.36	130.51	122.57
1	F	252	THR	CA-C-O	-6.36	113.75	120.80
1	A	245	VAL	N-CA-C	-6.35	104.32	110.42
1	K	252	THR	CA-C-O	-6.35	113.75	120.80
1	L	5	VAL	O-C-N	6.35	130.51	122.57
1	D	315	THR	O-C-N	6.35	131.03	122.59
1	F	122	ASP	N-CA-CB	6.35	119.74	110.47
1	H	315	THR	O-C-N	6.35	131.04	122.59
1	I	5	VAL	O-C-N	6.35	130.51	122.57
1	B	88	ARG	NH1-CZ-NH2	-6.35	111.05	119.30
1	C	252	THR	CA-C-O	-6.35	113.75	120.80
1	F	172	ARG	N-CA-CB	6.35	117.76	111.10
1	C	263	ASP	CA-C-O	-6.35	111.44	120.51
1	G	315	THR	O-C-N	6.34	131.03	122.59
1	E	245	VAL	N-CA-C	-6.34	104.33	110.42
1	B	277	ASN	CA-CB-CG	6.34	118.94	112.60
1	G	122	ASP	N-CA-CB	6.34	119.73	110.47
1	G	182	VAL	CB-CA-C	6.34	117.09	110.88
1	D	277	ASN	CA-CB-CG	6.34	118.94	112.60
1	G	252	THR	CA-C-O	-6.34	113.76	120.80
1	I	216	ALA	CA-C-N	6.34	131.78	121.00
1	I	216	ALA	C-N-CA	6.34	131.78	121.00
1	J	122	ASP	N-CA-CB	6.34	119.72	110.47
1	D	28	GLU	N-CA-C	6.34	124.30	110.80
1	I	277	ASN	CA-CB-CG	6.34	118.94	112.60
1	B	182	VAL	CB-CA-C	6.33	117.09	110.88
1	H	245	VAL	N-CA-C	-6.33	104.34	110.42
1	L	216	ALA	CA-C-N	6.33	131.77	121.00
1	L	216	ALA	C-N-CA	6.33	131.77	121.00
1	A	252	THR	CA-C-O	-6.33	113.77	120.80
1	C	245	VAL	N-CA-C	-6.33	104.34	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	403	GLU	CG-CD-OE1	6.33	132.96	118.40
1	D	122	ASP	N-CA-CB	6.33	119.71	110.47
1	I	28	GLU	N-CA-C	6.33	124.28	110.80
1	J	315	THR	O-C-N	6.33	131.01	122.59
1	H	182	VAL	CB-CA-C	6.33	117.08	110.88
1	A	28	GLU	N-CA-C	6.33	124.28	110.80
1	B	216	ALA	CA-C-N	6.33	131.75	121.00
1	B	216	ALA	C-N-CA	6.33	131.75	121.00
1	L	122	ASP	N-CA-CB	6.33	119.70	110.47
1	A	182	VAL	CB-CA-C	6.32	117.08	110.88
1	G	403	GLU	CG-CD-OE1	6.32	132.94	118.40
1	I	122	ASP	N-CA-CB	6.32	119.70	110.47
1	E	258	LYS	CA-C-N	6.32	125.81	119.24
1	E	258	LYS	C-N-CA	6.32	125.81	119.24
1	A	403	GLU	CG-CD-OE1	6.32	132.94	118.40
1	C	28	GLU	N-CA-C	6.32	124.26	110.80
1	H	28	GLU	N-CA-C	6.32	124.26	110.80
1	E	216	ALA	CA-C-N	6.32	131.74	121.00
1	E	216	ALA	C-N-CA	6.32	131.74	121.00
1	E	182	VAL	CB-CA-C	6.32	117.07	110.88
1	K	28	GLU	N-CA-C	6.32	124.25	110.80
1	E	122	ASP	N-CA-CB	6.31	119.69	110.47
1	F	216	ALA	CA-C-N	6.31	131.73	121.00
1	F	216	ALA	C-N-CA	6.31	131.73	121.00
1	A	315	THR	O-C-N	6.31	130.99	122.59
1	E	28	GLU	N-CA-C	6.31	124.23	110.80
1	F	322	LEU	CB-CA-C	6.31	119.04	111.22
1	J	28	GLU	N-CA-C	6.31	124.23	110.80
1	I	403	GLU	CG-CD-OE1	6.30	132.90	118.40
1	B	122	ASP	N-CA-CB	6.30	119.67	110.47
1	C	122	ASP	N-CA-CB	6.30	119.67	110.47
1	D	245	VAL	N-CA-C	-6.30	104.37	110.42
1	D	252	THR	CA-C-O	-6.30	113.81	120.80
1	K	315	THR	O-C-N	6.30	130.97	122.59
1	G	216	ALA	CA-C-N	6.30	131.71	121.00
1	G	216	ALA	C-N-CA	6.30	131.71	121.00
1	A	277	ASN	CA-CB-CG	6.30	118.90	112.60
1	F	28	GLU	N-CA-C	6.30	124.21	110.80
1	F	245	VAL	N-CA-C	-6.30	104.37	110.42
1	F	403	GLU	CG-CD-OE1	6.30	132.88	118.40
1	H	403	GLU	CG-CD-OE1	6.30	132.88	118.40
1	K	182	VAL	CB-CA-C	6.29	117.05	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	403	GLU	CG-CD-OE1	6.29	132.88	118.40
1	L	28	GLU	N-CA-C	6.29	124.20	110.80
1	C	182	VAL	CB-CA-C	6.29	117.05	110.88
1	J	277	ASN	CA-CB-CG	6.29	118.89	112.60
1	D	403	GLU	CG-CD-OE1	6.29	132.86	118.40
1	G	258	LYS	CA-C-N	6.29	125.78	119.24
1	G	258	LYS	C-N-CA	6.29	125.78	119.24
1	J	403	GLU	CG-CD-OE1	6.29	132.86	118.40
1	K	77	ASP	OD1-CG-OD2	-6.29	107.81	122.90
1	A	152	ASP	CB-CA-C	6.29	123.33	109.94
1	A	216	ALA	CA-C-N	6.29	131.69	121.00
1	A	216	ALA	C-N-CA	6.29	131.69	121.00
1	B	322	LEU	CB-CA-C	6.29	119.01	111.22
1	C	277	ASN	CA-CB-CG	6.29	118.89	112.60
1	E	315	THR	O-C-N	6.29	130.95	122.59
1	B	403	GLU	CG-CD-OE1	6.28	132.85	118.40
1	G	28	GLU	N-CA-C	6.28	124.18	110.80
1	C	216	ALA	CA-C-N	6.28	131.67	121.00
1	C	216	ALA	C-N-CA	6.28	131.67	121.00
1	J	77	ASP	OD1-CG-OD2	-6.28	107.84	122.90
1	B	28	GLU	N-CA-C	6.27	124.16	110.80
1	C	403	GLU	CG-CD-OE1	6.27	132.83	118.40
1	G	61	ASN	N-CA-C	-6.27	102.08	110.55
1	K	216	ALA	CA-C-N	6.27	131.67	121.00
1	K	216	ALA	C-N-CA	6.27	131.67	121.00
1	E	88	ARG	NH1-CZ-NH2	-6.27	111.15	119.30
1	H	88	ARG	NH1-CZ-NH2	-6.27	111.15	119.30
1	K	152	ASP	CB-CA-C	6.27	123.30	109.94
1	L	315	THR	O-C-N	6.27	130.93	122.59
1	H	216	ALA	CA-C-N	6.27	131.66	121.00
1	H	216	ALA	C-N-CA	6.27	131.66	121.00
1	I	252	THR	CA-C-O	-6.27	113.84	120.80
1	K	327	GLU	O-C-N	6.27	130.76	122.30
1	G	322	LEU	CB-CA-C	6.27	118.99	111.22
1	I	152	ASP	CB-CA-C	6.27	123.29	109.94
1	F	77	ASP	OD1-CG-OD2	-6.27	107.86	122.90
1	L	61	ASN	N-CA-C	-6.27	102.09	110.55
1	E	77	ASP	OD1-CG-OD2	-6.26	107.87	122.90
1	I	88	ARG	NH1-CZ-NH2	-6.26	111.16	119.30
1	I	41	GLU	CB-CA-C	-6.26	97.96	110.42
1	K	88	ARG	NH1-CZ-NH2	-6.26	111.16	119.30
1	K	277	ASN	CA-CB-CG	6.26	118.86	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	41	GLU	CB-CA-C	-6.26	97.96	110.42
1	I	77	ASP	OD1-CG-OD2	-6.26	107.87	122.90
1	I	182	VAL	CB-CA-C	6.26	117.02	110.88
1	J	182	VAL	CB-CA-C	6.26	117.02	110.88
1	L	172	ARG	CD-NE-CZ	6.26	133.17	124.40
1	C	152	ASP	CB-CA-C	6.26	123.27	109.94
1	F	152	ASP	CB-CA-C	6.26	123.27	109.94
1	J	216	ALA	CA-C-N	6.26	131.64	121.00
1	J	216	ALA	C-N-CA	6.26	131.64	121.00
1	D	41	GLU	CB-CA-C	-6.26	97.97	110.42
1	F	61	ASN	N-CA-C	-6.26	102.11	110.55
1	L	403	GLU	CG-CD-OE1	6.26	132.79	118.40
1	A	41	GLU	CB-CA-C	-6.25	97.97	110.42
1	H	77	ASP	OD1-CG-OD2	-6.25	107.89	122.90
1	L	41	GLU	CB-CA-C	-6.25	97.97	110.42
1	A	88	ARG	NH1-CZ-NH2	-6.25	111.17	119.30
1	B	77	ASP	OD1-CG-OD2	-6.25	107.89	122.90
1	I	322	LEU	CB-CA-C	6.25	118.97	111.22
1	L	322	LEU	CB-CA-C	6.25	118.97	111.22
1	F	315	THR	O-C-N	6.25	130.91	122.59
1	A	77	ASP	OD1-CG-OD2	-6.25	107.90	122.90
1	B	61	ASN	N-CA-C	-6.25	102.11	110.55
1	C	77	ASP	OD1-CG-OD2	-6.25	107.91	122.90
1	C	327	GLU	O-C-N	6.25	130.74	122.30
1	F	88	ARG	NH1-CZ-NH2	-6.25	111.18	119.30
1	G	77	ASP	OD1-CG-OD2	-6.25	107.90	122.90
1	K	61	ASN	N-CA-C	-6.25	102.11	110.55
1	E	322	LEU	CB-CA-C	6.25	118.97	111.22
1	F	327	GLU	O-C-N	6.24	130.73	122.30
1	G	277	ASN	CA-CB-CG	6.24	118.84	112.60
1	L	152	ASP	CB-CA-C	6.24	123.24	109.94
1	D	97	LEU	N-CA-CB	-6.24	99.94	110.49
1	D	152	ASP	CB-CA-C	6.24	123.23	109.94
1	E	41	GLU	CB-CA-C	-6.24	98.00	110.42
1	F	41	GLU	CB-CA-C	-6.24	98.00	110.42
1	D	216	ALA	CA-C-N	6.24	131.61	121.00
1	D	216	ALA	C-N-CA	6.24	131.61	121.00
1	H	41	GLU	CB-CA-C	-6.24	98.01	110.42
1	L	88	ARG	NH1-CZ-NH2	-6.24	111.19	119.30
1	H	277	ASN	CA-CB-CG	6.24	118.84	112.60
1	H	152	ASP	CB-CA-C	6.23	123.22	109.94
1	D	322	LEU	CB-CA-C	6.23	118.95	111.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	152	ASP	CB-CA-C	6.23	123.22	109.94
1	K	41	GLU	CB-CA-C	-6.23	98.02	110.42
1	L	277	ASN	CA-CB-CG	6.23	118.83	112.60
1	D	88	ARG	NH1-CZ-NH2	-6.23	111.20	119.30
1	D	77	ASP	OD1-CG-OD2	-6.23	107.95	122.90
1	H	97	LEU	N-CA-CB	-6.23	99.97	110.49
1	E	327	GLU	O-C-N	6.22	130.70	122.30
1	G	88	ARG	NH1-CZ-NH2	-6.22	111.21	119.30
1	G	152	ASP	CB-CA-C	6.22	123.19	109.94
1	C	322	LEU	CB-CA-C	6.22	118.93	111.22
1	L	66	VAL	CA-C-O	-6.22	113.01	120.78
1	C	41	GLU	CB-CA-C	-6.22	98.05	110.42
1	L	327	GLU	O-C-N	6.22	130.69	122.30
1	D	182	VAL	CB-CA-C	6.21	116.97	110.88
1	K	172	ARG	CD-NE-CZ	6.21	133.10	124.40
1	B	41	GLU	CB-CA-C	-6.21	98.06	110.42
1	B	172	ARG	CD-NE-CZ	6.21	133.10	124.40
1	A	322	LEU	CB-CA-C	6.21	118.92	111.22
1	D	327	GLU	O-C-N	6.21	130.68	122.30
1	G	327	GLU	O-C-N	6.21	130.68	122.30
1	J	327	GLU	O-C-N	6.21	130.68	122.30
1	B	152	ASP	CB-CA-C	6.21	123.16	109.94
1	F	215	THR	OG1-CB-CG2	6.21	121.72	109.30
1	G	215	THR	OG1-CB-CG2	6.21	121.72	109.30
1	H	61	ASN	N-CA-C	-6.21	102.17	110.55
1	D	61	ASN	N-CA-C	-6.21	102.17	110.55
1	J	70	ASP	N-CA-C	-6.21	103.63	112.13
1	J	88	ARG	NH1-CZ-NH2	-6.21	111.23	119.30
1	B	327	GLU	O-C-N	6.20	130.68	122.30
1	H	102	ARG	O-C-N	6.20	130.84	122.59
1	J	41	GLU	CB-CA-C	-6.20	98.07	110.42
1	J	97	LEU	N-CA-CB	-6.20	100.01	110.49
1	J	135	PHE	O-C-N	6.20	131.42	123.11
1	L	77	ASP	OD1-CG-OD2	-6.20	108.01	122.90
1	B	102	ARG	O-C-N	6.20	130.84	122.59
1	E	61	ASN	N-CA-C	-6.20	102.18	110.55
1	H	322	LEU	CB-CA-C	6.20	118.91	111.22
1	I	215	THR	OG1-CB-CG2	6.20	121.70	109.30
1	E	215	THR	OG1-CB-CG2	6.20	121.70	109.30
1	I	327	GLU	O-C-N	6.20	130.67	122.30
1	B	63	SER	N-CA-C	-6.20	101.92	110.35
1	B	215	THR	OG1-CB-CG2	6.20	121.70	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	172	ARG	CD-NE-CZ	6.20	133.08	124.40
1	J	61	ASN	N-CA-C	-6.20	102.18	110.55
1	K	66	VAL	CA-C-O	-6.20	113.03	120.78
1	E	97	LEU	N-CA-CB	-6.20	100.02	110.49
1	K	403	GLU	CA-CB-CG	6.20	126.49	114.10
1	A	61	ASN	N-CA-C	-6.20	102.19	110.55
1	I	172	ARG	CD-NE-CZ	6.20	133.07	124.40
1	K	70	ASP	N-CA-C	-6.20	103.64	112.13
1	A	215	THR	OG1-CB-CG2	6.19	121.69	109.30
1	C	66	VAL	CA-C-O	-6.19	113.04	120.78
1	G	97	LEU	N-CA-CB	-6.19	100.02	110.49
1	C	215	THR	OG1-CB-CG2	6.19	121.69	109.30
1	C	97	LEU	N-CA-CB	-6.19	100.03	110.49
1	A	97	LEU	N-CA-CB	-6.19	100.03	110.49
1	A	327	GLU	O-C-N	6.19	130.65	122.30
1	I	66	VAL	CA-C-O	-6.19	113.05	120.78
1	K	215	THR	OG1-CB-CG2	6.18	121.67	109.30
1	A	172	ARG	CD-NE-CZ	6.18	133.06	124.40
1	C	88	ARG	NH1-CZ-NH2	-6.18	111.26	119.30
1	K	97	LEU	N-CA-CB	-6.18	100.04	110.49
1	F	277	ASN	CA-CB-CG	6.18	118.78	112.60
1	J	215	THR	OG1-CB-CG2	6.18	121.66	109.30
1	C	20	ARG	CB-CA-C	6.18	122.72	110.42
1	C	61	ASN	N-CA-C	-6.18	102.21	110.55
1	J	322	LEU	CB-CA-C	6.18	118.88	111.22
1	H	215	THR	OG1-CB-CG2	6.18	121.66	109.30
1	I	63	SER	N-CA-C	-6.18	101.95	110.35
1	H	172	ARG	CD-NE-CZ	6.18	133.05	124.40
1	K	322	LEU	CB-CA-C	6.17	118.88	111.22
1	K	63	SER	N-CA-C	-6.17	101.95	110.35
1	L	136	ASP	N-CA-C	6.17	118.93	111.40
1	I	403	GLU	CA-CB-CG	6.17	126.44	114.10
1	C	403	GLU	CA-CB-CG	6.17	126.44	114.10
1	E	135	PHE	O-C-N	6.17	131.38	123.11
1	H	63	SER	N-CA-C	-6.17	101.96	110.35
1	I	61	ASN	N-CA-C	-6.17	102.22	110.55
1	J	152	ASP	CB-CA-C	6.17	123.08	109.94
1	J	403	GLU	CA-CB-CG	6.17	126.44	114.10
1	D	190	ASP	CB-CA-C	6.17	122.69	110.42
1	H	327	GLU	O-C-N	6.17	130.62	122.30
1	I	190	ASP	CB-CA-C	6.17	122.69	110.42
1	C	63	SER	N-CA-C	-6.16	101.97	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	63	SER	N-CA-C	-6.16	101.97	110.35
1	F	102	ARG	O-C-N	6.16	130.78	122.59
1	E	63	SER	N-CA-C	-6.16	101.97	110.35
1	F	63	SER	N-CA-C	-6.16	101.97	110.35
1	K	190	ASP	CB-CA-C	6.16	122.68	110.42
1	L	102	ARG	O-C-N	6.16	130.78	122.59
1	L	215	THR	OG1-CB-CG2	6.16	121.62	109.30
1	B	70	ASP	N-CA-C	-6.16	103.69	112.13
1	G	63	SER	N-CA-C	-6.16	101.97	110.35
1	L	97	LEU	N-CA-CB	-6.16	100.08	110.49
1	I	97	LEU	N-CA-CB	-6.16	100.09	110.49
1	J	63	SER	N-CA-C	-6.15	101.98	110.35
1	A	70	ASP	N-CA-C	-6.15	103.70	112.13
1	D	102	ARG	O-C-N	6.15	130.77	122.59
1	D	215	THR	OG1-CB-CG2	6.15	121.60	109.30
1	I	70	ASP	N-CA-C	-6.15	103.70	112.13
1	F	172	ARG	CD-NE-CZ	6.15	133.01	124.40
1	G	403	GLU	CA-CB-CG	6.15	126.39	114.10
1	B	20	ARG	CB-CA-C	6.15	122.65	110.42
1	A	403	GLU	CA-CB-CG	6.14	126.39	114.10
1	D	172	ARG	CD-NE-CZ	6.14	133.00	124.40
1	E	403	GLU	CA-CB-CG	6.14	126.39	114.10
1	B	97	LEU	N-CA-CB	-6.14	100.11	110.49
1	L	403	GLU	CA-CB-CG	6.14	126.38	114.10
1	A	20	ARG	CB-CA-C	6.14	122.64	110.42
1	B	403	GLU	CA-CB-CG	6.14	126.38	114.10
1	I	136	ASP	N-CA-C	6.14	118.89	111.40
1	F	458	HIS	N-CA-C	6.14	118.52	109.62
1	G	102	ARG	O-C-N	6.14	130.75	122.59
1	H	458	HIS	N-CA-C	6.14	118.52	109.62
1	C	190	ASP	CB-CA-C	6.13	122.63	110.42
1	D	20	ARG	CB-CA-C	6.13	122.63	110.42
1	F	97	LEU	N-CA-CB	-6.13	100.12	110.49
1	F	190	ASP	CB-CA-C	6.13	122.63	110.42
1	F	403	GLU	CA-CB-CG	6.13	126.37	114.10
1	H	136	ASP	N-CA-C	6.13	118.88	111.40
1	I	135	PHE	O-C-N	6.13	131.33	123.11
1	A	63	SER	N-CA-C	-6.13	102.01	110.35
1	C	98	GLN	CB-CG-CD	6.13	123.03	112.60
1	A	190	ASP	CB-CA-C	6.13	122.62	110.42
1	E	102	ARG	O-C-N	6.13	130.75	122.59
1	K	82	ASP	CA-CB-CG	-6.13	106.47	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	190	ASP	CB-CA-C	6.13	122.62	110.42
1	D	135	PHE	O-C-N	6.13	131.32	123.11
1	F	70	ASP	N-CA-C	-6.13	103.74	112.13
1	J	20	ARG	CB-CA-C	6.13	122.61	110.42
1	I	102	ARG	O-C-N	6.12	130.74	122.59
1	C	135	PHE	O-C-N	6.12	131.31	123.11
1	E	20	ARG	CB-CA-C	6.12	122.61	110.42
1	B	387	HIS	CA-C-N	6.12	127.49	119.84
1	B	387	HIS	C-N-CA	6.12	127.49	119.84
1	F	66	VAL	CA-C-O	-6.12	113.13	120.78
1	J	190	ASP	CB-CA-C	6.12	122.60	110.42
1	E	98	GLN	CB-CG-CD	6.12	123.00	112.60
1	H	70	ASP	N-CA-C	-6.12	103.75	112.13
1	C	102	ARG	O-C-N	6.12	130.72	122.59
1	F	136	ASP	N-CA-C	6.12	118.86	111.40
1	H	135	PHE	O-C-N	6.12	131.31	123.11
1	C	70	ASP	N-CA-C	-6.11	103.75	112.13
1	K	359	ARG	NE-CZ-NH1	6.11	127.61	121.50
1	L	190	ASP	CB-CA-C	6.11	122.59	110.42
1	H	223	THR	CA-CB-OG1	-6.11	100.43	109.60
1	J	172	ARG	CD-NE-CZ	6.11	132.96	124.40
1	H	20	ARG	CB-CA-C	6.11	122.58	110.42
1	B	66	VAL	CA-C-O	-6.11	113.14	120.78
1	I	20	ARG	CB-CA-C	6.11	122.58	110.42
1	K	135	PHE	O-C-N	6.11	131.30	123.11
1	A	136	ASP	N-CA-C	6.11	118.85	111.40
1	C	172	ARG	CD-NE-CZ	6.11	132.95	124.40
1	G	20	ARG	CB-CA-C	6.11	122.57	110.42
1	D	403	GLU	CA-CB-CG	6.11	126.31	114.10
1	F	123	THR	CB-CA-C	6.11	121.77	109.68
1	F	168	ASN	N-CA-CB	6.11	120.81	110.49
1	G	70	ASP	N-CA-C	-6.11	103.77	112.13
1	A	66	VAL	CA-C-O	-6.10	113.15	120.78
1	E	190	ASP	CB-CA-C	6.10	122.56	110.42
1	G	359	ARG	NE-CZ-NH1	6.10	127.60	121.50
1	K	98	GLN	CB-CG-CD	6.10	122.97	112.60
1	L	63	SER	N-CA-C	-6.10	102.05	110.35
1	C	110	ARG	CD-NE-CZ	-6.10	115.86	124.40
1	F	98	GLN	CB-CG-CD	6.10	122.97	112.60
1	K	20	ARG	CB-CA-C	6.10	122.56	110.42
1	H	123	THR	CB-CA-C	6.10	121.75	109.68
1	K	102	ARG	O-C-N	6.10	130.70	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	387	HIS	CA-C-N	6.10	127.46	119.84
1	K	387	HIS	C-N-CA	6.10	127.46	119.84
1	D	66	VAL	CA-C-O	-6.10	113.16	120.78
1	I	168	ASN	N-CA-CB	6.10	120.79	110.49
1	B	98	GLN	CB-CG-CD	6.09	122.96	112.60
1	B	110	ARG	CD-NE-CZ	-6.09	115.87	124.40
1	A	135	PHE	O-C-N	6.09	131.28	123.11
1	G	135	PHE	O-C-N	6.09	131.27	123.11
1	A	102	ARG	O-C-N	6.09	130.69	122.59
1	F	20	ARG	CB-CA-C	6.09	122.54	110.42
1	G	172	ARG	CD-NE-CZ	6.09	132.93	124.40
1	B	31	VAL	CA-C-O	-6.09	114.92	121.19
1	F	135	PHE	O-C-N	6.09	131.27	123.11
1	G	98	GLN	CB-CG-CD	6.09	122.95	112.60
1	H	168	ASN	N-CA-CB	6.09	120.78	110.49
1	H	190	ASP	CB-CA-C	6.09	122.54	110.42
1	B	123	THR	CB-CA-C	6.09	121.73	109.68
1	B	190	ASP	CB-CA-C	6.09	122.53	110.42
1	K	168	ASN	N-CA-CB	6.09	120.78	110.49
1	E	82	ASP	CA-CB-CG	-6.09	106.51	112.60
1	H	403	GLU	CA-CB-CG	6.09	126.27	114.10
1	I	98	GLN	CB-CG-CD	6.09	122.95	112.60
1	D	98	GLN	CB-CG-CD	6.08	122.94	112.60
1	G	31	VAL	CA-C-O	-6.08	114.92	121.19
1	L	135	PHE	O-C-N	6.08	131.26	123.11
1	D	139	ARG	CD-NE-CZ	6.08	132.92	124.40
1	G	110	ARG	CD-NE-CZ	-6.08	115.88	124.40
1	H	359	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	J	110	ARG	CD-NE-CZ	-6.08	115.88	124.40
1	D	110	ARG	CD-NE-CZ	-6.08	115.89	124.40
1	E	66	VAL	CA-C-O	-6.08	113.18	120.78
1	E	31	VAL	CA-C-O	-6.08	114.93	121.19
1	G	66	VAL	CA-C-O	-6.08	113.18	120.78
1	J	82	ASP	CA-CB-CG	-6.08	106.52	112.60
1	L	20	ARG	CB-CA-C	6.08	122.52	110.42
1	A	98	GLN	CB-CG-CD	6.08	122.93	112.60
1	G	82	ASP	CA-CB-CG	-6.08	106.52	112.60
1	H	82	ASP	CA-CB-CG	-6.08	106.53	112.60
1	K	110	ARG	CD-NE-CZ	-6.08	115.89	124.40
1	D	123	THR	CB-CA-C	6.07	121.71	109.68
1	E	168	ASN	N-CA-CB	6.07	120.75	110.49
1	J	168	ASN	N-CA-CB	6.07	120.75	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	387	HIS	CA-C-N	6.07	127.43	119.84
1	L	387	HIS	C-N-CA	6.07	127.43	119.84
1	E	136	ASP	N-CA-C	6.07	118.81	111.40
1	A	123	THR	CB-CA-C	6.07	121.70	109.68
1	E	110	ARG	CD-NE-CZ	-6.07	115.90	124.40
1	J	66	VAL	CA-C-O	-6.07	113.19	120.78
1	J	387	HIS	CA-C-N	6.07	127.43	119.84
1	J	387	HIS	C-N-CA	6.07	127.43	119.84
1	A	359	ARG	NE-CZ-NH1	6.07	127.57	121.50
1	B	223	THR	CA-CB-OG1	-6.07	100.50	109.60
1	L	223	THR	CA-CB-OG1	-6.07	100.50	109.60
1	B	135	PHE	O-C-N	6.07	131.24	123.11
1	H	110	ARG	CD-NE-CZ	-6.07	115.91	124.40
1	E	223	THR	CA-CB-OG1	-6.06	100.50	109.60
1	F	223	THR	CA-CB-OG1	-6.06	100.50	109.60
1	C	31	VAL	CA-C-O	-6.06	114.94	121.19
1	C	387	HIS	CA-C-N	6.06	127.42	119.84
1	C	387	HIS	C-N-CA	6.06	127.42	119.84
1	D	387	HIS	CA-C-N	6.06	127.42	119.84
1	D	387	HIS	C-N-CA	6.06	127.42	119.84
1	K	123	THR	CB-CA-C	6.06	121.68	109.68
1	L	98	GLN	CB-CG-CD	6.06	122.91	112.60
1	H	98	GLN	CB-CG-CD	6.06	122.90	112.60
1	A	223	THR	CA-CB-OG1	-6.06	100.51	109.60
1	C	359	ARG	NE-CZ-NH1	6.06	127.56	121.50
1	I	82	ASP	CA-CB-CG	-6.06	106.54	112.60
1	J	98	GLN	CB-CG-CD	6.06	122.90	112.60
1	I	223	THR	CA-CB-OG1	-6.06	100.51	109.60
1	A	110	ARG	CD-NE-CZ	-6.06	115.92	124.40
1	B	168	ASN	N-CA-CB	6.06	120.72	110.49
1	D	31	VAL	CA-C-O	-6.06	114.95	121.19
1	D	82	ASP	CA-CB-CG	-6.05	106.55	112.60
1	D	223	THR	CA-CB-OG1	-6.05	100.52	109.60
1	K	136	ASP	N-CA-C	6.05	118.79	111.40
1	G	387	HIS	CA-C-N	6.05	127.41	119.84
1	G	387	HIS	C-N-CA	6.05	127.41	119.84
1	A	82	ASP	CA-CB-CG	-6.05	106.55	112.60
1	H	387	HIS	CA-C-N	6.05	127.41	119.84
1	H	387	HIS	C-N-CA	6.05	127.41	119.84
1	J	123	THR	CB-CA-C	6.05	121.66	109.68
1	D	213	VAL	N-CA-C	6.05	121.92	109.34
1	F	110	ARG	CD-NE-CZ	-6.05	115.93	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	213	VAL	N-CA-C	6.05	121.92	109.34
1	C	82	ASP	CA-CB-CG	-6.05	106.55	112.60
1	C	213	VAL	N-CA-C	6.05	121.92	109.34
1	G	123	THR	CB-CA-C	6.04	121.65	109.68
1	I	213	VAL	N-CA-C	6.04	121.91	109.34
1	C	168	ASN	N-CA-CB	6.04	120.70	110.49
1	F	213	VAL	N-CA-C	6.04	121.91	109.34
1	A	168	ASN	N-CA-CB	6.04	120.70	110.49
1	E	213	VAL	N-CA-C	6.04	121.90	109.34
1	H	31	VAL	CA-C-O	-6.04	114.97	121.19
1	J	359	ARG	NE-CZ-NH1	6.04	127.54	121.50
1	C	223	THR	CA-CB-OG1	-6.03	100.55	109.60
1	F	82	ASP	CA-CB-CG	-6.03	106.57	112.60
1	G	213	VAL	N-CA-C	6.03	121.89	109.34
1	L	123	THR	CB-CA-C	6.03	121.63	109.68
1	G	223	THR	CA-CB-OG1	-6.03	100.55	109.60
1	B	465	TYR	O-C-N	-6.03	113.85	122.41
1	G	168	ASN	N-CA-CB	6.03	120.68	110.49
1	I	123	THR	CB-CA-C	6.03	121.62	109.68
1	J	223	THR	CA-CB-OG1	-6.03	100.56	109.60
1	L	110	ARG	CD-NE-CZ	-6.03	115.96	124.40
1	B	82	ASP	CA-CB-CG	-6.03	106.57	112.60
1	C	123	THR	CB-CA-C	6.03	121.62	109.68
1	I	387	HIS	CA-C-N	6.03	127.37	119.84
1	I	387	HIS	C-N-CA	6.03	127.37	119.84
1	K	213	VAL	N-CA-C	6.03	121.88	109.34
1	K	223	THR	CA-CB-OG1	-6.03	100.56	109.60
1	H	213	VAL	N-CA-C	6.02	121.87	109.34
1	E	359	ARG	NE-CZ-NH1	6.02	127.52	121.50
1	I	139	ARG	CD-NE-CZ	6.02	132.83	124.40
1	D	465	TYR	O-C-N	-6.02	113.86	122.41
1	F	139	ARG	CD-NE-CZ	6.01	132.82	124.40
1	I	359	ARG	NE-CZ-NH1	6.01	127.51	121.50
1	L	168	ASN	N-CA-CB	6.01	120.65	110.49
1	I	58	LYS	CA-C-O	6.01	129.11	120.51
1	A	213	VAL	N-CA-C	6.01	121.84	109.34
1	A	387	HIS	CA-C-N	6.01	127.36	119.84
1	A	387	HIS	C-N-CA	6.01	127.36	119.84
1	D	58	LYS	CA-C-O	6.01	129.11	120.51
1	D	168	ASN	N-CA-CB	6.01	120.65	110.49
1	H	66	VAL	CA-C-O	-6.01	113.27	120.78
1	I	110	ARG	CD-NE-CZ	-6.01	115.99	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	102	ARG	O-C-N	6.01	130.58	122.59
1	L	82	ASP	CA-CB-CG	-6.01	106.59	112.60
1	E	123	THR	CB-CA-C	6.00	121.57	109.68
1	C	139	ARG	CD-NE-CZ	6.00	132.80	124.40
1	F	387	HIS	CA-C-N	6.00	127.34	119.84
1	F	387	HIS	C-N-CA	6.00	127.34	119.84
1	L	139	ARG	CD-NE-CZ	6.00	132.80	124.40
1	H	465	TYR	O-C-N	-5.99	113.90	122.41
1	B	359	ARG	NE-CZ-NH1	5.99	127.49	121.50
1	L	213	VAL	N-CA-C	5.99	121.80	109.34
1	F	359	ARG	NE-CZ-NH1	5.99	127.49	121.50
1	G	139	ARG	CD-NE-CZ	5.99	132.78	124.40
1	L	359	ARG	NE-CZ-NH1	5.99	127.49	121.50
1	J	139	ARG	CD-NE-CZ	5.98	132.78	124.40
1	C	89	CYS	N-CA-CB	5.98	120.60	110.49
1	J	465	TYR	O-C-N	-5.98	113.91	122.41
1	L	465	TYR	O-C-N	-5.98	113.91	122.41
1	A	31	VAL	CA-C-O	-5.98	115.03	121.19
1	F	58	LYS	CA-C-O	5.98	129.06	120.51
1	J	362	ASP	CB-CA-C	5.98	118.72	109.15
1	E	387	HIS	CA-C-N	5.98	127.31	119.84
1	E	387	HIS	C-N-CA	5.98	127.31	119.84
1	J	213	VAL	N-CA-C	5.98	121.78	109.34
1	B	89	CYS	N-CA-CB	5.98	120.59	110.49
1	H	58	LYS	CA-C-O	5.97	129.05	120.51
1	L	18	ASP	CA-CB-CG	-5.97	106.63	112.60
1	L	89	CYS	N-CA-CB	5.97	120.58	110.49
1	D	359	ARG	NE-CZ-NH1	5.96	127.47	121.50
1	F	31	VAL	CA-C-O	-5.96	115.05	121.19
1	C	362	ASP	CB-CA-C	5.96	118.69	109.15
1	L	58	LYS	CA-C-O	5.96	129.03	120.51
1	E	465	TYR	O-C-N	-5.96	113.95	122.41
1	A	89	CYS	N-CA-CB	5.96	120.56	110.49
1	A	139	ARG	CD-NE-CZ	5.96	132.74	124.40
1	K	362	ASP	CB-CA-C	5.96	118.69	109.15
1	F	465	TYR	O-C-N	-5.96	113.95	122.41
1	A	465	TYR	O-C-N	-5.96	113.95	122.41
1	A	58	LYS	CA-C-O	5.95	129.02	120.51
1	F	362	ASP	CB-CA-C	5.95	118.67	109.15
1	I	465	TYR	O-C-N	-5.95	113.96	122.41
1	G	362	ASP	CB-CA-C	5.95	118.67	109.15
1	J	89	CYS	N-CA-CB	5.95	120.55	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	227	THR	N-CA-C	-5.95	99.30	109.24
1	E	278	GLY	O-C-N	5.95	130.43	122.70
1	K	31	VAL	CA-C-O	-5.95	115.06	121.19
1	B	362	ASP	CB-CA-C	5.95	118.67	109.15
1	A	362	ASP	CB-CA-C	5.95	118.67	109.15
1	G	58	LYS	CA-C-O	5.95	129.01	120.51
1	F	89	CYS	N-CA-CB	5.95	120.54	110.49
1	H	139	ARG	CD-NE-CZ	5.95	132.72	124.40
1	I	89	CYS	N-CA-CB	5.94	120.53	110.49
1	J	31	VAL	CA-C-O	-5.94	115.07	121.19
1	E	89	CYS	N-CA-CB	5.94	120.53	110.49
1	E	58	LYS	CA-C-O	5.94	129.00	120.51
1	A	227	THR	N-CA-C	-5.93	99.33	109.24
1	C	18	ASP	CA-CB-CG	-5.93	106.67	112.60
1	D	89	CYS	N-CA-CB	5.93	120.52	110.49
1	H	89	CYS	N-CA-CB	5.93	120.52	110.49
1	B	87	ILE	CB-CG1-CD1	5.93	126.25	113.80
1	K	89	CYS	N-CA-CB	5.93	120.51	110.49
1	L	362	ASP	CB-CA-C	5.93	118.64	109.15
1	B	139	ARG	CD-NE-CZ	5.93	132.70	124.40
1	D	214	ALA	CA-C-O	5.93	126.52	120.24
1	E	362	ASP	CB-CA-C	5.93	118.64	109.15
1	K	458	HIS	CA-C-O	5.93	124.52	119.66
1	L	31	VAL	CA-C-O	-5.93	115.08	121.19
1	C	219	ASN	CA-CB-CG	-5.92	106.67	112.60
1	B	227	THR	N-CA-C	-5.92	99.35	109.24
1	J	219	ASN	CA-CB-CG	-5.92	106.68	112.60
1	H	227	THR	N-CA-C	-5.92	99.35	109.24
1	J	58	LYS	CA-C-O	5.92	128.98	120.51
1	D	362	ASP	CB-CA-C	5.92	118.62	109.15
1	C	58	LYS	CA-C-O	5.92	128.97	120.51
1	K	58	LYS	CA-C-O	5.92	128.97	120.51
1	K	87	ILE	CB-CG1-CD1	5.92	126.22	113.80
1	L	212	GLU	N-CA-CB	5.92	120.49	110.49
1	L	219	ASN	CA-CB-CG	-5.92	106.69	112.60
1	G	44	GLU	CB-CG-CD	5.91	122.65	112.60
1	C	87	ILE	CB-CG1-CD1	5.91	126.20	113.80
1	I	105	ARG	NE-CZ-NH1	5.91	127.41	121.50
1	E	139	ARG	CD-NE-CZ	5.91	132.67	124.40
1	C	278	GLY	O-C-N	5.90	130.38	122.70
1	D	87	ILE	CB-CG1-CD1	5.90	126.20	113.80
1	I	362	ASP	CB-CA-C	5.90	118.60	109.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	227	THR	N-CA-C	-5.90	99.38	109.24
1	A	87	ILE	CB-CG1-CD1	5.90	126.19	113.80
1	F	212	GLU	N-CA-CB	5.90	120.47	110.49
1	G	89	CYS	N-CA-CB	5.90	120.47	110.49
1	K	18	ASP	CA-CB-CG	-5.90	106.70	112.60
1	C	227	THR	N-CA-C	-5.90	99.39	109.24
1	E	227	THR	N-CA-C	-5.90	99.39	109.24
1	K	219	ASN	CA-CB-CG	-5.90	106.70	112.60
1	H	362	ASP	CB-CA-C	5.89	118.58	109.15
1	J	227	THR	N-CA-C	-5.89	99.40	109.24
1	K	139	ARG	CD-NE-CZ	5.89	132.65	124.40
1	D	278	GLY	O-C-N	5.89	130.36	122.70
1	F	227	THR	N-CA-C	-5.89	99.40	109.24
1	J	278	GLY	O-C-N	5.89	130.36	122.70
1	E	219	ASN	CA-CB-CG	-5.89	106.71	112.60
1	E	18	ASP	CA-CB-CG	-5.89	106.71	112.60
1	A	278	GLY	O-C-N	5.89	130.35	122.70
1	B	58	LYS	CA-C-O	5.89	128.93	120.51
1	G	465	TYR	O-C-N	-5.89	114.05	122.41
1	J	212	GLU	N-CA-CB	5.89	120.44	110.49
1	D	212	GLU	N-CA-CB	5.88	120.44	110.49
1	I	87	ILE	CB-CG1-CD1	5.88	126.16	113.80
1	B	24	THR	CB-CA-C	-5.88	98.71	110.42
1	C	44	GLU	CB-CG-CD	5.88	122.60	112.60
1	D	219	ASN	CA-CB-CG	-5.88	106.72	112.60
1	G	227	THR	N-CA-C	-5.88	99.42	109.24
1	J	44	GLU	CB-CG-CD	5.88	122.59	112.60
1	A	212	GLU	N-CA-CB	5.88	120.42	110.49
1	B	212	GLU	N-CA-CB	5.88	120.42	110.49
1	B	278	GLY	O-C-N	5.88	130.34	122.70
1	D	227	THR	N-CA-C	-5.88	99.43	109.24
1	D	18	ASP	CA-CB-CG	-5.88	106.72	112.60
1	L	44	GLU	CB-CG-CD	5.88	122.59	112.60
1	G	212	GLU	N-CA-CB	5.87	120.42	110.49
1	G	428	LEU	O-C-N	5.87	128.92	122.11
1	H	212	GLU	N-CA-CB	5.87	120.42	110.49
1	I	212	GLU	N-CA-CB	5.87	120.42	110.49
1	K	465	TYR	O-C-N	-5.87	114.07	122.41
1	L	87	ILE	CB-CG1-CD1	5.87	126.13	113.80
1	H	115	LEU	O-C-N	5.87	128.86	122.11
1	K	212	GLU	N-CA-CB	5.87	120.41	110.49
1	C	465	TYR	O-C-N	-5.87	114.08	122.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	44	GLU	CB-CG-CD	5.87	122.58	112.60
1	I	31	VAL	CA-C-O	-5.87	115.15	121.19
1	J	24	THR	CB-CA-C	-5.87	98.74	110.42
1	L	24	THR	CB-CA-C	-5.87	98.75	110.42
1	D	454	ARG	NE-CZ-NH1	5.87	127.37	121.50
1	K	44	GLU	CB-CG-CD	5.87	122.57	112.60
1	B	18	ASP	CA-CB-CG	-5.86	106.74	112.60
1	D	115	LEU	O-C-N	5.86	128.85	122.11
1	I	227	THR	N-CA-C	-5.86	99.45	109.24
1	G	105	ARG	NE-CZ-NH1	5.86	127.36	121.50
1	H	219	ASN	CA-CB-CG	-5.86	106.74	112.60
1	L	278	GLY	O-C-N	5.86	130.32	122.70
1	C	428	LEU	O-C-N	5.86	128.91	122.11
1	I	428	LEU	O-C-N	5.86	128.91	122.11
1	B	454	ARG	NE-CZ-NH1	5.86	127.36	121.50
1	A	18	ASP	CA-CB-CG	-5.86	106.75	112.60
1	C	454	ARG	NE-CZ-NH1	5.86	127.36	121.50
1	C	458	HIS	CA-C-O	5.86	124.46	119.66
1	K	279	THR	CA-CB-OG1	-5.86	100.82	109.60
1	D	44	GLU	CB-CG-CD	5.85	122.55	112.60
1	F	219	ASN	CA-CB-CG	-5.85	106.75	112.60
1	H	87	ILE	CB-CG1-CD1	5.85	126.09	113.80
1	L	454	ARG	NE-CZ-NH1	5.85	127.35	121.50
1	G	87	ILE	CB-CG1-CD1	5.85	126.09	113.80
1	I	278	GLY	O-C-N	5.85	130.31	122.70
1	A	44	GLU	CB-CG-CD	5.85	122.54	112.60
1	G	18	ASP	CA-CB-CG	-5.85	106.75	112.60
1	K	24	THR	CB-CA-C	-5.85	98.78	110.42
1	B	44	GLU	CB-CG-CD	5.85	122.54	112.60
1	C	105	ARG	NE-CZ-NH1	5.85	127.35	121.50
1	E	87	ILE	CB-CG1-CD1	5.85	126.08	113.80
1	H	24	THR	CB-CA-C	-5.85	98.78	110.42
1	K	278	GLY	O-C-N	5.85	130.30	122.70
1	K	428	LEU	O-C-N	5.85	128.89	122.11
1	J	87	ILE	CB-CG1-CD1	5.85	126.08	113.80
1	F	87	ILE	CB-CG1-CD1	5.84	126.07	113.80
1	E	212	GLU	N-CA-CB	5.84	120.36	110.49
1	F	24	THR	CB-CA-C	-5.84	98.80	110.42
1	F	279	THR	CA-CB-OG1	-5.84	100.84	109.60
1	G	278	GLY	O-C-N	5.84	130.29	122.70
1	E	24	THR	CB-CA-C	-5.84	98.80	110.42
1	C	91	ILE	CA-C-O	-5.84	113.48	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	224	ARG	CA-C-N	5.84	132.69	121.54
1	D	224	ARG	C-N-CA	5.84	132.69	121.54
1	J	428	LEU	O-C-N	5.84	128.88	122.11
1	D	326	TYR	O-C-N	5.83	130.35	122.59
1	K	454	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	C	212	GLU	N-CA-CB	5.83	120.35	110.49
1	I	18	ASP	CA-CB-CG	-5.83	106.77	112.60
1	I	454	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	A	24	THR	CB-CA-C	-5.83	98.81	110.42
1	H	279	THR	CA-CB-OG1	-5.83	100.85	109.60
1	D	24	THR	CB-CA-C	-5.83	98.82	110.42
1	E	105	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	G	279	THR	CA-CB-OG1	-5.83	100.85	109.60
1	C	24	THR	CB-CA-C	-5.83	98.82	110.42
1	G	214	ALA	CA-C-O	5.83	126.42	120.24
1	J	279	THR	CA-CB-OG1	-5.83	100.86	109.60
1	D	458	HIS	CA-C-O	5.83	124.44	119.66
1	I	44	GLU	CB-CG-CD	5.83	122.50	112.60
1	J	18	ASP	CA-CB-CG	-5.83	106.78	112.60
1	B	214	ALA	CA-C-O	5.82	126.41	120.24
1	F	18	ASP	CA-CB-CG	-5.82	106.78	112.60
1	I	279	THR	CA-CB-OG1	-5.82	100.87	109.60
1	H	428	LEU	O-C-N	5.82	128.86	122.11
1	L	279	THR	CA-CB-OG1	-5.82	100.87	109.60
1	B	115	LEU	O-C-N	5.82	128.80	122.11
1	B	428	LEU	O-C-N	5.82	128.86	122.11
1	L	224	ARG	CA-C-N	5.82	132.65	121.54
1	L	224	ARG	C-N-CA	5.82	132.65	121.54
1	G	24	THR	CB-CA-C	-5.82	98.85	110.42
1	G	73	THR	N-CA-CB	-5.82	102.72	111.56
1	D	428	LEU	O-C-N	5.81	128.85	122.11
1	H	44	GLU	CB-CG-CD	5.81	122.48	112.60
1	H	18	ASP	CA-CB-CG	-5.81	106.79	112.60
1	I	24	THR	CB-CA-C	-5.81	98.85	110.42
1	L	214	ALA	CA-C-O	5.81	126.40	120.24
1	D	73	THR	N-CA-CB	-5.81	102.73	111.56
1	E	44	GLU	CB-CG-CD	5.81	122.48	112.60
1	K	214	ALA	CA-C-O	5.81	126.40	120.24
1	L	73	THR	N-CA-CB	-5.81	102.73	111.56
1	A	219	ASN	CA-CB-CG	-5.81	106.79	112.60
1	C	214	ALA	CA-C-O	5.81	126.39	120.24
1	E	224	ARG	CA-C-N	5.81	132.63	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	224	ARG	C-N-CA	5.81	132.63	121.54
1	A	279	THR	CA-CB-OG1	-5.80	100.89	109.60
1	A	73	THR	N-CA-CB	-5.80	102.74	111.56
1	B	279	THR	CA-CB-OG1	-5.80	100.90	109.60
1	C	73	THR	N-CA-CB	-5.80	102.74	111.56
1	D	279	THR	CA-CB-OG1	-5.80	100.90	109.60
1	E	115	LEU	O-C-N	5.80	128.78	122.11
1	E	428	LEU	O-C-N	5.80	128.84	122.11
1	F	214	ALA	CA-C-O	5.80	126.39	120.24
1	K	73	THR	N-CA-CB	-5.80	102.74	111.56
1	E	91	ILE	CA-C-O	-5.80	113.53	120.78
1	F	73	THR	N-CA-CB	-5.80	102.74	111.56
1	G	219	ASN	CA-CB-CG	-5.80	106.80	112.60
1	J	214	ALA	CA-C-O	5.80	126.39	120.24
1	C	260	MET	CA-C-N	5.80	130.48	122.77
1	C	260	MET	C-N-CA	5.80	130.48	122.77
1	A	428	LEU	O-C-N	5.80	128.83	122.11
1	A	458	HIS	CA-C-O	5.80	124.41	119.66
1	G	115	LEU	O-C-N	5.80	128.78	122.11
1	H	224	ARG	CA-C-N	5.80	132.61	121.54
1	H	224	ARG	C-N-CA	5.80	132.61	121.54
1	A	214	ALA	CA-C-O	5.79	126.38	120.24
1	C	224	ARG	CA-C-N	5.79	132.60	121.54
1	C	224	ARG	C-N-CA	5.79	132.60	121.54
1	C	279	THR	CA-CB-OG1	-5.79	100.91	109.60
1	I	73	THR	N-CA-CB	-5.79	102.76	111.56
1	J	73	THR	N-CA-CB	-5.79	102.76	111.56
1	I	178	GLY	N-CA-C	-5.79	99.46	113.18
1	G	224	ARG	CA-C-N	5.79	132.59	121.54
1	G	224	ARG	C-N-CA	5.79	132.59	121.54
1	J	224	ARG	CA-C-N	5.79	132.59	121.54
1	J	224	ARG	C-N-CA	5.79	132.59	121.54
1	E	253	ALA	CB-CA-C	5.78	120.42	109.37
1	F	428	LEU	O-C-N	5.78	128.82	122.11
1	K	105	ARG	NE-CZ-NH1	5.78	127.28	121.50
1	F	398	ASP	CB-CA-C	5.78	120.22	110.79
1	H	398	ASP	CB-CA-C	5.78	120.21	110.79
1	H	236	GLN	N-CA-CB	5.78	118.73	110.06
1	A	224	ARG	CA-C-N	5.78	132.57	121.54
1	A	224	ARG	C-N-CA	5.78	132.57	121.54
1	H	278	GLY	O-C-N	5.78	130.21	122.70
1	B	219	ASN	CA-CB-CG	-5.78	106.83	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	253	ALA	CB-CA-C	5.78	120.40	109.37
1	C	335	SER	N-CA-C	5.78	123.10	110.80
1	E	279	THR	CA-CB-OG1	-5.78	100.94	109.60
1	E	398	ASP	CB-CA-C	5.78	120.20	110.79
1	F	253	ALA	CB-CA-C	5.78	120.40	109.37
1	L	253	ALA	CB-CA-C	5.78	120.40	109.37
1	G	454	ARG	NE-CZ-NH1	5.77	127.27	121.50
1	I	219	ASN	CA-CB-CG	-5.77	106.83	112.60
1	B	73	THR	N-CA-CB	-5.77	102.79	111.56
1	F	278	GLY	O-C-N	5.77	130.20	122.70
1	K	91	ILE	CA-C-O	-5.77	113.56	120.78
1	D	465	TYR	CB-CG-CD1	-5.77	112.15	120.80
1	E	454	ARG	NE-CZ-NH1	5.77	127.27	121.50
1	H	105	ARG	NE-CZ-NH1	5.77	127.27	121.50
1	J	326	TYR	O-C-N	5.77	130.26	122.59
1	A	398	ASP	CB-CA-C	5.77	120.19	110.79
1	J	91	ILE	CA-C-O	-5.77	113.57	120.78
1	K	398	ASP	CB-CA-C	5.77	120.19	110.79
1	D	91	ILE	CA-C-O	-5.76	113.57	120.78
1	H	178	GLY	N-CA-C	-5.76	99.52	113.18
1	J	458	HIS	CA-C-O	5.76	124.39	119.66
1	K	253	ALA	CB-CA-C	5.76	120.38	109.37
1	L	91	ILE	CA-C-O	-5.76	113.58	120.78
1	D	253	ALA	CB-CA-C	5.76	120.37	109.37
1	J	335	SER	N-CA-C	5.76	123.07	110.80
1	L	105	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	A	105	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	A	253	ALA	CB-CA-C	5.76	120.37	109.37
1	H	454	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	I	326	TYR	O-C-N	5.76	130.25	122.59
1	G	253	ALA	CB-CA-C	5.76	120.37	109.37
1	B	253	ALA	CB-CA-C	5.76	120.36	109.37
1	F	454	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	G	236	GLN	N-CA-CB	5.76	118.69	110.06
1	A	178	GLY	N-CA-C	-5.75	99.54	113.18
1	H	214	ALA	CA-C-O	5.75	126.34	120.24
1	H	260	MET	CA-C-N	5.75	130.42	122.77
1	H	260	MET	C-N-CA	5.75	130.42	122.77
1	E	118	THR	N-CA-C	-5.75	103.85	111.96
1	F	224	ARG	CA-C-N	5.75	132.53	121.54
1	F	224	ARG	C-N-CA	5.75	132.53	121.54
1	H	73	THR	N-CA-CB	-5.75	102.81	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	105	ARG	N-CA-CB	5.75	119.08	110.22
1	I	118	THR	N-CA-C	-5.75	103.85	111.96
1	I	214	ALA	CA-C-O	5.75	126.34	120.24
1	J	178	GLY	N-CA-C	-5.75	99.55	113.18
1	B	335	SER	N-CA-C	5.75	123.05	110.80
1	D	351	PRO	O-C-N	5.75	129.95	122.24
1	E	335	SER	N-CA-C	5.75	123.05	110.80
1	J	105	ARG	N-CA-CB	5.75	119.08	110.22
1	A	454	ARG	NE-CZ-NH1	5.75	127.25	121.50
1	H	465	TYR	CB-CG-CD1	-5.75	112.18	120.80
1	L	335	SER	N-CA-C	5.75	123.04	110.80
1	A	118	THR	N-CA-C	-5.75	103.86	111.96
1	A	335	SER	N-CA-C	5.75	123.04	110.80
1	B	398	ASP	CB-CA-C	5.75	120.16	110.79
1	C	178	GLY	N-CA-C	-5.75	99.56	113.18
1	D	105	ARG	N-CA-CB	5.75	119.07	110.22
1	G	178	GLY	N-CA-C	-5.75	99.56	113.18
1	J	253	ALA	CB-CA-C	5.75	120.34	109.37
1	A	115	LEU	O-C-N	5.75	128.72	122.11
1	D	335	SER	N-CA-C	5.75	123.04	110.80
1	I	224	ARG	CA-C-N	5.75	132.51	121.54
1	I	224	ARG	C-N-CA	5.75	132.51	121.54
1	I	260	MET	CA-C-N	5.75	130.41	122.77
1	I	260	MET	C-N-CA	5.75	130.41	122.77
1	B	105	ARG	NE-CZ-NH1	5.74	127.24	121.50
1	E	73	THR	N-CA-CB	-5.74	102.83	111.56
1	G	91	ILE	CA-C-O	-5.74	113.60	120.78
1	I	91	ILE	CA-C-O	-5.74	113.60	120.78
1	J	398	ASP	CB-CA-C	5.74	120.15	110.79
1	E	214	ALA	CA-C-O	5.74	126.33	120.24
1	K	224	ARG	CA-C-N	5.74	132.51	121.54
1	K	224	ARG	C-N-CA	5.74	132.51	121.54
1	F	105	ARG	NE-CZ-NH1	5.74	127.24	121.50
1	F	335	SER	N-CA-C	5.74	123.03	110.80
1	G	335	SER	N-CA-C	5.74	123.03	110.80
1	I	115	LEU	O-C-N	5.74	128.71	122.11
1	K	465	TYR	CB-CG-CD1	-5.74	112.19	120.80
1	A	465	TYR	CB-CG-CD1	-5.74	112.19	120.80
1	B	178	GLY	N-CA-C	-5.74	99.58	113.18
1	E	465	TYR	CB-CG-CD1	-5.74	112.19	120.80
1	F	105	ARG	N-CA-CB	5.74	119.06	110.22
1	L	398	ASP	CB-CA-C	5.74	120.14	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	178	GLY	N-CA-C	-5.74	99.58	113.18
1	K	105	ARG	N-CA-CB	5.74	119.05	110.22
1	K	115	LEU	O-C-N	5.73	128.70	122.11
1	B	91	ILE	CA-C-O	-5.73	113.61	120.78
1	D	178	GLY	N-CA-C	-5.73	99.59	113.18
1	I	253	ALA	CB-CA-C	5.73	120.32	109.37
1	J	236	GLN	N-CA-CB	5.73	118.66	110.06
1	E	458	HIS	CA-C-O	5.73	124.36	119.66
1	L	236	GLN	N-CA-CB	5.73	118.66	110.06
1	G	105	ARG	N-CA-CB	5.73	119.04	110.22
1	K	335	SER	N-CA-C	5.73	123.00	110.80
1	F	178	GLY	N-CA-C	-5.73	99.61	113.18
1	J	115	LEU	O-C-N	5.73	128.70	122.11
1	J	351	PRO	O-C-N	5.73	129.91	122.24
1	J	454	ARG	NE-CZ-NH1	5.73	127.23	121.50
1	L	105	ARG	N-CA-CB	5.73	119.04	110.22
1	B	224	ARG	CA-C-N	5.73	132.48	121.54
1	B	224	ARG	C-N-CA	5.73	132.48	121.54
1	E	326	TYR	O-C-N	5.72	130.20	122.59
1	F	91	ILE	CA-C-O	-5.72	113.62	120.78
1	F	115	LEU	O-C-N	5.72	128.69	122.11
1	I	398	ASP	CB-CA-C	5.72	120.12	110.79
1	B	118	THR	N-CA-C	-5.72	103.89	111.96
1	D	105	ARG	NE-CZ-NH1	5.72	127.22	121.50
1	K	178	GLY	N-CA-C	-5.72	99.62	113.18
1	G	326	TYR	O-C-N	5.72	130.20	122.59
1	A	91	ILE	CA-C-O	-5.72	113.63	120.78
1	H	253	ALA	CB-CA-C	5.72	120.29	109.37
1	I	465	TYR	CB-CG-CD1	-5.72	112.22	120.80
1	J	260	MET	CA-C-N	5.72	130.38	122.77
1	J	260	MET	C-N-CA	5.72	130.38	122.77
1	H	326	TYR	O-C-N	5.72	130.19	122.59
1	I	335	SER	N-CA-C	5.72	122.98	110.80
1	C	118	THR	N-CA-C	-5.72	103.90	111.96
1	C	236	GLN	N-CA-CB	5.72	118.63	110.06
1	J	465	TYR	CB-CG-CD1	-5.72	112.23	120.80
1	L	118	THR	N-CA-C	-5.72	103.90	111.96
1	A	236	GLN	N-CA-CB	5.71	118.63	110.06
1	C	105	ARG	N-CA-CB	5.71	119.02	110.22
1	B	20	ARG	N-CA-C	-5.71	98.63	110.80
1	L	465	TYR	CB-CG-CD1	-5.71	112.23	120.80
1	C	465	TYR	CB-CG-CD1	-5.71	112.23	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	105	ARG	NE-CZ-NH1	5.71	127.21	121.50
1	C	351	PRO	O-C-N	5.71	129.89	122.24
1	I	236	GLN	N-CA-CB	5.71	118.62	110.06
1	J	20	ARG	N-CA-C	-5.71	98.64	110.80
1	H	335	SER	N-CA-C	5.71	122.96	110.80
1	I	88	ARG	O-C-N	5.71	129.93	122.68
1	L	178	GLY	N-CA-C	-5.71	99.66	113.18
1	B	458	HIS	CA-C-O	5.71	124.34	119.66
1	G	118	THR	N-CA-C	-5.71	103.92	111.96
1	A	105	ARG	N-CA-CB	5.70	119.00	110.22
1	K	326	TYR	O-C-N	5.70	130.18	122.59
1	G	398	ASP	CB-CA-C	5.70	120.08	110.79
1	H	20	ARG	N-CA-C	-5.70	98.66	110.80
1	C	115	LEU	O-C-N	5.70	128.67	122.11
1	E	105	ARG	N-CA-CB	5.70	119.00	110.22
1	F	118	THR	N-CA-C	-5.70	103.92	111.96
1	H	105	ARG	N-CA-CB	5.70	119.00	110.22
1	L	458	HIS	CA-C-O	5.70	124.33	119.66
1	B	465	TYR	CB-CG-CD1	-5.70	112.25	120.80
1	H	118	THR	N-CA-C	-5.70	103.93	111.96
1	K	63	SER	CA-CB-OG	-5.70	99.70	111.10
1	G	63	SER	CA-CB-OG	-5.70	99.71	111.10
1	F	20	ARG	N-CA-C	-5.70	98.67	110.80
1	F	465	TYR	CB-CG-CD1	-5.70	112.26	120.80
1	G	351	PRO	O-C-N	5.69	129.87	122.24
1	J	87	ILE	O-C-N	5.69	129.26	123.00
1	L	115	LEU	O-C-N	5.69	128.66	122.11
1	A	326	TYR	O-C-N	5.69	130.16	122.59
1	I	20	ARG	N-CA-C	-5.69	98.67	110.80
1	D	118	THR	N-CA-C	-5.69	103.94	111.96
1	A	20	ARG	N-CA-C	-5.69	98.68	110.80
1	A	260	MET	CA-C-N	5.69	130.33	122.77
1	A	260	MET	C-N-CA	5.69	130.33	122.77
1	A	351	PRO	O-C-N	5.69	129.86	122.24
1	D	398	ASP	CB-CA-C	5.69	120.06	110.79
1	E	236	GLN	N-CA-CB	5.69	118.59	110.06
1	B	88	ARG	O-C-N	5.69	129.90	122.68
1	H	63	SER	CA-CB-OG	-5.68	99.73	111.10
1	L	63	SER	CA-CB-OG	-5.68	99.73	111.10
1	L	326	TYR	O-C-N	5.68	130.15	122.59
1	F	260	MET	CA-C-N	5.68	130.33	122.77
1	F	260	MET	C-N-CA	5.68	130.33	122.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	465	TYR	CB-CG-CD1	-5.68	112.28	120.80
1	L	351	PRO	O-C-N	5.68	129.85	122.24
1	F	326	TYR	O-C-N	5.68	130.15	122.59
1	A	88	ARG	O-C-N	5.68	129.89	122.68
1	B	236	GLN	N-CA-CB	5.68	118.58	110.06
1	C	398	ASP	CB-CA-C	5.68	120.05	110.79
1	E	20	ARG	N-CA-C	-5.68	98.70	110.80
1	I	63	SER	CA-CB-OG	-5.68	99.74	111.10
1	K	118	THR	N-CA-C	-5.68	103.95	111.96
1	H	91	ILE	CA-C-O	-5.68	113.68	120.78
1	L	88	ARG	O-C-N	5.68	129.89	122.68
1	K	20	ARG	N-CA-C	-5.68	98.71	110.80
1	L	20	ARG	N-CA-C	-5.68	98.71	110.80
1	B	105	ARG	N-CA-CB	5.67	118.96	110.22
1	F	236	GLN	N-CA-CB	5.67	118.57	110.06
1	K	236	GLN	N-CA-CB	5.67	118.57	110.06
1	D	236	GLN	N-CA-CB	5.67	118.57	110.06
1	G	260	MET	CA-C-N	5.67	130.31	122.77
1	G	260	MET	C-N-CA	5.67	130.31	122.77
1	B	63	SER	CA-CB-OG	-5.67	99.76	111.10
1	C	20	ARG	N-CA-C	-5.67	98.73	110.80
1	G	458	HIS	CA-C-O	5.67	124.31	119.66
1	L	260	MET	CA-C-N	5.67	130.31	122.77
1	L	260	MET	C-N-CA	5.67	130.31	122.77
1	L	428	LEU	O-C-N	5.67	128.69	122.11
1	G	87	ILE	O-C-N	5.67	129.23	123.00
1	J	118	THR	N-CA-C	-5.67	103.97	111.96
1	A	63	SER	CA-CB-OG	-5.66	99.78	111.10
1	H	351	PRO	O-C-N	5.66	129.83	122.24
1	B	351	PRO	O-C-N	5.66	129.82	122.24
1	J	88	ARG	O-C-N	5.66	129.87	122.68
1	C	63	SER	CA-CB-OG	-5.65	99.79	111.10
1	D	63	SER	CA-CB-OG	-5.65	99.79	111.10
1	E	260	MET	CA-C-N	5.65	130.28	122.77
1	E	260	MET	C-N-CA	5.65	130.28	122.77
1	D	20	ARG	N-CA-C	-5.65	98.77	110.80
1	K	351	PRO	O-C-N	5.65	129.81	122.24
1	G	20	ARG	N-CA-C	-5.64	98.78	110.80
1	F	87	ILE	O-C-N	5.64	129.21	123.00
1	I	458	HIS	CA-C-O	5.64	124.28	119.66
1	J	63	SER	CA-CB-OG	-5.64	99.82	111.10
1	B	340	SER	N-CA-C	-5.63	98.80	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	88	ARG	O-C-N	5.63	129.84	122.68
1	H	88	ARG	O-C-N	5.63	129.84	122.68
1	I	53	SER	N-CA-C	5.63	122.80	110.80
1	G	88	ARG	O-C-N	5.63	129.83	122.68
1	K	260	MET	CA-C-N	5.63	130.26	122.77
1	K	260	MET	C-N-CA	5.63	130.26	122.77
1	G	172	ARG	NE-CZ-NH1	5.63	127.13	121.50
1	E	63	SER	CA-CB-OG	-5.63	99.85	111.10
1	C	88	ARG	O-C-N	5.62	129.82	122.68
1	F	340	SER	N-CA-C	-5.62	98.82	110.80
1	A	87	ILE	O-C-N	5.62	129.19	123.00
1	F	20	ARG	CA-CB-CG	5.62	125.35	114.10
1	F	63	SER	CA-CB-OG	-5.62	99.85	111.10
1	B	260	MET	CA-C-N	5.62	130.25	122.77
1	B	260	MET	C-N-CA	5.62	130.25	122.77
1	D	260	MET	CA-C-N	5.62	130.25	122.77
1	D	260	MET	C-N-CA	5.62	130.25	122.77
1	F	25	LYS	N-CA-C	-5.62	105.52	112.38
1	K	53	SER	N-CA-C	5.62	122.77	110.80
1	G	340	SER	N-CA-C	-5.62	98.83	110.80
1	J	53	SER	N-CA-C	5.62	122.76	110.80
1	I	351	PRO	O-C-N	5.61	129.76	122.24
1	A	53	SER	N-CA-C	5.61	122.75	110.80
1	C	20	ARG	CA-CB-CG	5.61	125.32	114.10
1	D	25	LYS	N-CA-C	-5.61	105.53	112.38
1	E	351	PRO	O-C-N	5.61	129.76	122.24
1	H	20	ARG	CA-CB-CG	5.61	125.32	114.10
1	B	53	SER	N-CA-C	5.61	122.75	110.80
1	H	340	SER	N-CA-C	-5.61	98.85	110.80
1	C	87	ILE	O-C-N	5.61	129.17	123.00
1	G	48	MET	CA-C-N	5.61	129.56	122.16
1	G	48	MET	C-N-CA	5.61	129.56	122.16
1	I	48	MET	CA-C-N	5.61	129.56	122.16
1	I	48	MET	C-N-CA	5.61	129.56	122.16
1	K	88	ARG	O-C-N	5.61	129.80	122.68
1	L	53	SER	N-CA-C	5.61	122.74	110.80
1	A	20	ARG	CA-CB-CG	5.61	125.31	114.10
1	D	231	LYS	N-CA-CB	5.61	118.29	109.94
1	G	20	ARG	CA-CB-CG	5.61	125.31	114.10
1	I	42	PHE	N-CA-C	-5.61	104.18	111.02
1	I	340	SER	N-CA-C	-5.61	98.86	110.80
1	B	145	SER	N-CA-C	5.60	119.38	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	340	SER	N-CA-C	-5.60	98.87	110.80
1	B	326	TYR	O-C-N	5.60	130.04	122.59
1	D	87	ILE	O-C-N	5.60	129.16	123.00
1	A	25	LYS	N-CA-C	-5.60	105.55	112.38
1	H	210	HIS	CA-CB-CG	-5.60	108.20	113.80
1	C	326	TYR	O-C-N	5.60	130.04	122.59
1	E	20	ARG	CA-CB-CG	5.60	125.30	114.10
1	F	53	SER	N-CA-C	5.60	122.73	110.80
1	D	42	PHE	N-CA-C	-5.60	104.19	111.02
1	D	53	SER	N-CA-C	5.60	122.72	110.80
1	F	75	VAL	O-C-N	5.60	129.10	122.66
1	F	88	ARG	O-C-N	5.60	129.79	122.68
1	C	22	THR	N-CA-C	-5.59	103.25	110.19
1	C	354	ARG	CB-CA-C	5.59	119.45	109.38
1	E	340	SER	N-CA-C	-5.59	98.88	110.80
1	J	340	SER	N-CA-C	-5.59	98.89	110.80
1	L	231	LYS	N-CA-CB	5.59	118.28	109.94
1	D	20	ARG	CA-CB-CG	5.59	125.28	114.10
1	D	340	SER	N-CA-C	-5.59	98.89	110.80
1	B	6	LEU	CA-C-N	-5.59	110.87	121.54
1	B	6	LEU	C-N-CA	-5.59	110.87	121.54
1	F	351	PRO	O-C-N	5.59	129.73	122.24
1	K	25	LYS	N-CA-C	-5.59	105.56	112.38
1	F	354	ARG	CB-CA-C	5.59	119.44	109.38
1	L	464	LEU	CB-CA-C	5.59	120.17	110.79
1	D	88	ARG	O-C-N	5.58	129.77	122.68
1	G	53	SER	N-CA-C	5.58	122.70	110.80
1	H	25	LYS	N-CA-C	-5.58	105.57	112.38
1	H	53	SER	N-CA-C	5.58	122.69	110.80
1	H	87	ILE	O-C-N	5.58	129.14	123.00
1	B	136	ASP	CA-C-O	-5.58	114.95	120.70
1	E	53	SER	N-CA-C	5.58	122.69	110.80
1	E	395	ASN	O-C-N	5.58	129.76	123.06
1	H	145	SER	N-CA-C	5.58	119.35	112.54
1	I	87	ILE	O-C-N	5.58	129.14	123.00
1	L	340	SER	N-CA-C	-5.58	98.91	110.80
1	C	25	LYS	N-CA-C	-5.58	105.57	112.38
1	E	22	THR	N-CA-C	-5.58	103.27	110.19
1	F	231	LYS	N-CA-CB	5.58	118.25	109.94
1	L	25	LYS	N-CA-C	-5.58	105.58	112.38
1	L	20	ARG	CA-CB-CG	5.58	125.25	114.10
1	C	340	SER	N-CA-C	-5.58	98.92	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	281	LEU	CB-CA-C	5.58	121.52	110.42
1	H	116	ARG	NH1-CZ-NH2	5.58	126.55	119.30
1	A	354	ARG	CB-CA-C	5.57	119.41	109.38
1	J	20	ARG	CA-CB-CG	5.57	125.25	114.10
1	L	87	ILE	O-C-N	5.57	129.13	123.00
1	J	211	HIS	CA-C-O	-5.57	114.34	120.69
1	B	87	ILE	O-C-N	5.57	129.13	123.00
1	G	464	LEU	CB-CA-C	5.57	120.15	110.79
1	I	18	ASP	N-CA-C	5.57	122.67	110.80
1	K	20	ARG	CA-CB-CG	5.57	125.24	114.10
1	D	48	MET	CA-C-N	5.57	129.51	122.16
1	D	48	MET	C-N-CA	5.57	129.51	122.16
1	D	354	ARG	CB-CA-C	5.57	119.40	109.38
1	K	340	SER	N-CA-C	-5.57	98.94	110.80
1	B	22	THR	N-CA-C	-5.57	103.29	110.19
1	D	145	SER	N-CA-C	5.57	119.33	112.54
1	L	354	ARG	CB-CA-C	5.57	119.40	109.38
1	B	20	ARG	CA-CB-CG	5.56	125.23	114.10
1	E	231	LYS	N-CA-CB	5.56	118.23	109.94
1	E	354	ARG	CB-CA-C	5.56	119.40	109.38
1	G	136	ASP	CA-C-O	-5.56	114.97	120.70
1	I	464	LEU	CB-CA-C	5.56	120.14	110.79
1	K	354	ARG	CB-CA-C	5.56	119.39	109.38
1	A	42	PHE	N-CA-C	-5.56	104.23	111.02
1	E	48	MET	CA-C-N	5.56	129.50	122.16
1	E	48	MET	C-N-CA	5.56	129.50	122.16
1	F	172	ARG	NE-CZ-NH1	5.56	127.06	121.50
1	K	6	LEU	CA-C-N	-5.56	110.92	121.54
1	K	6	LEU	C-N-CA	-5.56	110.92	121.54
1	K	87	ILE	O-C-N	5.56	129.11	123.00
1	C	464	LEU	CB-CA-C	5.56	120.13	110.79
1	H	6	LEU	CA-C-N	-5.56	110.93	121.54
1	H	6	LEU	C-N-CA	-5.56	110.93	121.54
1	J	354	ARG	CB-CA-C	5.56	119.38	109.38
1	E	211	HIS	CA-C-O	-5.56	114.36	120.69
1	C	116	ARG	NH1-CZ-NH2	5.55	126.52	119.30
1	D	389	GLY	N-CA-C	-5.55	100.01	113.18
1	F	22	THR	N-CA-C	-5.55	103.30	110.19
1	J	6	LEU	CA-C-N	-5.55	110.93	121.54
1	J	6	LEU	C-N-CA	-5.55	110.93	121.54
1	C	53	SER	N-CA-C	5.55	122.63	110.80
1	C	136	ASP	CA-C-O	-5.55	114.98	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	18	ASP	N-CA-C	5.55	122.63	110.80
1	I	25	LYS	N-CA-C	-5.55	105.61	112.38
1	J	172	ARG	NE-CZ-NH1	5.55	127.05	121.50
1	A	18	ASP	N-CA-C	5.55	122.62	110.80
1	L	211	HIS	CA-C-O	-5.55	114.36	120.69
1	B	354	ARG	CB-CA-C	5.55	119.37	109.38
1	E	25	LYS	N-CA-C	-5.55	105.61	112.38
1	H	22	THR	N-CA-C	-5.55	103.31	110.19
1	H	464	LEU	CB-CA-C	5.55	120.11	110.79
1	J	22	THR	N-CA-C	-5.55	103.31	110.19
1	A	231	LYS	N-CA-CB	5.55	118.21	109.94
1	B	18	ASP	N-CA-C	5.55	122.62	110.80
1	C	48	MET	CA-C-N	5.55	129.48	122.16
1	C	48	MET	C-N-CA	5.55	129.48	122.16
1	K	139	ARG	NE-CZ-NH2	-5.55	114.21	119.20
1	B	42	PHE	N-CA-C	-5.55	104.25	111.02
1	E	145	SER	N-CA-C	5.55	119.31	112.54
1	F	6	LEU	CA-C-N	-5.55	110.94	121.54
1	F	6	LEU	C-N-CA	-5.55	110.94	121.54
1	H	354	ARG	CB-CA-C	5.55	119.36	109.38
1	I	354	ARG	CB-CA-C	5.55	119.36	109.38
1	D	136	ASP	CA-C-O	-5.54	114.99	120.70
1	D	464	LEU	CB-CA-C	5.54	120.11	110.79
1	H	48	MET	CA-C-N	5.54	129.48	122.16
1	H	48	MET	C-N-CA	5.54	129.48	122.16
1	L	210	HIS	CA-CB-CG	-5.54	108.25	113.80
1	C	6	LEU	CA-C-N	-5.54	110.95	121.54
1	C	6	LEU	C-N-CA	-5.54	110.95	121.54
1	H	231	LYS	N-CA-CB	5.54	118.20	109.94
1	K	42	PHE	N-CA-C	-5.54	104.26	111.02
1	A	48	MET	CA-C-N	5.54	129.47	122.16
1	A	48	MET	C-N-CA	5.54	129.47	122.16
1	A	145	SER	N-CA-C	5.54	119.30	112.54
1	F	42	PHE	N-CA-C	-5.54	104.26	111.02
1	G	25	LYS	N-CA-C	-5.54	105.62	112.38
1	H	281	LEU	CB-CA-C	5.54	121.45	110.42
1	L	389	GLY	N-CA-C	-5.54	100.05	113.18
1	I	6	LEU	CA-C-N	-5.54	110.96	121.54
1	I	6	LEU	C-N-CA	-5.54	110.96	121.54
1	B	389	GLY	N-CA-C	-5.54	100.06	113.18
1	D	75	VAL	O-C-N	5.54	129.03	122.66
1	E	18	ASP	N-CA-C	5.54	122.60	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	139	ARG	NE-CZ-NH2	-5.54	114.22	119.20
1	E	263	ASP	CB-CA-C	5.54	121.44	110.42
1	E	464	LEU	CB-CA-C	5.54	120.10	110.79
1	H	389	GLY	N-CA-C	-5.54	100.05	113.18
1	I	20	ARG	CA-CB-CG	5.54	125.18	114.10
1	J	42	PHE	N-CA-C	-5.54	104.26	111.02
1	K	231	LYS	N-CA-CB	5.54	118.19	109.94
1	B	25	LYS	N-CA-C	-5.54	105.62	112.38
1	B	464	LEU	CB-CA-C	5.54	120.09	110.79
1	D	263	ASP	CB-CA-C	5.54	121.44	110.42
1	K	145	SER	N-CA-C	5.54	119.30	112.54
1	B	231	LYS	N-CA-CB	5.54	118.19	109.94
1	E	87	ILE	O-C-N	5.54	129.09	123.00
1	E	389	GLY	N-CA-C	-5.54	100.06	113.18
1	H	172	ARG	NE-CZ-NH1	5.54	127.04	121.50
1	K	48	MET	CA-C-N	5.54	129.47	122.16
1	K	48	MET	C-N-CA	5.54	129.47	122.16
1	A	389	GLY	N-CA-C	-5.53	100.06	113.18
1	B	139	ARG	NE-CZ-NH2	-5.53	114.22	119.20
1	G	354	ARG	CB-CA-C	5.53	119.34	109.38
1	I	22	THR	N-CA-C	-5.53	103.33	110.19
1	A	281	LEU	CB-CA-C	5.53	121.43	110.42
1	D	211	HIS	CA-C-O	-5.53	114.38	120.69
1	F	18	ASP	N-CA-C	5.53	122.58	110.80
1	J	25	LYS	N-CA-C	-5.53	105.63	112.38
1	D	210	HIS	CA-CB-CG	-5.53	108.27	113.80
1	E	6	LEU	CA-C-N	-5.53	110.98	121.54
1	E	6	LEU	C-N-CA	-5.53	110.98	121.54
1	J	18	ASP	N-CA-C	5.53	122.58	110.80
1	K	281	LEU	CB-CA-C	5.53	121.42	110.42
1	B	75	VAL	O-C-N	5.53	129.02	122.66
1	F	263	ASP	CB-CA-C	5.53	121.42	110.42
1	A	464	LEU	CB-CA-C	5.53	120.08	110.79
1	C	18	ASP	N-CA-C	5.53	122.58	110.80
1	C	145	SER	N-CA-C	5.53	119.28	112.54
1	F	48	MET	CA-C-N	5.53	129.46	122.16
1	F	48	MET	C-N-CA	5.53	129.46	122.16
1	G	145	SER	N-CA-C	5.53	119.28	112.54
1	I	281	LEU	CB-CA-C	5.53	121.42	110.42
1	J	389	GLY	N-CA-C	-5.53	100.08	113.18
1	A	211	HIS	CA-C-O	-5.52	114.39	120.69
1	B	281	LEU	CB-CA-C	5.52	121.41	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	395	ASN	O-C-N	5.52	129.69	123.06
1	H	18	ASP	N-CA-C	5.52	122.57	110.80
1	K	389	GLY	N-CA-C	-5.52	100.09	113.18
1	B	116	ARG	NH1-CZ-NH2	5.52	126.48	119.30
1	C	211	HIS	CA-C-O	-5.52	114.39	120.69
1	E	172	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	G	42	PHE	N-CA-C	-5.52	104.28	111.02
1	J	263	ASP	CB-CA-C	5.52	121.41	110.42
1	A	6	LEU	CA-C-N	-5.52	111.00	121.54
1	A	6	LEU	C-N-CA	-5.52	111.00	121.54
1	L	48	MET	CA-C-N	5.52	129.45	122.16
1	L	48	MET	C-N-CA	5.52	129.45	122.16
1	B	263	ASP	CB-CA-C	5.52	121.40	110.42
1	G	116	ARG	NH1-CZ-NH2	5.52	126.47	119.30
1	I	210	HIS	CA-CB-CG	-5.52	108.28	113.80
1	B	256	MET	N-CA-CB	5.52	117.49	110.04
1	D	256	MET	N-CA-CB	5.52	117.49	110.04
1	E	281	LEU	CB-CA-C	5.52	121.40	110.42
1	F	464	LEU	CB-CA-C	5.52	120.06	110.79
1	J	48	MET	CA-C-N	5.52	129.44	122.16
1	J	48	MET	C-N-CA	5.52	129.44	122.16
1	L	18	ASP	N-CA-C	5.52	122.55	110.80
1	L	281	LEU	CB-CA-C	5.52	121.40	110.42
1	C	389	GLY	N-CA-C	-5.51	100.11	113.18
1	J	210	HIS	CA-CB-CG	-5.51	108.28	113.80
1	K	22	THR	N-CA-C	-5.51	103.35	110.19
1	L	116	ARG	NH1-CZ-NH2	5.51	126.47	119.30
1	J	464	LEU	CB-CA-C	5.51	120.05	110.79
1	L	6	LEU	CA-C-N	-5.51	111.01	121.54
1	L	6	LEU	C-N-CA	-5.51	111.01	121.54
1	A	22	THR	N-CA-C	-5.51	103.36	110.19
1	G	18	ASP	N-CA-C	5.51	122.54	110.80
1	H	211	HIS	CA-C-O	-5.51	114.41	120.69
1	H	256	MET	N-CA-CB	5.51	117.48	110.04
1	J	395	ASN	O-C-N	5.51	129.67	123.06
1	C	122	ASP	CA-C-N	-5.51	112.25	121.94
1	C	122	ASP	C-N-CA	-5.51	112.25	121.94
1	H	47	LYS	CA-C-O	-5.51	115.17	121.40
1	H	75	VAL	O-C-N	5.51	129.00	122.66
1	L	145	SER	N-CA-C	5.51	119.26	112.54
1	H	42	PHE	N-CA-C	-5.51	104.30	111.02
1	J	281	LEU	CB-CA-C	5.51	121.38	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	464	LEU	CB-CA-C	5.51	120.04	110.79
1	B	211	HIS	CA-C-O	-5.51	114.41	120.69
1	C	231	LYS	N-CA-CB	5.51	118.14	109.94
1	F	389	GLY	N-CA-C	-5.51	100.13	113.18
1	K	79	PHE	CA-C-N	5.51	130.85	122.65
1	K	79	PHE	C-N-CA	5.51	130.85	122.65
1	L	42	PHE	N-CA-C	-5.51	104.30	111.02
1	G	211	HIS	CA-C-O	-5.50	114.42	120.69
1	I	389	GLY	N-CA-C	-5.50	100.14	113.18
1	J	145	SER	N-CA-C	5.50	119.25	112.54
1	K	395	ASN	O-C-N	5.50	129.66	123.06
1	L	256	MET	N-CA-CB	5.50	117.47	110.04
1	G	389	GLY	N-CA-C	-5.50	100.14	113.18
1	I	122	ASP	CA-C-N	-5.50	112.26	121.94
1	I	122	ASP	C-N-CA	-5.50	112.26	121.94
1	J	136	ASP	CA-C-O	-5.50	115.03	120.70
1	K	47	LYS	CA-C-O	-5.50	115.18	121.40
1	A	75	VAL	O-C-N	5.50	128.98	122.66
1	G	6	LEU	CA-C-N	-5.50	111.04	121.54
1	G	6	LEU	C-N-CA	-5.50	111.04	121.54
1	H	263	ASP	CB-CA-C	5.50	121.36	110.42
1	K	122	ASP	CA-C-N	-5.50	112.27	121.94
1	K	122	ASP	C-N-CA	-5.50	112.27	121.94
1	C	42	PHE	N-CA-C	-5.50	104.32	111.02
1	D	172	ARG	NE-CZ-NH1	5.50	127.00	121.50
1	F	211	HIS	CA-C-O	-5.50	114.42	120.69
1	G	47	LYS	CA-C-O	-5.50	115.19	121.40
1	I	145	SER	N-CA-C	5.50	119.24	112.54
1	C	91	ILE	N-CA-CB	-5.49	102.17	111.23
1	L	122	ASP	CA-C-N	-5.49	112.27	121.94
1	L	122	ASP	C-N-CA	-5.49	112.27	121.94
1	G	231	LYS	N-CA-CB	5.49	118.12	109.94
1	I	75	VAL	O-C-N	5.49	128.97	122.66
1	K	116	ARG	NH1-CZ-NH2	5.49	126.44	119.30
1	C	395	ASN	O-C-N	5.49	129.65	123.06
1	E	91	ILE	N-CA-CB	-5.49	102.17	111.23
1	F	79	PHE	CA-C-N	5.49	130.83	122.65
1	F	79	PHE	C-N-CA	5.49	130.83	122.65
1	K	75	VAL	O-C-N	5.49	128.97	122.66
1	C	172	ARG	NE-CZ-NH1	5.49	126.99	121.50
1	C	281	LEU	CB-CA-C	5.49	121.34	110.42
1	D	22	THR	N-CA-C	-5.49	103.39	110.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	256	MET	N-CA-CB	5.49	117.45	110.04
1	G	395	ASN	O-C-N	5.49	129.65	123.06
1	L	22	THR	N-CA-C	-5.49	103.38	110.19
1	J	75	VAL	O-C-N	5.49	128.97	122.66
1	J	231	LYS	N-CA-CB	5.49	118.12	109.94
1	F	116	ARG	NH1-CZ-NH2	5.49	126.43	119.30
1	G	97	LEU	O-C-N	-5.49	115.29	122.59
1	E	42	PHE	N-CA-C	-5.48	104.33	111.02
1	G	281	LEU	CB-CA-C	5.48	121.33	110.42
1	K	263	ASP	CB-CA-C	5.48	121.33	110.42
1	A	210	HIS	CA-CB-CG	-5.48	108.32	113.80
1	E	75	VAL	O-C-N	5.48	128.96	122.66
1	E	256	MET	N-CA-CB	5.48	117.44	110.04
1	A	122	ASP	CA-C-N	-5.48	112.29	121.94
1	A	122	ASP	C-N-CA	-5.48	112.29	121.94
1	B	47	LYS	CA-C-O	-5.48	115.21	121.40
1	D	122	ASP	CA-C-N	-5.48	112.29	121.94
1	D	122	ASP	C-N-CA	-5.48	112.29	121.94
1	G	122	ASP	CA-C-N	-5.48	112.29	121.94
1	G	122	ASP	C-N-CA	-5.48	112.29	121.94
1	K	18	ASP	N-CA-C	5.48	122.47	110.80
1	C	263	ASP	CB-CA-C	5.48	121.32	110.42
1	L	37	GLN	CA-CB-CG	-5.48	103.14	114.10
1	A	263	ASP	CB-CA-C	5.47	121.31	110.42
1	E	37	GLN	CA-CB-CG	-5.47	103.15	114.10
1	F	51	GLY	CA-C-N	5.47	132.00	121.54
1	F	51	GLY	C-N-CA	5.47	132.00	121.54
1	G	210	HIS	CA-CB-CG	-5.47	108.33	113.80
1	L	395	ASN	O-C-N	5.47	129.63	123.06
1	B	48	MET	CA-C-N	5.47	129.38	122.16
1	B	48	MET	C-N-CA	5.47	129.38	122.16
1	D	314	PRO	O-C-N	-5.47	115.25	122.64
1	A	172	ARG	NE-CZ-NH1	5.47	126.97	121.50
1	C	360	PHE	O-C-N	5.47	127.61	121.32
1	D	6	LEU	CA-C-N	-5.47	111.09	121.54
1	D	6	LEU	C-N-CA	-5.47	111.09	121.54
1	I	231	LYS	N-CA-CB	5.47	118.09	109.94
1	C	411	ALA	N-CA-CB	-5.47	103.93	112.41
1	H	122	ASP	CA-C-N	-5.47	112.31	121.94
1	H	122	ASP	C-N-CA	-5.47	112.31	121.94
1	I	79	PHE	CA-C-N	5.47	130.80	122.65
1	I	79	PHE	C-N-CA	5.47	130.80	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	172	ARG	NE-CZ-NH1	5.47	126.97	121.50
1	F	210	HIS	CA-CB-CG	-5.47	108.33	113.80
1	K	211	HIS	CA-C-O	-5.47	114.46	120.69
1	D	79	PHE	CA-C-N	5.47	130.79	122.65
1	D	79	PHE	C-N-CA	5.47	130.79	122.65
1	G	22	THR	N-CA-C	-5.47	103.41	110.19
1	J	51	GLY	CA-C-N	5.47	131.98	121.54
1	J	51	GLY	C-N-CA	5.47	131.98	121.54
1	K	91	ILE	N-CA-CB	-5.47	102.21	111.23
1	K	256	MET	N-CA-CB	5.47	117.42	110.04
1	A	428	LEU	CA-C-N	5.46	131.98	121.54
1	A	428	LEU	C-N-CA	5.46	131.98	121.54
1	D	281	LEU	CB-CA-C	5.46	121.29	110.42
1	E	428	LEU	CA-C-N	5.46	131.97	121.54
1	E	428	LEU	C-N-CA	5.46	131.97	121.54
1	G	263	ASP	CB-CA-C	5.46	121.29	110.42
1	H	91	ILE	N-CA-CB	-5.46	102.22	111.23
1	H	428	LEU	CA-C-N	5.46	131.97	121.54
1	H	428	LEU	C-N-CA	5.46	131.97	121.54
1	I	428	LEU	CA-C-N	5.46	131.97	121.54
1	I	428	LEU	C-N-CA	5.46	131.97	121.54
1	A	139	ARG	NE-CZ-NH2	-5.46	114.29	119.20
1	H	139	ARG	NE-CZ-NH2	-5.46	114.29	119.20
1	I	446	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	G	91	ILE	N-CA-CB	-5.46	102.22	111.23
1	J	1	SER	CA-C-N	5.46	127.86	120.44
1	J	1	SER	C-N-CA	5.46	127.86	120.44
1	A	395	ASN	O-C-N	5.46	129.61	123.06
1	E	210	HIS	CA-CB-CG	-5.46	108.34	113.80
1	G	37	GLN	CA-CB-CG	-5.46	103.19	114.10
1	B	37	GLN	CA-CB-CG	-5.46	103.19	114.10
1	L	263	ASP	CB-CA-C	5.46	121.28	110.42
1	A	47	LYS	CA-C-O	-5.45	115.24	121.40
1	A	91	ILE	N-CA-CB	-5.45	102.23	111.23
1	B	91	ILE	N-CA-CB	-5.45	102.23	111.23
1	C	256	MET	N-CA-CB	5.45	117.40	110.04
1	E	47	LYS	CA-C-O	-5.45	115.24	121.40
1	F	62	GLU	CB-CA-C	5.45	119.57	109.70
1	J	37	GLN	CA-CB-CG	-5.45	103.19	114.10
1	A	37	GLN	CA-CB-CG	-5.45	103.20	114.10
1	A	116	ARG	NH1-CZ-NH2	5.45	126.39	119.30
1	F	47	LYS	CA-C-O	-5.45	115.24	121.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	215	THR	CB-CA-C	-5.45	99.57	110.42
1	H	395	ASN	O-C-N	5.45	129.60	123.06
1	J	116	ARG	NH1-CZ-NH2	5.45	126.39	119.30
1	F	122	ASP	CA-C-N	-5.45	112.35	121.94
1	F	122	ASP	C-N-CA	-5.45	112.35	121.94
1	I	91	ILE	N-CA-CB	-5.45	102.24	111.23
1	I	263	ASP	CB-CA-C	5.45	121.26	110.42
1	K	428	LEU	CA-C-N	5.45	131.94	121.54
1	K	428	LEU	C-N-CA	5.45	131.94	121.54
1	L	428	LEU	CA-C-N	5.45	131.95	121.54
1	L	428	LEU	C-N-CA	5.45	131.95	121.54
1	J	122	ASP	CA-C-N	-5.45	112.35	121.94
1	J	122	ASP	C-N-CA	-5.45	112.35	121.94
1	C	79	PHE	CA-C-N	5.44	130.76	122.65
1	C	79	PHE	C-N-CA	5.44	130.76	122.65
1	A	256	MET	N-CA-CB	5.44	117.39	110.04
1	B	51	GLY	CA-C-N	5.44	131.94	121.54
1	B	51	GLY	C-N-CA	5.44	131.94	121.54
1	F	356	ILE	N-CA-CB	-5.44	104.42	111.82
1	C	428	LEU	CA-C-N	5.44	131.93	121.54
1	C	428	LEU	C-N-CA	5.44	131.93	121.54
1	D	215	THR	CB-CA-C	-5.44	99.59	110.42
1	E	122	ASP	CA-C-N	-5.44	112.36	121.94
1	E	122	ASP	C-N-CA	-5.44	112.36	121.94
1	I	62	GLU	CB-CA-C	5.44	119.55	109.70
1	L	79	PHE	CA-C-N	5.44	130.76	122.65
1	L	79	PHE	C-N-CA	5.44	130.76	122.65
1	B	428	LEU	CA-C-N	5.44	131.93	121.54
1	B	428	LEU	C-N-CA	5.44	131.93	121.54
1	G	446	ARG	NE-CZ-NH1	5.44	126.94	121.50
1	I	211	HIS	CA-C-O	-5.44	114.49	120.69
1	C	47	LYS	CA-C-O	-5.44	115.25	121.40
1	F	215	THR	CB-CA-C	-5.44	99.60	110.42
1	H	62	GLU	CB-CA-C	5.44	119.54	109.70
1	J	356	ILE	N-CA-CB	-5.44	104.43	111.82
1	J	428	LEU	CA-C-N	5.44	131.92	121.54
1	J	428	LEU	C-N-CA	5.44	131.92	121.54
1	K	37	GLN	CA-CB-CG	-5.44	103.22	114.10
1	K	210	HIS	CA-CB-CG	-5.44	108.36	113.80
1	D	356	ILE	N-CA-CB	-5.44	104.43	111.82
1	H	37	GLN	CA-CB-CG	-5.44	103.23	114.10
1	F	37	GLN	CA-CB-CG	-5.43	103.23	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	428	LEU	CA-C-N	5.43	131.92	121.54
1	F	428	LEU	C-N-CA	5.43	131.92	121.54
1	G	256	MET	N-CA-CB	5.43	117.38	110.04
1	H	215	THR	CB-CA-C	-5.43	99.61	110.42
1	I	37	GLN	CA-CB-CG	-5.43	103.23	114.10
1	I	51	GLY	CA-C-N	5.43	131.92	121.54
1	I	51	GLY	C-N-CA	5.43	131.92	121.54
1	I	215	THR	CB-CA-C	-5.43	99.61	110.42
1	F	145	SER	N-CA-C	5.43	119.17	112.54
1	F	411	ALA	N-CA-CB	-5.43	103.99	112.41
1	G	139	ARG	NE-CZ-NH2	-5.43	114.31	119.20
1	J	62	GLU	CB-CA-C	5.43	119.53	109.70
1	E	51	GLY	CA-C-N	5.43	131.91	121.54
1	E	51	GLY	C-N-CA	5.43	131.91	121.54
1	I	1	SER	CA-C-N	5.43	127.83	120.44
1	I	1	SER	C-N-CA	5.43	127.83	120.44
1	J	47	LYS	CA-C-O	-5.43	115.26	121.40
1	C	215	THR	CB-CA-C	-5.43	99.61	110.42
1	C	356	ILE	N-CA-CB	-5.43	104.44	111.82
1	D	37	GLN	CA-CB-CG	-5.43	103.24	114.10
1	E	446	ARG	NE-CZ-NH1	5.43	126.93	121.50
1	J	79	PHE	CA-C-N	5.43	130.74	122.65
1	J	79	PHE	C-N-CA	5.43	130.74	122.65
1	E	79	PHE	CA-C-N	5.43	130.74	122.65
1	E	79	PHE	C-N-CA	5.43	130.74	122.65
1	B	210	HIS	CA-CB-CG	-5.43	108.37	113.80
1	E	62	GLU	CB-CA-C	5.43	119.52	109.70
1	E	411	ALA	N-CA-CB	-5.43	104.00	112.41
1	G	79	PHE	CA-C-N	5.43	130.74	122.65
1	G	79	PHE	C-N-CA	5.43	130.74	122.65
1	G	411	ALA	N-CA-CB	-5.43	104.00	112.41
1	H	356	ILE	N-CA-CB	-5.43	104.44	111.82
1	J	91	ILE	N-CA-CB	-5.43	102.28	111.23
1	J	256	MET	N-CA-CB	5.43	117.36	110.04
1	L	51	GLY	CA-C-N	5.43	131.91	121.54
1	L	51	GLY	C-N-CA	5.43	131.91	121.54
1	L	91	ILE	N-CA-CB	-5.43	102.28	111.23
1	A	79	PHE	CA-C-N	5.42	130.73	122.65
1	A	79	PHE	C-N-CA	5.42	130.73	122.65
1	B	79	PHE	CA-C-N	5.42	130.73	122.65
1	B	79	PHE	C-N-CA	5.42	130.73	122.65
1	B	356	ILE	N-CA-CB	-5.42	104.44	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	395	ASN	O-C-N	5.42	129.57	123.06
1	F	91	ILE	N-CA-CB	-5.42	102.28	111.23
1	K	97	LEU	O-C-N	-5.42	115.38	122.59
1	K	411	ALA	N-CA-CB	-5.42	104.00	112.41
1	J	215	THR	CB-CA-C	-5.42	99.63	110.42
1	D	51	GLY	CA-C-N	5.42	131.90	121.54
1	D	51	GLY	C-N-CA	5.42	131.90	121.54
1	D	97	LEU	O-C-N	-5.42	115.38	122.59
1	D	411	ALA	N-CA-CB	-5.42	104.00	112.41
1	D	428	LEU	CA-C-N	5.42	131.90	121.54
1	D	428	LEU	C-N-CA	5.42	131.90	121.54
1	H	84	THR	CA-C-O	-5.42	114.29	120.58
1	I	256	MET	N-CA-CB	5.42	117.36	110.04
1	K	215	THR	CB-CA-C	-5.42	99.63	110.42
1	L	215	THR	CB-CA-C	-5.42	99.63	110.42
1	L	97	LEU	O-C-N	-5.42	115.38	122.59
1	B	411	ALA	N-CA-CB	-5.42	104.01	112.41
1	G	51	GLY	CA-C-N	5.42	131.89	121.54
1	G	51	GLY	C-N-CA	5.42	131.89	121.54
1	G	84	THR	CA-C-O	-5.42	114.29	120.58
1	H	411	ALA	N-CA-CB	-5.42	104.01	112.41
1	C	37	GLN	CA-CB-CG	-5.42	103.27	114.10
1	D	47	LYS	CA-C-O	-5.42	115.28	121.40
1	E	84	THR	CA-C-O	-5.42	114.30	120.58
1	E	116	ARG	NH1-CZ-NH2	5.42	126.34	119.30
1	F	395	ASN	O-C-N	5.42	129.56	123.06
1	I	395	ASN	O-C-N	5.42	129.56	123.06
1	K	266	SER	CA-C-N	5.42	127.99	121.38
1	K	266	SER	C-N-CA	5.42	127.99	121.38
1	H	79	PHE	CA-C-N	5.42	130.72	122.65
1	H	79	PHE	C-N-CA	5.42	130.72	122.65
1	H	316	THR	CA-CB-OG1	-5.42	101.48	109.60
1	A	215	THR	CB-CA-C	-5.41	99.65	110.42
1	A	411	ALA	N-CA-CB	-5.41	104.02	112.41
1	B	172	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	I	356	ILE	N-CA-CB	-5.41	104.46	111.82
1	G	75	VAL	O-C-N	5.41	128.88	122.66
1	L	139	ARG	NE-CZ-NH2	-5.41	114.33	119.20
1	B	84	THR	CA-C-O	-5.41	114.30	120.58
1	G	62	GLU	CB-CA-C	5.41	119.49	109.70
1	I	97	LEU	O-C-N	-5.41	115.39	122.59
1	J	84	THR	CA-C-O	-5.41	114.31	120.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	62	GLU	CB-CA-C	5.41	119.49	109.70
1	C	75	VAL	O-C-N	5.41	128.88	122.66
1	D	116	ARG	NH1-CZ-NH2	5.41	126.33	119.30
1	L	172	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	B	215	THR	CB-CA-C	-5.40	99.67	110.42
1	G	360	PHE	O-C-N	5.40	127.53	121.32
1	K	51	GLY	CA-C-N	5.40	131.86	121.54
1	K	51	GLY	C-N-CA	5.40	131.86	121.54
1	A	51	GLY	CA-C-N	5.40	131.86	121.54
1	A	51	GLY	C-N-CA	5.40	131.86	121.54
1	G	215	THR	CB-CA-C	-5.40	99.67	110.42
1	J	411	ALA	N-CA-CB	-5.40	104.04	112.41
1	K	1	SER	CA-C-N	5.40	127.79	120.44
1	K	1	SER	C-N-CA	5.40	127.79	120.44
1	I	93	GLU	CB-CG-CD	-5.40	103.42	112.60
1	I	116	ARG	NH1-CZ-NH2	5.40	126.32	119.30
1	K	93	GLU	CB-CG-CD	-5.40	103.42	112.60
1	H	338	ASN	CA-CB-CG	-5.40	107.20	112.60
1	L	360	PHE	O-C-N	5.40	127.53	121.32
1	C	446	ARG	NE-CZ-NH1	5.40	126.90	121.50
1	D	338	ASN	CA-CB-CG	-5.40	107.20	112.60
1	F	360	PHE	O-C-N	5.40	127.53	121.32
1	L	446	ARG	NE-CZ-NH1	5.40	126.90	121.50
1	J	316	THR	CA-CB-OG1	-5.39	101.51	109.60
1	L	356	ILE	N-CA-CB	-5.39	104.48	111.82
1	G	428	LEU	CA-C-N	5.39	131.84	121.54
1	G	428	LEU	C-N-CA	5.39	131.84	121.54
1	H	51	GLY	CA-C-N	5.39	131.84	121.54
1	H	51	GLY	C-N-CA	5.39	131.84	121.54
1	I	172	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	J	93	GLU	CB-CG-CD	-5.39	103.43	112.60
1	L	75	VAL	O-C-N	5.39	128.86	122.66
1	K	62	GLU	CB-CA-C	5.39	119.46	109.70
1	L	47	LYS	CA-C-O	-5.39	115.31	121.40
1	F	84	THR	CA-C-O	-5.39	114.33	120.58
1	J	360	PHE	O-C-N	5.39	127.52	121.32
1	L	316	THR	CA-CB-OG1	-5.39	101.52	109.60
1	L	1	SER	CA-C-N	5.39	127.77	120.44
1	L	1	SER	C-N-CA	5.39	127.77	120.44
1	A	356	ILE	N-CA-CB	-5.38	104.50	111.82
1	A	446	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	B	93	GLU	CB-CG-CD	-5.38	103.45	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	91	ILE	N-CA-CB	-5.38	102.35	111.23
1	C	93	GLU	CB-CG-CD	-5.38	103.45	112.60
1	H	97	LEU	O-C-N	-5.38	115.43	122.59
1	K	356	ILE	N-CA-CB	-5.38	104.50	111.82
1	L	411	ALA	N-CA-CB	-5.38	104.07	112.41
1	D	62	GLU	CB-CA-C	5.38	119.44	109.70
1	F	139	ARG	NE-CZ-NH2	-5.38	114.36	119.20
1	G	93	GLU	CB-CG-CD	-5.38	103.45	112.60
1	I	411	ALA	N-CA-CB	-5.38	104.07	112.41
1	A	316	THR	CA-CB-OG1	-5.38	101.53	109.60
1	B	122	ASP	CA-C-N	-5.38	112.47	121.94
1	B	122	ASP	C-N-CA	-5.38	112.47	121.94
1	B	314	PRO	O-C-N	-5.38	115.38	122.64
1	C	62	GLU	CB-CA-C	5.38	119.43	109.70
1	H	446	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	B	316	THR	CA-CB-OG1	-5.37	101.54	109.60
1	B	62	GLU	CB-CA-C	5.37	119.42	109.70
1	C	210	HIS	CA-CB-CG	-5.37	108.43	113.80
1	H	1	SER	CA-C-N	5.37	127.75	120.44
1	H	1	SER	C-N-CA	5.37	127.75	120.44
1	L	62	GLU	CB-CA-C	5.37	119.42	109.70
1	E	1	SER	CA-C-N	5.37	127.74	120.44
1	E	1	SER	C-N-CA	5.37	127.74	120.44
1	L	93	GLU	CB-CG-CD	-5.37	103.47	112.60
1	B	430	ALA	CA-C-N	-5.37	117.61	123.30
1	B	430	ALA	C-N-CA	-5.37	117.61	123.30
1	A	84	THR	CA-C-O	-5.37	114.35	120.58
1	A	360	PHE	O-C-N	5.37	127.49	121.32
1	C	51	GLY	CA-C-N	5.37	131.79	121.54
1	C	51	GLY	C-N-CA	5.37	131.79	121.54
1	B	127	GLY	O-C-N	5.37	127.14	121.77
1	A	97	LEU	O-C-N	-5.36	115.46	122.59
1	L	84	THR	CA-C-O	-5.36	114.36	120.58
1	A	127	GLY	O-C-N	5.36	127.13	121.77
1	C	139	ARG	NE-CZ-NH2	-5.36	114.38	119.20
1	F	338	ASN	CA-CB-CG	-5.36	107.24	112.60
1	G	127	GLY	O-C-N	5.36	127.13	121.77
1	D	446	ARG	NE-CZ-NH1	5.36	126.86	121.50
1	G	435	THR	O-C-N	5.36	128.94	122.94
1	I	47	LYS	CA-C-O	-5.36	115.35	121.40
1	J	139	ARG	NE-CZ-NH2	-5.36	114.38	119.20
1	L	314	PRO	O-C-N	-5.36	115.41	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	93	GLU	CB-CG-CD	-5.36	103.50	112.60
1	C	97	LEU	O-C-N	-5.36	115.47	122.59
1	G	356	ILE	N-CA-CB	-5.35	104.54	111.82
1	I	435	THR	CB-CA-C	-5.35	100.46	109.83
1	K	316	THR	CA-CB-OG1	-5.35	101.57	109.60
1	B	97	LEU	O-C-N	-5.35	115.47	122.59
1	I	435	THR	O-C-N	5.35	128.93	122.94
1	F	435	THR	O-C-N	5.35	128.93	122.94
1	G	316	THR	CA-CB-OG1	-5.35	101.58	109.60
1	L	430	ALA	CA-C-N	-5.35	117.63	123.30
1	L	430	ALA	C-N-CA	-5.35	117.63	123.30
1	F	314	PRO	O-C-N	-5.35	115.42	122.64
1	H	314	PRO	O-C-N	-5.35	115.42	122.64
1	K	84	THR	CA-C-O	-5.35	114.38	120.58
1	E	435	THR	CB-CA-C	-5.35	100.47	109.83
1	F	316	THR	CA-CB-OG1	-5.35	101.58	109.60
1	B	310	ALA	N-CA-C	-5.34	105.50	112.23
1	C	316	THR	CA-CB-OG1	-5.34	101.58	109.60
1	E	314	PRO	O-C-N	-5.34	115.42	122.64
1	I	127	GLY	O-C-N	5.34	127.11	121.77
1	J	314	PRO	O-C-N	-5.34	115.43	122.64
1	D	93	GLU	CB-CG-CD	-5.34	103.52	112.60
1	D	127	GLY	O-C-N	5.34	127.11	121.77
1	F	266	SER	CA-C-N	5.34	127.89	121.38
1	F	266	SER	C-N-CA	5.34	127.89	121.38
1	J	97	LEU	O-C-N	-5.34	115.49	122.59
1	J	435	THR	CB-CA-C	-5.34	100.48	109.83
1	D	84	THR	CA-C-O	-5.34	114.39	120.58
1	D	316	THR	CA-CB-OG1	-5.34	101.59	109.60
1	D	360	PHE	O-C-N	5.34	127.46	121.32
1	E	356	ILE	N-CA-CB	-5.34	104.56	111.82
1	F	93	GLU	CB-CG-CD	-5.34	103.53	112.60
1	I	139	ARG	NE-CZ-NH2	-5.34	114.40	119.20
1	K	360	PHE	O-C-N	5.34	127.46	121.32
1	B	360	PHE	O-C-N	5.33	127.45	121.32
1	E	360	PHE	O-C-N	5.33	127.45	121.32
1	A	435	THR	CB-CA-C	-5.33	100.50	109.83
1	C	140	PHE	CA-C-O	-5.33	115.57	121.28
1	H	127	GLY	O-C-N	5.33	127.10	121.77
1	I	316	THR	CA-CB-OG1	-5.33	101.60	109.60
1	J	266	SER	CA-C-N	5.33	127.89	121.38
1	J	266	SER	C-N-CA	5.33	127.89	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	139	ARG	NE-CZ-NH2	-5.33	114.40	119.20
1	G	430	ALA	CA-C-N	-5.33	117.65	123.30
1	G	430	ALA	C-N-CA	-5.33	117.65	123.30
1	L	266	SER	CA-C-N	5.33	127.88	121.38
1	L	266	SER	C-N-CA	5.33	127.88	121.38
1	C	266	SER	CA-C-N	5.33	127.88	121.38
1	C	266	SER	C-N-CA	5.33	127.88	121.38
1	E	93	GLU	CB-CG-CD	-5.33	103.54	112.60
1	G	435	THR	CB-CA-C	-5.33	100.50	109.83
1	I	338	ASN	CA-CB-CG	-5.33	107.27	112.60
1	J	446	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	E	97	LEU	O-C-N	-5.33	115.51	122.59
1	B	1	SER	CA-C-N	5.33	127.68	120.44
1	B	1	SER	C-N-CA	5.33	127.68	120.44
1	E	316	THR	CA-CB-OG1	-5.33	101.61	109.60
1	F	1	SER	CA-C-N	5.33	127.68	120.44
1	F	1	SER	C-N-CA	5.33	127.68	120.44
1	A	1	SER	CA-C-N	5.32	127.68	120.44
1	A	1	SER	C-N-CA	5.32	127.68	120.44
1	B	68	MET	CB-CA-C	5.32	120.66	110.17
1	B	446	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	B	260	MET	O-C-N	5.32	130.07	123.15
1	K	435	THR	CB-CA-C	-5.32	100.52	109.83
1	E	266	SER	CA-C-N	5.32	127.87	121.38
1	E	266	SER	C-N-CA	5.32	127.87	121.38
1	G	140	PHE	CA-C-O	-5.32	115.59	121.28
1	H	310	ALA	N-CA-C	-5.32	105.53	112.23
1	H	360	PHE	O-C-N	5.32	127.44	121.32
1	I	314	PRO	O-C-N	-5.32	115.47	122.64
1	G	314	PRO	O-C-N	-5.31	115.47	122.64
1	H	93	GLU	CB-CG-CD	-5.31	103.57	112.60
1	H	266	SER	CA-C-N	5.31	127.86	121.38
1	H	266	SER	C-N-CA	5.31	127.86	121.38
1	H	435	THR	CB-CA-C	-5.31	100.53	109.83
1	K	260	MET	O-C-N	5.31	130.06	123.15
1	A	338	ASN	CA-CB-CG	-5.31	107.29	112.60
1	B	435	THR	CB-CA-C	-5.31	100.54	109.83
1	D	1	SER	CA-C-N	5.31	127.66	120.44
1	D	1	SER	C-N-CA	5.31	127.66	120.44
1	E	127	GLY	O-C-N	5.31	127.08	121.77
1	K	127	GLY	O-C-N	5.31	127.08	121.77
1	K	446	ARG	NE-CZ-NH1	5.31	126.81	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	435	THR	O-C-N	5.31	128.88	122.94
1	I	310	ALA	N-CA-C	-5.31	105.54	112.23
1	B	140	PHE	CA-C-O	-5.31	115.60	121.28
1	D	435	THR	CB-CA-C	-5.30	100.55	109.83
1	C	338	ASN	CA-CB-CG	-5.30	107.30	112.60
1	D	260	MET	O-C-N	5.30	130.04	123.15
1	D	266	SER	CA-C-N	5.30	127.85	121.38
1	D	266	SER	C-N-CA	5.30	127.85	121.38
1	E	430	ALA	CA-C-N	-5.30	117.68	123.30
1	E	430	ALA	C-N-CA	-5.30	117.68	123.30
1	F	97	LEU	O-C-N	-5.30	115.54	122.59
1	G	1	SER	CA-C-N	5.30	127.65	120.44
1	G	1	SER	C-N-CA	5.30	127.65	120.44
1	K	310	ALA	N-CA-C	-5.30	105.55	112.23
1	A	310	ALA	N-CA-C	-5.30	105.55	112.23
1	E	260	MET	O-C-N	5.30	130.04	123.15
1	A	314	PRO	O-C-N	-5.29	115.49	122.64
1	C	435	THR	CB-CA-C	-5.29	100.56	109.83
1	H	68	MET	CB-CA-C	5.29	120.60	110.17
1	I	84	THR	CA-C-O	-5.29	114.44	120.58
1	D	310	ALA	N-CA-C	-5.29	105.56	112.23
1	C	1	SER	CA-C-N	5.29	127.64	120.44
1	C	1	SER	C-N-CA	5.29	127.64	120.44
1	K	68	MET	CB-CA-C	5.29	120.60	110.17
1	L	260	MET	O-C-N	5.29	130.03	123.15
1	C	68	MET	CB-CA-C	5.29	120.59	110.17
1	A	140	PHE	CA-C-O	-5.29	115.62	121.28
1	K	314	PRO	O-C-N	-5.29	115.50	122.64
1	B	266	SER	CA-C-N	5.29	127.83	121.38
1	B	266	SER	C-N-CA	5.29	127.83	121.38
1	C	84	THR	CA-C-O	-5.29	114.45	120.58
1	F	446	ARG	NE-CZ-NH1	5.29	126.79	121.50
1	L	435	THR	CB-CA-C	-5.29	100.58	109.83
1	B	330	VAL	CB-CA-C	5.28	116.74	110.93
1	G	234	GLU	CG-CD-OE1	5.28	130.55	118.40
1	K	234	GLU	CG-CD-OE1	5.28	130.55	118.40
1	K	338	ASN	CA-CB-CG	-5.28	107.32	112.60
1	D	430	ALA	CA-C-N	-5.28	117.70	123.30
1	D	430	ALA	C-N-CA	-5.28	117.70	123.30
1	G	260	MET	O-C-N	5.28	130.02	123.15
1	G	310	ALA	N-CA-C	-5.28	105.58	112.23
1	J	430	ALA	CA-C-N	-5.28	117.70	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	430	ALA	C-N-CA	-5.28	117.70	123.30
1	B	435	THR	O-C-N	5.28	128.85	122.94
1	C	127	GLY	O-C-N	5.28	127.05	121.77
1	D	68	MET	CB-CA-C	5.28	120.57	110.17
1	E	338	ASN	CA-CB-CG	-5.28	107.32	112.60
1	J	338	ASN	CA-CB-CG	-5.28	107.32	112.60
1	K	140	PHE	CA-C-O	-5.28	115.63	121.28
1	A	260	MET	O-C-N	5.28	130.01	123.15
1	A	430	ALA	CA-C-N	-5.28	117.71	123.30
1	A	430	ALA	C-N-CA	-5.28	117.71	123.30
1	L	162	THR	N-CA-CB	5.28	117.66	109.48
1	A	435	THR	O-C-N	5.28	128.85	122.94
1	C	314	PRO	O-C-N	-5.28	115.52	122.64
1	C	430	ALA	CA-C-N	-5.28	117.71	123.30
1	C	430	ALA	C-N-CA	-5.28	117.71	123.30
1	F	435	THR	CB-CA-C	-5.28	100.60	109.83
1	J	435	THR	O-C-N	5.28	128.85	122.94
1	L	140	PHE	CA-C-O	-5.28	115.64	121.28
1	C	310	ALA	N-CA-C	-5.27	105.59	112.23
1	D	234	GLU	CG-CD-OE1	5.27	130.53	118.40
1	E	435	THR	O-C-N	5.27	128.84	122.94
1	A	266	SER	CA-C-N	5.27	127.81	121.38
1	A	266	SER	C-N-CA	5.27	127.81	121.38
1	E	68	MET	CB-CA-C	5.27	120.55	110.17
1	G	330	VAL	CB-CA-C	5.27	116.73	110.93
1	D	162	THR	N-CA-CB	5.27	117.64	109.48
1	F	430	ALA	CA-C-N	-5.27	117.72	123.30
1	F	430	ALA	C-N-CA	-5.27	117.72	123.30
1	F	162	THR	N-CA-CB	5.27	117.64	109.48
1	F	310	ALA	N-CA-C	-5.27	105.59	112.23
1	G	338	ASN	CA-CB-CG	-5.26	107.34	112.60
1	I	68	MET	CB-CA-C	5.26	120.54	110.17
1	E	310	ALA	N-CA-C	-5.26	105.60	112.23
1	J	127	GLY	O-C-N	5.26	127.03	121.77
1	J	310	ALA	N-CA-C	-5.26	105.60	112.23
1	L	310	ALA	CA-C-O	5.26	126.00	119.79
1	G	266	SER	CA-C-N	5.26	127.80	121.38
1	G	266	SER	C-N-CA	5.26	127.80	121.38
1	I	266	SER	CA-C-N	5.26	127.80	121.38
1	I	266	SER	C-N-CA	5.26	127.80	121.38
1	F	68	MET	CB-CA-C	5.26	120.52	110.17
1	H	162	THR	N-CA-CB	5.26	117.63	109.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	260	MET	O-C-N	5.25	129.98	123.15
1	F	136	ASP	CA-C-O	-5.25	114.93	120.55
1	H	234	GLU	CG-CD-OE1	5.25	130.49	118.40
1	L	61	ASN	CA-C-N	-5.25	114.65	122.74
1	L	61	ASN	C-N-CA	-5.25	114.65	122.74
1	E	140	PHE	CA-C-O	-5.25	115.66	121.28
1	F	140	PHE	CA-C-O	-5.25	115.66	121.28
1	J	260	MET	O-C-N	5.25	129.98	123.15
1	C	357	GLU	CA-CB-CG	5.25	124.60	114.10
1	D	61	ASN	CA-C-N	-5.25	114.66	122.74
1	D	61	ASN	C-N-CA	-5.25	114.66	122.74
1	G	68	MET	CB-CA-C	5.25	120.51	110.17
1	A	68	MET	CB-CA-C	5.25	120.51	110.17
1	B	338	ASN	CA-CB-CG	-5.25	107.35	112.60
1	D	435	THR	O-C-N	5.25	128.82	122.94
1	A	162	THR	N-CA-CB	5.25	117.61	109.48
1	I	430	ALA	CA-C-N	-5.25	117.74	123.30
1	I	430	ALA	C-N-CA	-5.25	117.74	123.30
1	B	61	ASN	CA-C-N	-5.25	114.66	122.74
1	B	61	ASN	C-N-CA	-5.25	114.66	122.74
1	E	234	GLU	CG-CD-OE1	5.25	130.47	118.40
1	G	162	THR	N-CA-CB	5.25	117.61	109.48
1	I	159	ASN	N-CA-C	5.25	119.16	112.87
1	B	362	ASP	CA-C-N	5.24	126.39	119.84
1	B	362	ASP	C-N-CA	5.24	126.39	119.84
1	D	140	PHE	CA-C-O	-5.24	115.67	121.28
1	F	362	ASP	CA-C-N	5.24	126.39	119.84
1	F	362	ASP	C-N-CA	5.24	126.39	119.84
1	I	330	VAL	CB-CA-C	5.24	116.70	110.93
1	L	68	MET	CB-CA-C	5.24	120.50	110.17
1	J	68	MET	CB-CA-C	5.24	120.50	110.17
1	L	127	GLY	O-C-N	5.24	127.01	121.77
1	F	36	HIS	CA-CB-CG	5.24	119.04	113.80
1	A	36	HIS	CA-CB-CG	5.24	119.04	113.80
1	D	36	HIS	CA-CB-CG	5.24	119.04	113.80
1	F	127	GLY	O-C-N	5.24	127.01	121.77
1	K	435	THR	O-C-N	5.24	128.81	122.94
1	I	61	ASN	CA-C-N	-5.24	114.68	122.74
1	I	61	ASN	C-N-CA	-5.24	114.68	122.74
1	C	320	LYS	N-CA-C	-5.23	106.85	113.18
1	K	330	VAL	CB-CA-C	5.23	116.68	110.93
1	I	260	MET	O-C-N	5.23	129.95	123.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	435	THR	O-C-N	5.23	128.80	122.94
1	F	260	MET	O-C-N	5.23	129.94	123.15
1	H	61	ASN	CA-C-N	-5.23	114.69	122.74
1	H	61	ASN	C-N-CA	-5.23	114.69	122.74
1	J	162	THR	N-CA-CB	5.23	117.58	109.48
1	L	310	ALA	N-CA-C	-5.23	105.64	112.23
1	C	362	ASP	CA-C-N	5.23	126.37	119.84
1	C	362	ASP	C-N-CA	5.23	126.37	119.84
1	H	36	HIS	CA-CB-CG	5.22	119.03	113.80
1	H	140	PHE	CA-C-O	-5.22	115.69	121.28
1	D	320	LYS	N-CA-C	-5.22	106.86	113.18
1	F	234	GLU	CG-CD-OE1	5.22	130.41	118.40
1	I	360	PHE	O-C-N	5.22	127.33	121.32
1	K	430	ALA	CA-C-N	-5.22	117.77	123.30
1	K	430	ALA	C-N-CA	-5.22	117.77	123.30
1	L	136	ASP	CA-C-O	-5.22	114.96	120.55
1	L	338	ASN	CA-CB-CG	-5.22	107.38	112.60
1	A	234	GLU	CG-CD-OE1	5.22	130.41	118.40
1	E	61	ASN	CA-C-N	-5.22	114.70	122.74
1	E	61	ASN	C-N-CA	-5.22	114.70	122.74
1	H	454	ARG	NE-CZ-NH2	-5.22	114.50	119.20
1	B	234	GLU	CG-CD-OE1	5.22	130.40	118.40
1	K	162	THR	N-CA-CB	5.22	117.57	109.48
1	G	61	ASN	CA-C-N	-5.21	114.71	122.74
1	G	61	ASN	C-N-CA	-5.21	114.71	122.74
1	H	310	ALA	CA-C-O	5.21	125.94	119.79
1	I	234	GLU	CG-CD-OE1	5.21	130.39	118.40
1	L	330	VAL	CB-CA-C	5.21	116.67	110.93
1	C	162	THR	N-CA-CB	5.21	117.56	109.48
1	C	234	GLU	CG-CD-OE1	5.21	130.39	118.40
1	E	36	HIS	CA-CB-CG	5.21	119.01	113.80
1	G	208	ALA	O-C-N	5.21	129.52	122.59
1	J	61	ASN	CA-C-N	-5.21	114.71	122.74
1	J	61	ASN	C-N-CA	-5.21	114.71	122.74
1	K	357	GLU	CA-CB-CG	5.21	124.52	114.10
1	D	208	ALA	O-C-N	5.21	129.52	122.59
1	H	362	ASP	CA-C-N	5.21	126.35	119.84
1	H	362	ASP	C-N-CA	5.21	126.35	119.84
1	A	61	ASN	CA-C-N	-5.21	114.72	122.74
1	A	61	ASN	C-N-CA	-5.21	114.72	122.74
1	J	140	PHE	CA-C-O	-5.21	115.71	121.28
1	J	234	GLU	CG-CD-OE1	5.21	130.38	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	136	ASP	CA-C-O	-5.21	114.98	120.55
1	D	454	ARG	NE-CZ-NH2	-5.21	114.52	119.20
1	F	357	GLU	CA-CB-CG	5.21	124.51	114.10
1	K	454	ARG	NE-CZ-NH2	-5.21	114.52	119.20
1	I	162	THR	N-CA-CB	5.20	117.54	109.48
1	B	357	GLU	CA-CB-CG	5.20	124.50	114.10
1	C	61	ASN	CA-C-N	-5.20	114.73	122.74
1	C	61	ASN	C-N-CA	-5.20	114.73	122.74
1	D	330	VAL	CB-CA-C	5.20	116.65	110.93
1	E	4	HIS	O-C-N	5.20	129.50	122.59
1	H	430	ALA	CA-C-N	-5.20	117.79	123.30
1	H	430	ALA	C-N-CA	-5.20	117.79	123.30
1	K	61	ASN	CA-C-N	-5.20	114.73	122.74
1	K	61	ASN	C-N-CA	-5.20	114.73	122.74
1	F	330	VAL	CB-CA-C	5.20	116.65	110.93
1	L	234	GLU	CG-CD-OE1	5.20	130.35	118.40
1	B	326	TYR	CA-C-N	5.20	133.02	121.80
1	B	326	TYR	C-N-CA	5.20	133.02	121.80
1	D	129	GLU	CA-CB-CG	5.20	124.49	114.10
1	F	4	HIS	O-C-N	5.20	129.50	122.59
1	B	36	HIS	CA-CB-CG	5.19	118.99	113.80
1	C	454	ARG	NE-CZ-NH2	-5.19	114.53	119.20
1	H	357	GLU	CA-CB-CG	5.19	124.49	114.10
1	A	357	GLU	CA-CB-CG	5.19	124.49	114.10
1	E	208	ALA	O-C-N	5.19	129.50	122.59
1	C	36	HIS	CA-CB-CG	5.19	118.99	113.80
1	G	437	GLU	N-CA-CB	-5.19	101.72	110.49
1	E	162	THR	N-CA-CB	5.19	117.52	109.48
1	I	54	ILE	CB-CA-C	-5.19	102.78	111.29
1	L	362	ASP	CA-C-N	5.19	126.33	119.84
1	L	362	ASP	C-N-CA	5.19	126.33	119.84
1	B	244	ASN	CA-CB-CG	-5.18	107.42	112.60
1	C	326	TYR	CA-C-N	5.18	133.00	121.80
1	C	326	TYR	C-N-CA	5.18	133.00	121.80
1	G	310	ALA	CA-C-O	5.18	125.91	119.79
1	L	36	HIS	CA-CB-CG	5.18	118.98	113.80
1	A	362	ASP	CA-C-N	5.18	126.32	119.84
1	A	362	ASP	C-N-CA	5.18	126.32	119.84
1	C	208	ALA	O-C-N	5.18	129.48	122.59
1	I	36	HIS	CA-CB-CG	5.18	118.98	113.80
1	J	36	HIS	CA-CB-CG	5.18	118.98	113.80
1	A	136	ASP	CA-C-O	-5.18	115.01	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	330	VAL	CB-CA-C	5.18	116.63	110.93
1	F	287	TYR	CA-CB-CG	-5.18	104.57	113.90
1	F	326	TYR	CA-C-N	5.18	132.99	121.80
1	F	326	TYR	C-N-CA	5.18	132.99	121.80
1	H	213	VAL	CA-C-N	-5.18	115.47	122.77
1	H	213	VAL	C-N-CA	-5.18	115.47	122.77
1	K	320	LYS	N-CA-C	-5.18	106.91	113.18
1	B	162	THR	N-CA-CB	5.18	117.51	109.48
1	L	4	HIS	O-C-N	5.18	129.48	122.59
1	C	435	THR	O-C-N	5.18	128.74	122.94
1	G	4	HIS	O-C-N	5.18	129.47	122.59
1	H	260	MET	O-C-N	5.18	129.88	123.15
1	I	310	ALA	CA-C-O	5.18	125.90	119.79
1	L	326	TYR	CA-C-N	5.18	132.98	121.80
1	L	326	TYR	C-N-CA	5.18	132.98	121.80
1	I	208	ALA	O-C-N	5.17	129.47	122.59
1	J	208	ALA	O-C-N	5.17	129.47	122.59
1	K	362	ASP	CA-C-N	5.17	126.31	119.84
1	K	362	ASP	C-N-CA	5.17	126.31	119.84
1	A	320	LYS	N-CA-C	-5.17	106.92	113.18
1	J	357	GLU	CA-CB-CG	5.17	124.44	114.10
1	I	454	ARG	NE-CZ-NH2	-5.17	114.55	119.20
1	K	326	TYR	CA-C-N	5.17	132.97	121.80
1	K	326	TYR	C-N-CA	5.17	132.97	121.80
1	E	44	GLU	CG-CD-OE1	5.17	130.29	118.40
1	G	36	HIS	CA-CB-CG	5.17	118.97	113.80
1	G	64	ASP	CA-CB-CG	5.17	117.77	112.60
1	I	42	PHE	CA-CB-CG	-5.17	108.63	113.80
1	K	159	ASN	N-CA-C	5.17	119.07	112.87
1	I	357	GLU	CA-CB-CG	5.17	124.43	114.10
1	K	213	VAL	CA-C-N	-5.17	115.49	122.77
1	K	213	VAL	C-N-CA	-5.17	115.49	122.77
1	B	44	GLU	CG-CD-OE1	5.17	130.28	118.40
1	D	159	ASN	N-CA-C	5.17	119.07	112.87
1	F	42	PHE	CA-CB-CG	-5.17	108.64	113.80
1	E	357	GLU	CA-CB-CG	5.16	124.43	114.10
1	F	61	ASN	CA-C-N	-5.16	114.79	122.74
1	F	61	ASN	C-N-CA	-5.16	114.79	122.74
1	F	159	ASN	N-CA-C	5.16	119.07	112.87
1	H	326	TYR	CA-C-N	5.16	132.95	121.80
1	H	326	TYR	C-N-CA	5.16	132.95	121.80
1	L	208	ALA	O-C-N	5.16	129.46	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	287	TYR	CA-CB-CG	-5.16	104.61	113.90
1	E	320	LYS	N-CA-C	-5.16	106.93	113.18
1	L	215	THR	CA-C-N	-5.16	116.08	123.20
1	L	215	THR	C-N-CA	-5.16	116.08	123.20
1	D	77	ASP	O-C-N	-5.16	115.39	121.32
1	G	129	GLU	CA-CB-CG	5.16	124.42	114.10
1	D	357	GLU	CA-CB-CG	5.16	124.42	114.10
1	F	129	GLU	CA-CB-CG	5.16	124.42	114.10
1	G	357	GLU	CA-CB-CG	5.16	124.42	114.10
1	H	321	ARG	N-CA-C	-5.16	106.67	113.12
1	I	226	ASN	OD1-CG-ND2	5.16	127.76	122.60
1	L	42	PHE	CA-CB-CG	-5.16	108.64	113.80
1	L	159	ASN	N-CA-C	5.16	119.06	112.87
1	D	362	ASP	CA-C-N	5.16	126.29	119.84
1	D	362	ASP	C-N-CA	5.16	126.29	119.84
1	I	320	LYS	N-CA-C	-5.16	106.94	113.18
1	E	42	PHE	CA-CB-CG	-5.16	108.64	113.80
1	I	140	PHE	CA-C-O	-5.16	115.76	121.28
1	I	326	TYR	CA-C-N	5.16	132.94	121.80
1	I	326	TYR	C-N-CA	5.16	132.94	121.80
1	A	159	ASN	N-CA-C	5.15	119.06	112.87
1	B	197	LEU	CB-CA-C	5.15	120.68	110.42
1	G	326	TYR	CA-C-N	5.15	132.93	121.80
1	G	326	TYR	C-N-CA	5.15	132.93	121.80
1	I	44	GLU	CG-CD-OE1	5.15	130.25	118.40
1	A	208	ALA	O-C-N	5.15	129.44	122.59
1	B	77	ASP	O-C-N	-5.15	115.39	121.32
1	B	287	TYR	CA-CB-CG	-5.15	104.63	113.90
1	H	330	VAL	CB-CA-C	5.15	116.60	110.93
1	I	136	ASP	CA-C-O	-5.15	115.04	120.55
1	B	42	PHE	CA-CB-CG	-5.15	108.65	113.80
1	G	42	PHE	CA-CB-CG	-5.15	108.65	113.80
1	G	287	TYR	CA-CB-CG	-5.15	104.63	113.90
1	K	4	HIS	O-C-N	5.15	129.44	122.59
1	E	287	TYR	CA-CB-CG	-5.15	104.63	113.90
1	E	310	ALA	CA-C-O	5.15	125.87	119.79
1	F	208	ALA	O-C-N	5.15	129.44	122.59
1	H	42	PHE	CA-CB-CG	-5.15	108.65	113.80
1	J	362	ASP	CA-C-N	5.15	126.28	119.84
1	J	362	ASP	C-N-CA	5.15	126.28	119.84
1	K	64	ASP	CA-CB-CG	5.15	117.75	112.60
1	K	287	TYR	CA-CB-CG	-5.15	104.63	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	320	LYS	N-CA-C	-5.15	106.95	113.18
1	D	42	PHE	CA-CB-CG	-5.15	108.65	113.80
1	E	213	VAL	CA-C-N	-5.15	115.51	122.77
1	E	213	VAL	C-N-CA	-5.15	115.51	122.77
1	G	309	ASN	CA-CB-CG	5.15	117.75	112.60
1	I	129	GLU	CA-CB-CG	5.15	124.40	114.10
1	J	159	ASN	N-CA-C	5.15	119.05	112.87
1	A	326	TYR	CA-C-N	5.15	132.91	121.80
1	A	326	TYR	C-N-CA	5.15	132.91	121.80
1	A	4	HIS	O-C-N	5.14	129.43	122.59
1	A	395	ASN	CA-C-N	5.14	131.37	121.54
1	A	395	ASN	C-N-CA	5.14	131.37	121.54
1	C	73	THR	CA-CB-OG1	-5.14	101.88	109.60
1	C	310	ALA	CA-C-O	5.14	125.86	119.79
1	D	287	TYR	CA-CB-CG	-5.14	104.64	113.90
1	D	437	GLU	N-CA-CB	-5.14	101.80	110.49
1	I	213	VAL	CA-C-N	-5.14	115.52	122.77
1	I	213	VAL	C-N-CA	-5.14	115.52	122.77
1	J	310	ALA	CA-C-O	5.14	125.86	119.79
1	H	437	GLU	N-CA-CB	-5.14	101.80	110.49
1	A	44	GLU	CG-CD-OE1	5.14	130.22	118.40
1	B	129	GLU	CA-CB-CG	5.14	124.38	114.10
1	B	159	ASN	N-CA-C	5.14	119.04	112.87
1	A	129	GLU	CA-CB-CG	5.14	124.38	114.10
1	A	42	PHE	CA-CB-CG	-5.14	108.66	113.80
1	C	395	ASN	CA-C-N	5.14	131.35	121.54
1	C	395	ASN	C-N-CA	5.14	131.35	121.54
1	E	136	ASP	CA-C-O	-5.14	115.05	120.55
1	E	197	LEU	CB-CA-C	5.14	120.64	110.42
1	H	159	ASN	N-CA-C	5.14	119.03	112.87
1	A	454	ARG	NE-CZ-NH2	-5.14	114.58	119.20
1	F	437	GLU	N-CA-CB	-5.14	101.81	110.49
1	G	320	LYS	N-CA-C	-5.14	106.97	113.18
1	H	215	THR	CA-C-N	-5.14	116.11	123.20
1	H	215	THR	C-N-CA	-5.14	116.11	123.20
1	J	64	ASP	CA-CB-CG	5.14	117.74	112.60
1	B	208	ALA	O-C-N	5.13	129.42	122.59
1	C	42	PHE	CA-CB-CG	-5.13	108.67	113.80
1	F	320	LYS	N-CA-C	-5.13	106.97	113.18
1	J	326	TYR	CA-C-N	5.13	132.89	121.80
1	J	326	TYR	C-N-CA	5.13	132.89	121.80
1	E	326	TYR	CA-C-N	5.13	132.89	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	326	TYR	C-N-CA	5.13	132.89	121.80
1	H	54	ILE	CB-CA-C	-5.13	102.87	111.29
1	C	159	ASN	N-CA-C	5.13	119.03	112.87
1	E	129	GLU	CA-CB-CG	5.13	124.36	114.10
1	J	197	LEU	CB-CA-C	5.13	120.63	110.42
1	J	287	TYR	CA-CB-CG	-5.13	104.66	113.90
1	E	362	ASP	CA-C-N	5.13	126.25	119.84
1	E	362	ASP	C-N-CA	5.13	126.25	119.84
1	E	437	GLU	N-CA-CB	-5.13	101.82	110.49
1	G	362	ASP	CA-C-N	5.13	126.25	119.84
1	G	362	ASP	C-N-CA	5.13	126.25	119.84
1	K	36	HIS	CA-CB-CG	5.13	118.93	113.80
1	J	330	VAL	CB-CA-C	5.13	116.57	110.93
1	K	197	LEU	CB-CA-C	5.13	120.63	110.42
1	L	73	THR	CA-CB-OG1	-5.13	101.91	109.60
1	A	437	GLU	N-CA-CB	-5.13	101.83	110.49
1	D	395	ASN	CA-C-N	5.13	131.33	121.54
1	D	395	ASN	C-N-CA	5.13	131.33	121.54
1	E	73	THR	CA-CB-OG1	-5.13	101.91	109.60
1	E	454	ARG	NE-CZ-NH2	-5.13	114.58	119.20
1	F	321	ARG	N-CA-C	-5.13	106.71	113.12
1	F	395	ASN	CA-C-N	5.13	131.33	121.54
1	F	395	ASN	C-N-CA	5.13	131.33	121.54
1	J	44	GLU	CG-CD-OE1	5.13	130.19	118.40
1	D	44	GLU	CG-CD-OE1	5.12	130.19	118.40
1	G	54	ILE	CB-CA-C	-5.12	102.89	111.29
1	G	159	ASN	N-CA-C	5.12	119.02	112.87
1	A	310	ALA	CA-C-O	5.12	125.84	119.79
1	E	330	VAL	CB-CA-C	5.12	116.57	110.93
1	H	44	GLU	CG-CD-OE1	5.12	130.18	118.40
1	H	395	ASN	CA-C-N	5.12	131.33	121.54
1	H	395	ASN	C-N-CA	5.12	131.33	121.54
1	I	395	ASN	CA-C-N	5.12	131.33	121.54
1	I	395	ASN	C-N-CA	5.12	131.33	121.54
1	K	129	GLU	CA-CB-CG	5.12	124.35	114.10
1	C	437	GLU	N-CA-CB	-5.12	101.83	110.49
1	D	244	ASN	CA-CB-CG	-5.12	107.48	112.60
1	E	159	ASN	N-CA-C	5.12	119.02	112.87
1	F	197	LEU	CB-CA-C	5.12	120.61	110.42
1	G	213	VAL	CA-C-N	-5.12	115.55	122.77
1	G	213	VAL	C-N-CA	-5.12	115.55	122.77
1	H	129	GLU	CA-CB-CG	5.12	124.34	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	129	GLU	CA-CB-CG	5.12	124.34	114.10
1	L	357	GLU	CA-CB-CG	5.12	124.34	114.10
1	K	437	GLU	N-CA-CB	-5.12	101.84	110.49
1	E	244	ASN	CA-CB-CG	-5.12	107.48	112.60
1	H	136	ASP	CA-C-O	-5.12	115.07	120.55
1	J	77	ASP	O-C-N	-5.12	115.43	121.32
1	J	309	ASN	CA-CB-CG	5.12	117.72	112.60
1	L	454	ARG	NE-CZ-NH2	-5.12	114.59	119.20
1	C	129	GLU	CA-CB-CG	5.12	124.33	114.10
1	J	129	GLU	CA-CB-CG	5.12	124.33	114.10
1	K	44	GLU	CG-CD-OE1	5.12	130.17	118.40
1	B	64	ASP	CA-CB-CG	5.12	117.72	112.60
1	B	310	ALA	CA-C-O	5.12	125.83	119.79
1	C	44	GLU	CG-CD-OE1	5.12	130.17	118.40
1	H	208	ALA	O-C-N	5.12	129.39	122.59
1	L	437	GLU	N-CA-CB	-5.12	101.84	110.49
1	B	437	GLU	N-CA-CB	-5.11	101.85	110.49
1	B	454	ARG	NE-CZ-NH2	-5.11	114.60	119.20
1	D	54	ILE	CB-CA-C	-5.11	102.90	111.29
1	G	197	LEU	CB-CA-C	5.11	120.59	110.42
1	G	395	ASN	CA-C-N	5.11	131.31	121.54
1	G	395	ASN	C-N-CA	5.11	131.31	121.54
1	I	287	TYR	CA-CB-CG	-5.11	104.70	113.90
1	K	208	ALA	O-C-N	5.11	129.39	122.59
1	C	287	TYR	CA-CB-CG	-5.11	104.70	113.90
1	E	54	ILE	CB-CA-C	-5.11	102.91	111.29
1	E	436	ASP	CB-CA-C	5.11	118.83	110.96
1	I	436	ASP	CB-CA-C	5.11	118.83	110.96
1	J	437	GLU	N-CA-CB	-5.11	101.85	110.49
1	A	197	LEU	CB-CA-C	5.11	120.59	110.42
1	A	213	VAL	CA-C-N	-5.11	115.56	122.77
1	A	213	VAL	C-N-CA	-5.11	115.56	122.77
1	A	287	TYR	CA-CB-CG	-5.11	104.70	113.90
1	C	4	HIS	O-C-N	5.11	129.39	122.59
1	H	244	ASN	CA-CB-CG	-5.11	107.49	112.60
1	A	54	ILE	CB-CA-C	-5.11	102.91	111.29
1	A	64	ASP	CA-CB-CG	5.11	117.71	112.60
1	C	330	VAL	CB-CA-C	5.11	116.55	110.93
1	D	310	ALA	CA-C-O	5.11	125.82	119.79
1	F	44	GLU	CG-CD-OE1	5.11	130.15	118.40
1	H	287	TYR	CA-CB-CG	-5.11	104.71	113.90
1	I	362	ASP	CA-C-N	5.11	126.22	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	362	ASP	C-N-CA	5.11	126.22	119.84
1	K	42	PHE	CA-CB-CG	-5.11	108.69	113.80
1	B	54	ILE	CB-CA-C	-5.11	102.92	111.29
1	H	197	LEU	CB-CA-C	5.11	120.58	110.42
1	G	77	ASP	O-C-N	-5.10	115.45	121.32
1	L	320	LYS	N-CA-C	-5.10	107.00	113.18
1	L	395	ASN	CA-C-N	5.10	131.29	121.54
1	L	395	ASN	C-N-CA	5.10	131.29	121.54
1	D	326	TYR	CA-C-N	5.10	132.82	121.80
1	D	326	TYR	C-N-CA	5.10	132.82	121.80
1	G	73	THR	CA-CB-OG1	-5.10	101.95	109.60
1	H	320	LYS	N-CA-C	-5.10	107.01	113.18
1	G	44	GLU	CG-CD-OE1	5.10	130.13	118.40
1	I	197	LEU	CB-CA-C	5.10	120.57	110.42
1	A	73	THR	CA-CB-OG1	-5.10	101.95	109.60
1	D	197	LEU	CB-CA-C	5.10	120.56	110.42
1	D	309	ASN	CA-CB-CG	5.10	117.70	112.60
1	E	167	GLY	CA-C-N	5.10	131.28	121.54
1	E	167	GLY	C-N-CA	5.10	131.28	121.54
1	J	54	ILE	CB-CA-C	-5.10	102.93	111.29
1	J	73	THR	CA-CB-OG1	-5.10	101.95	109.60
1	D	213	VAL	CA-C-N	-5.10	115.58	122.77
1	D	213	VAL	C-N-CA	-5.10	115.58	122.77
1	L	213	VAL	CA-C-N	-5.10	115.58	122.77
1	L	213	VAL	C-N-CA	-5.10	115.58	122.77
1	A	244	ASN	CA-CB-CG	-5.09	107.50	112.60
1	C	197	LEU	CB-CA-C	5.09	120.56	110.42
1	G	321	ARG	N-CA-C	-5.09	106.75	113.12
1	H	77	ASP	O-C-N	-5.09	115.46	121.32
1	J	395	ASN	CA-C-N	5.09	131.27	121.54
1	J	395	ASN	C-N-CA	5.09	131.27	121.54
1	J	454	ARG	NE-CZ-NH2	-5.09	114.62	119.20
1	L	64	ASP	CA-CB-CG	5.09	117.69	112.60
1	C	213	VAL	CA-C-N	-5.09	115.59	122.77
1	C	213	VAL	C-N-CA	-5.09	115.59	122.77
1	D	4	HIS	O-C-N	5.09	129.36	122.59
1	B	321	ARG	N-CA-C	-5.09	106.76	113.12
1	D	73	THR	CA-CB-OG1	-5.09	101.96	109.60
1	F	244	ASN	CA-CB-CG	-5.09	107.51	112.60
1	H	4	HIS	O-C-N	5.09	129.36	122.59
1	C	54	ILE	CB-CA-C	-5.09	102.94	111.29
1	F	54	ILE	CB-CA-C	-5.09	102.94	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	54	ILE	CB-CA-C	-5.09	102.94	111.29
1	F	310	ALA	CA-C-O	5.09	125.79	119.79
1	B	430	ALA	N-CA-C	5.09	116.47	109.15
1	F	213	VAL	CA-C-N	-5.09	115.60	122.77
1	F	213	VAL	C-N-CA	-5.09	115.60	122.77
1	G	454	ARG	NE-CZ-NH2	-5.09	114.62	119.20
1	H	430	ALA	N-CA-C	5.09	116.47	109.15
1	J	320	LYS	N-CA-C	-5.09	107.03	113.18
1	K	395	ASN	CA-C-N	5.09	131.26	121.54
1	K	395	ASN	C-N-CA	5.09	131.26	121.54
1	H	73	THR	CA-CB-OG1	-5.08	101.97	109.60
1	B	213	VAL	CA-C-N	-5.08	115.60	122.77
1	B	213	VAL	C-N-CA	-5.08	115.60	122.77
1	F	454	ARG	NE-CZ-NH2	-5.08	114.62	119.20
1	L	197	LEU	CB-CA-C	5.08	120.53	110.42
1	E	226	ASN	OD1-CG-ND2	5.08	127.68	122.60
1	H	167	GLY	CA-C-N	5.08	131.25	121.54
1	H	167	GLY	C-N-CA	5.08	131.25	121.54
1	I	437	GLU	N-CA-CB	-5.08	101.90	110.49
1	J	436	ASP	CB-CA-C	5.08	118.79	110.96
1	K	77	ASP	O-C-N	-5.08	115.47	121.32
1	L	77	ASP	O-C-N	-5.08	115.48	121.32
1	L	54	ILE	CB-CA-C	-5.08	102.96	111.29
1	B	4	HIS	O-C-N	5.08	129.34	122.59
1	B	395	ASN	CA-C-N	5.08	131.24	121.54
1	B	395	ASN	C-N-CA	5.08	131.24	121.54
1	K	321	ARG	N-CA-C	-5.08	106.77	113.12
1	J	4	HIS	O-C-N	5.08	129.34	122.59
1	A	77	ASP	O-C-N	-5.07	115.48	121.32
1	B	309	ASN	CA-CB-CG	5.07	117.67	112.60
1	F	73	THR	CA-CB-OG1	-5.07	101.99	109.60
1	I	321	ARG	N-CA-C	-5.07	106.78	113.12
1	A	167	GLY	CA-C-N	5.07	131.23	121.54
1	A	167	GLY	C-N-CA	5.07	131.23	121.54
1	H	226	ASN	OD1-CG-ND2	5.07	127.67	122.60
1	I	64	ASP	CA-CB-CG	5.07	117.67	112.60
1	I	167	GLY	CA-C-N	5.07	131.22	121.54
1	I	167	GLY	C-N-CA	5.07	131.22	121.54
1	K	244	ASN	CA-CB-CG	-5.07	107.53	112.60
1	G	167	GLY	CA-C-N	5.07	131.22	121.54
1	G	167	GLY	C-N-CA	5.07	131.22	121.54
1	C	226	ASN	OD1-CG-ND2	5.07	127.67	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	430	ALA	N-CA-C	5.07	116.44	109.15
1	F	309	ASN	CA-CB-CG	5.07	117.67	112.60
1	J	321	ARG	N-CA-C	-5.07	106.79	113.12
1	K	73	THR	CA-CB-OG1	-5.06	102.00	109.60
1	C	167	GLY	CA-C-N	5.06	131.21	121.54
1	C	167	GLY	C-N-CA	5.06	131.21	121.54
1	D	64	ASP	CA-CB-CG	5.06	117.66	112.60
1	F	167	GLY	CA-C-N	5.06	131.21	121.54
1	F	167	GLY	C-N-CA	5.06	131.21	121.54
1	F	223	THR	N-CA-C	5.06	117.65	108.69
1	I	4	HIS	O-C-N	5.06	129.32	122.59
1	F	430	ALA	N-CA-C	5.06	116.44	109.15
1	G	430	ALA	N-CA-C	5.06	116.44	109.15
1	C	436	ASP	CB-CA-C	5.06	118.75	110.96
1	E	395	ASN	CA-C-N	5.06	131.20	121.54
1	E	395	ASN	C-N-CA	5.06	131.20	121.54
1	J	167	GLY	CA-C-N	5.06	131.21	121.54
1	J	167	GLY	C-N-CA	5.06	131.21	121.54
1	K	50	ASP	N-CA-C	5.06	114.97	108.34
1	D	321	ARG	N-CA-C	-5.06	106.80	113.12
1	G	244	ASN	CA-CB-CG	-5.06	107.54	112.60
1	I	244	ASN	CA-CB-CG	-5.06	107.54	112.60
1	F	226	ASN	OD1-CG-ND2	5.06	127.66	122.60
1	E	77	ASP	O-C-N	-5.05	115.51	121.32
1	J	213	VAL	CA-C-N	-5.05	115.64	122.77
1	J	213	VAL	C-N-CA	-5.05	115.64	122.77
1	L	244	ASN	CA-CB-CG	-5.05	107.55	112.60
1	C	64	ASP	CA-CB-CG	5.05	117.65	112.60
1	H	50	ASP	N-CA-C	5.05	114.96	108.34
1	I	243	HIS	O-C-N	5.05	127.92	122.11
1	C	244	ASN	CA-CB-CG	-5.05	107.55	112.60
1	L	321	ARG	N-CA-C	-5.05	106.81	113.12
1	C	50	ASP	N-CA-C	5.05	114.95	108.34
1	F	77	ASP	O-C-N	-5.05	115.51	121.32
1	I	77	ASP	O-C-N	-5.05	115.51	121.32
1	C	243	HIS	O-C-N	5.05	127.92	122.11
1	G	243	HIS	O-C-N	5.05	127.92	122.11
1	A	321	ARG	N-CA-C	-5.05	106.81	113.12
1	A	436	ASP	CB-CA-C	5.05	118.73	110.96
1	H	309	ASN	CA-CB-CG	5.04	117.64	112.60
1	L	44	GLU	CG-CD-OE1	5.04	130.00	118.40
1	K	95	GLY	CA-C-N	5.04	131.17	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	95	GLY	C-N-CA	5.04	131.17	121.54
1	K	167	GLY	CA-C-N	5.04	131.17	121.54
1	K	167	GLY	C-N-CA	5.04	131.17	121.54
1	A	309	ASN	CA-CB-CG	5.04	117.64	112.60
1	B	73	THR	CA-CB-OG1	-5.04	102.04	109.60
1	C	309	ASN	CA-CB-CG	5.04	117.64	112.60
1	F	385	LYS	O-C-N	5.04	129.29	122.59
1	H	64	ASP	CA-CB-CG	5.04	117.64	112.60
1	I	223	THR	N-CA-C	5.04	117.61	108.69
1	K	430	ALA	N-CA-C	5.04	116.41	109.15
1	L	430	ALA	N-CA-C	5.04	116.41	109.15
1	J	244	ASN	CA-CB-CG	-5.04	107.56	112.60
1	C	77	ASP	O-C-N	-5.04	115.53	121.32
1	F	436	ASP	CB-CA-C	5.04	118.72	110.96
1	I	39	ASN	CA-C-O	-5.04	113.30	120.51
1	D	167	GLY	CA-C-N	5.04	131.16	121.54
1	D	167	GLY	C-N-CA	5.04	131.16	121.54
1	H	436	ASP	CB-CA-C	5.04	118.72	110.96
1	K	310	ALA	CA-C-O	5.03	125.73	119.79
1	G	39	ASN	CA-C-O	-5.03	113.32	120.51
1	I	430	ALA	N-CA-C	5.03	116.39	109.15
1	L	167	GLY	CA-C-N	5.03	131.15	121.54
1	L	167	GLY	C-N-CA	5.03	131.15	121.54
1	A	50	ASP	N-CA-C	5.03	114.93	108.34
1	C	430	ALA	N-CA-C	5.03	116.39	109.15
1	H	223	THR	N-CA-C	5.03	117.59	108.69
1	A	430	ALA	N-CA-C	5.03	116.39	109.15
1	D	39	ASN	CA-C-O	-5.03	113.33	120.51
1	F	64	ASP	CA-CB-CG	5.03	117.63	112.60
1	J	430	ALA	N-CA-C	5.03	116.39	109.15
1	F	249	PHE	N-CA-CB	5.02	117.69	110.20
1	L	249	PHE	N-CA-CB	5.02	117.69	110.20
1	D	263	ASP	CA-C-N	-5.02	111.95	121.54
1	D	263	ASP	C-N-CA	-5.02	111.95	121.54
1	D	430	ALA	N-CA-C	5.02	116.38	109.15
1	F	354	ARG	N-CA-CB	-5.02	102.60	110.69
1	G	223	THR	N-CA-C	5.02	117.58	108.69
1	K	155	GLU	CA-C-N	-5.02	111.56	121.41
1	K	155	GLU	C-N-CA	-5.02	111.56	121.41
1	B	167	GLY	CA-C-N	5.02	131.13	121.54
1	B	167	GLY	C-N-CA	5.02	131.13	121.54
1	C	263	ASP	CA-C-N	-5.02	111.95	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	263	ASP	C-N-CA	-5.02	111.95	121.54
1	C	321	ARG	N-CA-C	-5.02	106.85	113.12
1	L	50	ASP	N-CA-C	5.02	114.92	108.34
1	H	243	HIS	O-C-N	5.02	127.88	122.11
1	E	50	ASP	N-CA-C	5.01	114.91	108.34
1	E	243	HIS	O-C-N	5.01	127.88	122.11
1	E	309	ASN	CA-CB-CG	5.01	117.61	112.60
1	E	321	ARG	N-CA-C	-5.01	106.85	113.12
1	J	295	LEU	CB-CA-C	5.01	119.06	110.74
1	F	155	GLU	CA-C-N	-5.01	111.58	121.41
1	F	155	GLU	C-N-CA	-5.01	111.58	121.41
1	G	249	PHE	N-CA-CB	5.01	117.67	110.20
1	K	263	ASP	CA-C-N	-5.01	111.97	121.54
1	K	263	ASP	C-N-CA	-5.01	111.97	121.54
1	A	155	GLU	CA-C-N	-5.01	111.59	121.41
1	A	155	GLU	C-N-CA	-5.01	111.59	121.41
1	A	226	ASN	OD1-CG-ND2	5.01	127.61	122.60
1	C	155	GLU	CA-C-N	-5.01	111.59	121.41
1	C	155	GLU	C-N-CA	-5.01	111.59	121.41
1	F	15	LYS	CA-C-N	-5.01	111.97	121.54
1	F	15	LYS	C-N-CA	-5.01	111.97	121.54
1	E	155	GLU	CA-C-N	-5.01	111.59	121.41
1	E	155	GLU	C-N-CA	-5.01	111.59	121.41
1	G	155	GLU	CA-C-N	-5.01	111.59	121.41
1	G	155	GLU	C-N-CA	-5.01	111.59	121.41
1	G	345	ILE	N-CA-C	-5.01	98.06	108.88
1	B	249	PHE	N-CA-CB	5.01	117.66	110.20
1	G	223	THR	N-CA-CB	-5.01	102.40	110.81
1	G	354	ARG	N-CA-CB	-5.01	102.63	110.69
1	I	15	LYS	CA-C-N	-5.01	111.98	121.54
1	I	15	LYS	C-N-CA	-5.01	111.98	121.54
1	I	148	HIS	CA-CB-CG	-5.01	108.79	113.80
1	L	95	GLY	CA-C-N	5.01	131.10	121.54
1	L	95	GLY	C-N-CA	5.01	131.10	121.54
1	D	223	THR	N-CA-C	5.00	117.55	108.69
1	G	385	LYS	O-C-N	5.00	129.25	122.59
1	J	313	ASN	CA-C-N	5.00	126.10	119.84
1	J	313	ASN	C-N-CA	5.00	126.10	119.84
1	D	313	ASN	CA-C-N	5.00	126.09	119.84
1	D	313	ASN	C-N-CA	5.00	126.09	119.84
1	E	64	ASP	CA-CB-CG	5.00	117.60	112.60
1	G	15	LYS	CA-C-N	-5.00	111.98	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	15	LYS	C-N-CA	-5.00	111.98	121.54
1	I	73	THR	CA-CB-OG1	-5.00	102.09	109.60
1	B	50	ASP	N-CA-C	5.00	114.89	108.34
1	J	263	ASP	CA-C-N	-5.00	111.99	121.54
1	J	263	ASP	C-N-CA	-5.00	111.99	121.54
1	K	76	ILE	O-C-N	5.00	128.82	122.57

All (12) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	315	THR	CA
1	B	315	THR	CA
1	C	315	THR	CA
1	D	315	THR	CA
1	E	315	THR	CA
1	F	315	THR	CA
1	G	315	THR	CA
1	H	315	THR	CA
1	I	315	THR	CA
1	J	315	THR	CA
1	K	315	THR	CA
1	L	315	THR	CA

All (36) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	224	ARG	Sidechain
1	A	339	ARG	Sidechain
1	A	355	ARG	Sidechain
1	B	224	ARG	Sidechain
1	B	339	ARG	Sidechain
1	B	355	ARG	Sidechain
1	C	224	ARG	Sidechain
1	C	339	ARG	Sidechain
1	C	355	ARG	Sidechain
1	D	224	ARG	Sidechain
1	D	339	ARG	Sidechain
1	D	355	ARG	Sidechain
1	E	224	ARG	Sidechain
1	E	339	ARG	Sidechain
1	E	355	ARG	Sidechain
1	F	224	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	F	339	ARG	Sidechain
1	F	355	ARG	Sidechain
1	G	224	ARG	Sidechain
1	G	339	ARG	Sidechain
1	G	355	ARG	Sidechain
1	H	224	ARG	Sidechain
1	H	339	ARG	Sidechain
1	H	355	ARG	Sidechain
1	I	224	ARG	Sidechain
1	I	339	ARG	Sidechain
1	I	355	ARG	Sidechain
1	J	224	ARG	Sidechain
1	J	339	ARG	Sidechain
1	J	355	ARG	Sidechain
1	K	224	ARG	Sidechain
1	K	339	ARG	Sidechain
1	K	355	ARG	Sidechain
1	L	224	ARG	Sidechain
1	L	339	ARG	Sidechain
1	L	355	ARG	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3636	0	3542	1388	0
1	B	3636	0	3542	1390	2
1	C	3636	0	3542	1399	28
1	D	3636	0	3542	1410	2
1	E	3636	0	3542	1404	28
1	F	3636	0	3542	1388	0
1	G	3636	0	3542	1394	4
1	H	3636	0	3542	1391	28
1	I	3636	0	3542	1403	4
1	J	3636	0	3542	1405	0
1	K	3636	0	3542	1400	0
1	L	3636	0	3542	1392	28
2	A	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	2	0	0	0	0
2	C	2	0	0	0	0
2	D	2	0	0	0	0
2	E	2	0	0	0	0
2	F	2	0	0	0	0
2	G	2	0	0	0	0
2	H	2	0	0	0	0
2	I	2	0	0	0	0
2	J	2	0	0	0	0
2	K	2	0	0	0	0
2	L	2	0	0	0	0
3	A	3	0	0	0	0
3	B	3	0	0	0	0
3	C	3	0	0	0	0
3	D	3	0	0	0	0
3	E	3	0	0	0	0
3	F	3	0	0	0	0
3	G	3	0	0	0	0
3	H	3	0	0	0	0
3	I	3	0	0	0	0
3	J	3	0	0	0	0
3	K	3	0	0	0	0
3	L	3	0	0	0	0
All	All	43692	0	42504	15574	62

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 181.

All (15574) 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:F:465:TYR:CD2	1:L:315:THR:CG2	1.94	1.50
1:B:315:THR:CG2	1:H:465:TYR:CD2	1.94	1.50
1:C:315:THR:CG2	1:I:465:TYR:CD2	1.94	1.50
1:E:465:TYR:CD2	1:K:315:THR:CG2	1.94	1.50
1:J:27:LYS:HZ3	1:J:239:LYS:NZ	1.07	1.49
1:B:465:TYR:CD2	1:H:315:THR:CG2	1.94	1.49
1:F:315:THR:CG2	1:L:465:TYR:CD2	1.94	1.49
1:G:79:PHE:HD1	1:G:80:PHE:CD1	1.31	1.49
1:A:79:PHE:HD1	1:A:80:PHE:CD1	1.31	1.49
1:B:79:PHE:HD1	1:B:80:PHE:CD1	1.31	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:465:TYR:CD2	1:I:315:THR:CG2	1.94	1.49
1:E:315:THR:CG2	1:K:465:TYR:CD2	1.94	1.49
1:D:27:LYS:HZ3	1:D:239:LYS:NZ	1.09	1.48
1:L:79:PHE:HD1	1:L:80:PHE:CD1	1.31	1.48
1:D:465:TYR:CD2	1:J:315:THR:CG2	1.94	1.48
1:F:27:LYS:HZ3	1:F:239:LYS:NZ	1.08	1.48
1:H:79:PHE:HD1	1:H:80:PHE:CD1	1.31	1.48
1:F:79:PHE:HD1	1:F:80:PHE:CD1	1.31	1.48
1:D:315:THR:CG2	1:J:465:TYR:CD2	1.94	1.48
1:A:315:THR:CG2	1:G:465:TYR:CD2	1.94	1.47
1:A:465:TYR:CD2	1:G:315:THR:CG2	1.94	1.47
1:C:79:PHE:HD1	1:C:80:PHE:CD1	1.31	1.47
1:I:79:PHE:HD1	1:I:80:PHE:CD1	1.31	1.47
1:C:79:PHE:CD1	1:C:80:PHE:HD1	1.31	1.47
1:G:79:PHE:CD1	1:G:80:PHE:HD1	1.31	1.47
1:E:79:PHE:HD1	1:E:80:PHE:CD1	1.31	1.47
1:K:79:PHE:CD1	1:K:80:PHE:HD1	1.31	1.47
1:K:79:PHE:HD1	1:K:80:PHE:CD1	1.31	1.47
1:A:79:PHE:CD1	1:A:80:PHE:HD1	1.31	1.46
1:E:27:LYS:HZ3	1:E:239:LYS:NZ	1.00	1.46
1:D:79:PHE:HD1	1:D:80:PHE:CD1	1.31	1.46
1:D:79:PHE:CD1	1:D:80:PHE:HD1	1.31	1.46
1:F:79:PHE:CD1	1:F:80:PHE:HD1	1.31	1.45
1:L:79:PHE:CD1	1:L:80:PHE:HD1	1.31	1.45
1:B:79:PHE:CD1	1:B:80:PHE:HD1	1.31	1.45
1:H:79:PHE:CD1	1:H:80:PHE:HD1	1.31	1.45
1:J:79:PHE:HD1	1:J:80:PHE:CD1	1.31	1.45
1:J:79:PHE:CD1	1:J:80:PHE:HD1	1.31	1.45
1:L:93:GLU:HB3	1:L:94:PRO:CD	1.41	1.45
1:G:93:GLU:HB3	1:G:94:PRO:CD	1.41	1.45
1:A:93:GLU:HB3	1:A:94:PRO:CD	1.41	1.44
1:B:93:GLU:HB3	1:B:94:PRO:CD	1.41	1.44
1:C:27:LYS:NZ	1:C:239:LYS:HZ1	1.07	1.44
1:C:68:MET:HE1	1:C:105:ARG:CD	1.48	1.44
1:D:68:MET:HE1	1:D:105:ARG:CD	1.48	1.44
1:E:79:PHE:CD1	1:E:80:PHE:HD1	1.31	1.44
1:I:27:LYS:HZ3	1:I:239:LYS:NZ	0.99	1.44
1:I:79:PHE:CD1	1:I:80:PHE:HD1	1.31	1.44
1:J:68:MET:HE1	1:J:105:ARG:CD	1.48	1.44
1:K:68:MET:HE1	1:K:105:ARG:CD	1.48	1.44
1:K:93:GLU:HB3	1:K:94:PRO:CD	1.41	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:93:GLU:HB3	1:C:94:PRO:CD	1.41	1.43
1:B:68:MET:HE1	1:B:105:ARG:CD	1.48	1.42
1:E:68:MET:HE1	1:E:105:ARG:CD	1.48	1.42
1:F:93:GLU:HB3	1:F:94:PRO:CD	1.41	1.42
1:I:68:MET:HE1	1:I:105:ARG:CD	1.48	1.42
1:L:68:MET:HE1	1:L:105:ARG:CD	1.48	1.42
1:H:93:GLU:HB3	1:H:94:PRO:CD	1.41	1.42
1:J:27:LYS:NZ	1:J:239:LYS:HZ1	1.04	1.42
1:E:93:GLU:HB3	1:E:94:PRO:CD	1.41	1.41
1:F:68:MET:HE1	1:F:105:ARG:CD	1.48	1.41
1:A:68:MET:HE1	1:A:105:ARG:CD	1.48	1.41
1:D:93:GLU:HB3	1:D:94:PRO:CD	1.41	1.41
1:J:93:GLU:HB3	1:J:94:PRO:CD	1.42	1.41
1:C:27:LYS:HZ3	1:C:239:LYS:NZ	1.00	1.41
1:G:68:MET:HE1	1:G:105:ARG:CD	1.48	1.41
1:H:68:MET:HE1	1:H:105:ARG:CD	1.47	1.41
1:I:93:GLU:HB3	1:I:94:PRO:CD	1.41	1.41
1:H:27:LYS:HZ3	1:H:239:LYS:NZ	0.97	1.40
1:K:27:LYS:NZ	1:K:239:LYS:HZ1	1.19	1.40
1:G:27:LYS:HZ3	1:G:239:LYS:NZ	0.93	1.40
1:K:27:LYS:HZ3	1:K:239:LYS:NZ	0.99	1.40
1:A:27:LYS:HZ3	1:A:239:LYS:NZ	0.94	1.40
1:D:27:LYS:NZ	1:D:239:LYS:HZ1	1.18	1.39
1:J:76:ILE:CD1	1:J:202:MET:HE1	1.53	1.39
1:D:76:ILE:CD1	1:D:202:MET:HE1	1.53	1.39
1:E:27:LYS:NZ	1:E:239:LYS:HZ1	1.16	1.38
1:B:76:ILE:CD1	1:B:202:MET:HE1	1.53	1.38
1:L:76:ILE:CD1	1:L:202:MET:HE1	1.53	1.38
1:C:76:ILE:CD1	1:C:202:MET:HE1	1.53	1.38
1:F:27:LYS:NZ	1:F:239:LYS:HZ1	1.21	1.37
1:A:76:ILE:CD1	1:A:202:MET:HE1	1.53	1.37
1:F:76:ILE:HD11	1:F:202:MET:CE	1.54	1.37
1:G:27:LYS:NZ	1:G:239:LYS:HZ1	1.21	1.37
1:G:76:ILE:CD1	1:G:202:MET:HE1	1.53	1.37
1:H:76:ILE:HD11	1:H:202:MET:CE	1.54	1.37
1:K:76:ILE:CD1	1:K:202:MET:HE1	1.53	1.37
1:C:76:ILE:HD12	1:C:76:ILE:N	1.29	1.36
1:A:76:ILE:HD11	1:A:202:MET:CE	1.54	1.36
1:B:27:LYS:HZ3	1:B:239:LYS:NZ	0.92	1.36
1:G:76:ILE:HD11	1:G:202:MET:CE	1.54	1.36
1:K:76:ILE:HD12	1:K:76:ILE:N	1.29	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:27:LYS:HZ3	1:L:239:LYS:NZ	0.91	1.36
1:F:76:ILE:CD1	1:F:202:MET:HE1	1.53	1.36
1:I:76:ILE:HD11	1:I:202:MET:CE	1.54	1.36
1:I:76:ILE:CD1	1:I:202:MET:HE1	1.53	1.36
1:C:76:ILE:HD11	1:C:202:MET:CE	1.54	1.35
1:I:27:LYS:NZ	1:I:239:LYS:HZ1	1.18	1.35
1:B:76:ILE:HD11	1:B:202:MET:CE	1.54	1.35
1:E:76:ILE:HD11	1:E:202:MET:CE	1.54	1.35
1:E:76:ILE:CD1	1:E:202:MET:HE1	1.53	1.35
1:H:76:ILE:CD1	1:H:202:MET:HE1	1.53	1.35
1:K:76:ILE:HD11	1:K:202:MET:CE	1.54	1.35
1:D:96:THR:C	1:D:97:LEU:HG	1.40	1.35
1:A:96:THR:C	1:A:97:LEU:HG	1.40	1.35
1:G:96:THR:C	1:G:97:LEU:HG	1.40	1.35
1:L:76:ILE:HD11	1:L:202:MET:CE	1.54	1.35
1:C:315:THR:HG23	1:I:465:TYR:CE2	1.62	1.35
1:D:466:TYR:OH	1:J:252:THR:HG21	1.21	1.35
1:E:76:ILE:CD1	1:E:76:ILE:H	1.33	1.35
1:E:96:THR:C	1:E:97:LEU:HG	1.40	1.35
1:E:465:TYR:CE2	1:K:315:THR:HG23	1.62	1.35
1:H:27:LYS:NZ	1:H:239:LYS:HZ1	1.24	1.35
1:J:96:THR:C	1:J:97:LEU:HG	1.40	1.35
1:I:96:THR:C	1:I:97:LEU:HG	1.40	1.34
1:D:79:PHE:CD1	1:D:80:PHE:CD1	2.09	1.34
1:B:27:LYS:NZ	1:B:239:LYS:HZ1	1.24	1.34
1:J:79:PHE:CD1	1:J:80:PHE:CD1	2.09	1.34
1:D:252:THR:HG21	1:J:466:TYR:OH	1.21	1.34
1:H:96:THR:C	1:H:97:LEU:HG	1.40	1.34
1:D:76:ILE:HD11	1:D:202:MET:CE	1.54	1.34
1:F:96:THR:C	1:F:97:LEU:HG	1.40	1.34
1:L:79:PHE:CD1	1:L:80:PHE:CD1	2.09	1.34
1:B:79:PHE:CD1	1:B:80:PHE:CD1	2.09	1.33
1:D:315:THR:HG23	1:J:465:TYR:CE2	1.62	1.33
1:D:465:TYR:CE2	1:J:315:THR:HG23	1.62	1.33
1:J:76:ILE:HD11	1:J:202:MET:CE	1.54	1.33
1:A:252:THR:HG21	1:G:466:TYR:OH	1.21	1.33
1:B:465:TYR:CE2	1:H:315:THR:HG23	1.62	1.33
1:F:465:TYR:CE2	1:L:315:THR:HG23	1.62	1.33
1:K:76:ILE:CD1	1:K:76:ILE:H	1.33	1.33
1:A:27:LYS:NZ	1:A:239:LYS:HZ1	1.24	1.33
1:B:315:THR:HG23	1:H:465:TYR:CE2	1.62	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:76:ILE:CD1	1:C:76:ILE:H	1.33	1.33
1:J:76:ILE:CD1	1:J:76:ILE:H	1.33	1.33
1:A:466:TYR:OH	1:G:252:THR:HG21	1.21	1.33
1:D:76:ILE:CD1	1:D:76:ILE:H	1.33	1.33
1:F:315:THR:HG23	1:L:465:TYR:CE2	1.62	1.33
1:G:76:ILE:CD1	1:G:76:ILE:H	1.33	1.33
1:C:465:TYR:CE2	1:I:315:THR:HG23	1.62	1.33
1:E:315:THR:HG23	1:K:465:TYR:CE2	1.62	1.33
1:B:76:ILE:HD12	1:B:76:ILE:N	1.29	1.32
1:A:76:ILE:CD1	1:A:76:ILE:H	1.33	1.32
1:A:315:THR:HG23	1:G:465:TYR:CE2	1.62	1.32
1:C:466:TYR:OH	1:I:252:THR:HG21	1.21	1.32
1:L:76:ILE:HD12	1:L:76:ILE:N	1.29	1.32
1:A:465:TYR:CE2	1:G:315:THR:HG23	1.62	1.32
1:B:252:THR:HG21	1:H:466:TYR:OH	1.21	1.32
1:C:96:THR:C	1:C:97:LEU:HG	1.40	1.32
1:E:252:THR:HG21	1:K:466:TYR:OH	1.21	1.32
1:L:89:CYS:SG	1:L:103:ASP:HA	1.69	1.32
1:B:89:CYS:SG	1:B:103:ASP:HA	1.69	1.32
1:C:252:THR:CG2	1:I:466:TYR:OH	1.78	1.32
1:D:465:TYR:CD2	1:J:315:THR:HG21	1.59	1.32
1:E:466:TYR:OH	1:K:252:THR:CG2	1.78	1.32
1:D:252:THR:CG2	1:J:466:TYR:OH	1.78	1.32
1:D:315:THR:HG21	1:J:465:TYR:CD2	1.60	1.32
1:D:466:TYR:OH	1:J:252:THR:CG2	1.78	1.32
1:K:89:CYS:SG	1:K:103:ASP:HA	1.70	1.32
1:K:96:THR:C	1:K:97:LEU:HG	1.40	1.32
1:C:89:CYS:SG	1:C:103:ASP:HA	1.70	1.31
1:F:466:TYR:OH	1:L:252:THR:HG21	1.21	1.31
1:L:76:ILE:CD1	1:L:76:ILE:H	1.33	1.31
1:B:76:ILE:CD1	1:B:76:ILE:H	1.32	1.31
1:C:79:PHE:CD1	1:C:80:PHE:CD1	2.09	1.31
1:F:466:TYR:OH	1:L:252:THR:CG2	1.78	1.31
1:K:79:PHE:CD1	1:K:80:PHE:CD1	2.09	1.31
1:C:466:TYR:OH	1:I:252:THR:CG2	1.78	1.31
1:D:76:ILE:HD12	1:D:76:ILE:N	1.29	1.31
1:F:315:THR:HG21	1:L:465:TYR:CD2	1.59	1.31
1:B:252:THR:CG2	1:H:466:TYR:OH	1.78	1.31
1:B:465:TYR:CD2	1:H:315:THR:HG21	1.59	1.31
1:E:252:THR:CG2	1:K:466:TYR:OH	1.78	1.31
1:A:315:THR:HG21	1:G:465:TYR:CD2	1.59	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:466:TYR:OH	1:H:252:THR:HG21	1.21	1.31
1:E:89:CYS:SG	1:E:103:ASP:HA	1.70	1.31
1:F:252:THR:HG21	1:L:466:TYR:OH	1.21	1.31
1:J:89:CYS:SG	1:J:103:ASP:HA	1.69	1.31
1:A:89:CYS:SG	1:A:103:ASP:HA	1.70	1.30
1:A:465:TYR:CD2	1:G:315:THR:HG21	1.59	1.30
1:A:466:TYR:OH	1:G:252:THR:CG2	1.78	1.30
1:D:89:CYS:SG	1:D:103:ASP:HA	1.70	1.30
1:G:89:CYS:SG	1:G:103:ASP:HA	1.70	1.30
1:H:89:CYS:SG	1:H:103:ASP:HA	1.70	1.30
1:I:89:CYS:SG	1:I:103:ASP:HA	1.70	1.30
1:A:252:THR:CG2	1:G:466:TYR:OH	1.78	1.30
1:B:466:TYR:OH	1:H:252:THR:CG2	1.78	1.30
1:F:89:CYS:SG	1:F:103:ASP:HA	1.70	1.30
1:J:76:ILE:HD12	1:J:76:ILE:N	1.29	1.30
1:F:252:THR:CG2	1:L:466:TYR:OH	1.78	1.30
1:F:79:PHE:CD1	1:F:80:PHE:CD1	2.09	1.30
1:I:76:ILE:CD1	1:I:76:ILE:H	1.33	1.30
1:F:76:ILE:CD1	1:F:76:ILE:H	1.33	1.29
1:E:466:TYR:OH	1:K:252:THR:HG21	1.21	1.29
1:H:79:PHE:CD1	1:H:80:PHE:CD1	2.09	1.29
1:L:27:LYS:NZ	1:L:239:LYS:NZ	1.79	1.29
1:A:79:PHE:CD1	1:A:80:PHE:CD1	2.09	1.29
1:D:315:THR:OG1	1:J:465:TYR:CG	1.83	1.29
1:E:79:PHE:CD1	1:E:80:PHE:CD1	2.09	1.29
1:B:465:TYR:CG	1:H:315:THR:OG1	1.83	1.29
1:C:315:THR:HG21	1:I:465:TYR:CD2	1.59	1.29
1:D:465:TYR:CG	1:J:315:THR:OG1	1.83	1.29
1:F:315:THR:OG1	1:L:465:TYR:CG	1.83	1.29
1:G:79:PHE:CD1	1:G:80:PHE:CD1	2.09	1.29
1:A:465:TYR:CG	1:G:315:THR:OG1	1.83	1.28
1:E:465:TYR:CD2	1:K:315:THR:HG21	1.59	1.28
1:B:315:THR:HG21	1:H:465:TYR:CD2	1.59	1.28
1:I:79:PHE:CD1	1:I:80:PHE:CD1	2.09	1.28
1:A:315:THR:OG1	1:G:465:TYR:CG	1.83	1.28
1:C:252:THR:HG21	1:I:466:TYR:OH	1.21	1.28
1:F:465:TYR:CD2	1:L:315:THR:HG21	1.60	1.28
1:D:155:GLU:OE1	1:D:187:SER:HB3	1.34	1.27
1:E:76:ILE:HD12	1:E:76:ILE:N	1.29	1.27
1:F:155:GLU:OE1	1:F:187:SER:HB3	1.34	1.27
1:H:155:GLU:OE1	1:H:187:SER:HB3	1.34	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:155:GLU:OE1	1:J:187:SER:HB3	1.35	1.27
1:E:315:THR:HG21	1:K:465:TYR:CD2	1.59	1.27
1:I:76:ILE:HD12	1:I:76:ILE:N	1.29	1.27
1:C:465:TYR:CD2	1:I:315:THR:HG21	1.59	1.26
1:D:27:LYS:NZ	1:D:239:LYS:NZ	1.79	1.26
1:F:76:ILE:HD12	1:F:76:ILE:N	1.29	1.26
1:F:465:TYR:CG	1:L:315:THR:OG1	1.83	1.26
1:H:76:ILE:HD12	1:H:76:ILE:N	1.29	1.26
1:B:315:THR:OG1	1:H:465:TYR:CG	1.83	1.26
1:B:96:THR:C	1:B:97:LEU:HG	1.40	1.25
1:C:155:GLU:OE1	1:C:187:SER:HB3	1.34	1.25
1:K:155:GLU:OE1	1:K:187:SER:HB3	1.34	1.25
1:L:96:THR:C	1:L:97:LEU:HG	1.40	1.25
1:H:76:ILE:CD1	1:H:76:ILE:H	1.33	1.24
1:G:155:GLU:OE1	1:G:187:SER:HB3	1.35	1.24
1:B:27:LYS:NZ	1:B:239:LYS:NZ	1.79	1.24
1:E:465:TYR:CG	1:K:315:THR:OG1	1.83	1.24
1:A:76:ILE:HD12	1:A:76:ILE:N	1.29	1.24
1:A:155:GLU:OE1	1:A:187:SER:HB3	1.35	1.24
1:C:465:TYR:CE2	1:I:315:THR:CG2	2.20	1.24
1:C:465:TYR:CG	1:I:315:THR:OG1	1.83	1.24
1:E:315:THR:CG2	1:K:465:TYR:CE2	2.20	1.24
1:E:315:THR:OG1	1:K:465:TYR:CG	1.83	1.24
1:C:315:THR:OG1	1:I:465:TYR:CG	1.83	1.24
1:G:76:ILE:HD12	1:G:76:ILE:N	1.29	1.23
1:B:155:GLU:OE1	1:B:187:SER:HB3	1.34	1.23
1:E:465:TYR:CE2	1:K:315:THR:CG2	2.20	1.23
1:L:155:GLU:OE1	1:L:187:SER:HB3	1.35	1.23
1:C:315:THR:CG2	1:I:465:TYR:CE2	2.20	1.23
1:H:27:LYS:NZ	1:H:239:LYS:NZ	1.79	1.23
1:A:120:ILE:HG21	1:A:382:ILE:CG2	1.70	1.22
1:G:120:ILE:HG21	1:G:382:ILE:CG2	1.70	1.22
1:I:155:GLU:OE1	1:I:187:SER:HB3	1.34	1.22
1:F:19:LEU:HD22	1:F:240:TYR:CZ	1.74	1.22
1:G:19:LEU:HD22	1:G:240:TYR:CZ	1.73	1.22
1:A:19:LEU:HD22	1:A:240:TYR:CZ	1.74	1.21
1:A:465:TYR:CE2	1:G:315:THR:CG2	2.20	1.21
1:B:19:LEU:HD22	1:B:240:TYR:CZ	1.73	1.21
1:D:19:LEU:HD22	1:D:240:TYR:CZ	1.73	1.21
1:E:19:LEU:HD22	1:E:240:TYR:CZ	1.74	1.21
1:J:54:ILE:HD11	1:J:102:ARG:NE	1.56	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:19:LEU:HD22	1:L:240:TYR:CZ	1.74	1.21
1:D:54:ILE:HD11	1:D:102:ARG:NE	1.56	1.21
1:E:155:GLU:OE1	1:E:187:SER:HB3	1.34	1.21
1:H:19:LEU:HD22	1:H:240:TYR:CZ	1.74	1.21
1:I:120:ILE:HG21	1:I:382:ILE:CG2	1.69	1.21
1:A:315:THR:CG2	1:G:465:TYR:CE2	2.20	1.21
1:C:345:ILE:H	1:C:345:ILE:CD1	1.54	1.21
1:K:19:LEU:HD22	1:K:240:TYR:CZ	1.74	1.21
1:K:345:ILE:H	1:K:345:ILE:CD1	1.54	1.21
1:L:120:ILE:HG21	1:L:382:ILE:CG2	1.69	1.21
1:L:345:ILE:H	1:L:345:ILE:CD1	1.54	1.21
1:B:120:ILE:HG21	1:B:382:ILE:CG2	1.70	1.21
1:C:19:LEU:HD22	1:C:240:TYR:CZ	1.74	1.21
1:D:345:ILE:H	1:D:345:ILE:CD1	1.54	1.21
1:E:120:ILE:HG21	1:E:382:ILE:CG2	1.70	1.21
1:F:120:ILE:HG21	1:F:382:ILE:CG2	1.69	1.21
1:I:19:LEU:HD22	1:I:240:TYR:CZ	1.74	1.21
1:J:19:LEU:HD22	1:J:240:TYR:CZ	1.74	1.21
1:J:345:ILE:H	1:J:345:ILE:CD1	1.54	1.21
1:B:345:ILE:H	1:B:345:ILE:CD1	1.54	1.21
1:F:465:TYR:CE2	1:L:315:THR:CG2	2.20	1.21
1:J:78:PRO:HB3	1:J:79:PHE:CE2	1.76	1.21
1:C:54:ILE:HD11	1:C:102:ARG:NE	1.55	1.20
1:C:465:TYR:CD2	1:I:315:THR:OG1	1.94	1.20
1:D:78:PRO:HB3	1:D:79:PHE:CE2	1.76	1.20
1:E:54:ILE:HD11	1:E:102:ARG:NE	1.56	1.20
1:H:120:ILE:HG21	1:H:382:ILE:CG2	1.70	1.20
1:I:54:ILE:HD11	1:I:102:ARG:NE	1.56	1.20
1:B:315:THR:CG2	1:H:465:TYR:CE2	2.20	1.20
1:C:78:PRO:HB3	1:C:79:PHE:CE2	1.76	1.20
1:D:315:THR:OG1	1:J:465:TYR:CD2	1.94	1.20
1:D:465:TYR:CD2	1:J:315:THR:OG1	1.94	1.20
1:K:54:ILE:HD11	1:K:102:ARG:NE	1.56	1.20
1:K:78:PRO:HB3	1:K:79:PHE:CE2	1.76	1.20
1:F:88:ARG:NH2	1:F:109:LYS:NZ	1.90	1.20
1:H:88:ARG:NH2	1:H:109:LYS:NZ	1.90	1.20
1:I:345:ILE:H	1:I:345:ILE:CD1	1.54	1.20
1:J:120:ILE:HG21	1:J:382:ILE:CG2	1.70	1.20
1:A:345:ILE:H	1:A:345:ILE:CD1	1.54	1.20
1:B:88:ARG:NH2	1:B:109:LYS:NZ	1.90	1.20
1:D:120:ILE:HG21	1:D:382:ILE:CG2	1.70	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:345:ILE:H	1:E:345:ILE:CD1	1.54	1.20
1:G:345:ILE:H	1:G:345:ILE:CD1	1.54	1.20
1:L:88:ARG:NH2	1:L:109:LYS:NZ	1.90	1.20
1:C:120:ILE:HG21	1:C:382:ILE:CG2	1.70	1.20
1:F:78:PRO:HB3	1:F:79:PHE:CE2	1.76	1.20
1:H:78:PRO:HB3	1:H:79:PHE:CE2	1.76	1.20
1:K:120:ILE:HG21	1:K:382:ILE:CG2	1.69	1.20
1:C:88:ARG:NH2	1:C:109:LYS:NZ	1.90	1.19
1:F:306:LYS:HG2	1:F:411:ALA:HB2	1.25	1.19
1:F:345:ILE:H	1:F:345:ILE:CD1	1.54	1.19
1:G:88:ARG:NH2	1:G:109:LYS:NZ	1.90	1.19
1:A:88:ARG:NH2	1:A:109:LYS:NZ	1.90	1.19
1:H:306:LYS:HG2	1:H:411:ALA:HB2	1.25	1.19
1:H:345:ILE:H	1:H:345:ILE:CD1	1.54	1.19
1:K:88:ARG:NH2	1:K:109:LYS:NZ	1.90	1.19
1:D:315:THR:CG2	1:J:465:TYR:CE2	2.20	1.19
1:D:465:TYR:CE2	1:J:315:THR:CG2	2.20	1.19
1:I:25:LYS:HG2	1:I:54:ILE:HD12	1.20	1.19
1:A:315:THR:OG1	1:G:465:TYR:CD2	1.94	1.19
1:G:78:PRO:HB3	1:G:79:PHE:CE2	1.76	1.19
1:A:78:PRO:HB3	1:A:79:PHE:CE2	1.76	1.19
1:A:465:TYR:CD2	1:G:315:THR:OG1	1.94	1.19
1:E:88:ARG:NH2	1:E:109:LYS:NZ	1.90	1.19
1:F:54:ILE:HD11	1:F:102:ARG:NE	1.56	1.19
1:G:27:LYS:NZ	1:G:239:LYS:NZ	1.79	1.19
1:H:54:ILE:HD11	1:H:102:ARG:NE	1.56	1.19
1:A:54:ILE:HD11	1:A:102:ARG:NE	1.56	1.18
1:I:88:ARG:NH2	1:I:109:LYS:NZ	1.90	1.18
1:L:54:ILE:HD11	1:L:102:ARG:NE	1.55	1.18
1:D:19:LEU:HD23	1:D:75:VAL:CG2	1.74	1.18
1:D:88:ARG:NH2	1:D:109:LYS:NZ	1.90	1.18
1:E:19:LEU:HD23	1:E:75:VAL:CG2	1.74	1.18
1:E:25:LYS:HG2	1:E:54:ILE:HD12	1.19	1.18
1:E:78:PRO:HB3	1:E:79:PHE:CE2	1.76	1.18
1:I:19:LEU:HD23	1:I:75:VAL:CG2	1.74	1.18
1:I:78:PRO:HB3	1:I:79:PHE:CE2	1.76	1.18
1:J:19:LEU:HD23	1:J:75:VAL:CG2	1.74	1.18
1:J:88:ARG:NH2	1:J:109:LYS:NZ	1.90	1.18
1:A:27:LYS:NZ	1:A:239:LYS:NZ	1.79	1.18
1:B:54:ILE:HD11	1:B:102:ARG:NE	1.56	1.18
1:F:19:LEU:HD23	1:F:75:VAL:CG2	1.74	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:54:ILE:HD11	1:G:102:ARG:NE	1.56	1.18
1:H:19:LEU:HD23	1:H:75:VAL:CG2	1.74	1.18
1:A:19:LEU:HD23	1:A:75:VAL:CG2	1.74	1.18
1:B:75:VAL:HG12	1:B:76:ILE:O	1.42	1.18
1:C:19:LEU:HD23	1:C:75:VAL:CG2	1.74	1.18
1:G:19:LEU:HD23	1:G:75:VAL:CG2	1.74	1.18
1:G:75:VAL:HG12	1:G:76:ILE:O	1.42	1.18
1:K:19:LEU:HD23	1:K:75:VAL:CG2	1.74	1.18
1:L:19:LEU:HD23	1:L:75:VAL:CG2	1.74	1.18
1:A:376:MET:CE	1:A:433:VAL:HG11	1.74	1.18
1:B:19:LEU:HD23	1:B:75:VAL:CG2	1.74	1.18
1:E:376:MET:CE	1:E:433:VAL:HG11	1.74	1.18
1:G:376:MET:CE	1:G:433:VAL:HG11	1.74	1.18
1:I:75:VAL:HG12	1:I:76:ILE:O	1.42	1.18
1:L:376:MET:CE	1:L:433:VAL:HG11	1.74	1.18
1:B:376:MET:CE	1:B:433:VAL:HG11	1.74	1.17
1:D:92:LEU:HG	1:D:93:GLU:HB2	1.20	1.17
1:E:75:VAL:HG12	1:E:76:ILE:O	1.42	1.17
1:A:75:VAL:HG12	1:A:76:ILE:O	1.42	1.17
1:B:78:PRO:HB3	1:B:79:PHE:CE2	1.76	1.17
1:B:465:TYR:CD2	1:H:315:THR:OG1	1.94	1.17
1:D:25:LYS:HG2	1:D:54:ILE:HD12	1.20	1.17
1:F:19:LEU:O	1:F:19:LEU:CG	1.92	1.17
1:H:19:LEU:O	1:H:19:LEU:CG	1.93	1.17
1:I:376:MET:CE	1:I:433:VAL:HG11	1.74	1.17
1:L:75:VAL:HG12	1:L:76:ILE:O	1.42	1.17
1:L:78:PRO:HB3	1:L:79:PHE:CE2	1.76	1.17
1:B:465:TYR:CE2	1:H:315:THR:CG2	2.20	1.17
1:C:75:VAL:HG12	1:C:76:ILE:O	1.42	1.17
1:F:315:THR:OG1	1:L:465:TYR:CD2	1.94	1.17
1:D:376:MET:CE	1:D:433:VAL:HG11	1.74	1.17
1:F:315:THR:CG2	1:L:465:TYR:CE2	2.20	1.17
1:H:75:VAL:HG12	1:H:76:ILE:O	1.42	1.17
1:J:19:LEU:O	1:J:19:LEU:CG	1.93	1.17
1:J:25:LYS:HG2	1:J:54:ILE:HD12	1.20	1.17
1:K:75:VAL:HG12	1:K:76:ILE:O	1.42	1.17
1:C:376:MET:CE	1:C:433:VAL:HG11	1.74	1.17
1:D:19:LEU:O	1:D:19:LEU:CG	1.93	1.17
1:D:75:VAL:HG12	1:D:76:ILE:O	1.42	1.17
1:E:306:LYS:HG2	1:E:411:ALA:HB2	1.25	1.17
1:H:376:MET:CE	1:H:433:VAL:HG11	1.74	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:92:LEU:HG	1:J:93:GLU:HB2	1.20	1.17
1:J:75:VAL:HG12	1:J:76:ILE:O	1.42	1.16
1:J:376:MET:CE	1:J:433:VAL:HG11	1.74	1.16
1:K:376:MET:CE	1:K:433:VAL:HG11	1.74	1.16
1:F:75:VAL:HG12	1:F:76:ILE:O	1.42	1.16
1:D:306:LYS:HG2	1:D:411:ALA:HB2	1.25	1.16
1:E:465:TYR:CD2	1:K:315:THR:OG1	1.94	1.16
1:F:376:MET:CE	1:F:433:VAL:HG11	1.74	1.16
1:H:331:MET:HE2	1:H:396:LEU:HD12	1.28	1.16
1:I:306:LYS:HG2	1:I:411:ALA:HB2	1.25	1.16
1:J:306:LYS:HG2	1:J:411:ALA:HB2	1.25	1.16
1:J:331:MET:HE2	1:J:396:LEU:HD12	1.27	1.16
1:A:331:MET:HE2	1:A:396:LEU:HD12	1.28	1.15
1:A:345:ILE:HD13	1:A:345:ILE:N	1.60	1.15
1:B:19:LEU:O	1:B:19:LEU:CG	1.93	1.15
1:C:315:THR:OG1	1:I:465:TYR:CD2	1.94	1.15
1:E:315:THR:OG1	1:K:465:TYR:CD2	1.94	1.15
1:F:331:MET:HE2	1:F:396:LEU:HD12	1.28	1.15
1:G:88:ARG:NH2	1:G:109:LYS:HZ2	1.40	1.15
1:G:331:MET:HE2	1:G:396:LEU:HD12	1.27	1.15
1:G:345:ILE:HD13	1:G:345:ILE:N	1.60	1.15
1:L:19:LEU:O	1:L:19:LEU:CG	1.93	1.15
1:D:88:ARG:NH2	1:D:109:LYS:HZ2	1.43	1.15
1:E:102:ARG:HB2	1:E:104:PRO:HD3	1.16	1.15
1:F:345:ILE:HD13	1:F:345:ILE:N	1.60	1.15
1:H:345:ILE:HD13	1:H:345:ILE:N	1.60	1.15
1:J:88:ARG:NH2	1:J:109:LYS:HZ2	1.43	1.15
1:B:20:ARG:NH1	1:B:86:ILE:HG23	1.61	1.15
1:D:331:MET:HE2	1:D:396:LEU:HD12	1.28	1.15
1:G:306:LYS:HG2	1:G:411:ALA:HB2	1.25	1.15
1:I:102:ARG:HB2	1:I:104:PRO:HD3	1.16	1.15
1:C:93:GLU:CB	1:C:94:PRO:CD	2.24	1.15
1:E:20:ARG:HG2	1:E:28:GLU:CD	1.72	1.15
1:K:93:GLU:CB	1:K:94:PRO:CD	2.24	1.15
1:A:306:LYS:HG2	1:A:411:ALA:HB2	1.25	1.15
1:I:20:ARG:HG2	1:I:28:GLU:CD	1.72	1.15
1:L:20:ARG:NH1	1:L:86:ILE:HG23	1.62	1.15
1:C:92:LEU:HG	1:C:93:GLU:HB2	1.20	1.14
1:D:20:ARG:HG2	1:D:28:GLU:CD	1.72	1.14
1:F:93:GLU:CB	1:F:94:PRO:CD	2.24	1.14
1:H:93:GLU:CB	1:H:94:PRO:CD	2.24	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:20:ARG:HG2	1:J:28:GLU:CD	1.72	1.14
1:B:93:GLU:CB	1:B:94:PRO:CD	2.24	1.14
1:H:65:MET:HB3	1:H:67:LEU:HD23	1.15	1.14
1:B:88:ARG:NH2	1:B:109:LYS:HZ2	1.42	1.14
1:B:461:GLU:OE1	1:H:316:THR:HG22	1.48	1.14
1:F:20:ARG:HG2	1:F:28:GLU:CD	1.72	1.14
1:F:316:THR:HG22	1:L:461:GLU:OE1	1.48	1.14
1:F:465:TYR:CD2	1:L:315:THR:OG1	1.94	1.14
1:G:93:GLU:CB	1:G:94:PRO:CD	2.24	1.14
1:H:20:ARG:HG2	1:H:28:GLU:CD	1.72	1.14
1:K:92:LEU:HG	1:K:93:GLU:HB2	1.20	1.14
1:L:25:LYS:HG2	1:L:54:ILE:HD12	1.20	1.14
1:L:93:GLU:CB	1:L:94:PRO:CD	2.24	1.14
1:L:345:ILE:HD13	1:L:345:ILE:N	1.60	1.14
1:A:20:ARG:NH1	1:A:86:ILE:HG23	1.61	1.14
1:A:93:GLU:CB	1:A:94:PRO:CD	2.24	1.14
1:B:345:ILE:HD13	1:B:345:ILE:N	1.60	1.14
1:C:20:ARG:NH1	1:C:86:ILE:HG23	1.62	1.14
1:E:331:MET:HE2	1:E:396:LEU:HD12	1.28	1.14
1:F:65:MET:HB3	1:F:67:LEU:HD23	1.14	1.14
1:F:120:ILE:CG2	1:F:382:ILE:HG21	1.78	1.14
1:H:120:ILE:CG2	1:H:382:ILE:HG21	1.78	1.14
1:I:19:LEU:O	1:I:19:LEU:CG	1.93	1.14
1:K:20:ARG:NH1	1:K:86:ILE:HG23	1.61	1.14
1:B:65:MET:HB3	1:B:67:LEU:HD23	1.14	1.14
1:C:19:LEU:O	1:C:19:LEU:CG	1.93	1.14
1:C:20:ARG:HG2	1:C:28:GLU:CD	1.72	1.14
1:C:316:THR:HG22	1:I:461:GLU:OE1	1.48	1.14
1:E:461:GLU:OE1	1:K:316:THR:HG22	1.48	1.14
1:I:331:MET:HE2	1:I:396:LEU:HD12	1.28	1.14
1:K:19:LEU:O	1:K:19:LEU:CG	1.93	1.14
1:K:20:ARG:HG2	1:K:28:GLU:CD	1.72	1.14
1:A:20:ARG:HG2	1:A:28:GLU:CD	1.72	1.13
1:B:58:LYS:HD3	1:B:59:GLY:H	1.13	1.13
1:B:315:THR:OG1	1:H:465:TYR:CD2	1.94	1.13
1:D:20:ARG:NH1	1:D:86:ILE:HG23	1.61	1.13
1:E:19:LEU:O	1:E:19:LEU:CG	1.93	1.13
1:G:19:LEU:O	1:G:19:LEU:CG	1.92	1.13
1:G:20:ARG:NH1	1:G:86:ILE:HG23	1.61	1.13
1:I:120:ILE:CG2	1:I:382:ILE:HG21	1.78	1.13
1:I:345:ILE:HD13	1:I:345:ILE:N	1.60	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:20:ARG:NH1	1:J:86:ILE:HG23	1.61	1.13
1:A:316:THR:HG22	1:G:461:GLU:OE1	1.48	1.13
1:A:461:GLU:OE1	1:G:316:THR:HG22	1.48	1.13
1:B:20:ARG:HG2	1:B:28:GLU:CD	1.72	1.13
1:B:25:LYS:HG2	1:B:54:ILE:HD12	1.20	1.13
1:B:316:THR:HG22	1:H:461:GLU:OE1	1.48	1.13
1:D:407:ILE:HD13	1:D:408:PRO:HD2	1.31	1.13
1:E:93:GLU:CB	1:E:94:PRO:CD	2.24	1.13
1:E:120:ILE:CG2	1:E:382:ILE:HG21	1.78	1.13
1:G:88:ARG:HH21	1:G:109:LYS:NZ	1.46	1.13
1:G:120:ILE:CG2	1:G:382:ILE:HG21	1.78	1.13
1:I:20:ARG:NH1	1:I:86:ILE:HG23	1.61	1.13
1:I:93:GLU:CB	1:I:94:PRO:CD	2.24	1.13
1:J:407:ILE:HD13	1:J:408:PRO:HD2	1.31	1.13
1:L:58:LYS:HD3	1:L:59:GLY:H	1.14	1.13
1:A:88:ARG:HH21	1:A:109:LYS:NZ	1.47	1.13
1:A:120:ILE:CG2	1:A:382:ILE:HG21	1.78	1.13
1:B:331:MET:HE2	1:B:396:LEU:HD12	1.28	1.13
1:E:20:ARG:NH1	1:E:86:ILE:HG23	1.61	1.13
1:E:345:ILE:HD13	1:E:345:ILE:N	1.60	1.13
1:F:461:GLU:OE1	1:L:316:THR:HG22	1.48	1.13
1:G:20:ARG:HG2	1:G:28:GLU:CD	1.72	1.13
1:I:65:MET:HB3	1:I:67:LEU:HD23	1.14	1.13
1:I:92:LEU:HG	1:I:93:GLU:HB2	1.20	1.13
1:K:88:ARG:HH21	1:K:109:LYS:NZ	1.47	1.13
1:L:20:ARG:HG2	1:L:28:GLU:CD	1.72	1.13
1:L:65:MET:HB3	1:L:67:LEU:HD23	1.14	1.13
1:A:19:LEU:O	1:A:19:LEU:CG	1.93	1.13
1:A:407:ILE:HD13	1:A:408:PRO:HD2	1.31	1.13
1:C:331:MET:HE2	1:C:396:LEU:HD12	1.28	1.13
1:E:65:MET:HB3	1:E:67:LEU:HD23	1.15	1.13
1:E:92:LEU:HG	1:E:93:GLU:HB2	1.20	1.13
1:F:27:LYS:NZ	1:F:239:LYS:NZ	1.79	1.13
1:G:407:ILE:HD13	1:G:408:PRO:HD2	1.31	1.13
1:A:25:LYS:HG2	1:A:54:ILE:HD12	1.20	1.12
1:C:88:ARG:HH21	1:C:109:LYS:NZ	1.47	1.13
1:D:316:THR:HG22	1:J:461:GLU:OE1	1.48	1.12
1:D:461:GLU:OE1	1:J:316:THR:HG22	1.48	1.13
1:K:27:LYS:NZ	1:K:239:LYS:NZ	1.79	1.13
1:H:20:ARG:NH1	1:H:86:ILE:HG23	1.61	1.12
1:K:331:MET:HE2	1:K:396:LEU:HD12	1.27	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:331:MET:HE2	1:L:396:LEU:HD12	1.28	1.12
1:G:25:LYS:HG2	1:G:54:ILE:HD12	1.20	1.12
1:G:65:MET:HB3	1:G:67:LEU:HD23	1.14	1.12
1:B:36:HIS:O	1:B:38:VAL:N	1.82	1.12
1:C:306:LYS:HG2	1:C:411:ALA:HB2	1.25	1.12
1:F:20:ARG:NH1	1:F:86:ILE:HG23	1.61	1.12
1:J:120:ILE:CG2	1:J:382:ILE:HG21	1.78	1.12
1:L:36:HIS:O	1:L:38:VAL:N	1.82	1.12
1:A:36:HIS:O	1:A:38:VAL:N	1.82	1.12
1:A:65:MET:HB3	1:A:67:LEU:HD23	1.14	1.12
1:D:93:GLU:CB	1:D:94:PRO:CD	2.24	1.12
1:D:120:ILE:CG2	1:D:382:ILE:HG21	1.78	1.12
1:J:93:GLU:CB	1:J:94:PRO:CD	2.25	1.12
1:L:92:LEU:HG	1:L:93:GLU:HB2	1.20	1.12
1:B:92:LEU:HG	1:B:93:GLU:HB2	1.20	1.12
1:B:120:ILE:CG2	1:B:382:ILE:HG21	1.78	1.12
1:C:36:HIS:O	1:C:38:VAL:N	1.82	1.12
1:C:345:ILE:HD13	1:C:345:ILE:N	1.60	1.12
1:D:75:VAL:CG1	1:D:78:PRO:HD2	1.80	1.12
1:J:36:HIS:O	1:J:38:VAL:N	1.82	1.12
1:J:75:VAL:CG1	1:J:78:PRO:HD2	1.80	1.12
1:K:306:LYS:HG2	1:K:411:ALA:HB2	1.25	1.12
1:L:75:VAL:CG1	1:L:78:PRO:HD2	1.80	1.12
1:L:120:ILE:CG2	1:L:382:ILE:HG21	1.78	1.12
1:A:58:LYS:HD3	1:A:59:GLY:H	1.14	1.11
1:A:315:THR:CB	1:G:465:TYR:CD2	2.33	1.11
1:B:75:VAL:CG1	1:B:78:PRO:HD2	1.80	1.11
1:D:36:HIS:O	1:D:38:VAL:N	1.83	1.11
1:F:407:ILE:HD13	1:F:408:PRO:HD2	1.31	1.11
1:G:19:LEU:HD13	1:G:240:TYR:CE1	1.85	1.11
1:G:36:HIS:O	1:G:38:VAL:N	1.83	1.11
1:G:58:LYS:HD3	1:G:59:GLY:H	1.14	1.11
1:G:75:VAL:CG1	1:G:78:PRO:HD2	1.80	1.11
1:I:407:ILE:HD13	1:I:408:PRO:HD2	1.31	1.11
1:K:102:ARG:HB2	1:K:104:PRO:HD3	1.16	1.11
1:L:19:LEU:HD13	1:L:240:TYR:CE1	1.86	1.11
1:A:19:LEU:HD13	1:A:240:TYR:CE1	1.86	1.11
1:A:75:VAL:CG1	1:A:78:PRO:HD2	1.80	1.11
1:A:315:THR:OG1	1:G:465:TYR:CB	1.99	1.11
1:A:465:TYR:CD2	1:G:315:THR:CB	2.33	1.11
1:A:465:TYR:CB	1:G:315:THR:OG1	1.99	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:19:LEU:HD13	1:B:240:TYR:CE1	1.86	1.11
1:B:65:MET:O	1:B:67:LEU:HB3	1.51	1.11
1:C:58:LYS:HD3	1:C:59:GLY:H	1.13	1.11
1:C:102:ARG:HB2	1:C:104:PRO:HD3	1.16	1.11
1:E:407:ILE:HD13	1:E:408:PRO:HD2	1.31	1.11
1:H:88:ARG:HH21	1:H:109:LYS:NZ	1.46	1.11
1:I:75:VAL:CG1	1:I:78:PRO:HD2	1.80	1.11
1:J:180:PHE:HB3	1:K:30:HIS:O	1.50	1.11
1:K:36:HIS:O	1:K:38:VAL:N	1.82	1.11
1:K:120:ILE:CG2	1:K:382:ILE:HG21	1.78	1.11
1:K:345:ILE:HD13	1:K:345:ILE:N	1.60	1.11
1:B:306:LYS:HG2	1:B:411:ALA:HB2	1.25	1.11
1:C:30:HIS:O	1:D:180:PHE:HB3	1.50	1.11
1:C:65:MET:HB3	1:C:67:LEU:HD23	1.14	1.11
1:C:120:ILE:CG2	1:C:382:ILE:HG21	1.78	1.11
1:C:315:THR:CB	1:I:465:TYR:CD2	2.33	1.11
1:C:407:ILE:HD13	1:C:408:PRO:HD2	1.31	1.11
1:E:75:VAL:CG1	1:E:78:PRO:HD2	1.80	1.11
1:F:75:VAL:CG1	1:F:78:PRO:HD2	1.80	1.11
1:H:75:VAL:CG1	1:H:78:PRO:HD2	1.80	1.11
1:H:407:ILE:HD13	1:H:408:PRO:HD2	1.31	1.11
1:K:65:MET:HB3	1:K:67:LEU:HD23	1.14	1.11
1:L:65:MET:O	1:L:67:LEU:HB3	1.51	1.11
1:B:315:THR:OG1	1:H:465:TYR:CB	1.99	1.11
1:D:58:LYS:HG3	1:E:339:ARG:H	1.11	1.11
1:E:65:MET:O	1:E:67:LEU:HB3	1.50	1.11
1:E:465:TYR:CD2	1:K:315:THR:CB	2.33	1.11
1:H:68:MET:CE	1:H:105:ARG:HD2	1.81	1.11
1:K:65:MET:O	1:K:67:LEU:HB3	1.50	1.11
1:B:407:ILE:HD13	1:B:408:PRO:HD2	1.31	1.11
1:B:465:TYR:CB	1:H:315:THR:OG1	1.99	1.11
1:C:19:LEU:HD13	1:C:240:TYR:CE1	1.85	1.11
1:C:25:LYS:HG2	1:C:54:ILE:HD12	1.20	1.11
1:D:315:THR:CB	1:J:465:TYR:CD2	2.33	1.11
1:D:465:TYR:CD2	1:J:315:THR:CB	2.33	1.11
1:D:465:TYR:CB	1:J:315:THR:OG1	1.99	1.11
1:F:88:ARG:HH21	1:F:109:LYS:NZ	1.47	1.11
1:F:315:THR:OG1	1:L:465:TYR:CB	1.99	1.11
1:F:315:THR:CB	1:L:465:TYR:CD2	2.33	1.11
1:F:465:TYR:CB	1:L:315:THR:OG1	1.99	1.11
1:I:339:ARG:H	1:J:58:LYS:HG3	1.12	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:19:LEU:HD13	1:K:240:TYR:CE1	1.86	1.11
1:K:58:LYS:HD3	1:K:59:GLY:H	1.13	1.11
1:K:407:ILE:HD13	1:K:408:PRO:HD2	1.31	1.11
1:L:306:LYS:HG2	1:L:411:ALA:HB2	1.25	1.11
1:L:407:ILE:HD13	1:L:408:PRO:HD2	1.31	1.11
1:B:30:HIS:O	1:C:180:PHE:HB3	1.50	1.10
1:B:465:TYR:CD2	1:H:315:THR:CB	2.33	1.10
1:C:461:GLU:OE1	1:I:316:THR:HG22	1.48	1.10
1:C:465:TYR:CB	1:I:315:THR:OG1	1.99	1.10
1:D:315:THR:OG1	1:J:465:TYR:CB	1.99	1.10
1:E:315:THR:OG1	1:K:465:TYR:CB	1.99	1.10
1:F:19:LEU:HD13	1:F:240:TYR:CE1	1.86	1.10
1:F:36:HIS:O	1:F:38:VAL:N	1.82	1.10
1:G:92:LEU:HG	1:G:93:GLU:HB2	1.20	1.10
1:H:25:LYS:HG2	1:H:54:ILE:HD12	1.20	1.10
1:H:36:HIS:O	1:H:38:VAL:N	1.82	1.10
1:K:180:PHE:HB3	1:L:30:HIS:O	1.50	1.10
1:A:92:LEU:HG	1:A:93:GLU:HB2	1.20	1.10
1:C:65:MET:O	1:C:67:LEU:HB3	1.51	1.10
1:E:316:THR:HG22	1:K:461:GLU:OE1	1.48	1.10
1:F:54:ILE:CG1	1:F:102:ARG:HE	1.64	1.10
1:F:68:MET:CE	1:F:105:ARG:HD2	1.81	1.10
1:F:465:TYR:CD2	1:L:315:THR:CB	2.33	1.10
1:H:19:LEU:HD13	1:H:240:TYR:CE1	1.86	1.10
1:J:54:ILE:CG1	1:J:102:ARG:HE	1.64	1.10
1:A:54:ILE:CG1	1:A:102:ARG:HE	1.64	1.10
1:A:65:MET:O	1:A:67:LEU:HB3	1.51	1.10
1:B:315:THR:CB	1:H:465:TYR:CD2	2.33	1.10
1:C:465:TYR:CD2	1:I:315:THR:CB	2.33	1.10
1:D:54:ILE:CG1	1:D:102:ARG:HE	1.64	1.10
1:E:414:LEU:HD21	1:E:418:LEU:HG	1.31	1.10
1:F:466:TYR:HH	1:L:252:THR:CG2	1.55	1.10
1:G:65:MET:O	1:G:67:LEU:HB3	1.50	1.10
1:H:54:ILE:CG1	1:H:102:ARG:HE	1.64	1.10
1:H:68:MET:HE3	1:H:88:ARG:HB2	1.10	1.10
1:J:414:LEU:HD21	1:J:418:LEU:HG	1.31	1.10
1:A:68:MET:CE	1:A:105:ARG:HD2	1.81	1.10
1:B:68:MET:CE	1:B:105:ARG:HD2	1.81	1.10
1:D:414:LEU:HD21	1:D:418:LEU:HG	1.31	1.10
1:E:36:HIS:O	1:E:38:VAL:N	1.82	1.10
1:E:315:THR:CB	1:K:465:TYR:CD2	2.33	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:68:MET:HE3	1:F:88:ARG:HB2	1.10	1.10
1:G:54:ILE:CG1	1:G:102:ARG:HE	1.64	1.10
1:I:65:MET:O	1:I:67:LEU:HB3	1.51	1.10
1:I:68:MET:CE	1:I:105:ARG:HD2	1.81	1.10
1:I:180:PHE:HB3	1:J:30:HIS:O	1.50	1.10
1:C:75:VAL:CG1	1:C:78:PRO:HD2	1.80	1.10
1:D:345:ILE:HD13	1:D:345:ILE:N	1.60	1.10
1:E:30:HIS:O	1:F:180:PHE:HB3	1.50	1.10
1:E:68:MET:CE	1:E:105:ARG:HD2	1.81	1.10
1:F:25:LYS:HG2	1:F:54:ILE:HD12	1.20	1.10
1:F:63:SER:O	1:F:90:ASP:HA	1.52	1.10
1:G:68:MET:CE	1:G:105:ARG:HD2	1.81	1.10
1:I:27:LYS:NZ	1:I:239:LYS:NZ	1.79	1.10
1:I:36:HIS:O	1:I:38:VAL:N	1.82	1.10
1:I:414:LEU:HD21	1:I:418:LEU:HG	1.31	1.10
1:K:25:LYS:HG2	1:K:54:ILE:HD12	1.20	1.10
1:A:88:ARG:HE	1:A:109:LYS:HE3	1.15	1.09
1:C:315:THR:OG1	1:I:465:TYR:CB	1.99	1.09
1:D:30:HIS:O	1:E:180:PHE:HB3	1.50	1.09
1:F:19:LEU:HD23	1:F:75:VAL:HG22	1.31	1.09
1:H:63:SER:O	1:H:90:ASP:HA	1.52	1.09
1:I:54:ILE:CG1	1:I:102:ARG:HE	1.64	1.09
1:J:345:ILE:HD13	1:J:345:ILE:N	1.60	1.09
1:L:68:MET:CE	1:L:105:ARG:HD2	1.81	1.09
1:A:89:CYS:HB2	1:A:103:ASP:OD2	1.52	1.09
1:C:68:MET:HE3	1:C:88:ARG:HB2	1.10	1.09
1:E:54:ILE:CG1	1:E:102:ARG:HE	1.64	1.09
1:E:465:TYR:CB	1:K:315:THR:OG1	1.99	1.09
1:F:89:CYS:HB2	1:F:103:ASP:OD2	1.52	1.09
1:G:58:LYS:HG3	1:L:339:ARG:H	1.12	1.09
1:G:63:SER:O	1:G:90:ASP:HA	1.52	1.09
1:G:88:ARG:HE	1:G:109:LYS:HE3	1.14	1.09
1:H:65:MET:O	1:H:67:LEU:HB3	1.50	1.09
1:H:180:PHE:HB3	1:I:30:HIS:O	1.50	1.09
1:I:89:CYS:HB2	1:I:103:ASP:OD2	1.52	1.09
1:J:65:MET:HB3	1:J:67:LEU:HD23	1.14	1.09
1:J:88:ARG:HH21	1:J:109:LYS:NZ	1.47	1.09
1:K:54:ILE:CG1	1:K:102:ARG:HE	1.64	1.09
1:K:75:VAL:CG1	1:K:78:PRO:HD2	1.80	1.09
1:A:58:LYS:HG3	1:B:339:ARG:H	1.12	1.09
1:A:63:SER:O	1:A:90:ASP:HA	1.52	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:54:ILE:CG1	1:C:102:ARG:HE	1.64	1.09
1:D:19:LEU:HD13	1:D:240:TYR:CE1	1.85	1.09
1:D:65:MET:HB3	1:D:67:LEU:HD23	1.14	1.09
1:D:88:ARG:HH21	1:D:109:LYS:NZ	1.47	1.09
1:D:89:CYS:HB2	1:D:103:ASP:OD2	1.52	1.09
1:E:63:SER:O	1:E:90:ASP:HA	1.52	1.09
1:E:89:CYS:HB2	1:E:103:ASP:OD2	1.52	1.09
1:F:65:MET:O	1:F:67:LEU:HB3	1.51	1.09
1:G:68:MET:HE3	1:G:88:ARG:HB2	1.10	1.09
1:G:89:CYS:HB2	1:G:103:ASP:OD2	1.52	1.09
1:H:19:LEU:HD23	1:H:75:VAL:HG22	1.31	1.09
1:H:89:CYS:HB2	1:H:103:ASP:OD2	1.52	1.09
1:J:19:LEU:HD13	1:J:240:TYR:CE1	1.86	1.09
1:K:68:MET:HE3	1:K:88:ARG:HB2	1.10	1.09
1:L:339:ARG:C	1:L:341:ALA:H	1.57	1.09
1:A:19:LEU:HD23	1:A:75:VAL:HG22	1.31	1.09
1:A:68:MET:HE3	1:A:88:ARG:HB2	1.10	1.09
1:B:54:ILE:CG1	1:B:102:ARG:HE	1.64	1.09
1:B:339:ARG:C	1:B:341:ALA:H	1.57	1.09
1:C:68:MET:CE	1:C:105:ARG:HD2	1.81	1.09
1:F:92:LEU:HG	1:F:93:GLU:HB2	1.20	1.09
1:I:19:LEU:HD13	1:I:240:TYR:CE1	1.85	1.09
1:J:89:CYS:HB2	1:J:103:ASP:OD2	1.52	1.09
1:K:68:MET:CE	1:K:105:ARG:HD2	1.81	1.09
1:K:88:ARG:HE	1:K:109:LYS:HE3	1.15	1.09
1:L:88:ARG:HH21	1:L:109:LYS:NZ	1.47	1.09
1:A:180:PHE:HB3	1:F:30:HIS:O	1.50	1.09
1:B:68:MET:HE3	1:B:88:ARG:HB2	1.10	1.09
1:B:102:ARG:HB2	1:B:104:PRO:HD3	1.16	1.09
1:C:88:ARG:HE	1:C:109:LYS:HE3	1.15	1.09
1:D:102:ARG:HB2	1:D:104:PRO:HD3	1.16	1.09
1:E:19:LEU:HD13	1:E:240:TYR:CE1	1.86	1.09
1:E:27:LYS:NZ	1:E:239:LYS:NZ	1.79	1.09
1:H:58:LYS:HD3	1:H:59:GLY:H	1.13	1.09
1:I:63:SER:O	1:I:90:ASP:HA	1.52	1.09
1:J:68:MET:CE	1:J:105:ARG:HD2	1.81	1.09
1:L:63:SER:O	1:L:90:ASP:HA	1.52	1.09
1:B:88:ARG:HH21	1:B:109:LYS:NZ	1.47	1.08
1:C:252:THR:CG2	1:I:466:TYR:HH	1.55	1.08
1:E:68:MET:HE3	1:E:88:ARG:HB2	1.10	1.08
1:E:175:VAL:H	1:E:215:THR:HG23	0.92	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:58:LYS:HD3	1:F:59:GLY:H	1.14	1.08
1:H:92:LEU:HG	1:H:93:GLU:HB2	1.20	1.08
1:I:175:VAL:H	1:I:215:THR:HG23	0.92	1.08
1:K:339:ARG:H	1:L:58:LYS:HG3	1.12	1.08
1:L:54:ILE:CG1	1:L:102:ARG:HE	1.64	1.08
1:L:68:MET:HE3	1:L:88:ARG:HB2	1.10	1.08
1:L:89:CYS:HB2	1:L:103:ASP:OD2	1.52	1.08
1:A:339:ARG:H	1:F:58:LYS:HG3	1.12	1.08
1:B:58:LYS:HG3	1:C:339:ARG:H	1.12	1.08
1:B:63:SER:O	1:B:90:ASP:HA	1.52	1.08
1:B:89:CYS:HB2	1:B:103:ASP:OD2	1.52	1.08
1:B:414:LEU:HD21	1:B:418:LEU:HG	1.31	1.08
1:G:30:HIS:O	1:L:180:PHE:HB3	1.50	1.08
1:G:180:PHE:HB3	1:H:30:HIS:O	1.50	1.08
1:G:339:ARG:H	1:H:58:LYS:HG3	1.12	1.08
1:H:102:ARG:HB2	1:H:104:PRO:HD3	1.16	1.08
1:I:68:MET:HE3	1:I:88:ARG:HB2	1.10	1.08
1:J:68:MET:HE3	1:J:88:ARG:HB2	1.10	1.08
1:J:102:ARG:HB2	1:J:104:PRO:HD3	1.16	1.08
1:A:30:HIS:O	1:B:180:PHE:HB3	1.50	1.08
1:A:414:LEU:HD21	1:A:418:LEU:HG	1.31	1.08
1:D:58:LYS:HD3	1:D:59:GLY:H	1.13	1.08
1:D:68:MET:HE3	1:D:88:ARG:HB2	1.10	1.08
1:D:68:MET:CE	1:D:105:ARG:HD2	1.81	1.08
1:G:102:ARG:HB2	1:G:104:PRO:HD3	1.16	1.08
1:G:414:LEU:HD21	1:G:418:LEU:HG	1.31	1.08
1:L:414:LEU:HD21	1:L:418:LEU:HG	1.31	1.08
1:A:67:LEU:HD12	1:A:68:MET:HG3	1.35	1.08
1:A:102:ARG:HB2	1:A:104:PRO:HD3	1.16	1.08
1:D:281:LEU:HD12	1:D:281:LEU:H	1.19	1.08
1:E:466:TYR:HH	1:K:252:THR:CG2	1.55	1.08
1:G:19:LEU:HD23	1:G:75:VAL:HG22	1.31	1.08
1:G:67:LEU:HD12	1:G:68:MET:HG3	1.35	1.08
1:J:281:LEU:H	1:J:281:LEU:HD12	1.19	1.08
1:L:102:ARG:HB2	1:L:104:PRO:HD3	1.16	1.08
1:C:281:LEU:H	1:C:281:LEU:HD12	1.19	1.08
1:D:175:VAL:H	1:D:215:THR:HG23	0.92	1.08
1:F:102:ARG:HB2	1:F:104:PRO:HD3	1.16	1.08
1:F:175:VAL:H	1:F:215:THR:HG23	0.91	1.08
1:F:414:LEU:HD21	1:F:418:LEU:HG	1.31	1.08
1:I:281:LEU:H	1:I:281:LEU:HD12	1.19	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:175:VAL:H	1:J:215:THR:HG23	0.91	1.08
1:K:281:LEU:H	1:K:281:LEU:HD12	1.19	1.08
1:C:63:SER:O	1:C:90:ASP:HA	1.52	1.07
1:D:65:MET:O	1:D:67:LEU:HB3	1.51	1.07
1:E:281:LEU:H	1:E:281:LEU:HD12	1.19	1.07
1:E:376:MET:HE3	1:E:433:VAL:CG1	1.84	1.07
1:H:88:ARG:HE	1:H:109:LYS:HE3	1.15	1.07
1:H:414:LEU:HD21	1:H:418:LEU:HG	1.31	1.07
1:I:58:LYS:HD3	1:I:59:GLY:H	1.14	1.07
1:J:339:ARG:H	1:K:58:LYS:HG3	1.11	1.07
1:D:63:SER:O	1:D:90:ASP:HA	1.52	1.07
1:G:376:MET:HE3	1:G:433:VAL:CG1	1.84	1.07
1:H:175:VAL:H	1:H:215:THR:HG23	0.91	1.07
1:J:58:LYS:HD3	1:J:59:GLY:H	1.13	1.07
1:L:88:ARG:HE	1:L:109:LYS:HE3	1.15	1.07
1:C:58:LYS:HG3	1:D:339:ARG:H	1.12	1.07
1:F:88:ARG:HE	1:F:109:LYS:HE3	1.15	1.07
1:G:339:ARG:C	1:G:341:ALA:H	1.57	1.07
1:H:376:MET:HE3	1:H:433:VAL:CG1	1.84	1.07
1:I:376:MET:HE3	1:I:433:VAL:CG1	1.85	1.07
1:J:65:MET:O	1:J:67:LEU:HB3	1.50	1.07
1:K:63:SER:O	1:K:90:ASP:HA	1.52	1.07
1:K:414:LEU:HD21	1:K:418:LEU:HG	1.31	1.07
1:A:376:MET:HE3	1:A:433:VAL:CG1	1.84	1.07
1:C:89:CYS:HB2	1:C:103:ASP:OD2	1.52	1.07
1:E:58:LYS:HD3	1:E:59:GLY:H	1.13	1.07
1:K:89:CYS:HB2	1:K:103:ASP:OD2	1.53	1.07
1:K:175:VAL:H	1:K:215:THR:HG23	0.91	1.07
1:A:339:ARG:C	1:A:341:ALA:H	1.57	1.07
1:B:281:LEU:H	1:B:281:LEU:HD12	1.19	1.07
1:C:376:MET:HE3	1:C:433:VAL:CG1	1.85	1.07
1:C:414:LEU:HD21	1:C:418:LEU:HG	1.31	1.07
1:F:376:MET:HE3	1:F:433:VAL:CG1	1.85	1.07
1:H:339:ARG:H	1:I:58:LYS:HG3	1.11	1.07
1:J:63:SER:O	1:J:90:ASP:HA	1.52	1.07
1:K:376:MET:HE3	1:K:433:VAL:CG1	1.85	1.07
1:L:86:ILE:HD12	1:L:86:ILE:N	1.70	1.07
1:L:281:LEU:HD12	1:L:281:LEU:H	1.19	1.07
1:B:86:ILE:HD12	1:B:86:ILE:N	1.70	1.06
1:B:88:ARG:HE	1:B:109:LYS:HE3	1.15	1.06
1:C:175:VAL:H	1:C:215:THR:HG23	0.92	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:175:VAL:N	1:C:215:THR:HG23	1.70	1.06
1:K:175:VAL:N	1:K:215:THR:HG23	1.70	1.06
1:B:376:MET:HE3	1:B:433:VAL:CG1	1.85	1.06
1:E:58:LYS:HG3	1:F:339:ARG:H	1.12	1.06
1:F:67:LEU:HD12	1:F:68:MET:HG3	1.35	1.06
1:L:175:VAL:N	1:L:215:THR:HG23	1.70	1.06
1:L:376:MET:HE3	1:L:433:VAL:CG1	1.84	1.06
1:B:175:VAL:N	1:B:215:THR:HG23	1.71	1.06
1:D:376:MET:HE3	1:D:433:VAL:CG1	1.84	1.06
1:F:281:LEU:H	1:F:281:LEU:HD12	1.19	1.06
1:H:67:LEU:HD12	1:H:68:MET:HG3	1.35	1.06
1:J:175:VAL:N	1:J:215:THR:HG23	1.70	1.06
1:D:175:VAL:N	1:D:215:THR:HG23	1.71	1.06
1:D:348:VAL:HG11	1:D:354:ARG:HD3	1.38	1.06
1:H:281:LEU:HD12	1:H:281:LEU:H	1.19	1.06
1:J:67:LEU:HD12	1:J:68:MET:HG3	1.35	1.06
1:J:376:MET:HE3	1:J:433:VAL:CG1	1.85	1.06
1:B:67:LEU:HD12	1:B:68:MET:HG3	1.35	1.05
1:D:67:LEU:HD12	1:D:68:MET:HG3	1.35	1.05
1:E:19:LEU:HD23	1:E:75:VAL:HG22	1.31	1.05
1:J:19:LEU:HD23	1:J:75:VAL:HG22	1.31	1.05
1:J:348:VAL:HG11	1:J:354:ARG:HD3	1.38	1.05
1:L:67:LEU:HD12	1:L:68:MET:HG3	1.35	1.05
1:A:175:VAL:H	1:A:215:THR:HG23	0.91	1.05
1:A:175:VAL:N	1:A:215:THR:HG23	1.70	1.05
1:A:281:LEU:H	1:A:281:LEU:HD12	1.19	1.05
1:I:88:ARG:HE	1:I:109:LYS:HE3	1.15	1.05
1:D:19:LEU:HD23	1:D:75:VAL:HG22	1.32	1.05
1:G:175:VAL:N	1:G:215:THR:HG23	1.70	1.05
1:I:19:LEU:HD23	1:I:75:VAL:HG22	1.31	1.05
1:I:86:ILE:HD12	1:I:86:ILE:N	1.70	1.05
1:I:88:ARG:HH21	1:I:109:LYS:NZ	1.47	1.05
1:K:348:VAL:HG11	1:K:354:ARG:HD3	1.38	1.05
1:L:175:VAL:H	1:L:215:THR:HG23	0.92	1.05
1:A:348:VAL:HG11	1:A:354:ARG:HD3	1.38	1.05
1:B:175:VAL:H	1:B:215:THR:HG23	0.92	1.05
1:C:348:VAL:HG11	1:C:354:ARG:HD3	1.38	1.05
1:D:88:ARG:HE	1:D:109:LYS:HE3	1.15	1.05
1:E:88:ARG:HE	1:E:109:LYS:HE3	1.16	1.05
1:G:175:VAL:H	1:G:215:THR:HG23	0.91	1.05
1:G:281:LEU:H	1:G:281:LEU:HD12	1.19	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:348:VAL:HG11	1:G:354:ARG:HD3	1.38	1.05
1:L:348:VAL:HG11	1:L:354:ARG:HD3	1.38	1.05
1:B:19:LEU:HD23	1:B:75:VAL:HG22	1.31	1.05
1:E:88:ARG:HH21	1:E:109:LYS:NZ	1.47	1.05
1:I:88:ARG:NH2	1:I:109:LYS:HZ2	1.53	1.05
1:I:103:ASP:H	1:I:104:PRO:HD3	1.20	1.05
1:I:175:VAL:N	1:I:215:THR:HG23	1.71	1.05
1:A:86:ILE:N	1:A:86:ILE:HD12	1.70	1.04
1:B:348:VAL:HG11	1:B:354:ARG:HD3	1.38	1.04
1:F:175:VAL:N	1:F:215:THR:HG23	1.70	1.04
1:J:88:ARG:HE	1:J:109:LYS:HE3	1.15	1.04
1:L:19:LEU:HD23	1:L:75:VAL:HG22	1.31	1.04
1:A:54:ILE:HD11	1:A:102:ARG:CD	1.87	1.04
1:E:175:VAL:N	1:E:215:THR:HG23	1.71	1.04
1:G:54:ILE:HD11	1:G:102:ARG:CD	1.87	1.04
1:H:175:VAL:N	1:H:215:THR:HG23	1.70	1.04
1:J:103:ASP:H	1:J:104:PRO:HD3	1.20	1.04
1:D:54:ILE:HD11	1:D:102:ARG:CD	1.87	1.04
1:E:103:ASP:H	1:E:104:PRO:HD3	1.21	1.04
1:K:339:ARG:HG2	1:K:340:SER:H	1.20	1.04
1:L:27:LYS:NZ	1:L:239:LYS:HZ2	1.39	1.04
1:A:88:ARG:NH2	1:A:109:LYS:HZ2	1.47	1.04
1:E:348:VAL:HG11	1:E:354:ARG:HD3	1.38	1.04
1:G:86:ILE:HD12	1:G:86:ILE:N	1.71	1.04
1:H:339:ARG:C	1:H:341:ALA:H	1.57	1.04
1:J:54:ILE:HD11	1:J:102:ARG:CD	1.87	1.04
1:L:54:ILE:HD11	1:L:102:ARG:CD	1.87	1.04
1:L:339:ARG:HG2	1:L:340:SER:H	1.21	1.04
1:C:67:LEU:HD12	1:C:68:MET:HG3	1.35	1.04
1:C:339:ARG:HG2	1:C:340:SER:H	1.20	1.04
1:D:103:ASP:H	1:D:104:PRO:HD3	1.20	1.04
1:F:339:ARG:C	1:F:341:ALA:H	1.57	1.04
1:H:348:VAL:HG11	1:H:354:ARG:HD3	1.38	1.04
1:I:54:ILE:HD11	1:I:102:ARG:CD	1.87	1.04
1:K:67:LEU:HD12	1:K:68:MET:HG3	1.35	1.04
1:B:54:ILE:HD11	1:B:102:ARG:CD	1.87	1.03
1:E:54:ILE:HD11	1:E:102:ARG:CD	1.87	1.03
1:I:348:VAL:HG11	1:I:354:ARG:HD3	1.38	1.03
1:B:103:ASP:H	1:B:104:PRO:HD3	1.20	1.03
1:C:19:LEU:HD23	1:C:75:VAL:HG22	1.31	1.03
1:F:54:ILE:HD11	1:F:102:ARG:CD	1.87	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:348:VAL:HG11	1:F:354:ARG:HD3	1.38	1.03
1:G:103:ASP:H	1:G:104:PRO:HD3	1.20	1.03
1:H:54:ILE:HD11	1:H:102:ARG:CD	1.87	1.03
1:I:67:LEU:HD12	1:I:68:MET:HG3	1.35	1.03
1:K:19:LEU:HD23	1:K:75:VAL:HG22	1.31	1.03
1:A:179:TYR:C	1:A:181:PRO:HD3	1.84	1.03
1:B:339:ARG:HG2	1:B:340:SER:H	1.21	1.03
1:C:54:ILE:HD11	1:C:102:ARG:CD	1.87	1.03
1:D:86:ILE:HD12	1:D:86:ILE:N	1.70	1.03
1:E:67:LEU:HD12	1:E:68:MET:HG3	1.35	1.03
1:K:86:ILE:HD12	1:K:86:ILE:N	1.70	1.03
1:A:103:ASP:H	1:A:104:PRO:HD3	1.20	1.03
1:A:376:MET:HE1	1:A:433:VAL:HG11	1.41	1.03
1:C:75:VAL:HG12	1:C:78:PRO:HD2	1.40	1.03
1:D:179:TYR:C	1:D:181:PRO:HD3	1.84	1.03
1:G:179:TYR:C	1:G:181:PRO:HD3	1.84	1.03
1:I:179:TYR:C	1:I:181:PRO:HD3	1.84	1.03
1:J:86:ILE:HD12	1:J:86:ILE:N	1.70	1.03
1:J:179:TYR:C	1:J:181:PRO:HD3	1.84	1.03
1:L:103:ASP:H	1:L:104:PRO:HD3	1.20	1.03
1:G:376:MET:HE1	1:G:433:VAL:HG11	1.41	1.03
1:H:103:ASP:H	1:H:104:PRO:HD3	1.20	1.03
1:L:96:THR:C	1:L:97:LEU:CG	2.32	1.03
1:B:15:LYS:HA	1:B:35:ALA:HB2	1.03	1.02
1:B:96:THR:C	1:B:97:LEU:CG	2.32	1.02
1:C:86:ILE:HD12	1:C:86:ILE:N	1.70	1.02
1:E:179:TYR:C	1:E:181:PRO:HD3	1.84	1.02
1:G:339:ARG:HG2	1:G:340:SER:H	1.21	1.02
1:I:339:ARG:C	1:I:341:ALA:H	1.57	1.02
1:K:54:ILE:HD11	1:K:102:ARG:CD	1.87	1.02
1:K:75:VAL:HG12	1:K:78:PRO:HD2	1.40	1.02
1:L:15:LYS:HA	1:L:35:ALA:HB2	1.03	1.02
1:B:376:MET:HE1	1:B:433:VAL:HG11	1.41	1.02
1:C:96:THR:C	1:C:97:LEU:CG	2.32	1.02
1:C:401:PRO:HA	1:C:405:LYS:HB3	1.03	1.02
1:D:12:HIS:O	1:D:13:GLU:HB2	1.58	1.02
1:D:75:VAL:HG12	1:D:78:PRO:HD2	1.40	1.02
1:E:252:THR:CG2	1:K:466:TYR:HH	1.65	1.02
1:F:103:ASP:H	1:F:104:PRO:HD3	1.20	1.02
1:J:75:VAL:HG12	1:J:78:PRO:HD2	1.40	1.02
1:J:96:THR:C	1:J:97:LEU:CG	2.32	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:401:PRO:HA	1:K:405:LYS:HB3	1.03	1.02
1:L:376:MET:HE1	1:L:433:VAL:HG11	1.41	1.02
1:A:339:ARG:HG2	1:A:340:SER:H	1.21	1.02
1:B:179:TYR:C	1:B:181:PRO:HD3	1.84	1.02
1:E:96:THR:C	1:E:97:LEU:CG	2.32	1.02
1:I:96:THR:C	1:I:97:LEU:CG	2.32	1.02
1:J:12:HIS:O	1:J:13:GLU:HB2	1.58	1.02
1:J:401:PRO:HA	1:J:405:LYS:HB3	1.03	1.02
1:K:96:THR:C	1:K:97:LEU:CG	2.32	1.02
1:L:179:TYR:C	1:L:181:PRO:HD3	1.84	1.02
1:A:338:ASN:HD21	1:A:395:ASN:N	1.58	1.02
1:B:65:MET:O	1:B:66:VAL:C	2.03	1.02
1:C:15:LYS:HA	1:C:35:ALA:HB2	1.03	1.02
1:C:179:TYR:C	1:C:181:PRO:HD3	1.84	1.02
1:D:96:THR:C	1:D:97:LEU:CG	2.32	1.02
1:D:401:PRO:HA	1:D:405:LYS:HB3	1.03	1.02
1:E:157:ALA:H	1:E:215:THR:HG22	1.25	1.02
1:F:179:TYR:C	1:F:181:PRO:HD3	1.84	1.02
1:G:15:LYS:HA	1:G:35:ALA:HB2	1.03	1.02
1:I:283:SER:O	1:I:291:SER:HB3	1.60	1.02
1:J:20:ARG:HG2	1:J:28:GLU:OE1	1.58	1.02
1:J:339:ARG:HG2	1:J:340:SER:H	1.21	1.02
1:K:103:ASP:H	1:K:104:PRO:HD3	1.20	1.02
1:L:65:MET:O	1:L:66:VAL:C	2.03	1.02
1:A:15:LYS:HA	1:A:35:ALA:HB2	1.03	1.02
1:C:103:ASP:H	1:C:104:PRO:HD3	1.20	1.02
1:D:20:ARG:HG2	1:D:28:GLU:OE1	1.59	1.02
1:E:283:SER:O	1:E:291:SER:HB3	1.60	1.02
1:E:339:ARG:C	1:E:341:ALA:H	1.57	1.02
1:F:338:ASN:HD21	1:F:395:ASN:N	1.58	1.02
1:F:376:MET:HE1	1:F:433:VAL:HG11	1.41	1.02
1:G:338:ASN:HD21	1:G:395:ASN:N	1.58	1.02
1:K:15:LYS:HA	1:K:35:ALA:HB2	1.03	1.02
1:D:339:ARG:HG2	1:D:340:SER:H	1.21	1.01
1:F:15:LYS:HA	1:F:35:ALA:HB2	1.03	1.01
1:F:75:VAL:HG12	1:F:78:PRO:HD2	1.40	1.01
1:H:179:TYR:C	1:H:181:PRO:HD3	1.84	1.01
1:H:376:MET:HE1	1:H:433:VAL:HG11	1.41	1.01
1:I:157:ALA:H	1:I:215:THR:HG22	1.24	1.01
1:K:179:TYR:C	1:K:181:PRO:HD3	1.84	1.01
1:C:466:TYR:HH	1:I:252:THR:CG2	1.66	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:20:ARG:HG2	1:E:28:GLU:OE1	1.58	1.01
1:G:96:THR:C	1:G:97:LEU:CG	2.32	1.01
1:H:338:ASN:HD21	1:H:395:ASN:N	1.58	1.01
1:J:283:SER:O	1:J:291:SER:HB3	1.60	1.01
1:K:65:MET:O	1:K:66:VAL:C	2.03	1.01
1:L:12:HIS:O	1:L:13:GLU:HB2	1.58	1.01
1:B:12:HIS:O	1:B:13:GLU:HB2	1.58	1.01
1:B:338:ASN:HD21	1:B:395:ASN:N	1.58	1.01
1:C:65:MET:O	1:C:66:VAL:C	2.03	1.01
1:D:65:MET:O	1:D:66:VAL:C	2.03	1.01
1:D:283:SER:O	1:D:291:SER:HB3	1.60	1.01
1:F:20:ARG:HG2	1:F:28:GLU:OE1	1.59	1.01
1:H:15:LYS:HA	1:H:35:ALA:HB2	1.03	1.01
1:H:20:ARG:HG2	1:H:28:GLU:OE1	1.59	1.01
1:H:75:VAL:HG12	1:H:78:PRO:HD2	1.40	1.01
1:I:20:ARG:HG2	1:I:28:GLU:OE1	1.58	1.01
1:L:338:ASN:HD21	1:L:395:ASN:N	1.58	1.01
1:E:315:THR:HG1	1:K:465:TYR:CB	1.74	1.01
1:F:283:SER:O	1:F:291:SER:HB3	1.60	1.01
1:H:283:SER:O	1:H:291:SER:HB3	1.60	1.01
1:A:96:THR:C	1:A:97:LEU:CG	2.32	1.01
1:A:360:PHE:N	1:A:361:PRO:CD	2.24	1.01
1:B:75:VAL:HG12	1:B:78:PRO:HD2	1.40	1.01
1:E:86:ILE:HD12	1:E:86:ILE:N	1.70	1.01
1:E:338:ASN:HD21	1:E:395:ASN:N	1.58	1.01
1:F:65:MET:O	1:F:66:VAL:C	2.03	1.01
1:F:89:CYS:HB3	1:F:90:ASP:OD2	1.61	1.01
1:H:65:MET:O	1:H:66:VAL:C	2.03	1.01
1:H:89:CYS:HB3	1:H:90:ASP:OD2	1.61	1.01
1:I:338:ASN:HD21	1:I:395:ASN:N	1.58	1.01
1:J:65:MET:O	1:J:66:VAL:C	2.03	1.01
1:L:18:ASP:CG	1:L:19:LEU:H	1.69	1.01
1:L:75:VAL:HG12	1:L:78:PRO:HD2	1.40	1.01
1:C:338:ASN:HD21	1:C:395:ASN:N	1.58	1.00
1:D:338:ASN:HD21	1:D:395:ASN:N	1.58	1.00
1:E:89:CYS:HB3	1:E:90:ASP:OD2	1.61	1.00
1:F:86:ILE:HD12	1:F:86:ILE:N	1.70	1.00
1:G:18:ASP:CG	1:G:19:LEU:H	1.69	1.00
1:G:360:PHE:N	1:G:361:PRO:CD	2.24	1.00
1:H:339:ARG:HG2	1:H:340:SER:H	1.21	1.00
1:L:88:ARG:NH2	1:L:109:LYS:HZ2	1.55	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:18:ASP:CG	1:A:19:LEU:H	1.70	1.00
1:B:18:ASP:CG	1:B:19:LEU:H	1.70	1.00
1:B:401:PRO:HA	1:B:405:LYS:CB	1.91	1.00
1:C:155:GLU:O	1:C:156:GLY:O	1.79	1.00
1:D:89:CYS:HB3	1:D:90:ASP:OD2	1.61	1.00
1:D:155:GLU:O	1:D:156:GLY:O	1.79	1.00
1:E:12:HIS:O	1:E:13:GLU:HB2	1.58	1.00
1:E:89:CYS:HB2	1:E:103:ASP:CG	1.87	1.00
1:E:155:GLU:O	1:E:156:GLY:O	1.79	1.00
1:F:89:CYS:HB2	1:F:103:ASP:CG	1.87	1.00
1:F:96:THR:C	1:F:97:LEU:CG	2.32	1.00
1:H:86:ILE:HD12	1:H:86:ILE:N	1.70	1.00
1:H:89:CYS:HB2	1:H:103:ASP:CG	1.87	1.00
1:H:96:THR:C	1:H:97:LEU:CG	2.32	1.00
1:I:89:CYS:HB2	1:I:103:ASP:CG	1.87	1.00
1:I:89:CYS:HB3	1:I:90:ASP:OD2	1.62	1.00
1:J:89:CYS:HB3	1:J:90:ASP:OD2	1.61	1.00
1:J:155:GLU:O	1:J:156:GLY:O	1.79	1.00
1:K:155:GLU:O	1:K:156:GLY:O	1.79	1.00
1:K:338:ASN:HD21	1:K:395:ASN:N	1.58	1.00
1:A:89:CYS:HB2	1:A:103:ASP:CG	1.87	1.00
1:E:335:SER:O	1:E:336:ALA:HB3	1.60	1.00
1:F:339:ARG:HG2	1:F:340:SER:H	1.21	1.00
1:G:75:VAL:HG12	1:G:78:PRO:HD2	1.40	1.00
1:G:401:PRO:HA	1:G:405:LYS:CB	1.91	1.00
1:I:12:HIS:O	1:I:13:GLU:HB2	1.59	1.00
1:K:283:SER:O	1:K:291:SER:HB3	1.60	1.00
1:L:20:ARG:HG2	1:L:28:GLU:OE1	1.58	1.00
1:L:401:PRO:HA	1:L:405:LYS:CB	1.91	1.00
1:A:89:CYS:HB3	1:A:90:ASP:OD2	1.61	1.00
1:A:401:PRO:HA	1:A:405:LYS:CB	1.91	1.00
1:A:401:PRO:HA	1:A:405:LYS:HB3	1.03	1.00
1:G:89:CYS:HB2	1:G:103:ASP:CG	1.87	1.00
1:I:155:GLU:O	1:I:156:GLY:O	1.79	1.00
1:J:338:ASN:HD21	1:J:395:ASN:N	1.58	1.00
1:C:283:SER:O	1:C:291:SER:HB3	1.60	1.00
1:F:335:SER:O	1:F:336:ALA:HB3	1.59	1.00
1:F:401:PRO:HA	1:F:405:LYS:HB3	1.03	1.00
1:G:20:ARG:HG2	1:G:28:GLU:OE1	1.58	1.00
1:G:401:PRO:HA	1:G:405:LYS:HB3	1.03	1.00
1:I:335:SER:O	1:I:336:ALA:HB3	1.60	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:339:ARG:HG2	1:I:340:SER:H	1.21	1.00
1:K:18:ASP:CG	1:K:19:LEU:H	1.69	1.00
1:L:155:GLU:O	1:L:156:GLY:O	1.79	1.00
1:A:12:HIS:O	1:A:13:GLU:HB2	1.58	1.00
1:B:155:GLU:O	1:B:156:GLY:O	1.79	1.00
1:C:18:ASP:CG	1:C:19:LEU:H	1.70	1.00
1:G:65:MET:O	1:G:66:VAL:C	2.03	1.00
1:H:18:ASP:CG	1:H:19:LEU:H	1.70	1.00
1:I:401:PRO:HA	1:I:405:LYS:HB3	1.03	1.00
1:K:89:CYS:HB3	1:K:90:ASP:OD2	1.62	1.00
1:K:376:MET:HE1	1:K:433:VAL:HG11	1.41	1.00
1:K:401:PRO:HA	1:K:405:LYS:CB	1.91	1.00
1:A:75:VAL:HG12	1:A:78:PRO:HD2	1.40	1.00
1:B:20:ARG:HG2	1:B:28:GLU:OE1	1.59	1.00
1:C:89:CYS:HB3	1:C:90:ASP:OD2	1.61	1.00
1:D:89:CYS:HB2	1:D:103:ASP:CG	1.87	1.00
1:G:89:CYS:HB3	1:G:90:ASP:OD2	1.62	1.00
1:H:335:SER:O	1:H:336:ALA:HB3	1.59	1.00
1:I:65:MET:O	1:I:66:VAL:C	2.03	1.00
1:J:89:CYS:HB2	1:J:103:ASP:CG	1.87	1.00
1:C:20:ARG:HG2	1:C:28:GLU:OE1	1.59	0.99
1:C:401:PRO:HA	1:C:405:LYS:CB	1.91	0.99
1:E:65:MET:O	1:E:66:VAL:C	2.03	0.99
1:E:339:ARG:HG2	1:E:340:SER:H	1.21	0.99
1:F:18:ASP:CG	1:F:19:LEU:H	1.70	0.99
1:H:401:PRO:HA	1:H:405:LYS:HB3	1.03	0.99
1:K:20:ARG:HG2	1:K:28:GLU:OE1	1.58	0.99
1:L:283:SER:O	1:L:291:SER:HB3	1.60	0.99
1:A:20:ARG:HG2	1:A:28:GLU:OE1	1.58	0.99
1:B:256:MET:HE3	1:H:466:TYR:HA	1.44	0.99
1:F:360:PHE:N	1:F:361:PRO:CD	2.24	0.99
1:G:12:HIS:O	1:G:13:GLU:HB2	1.58	0.99
1:A:65:MET:O	1:A:66:VAL:C	2.03	0.99
1:B:283:SER:O	1:B:291:SER:HB3	1.60	0.99
1:B:401:PRO:HA	1:B:405:LYS:HB3	1.03	0.99
1:E:15:LYS:HA	1:E:35:ALA:HB2	1.03	0.99
1:E:401:PRO:HA	1:E:405:LYS:CB	1.91	0.99
1:H:27:LYS:HZ3	1:H:239:LYS:HZ3	1.01	0.99
1:H:155:GLU:O	1:H:156:GLY:O	1.79	0.99
1:H:360:PHE:N	1:H:361:PRO:CD	2.24	0.99
1:I:15:LYS:HA	1:I:35:ALA:HB2	1.03	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:98:GLN:HG3	1:I:102:ARG:O	1.61	0.99
1:K:12:HIS:O	1:K:13:GLU:HB2	1.58	0.99
1:A:98:GLN:HG3	1:A:102:ARG:O	1.61	0.99
1:D:15:LYS:HA	1:D:35:ALA:HB2	1.03	0.99
1:E:75:VAL:HG12	1:E:78:PRO:HD2	1.40	0.99
1:G:283:SER:O	1:G:291:SER:HB3	1.60	0.99
1:H:157:ALA:H	1:H:215:THR:HG22	1.24	0.99
1:H:401:PRO:HA	1:H:405:LYS:CB	1.91	0.99
1:I:75:VAL:HG12	1:I:78:PRO:HD2	1.40	0.99
1:I:79:PHE:HD1	1:I:80:PHE:CG	1.80	0.99
1:I:401:PRO:HA	1:I:405:LYS:CB	1.91	0.99
1:J:15:LYS:HA	1:J:35:ALA:HB2	1.03	0.99
1:L:79:PHE:HD1	1:L:80:PHE:CG	1.80	0.99
1:C:79:PHE:HD1	1:C:80:PHE:CG	1.80	0.99
1:C:376:MET:HE1	1:C:433:VAL:HG11	1.41	0.99
1:E:79:PHE:HD1	1:E:80:PHE:CG	1.80	0.99
1:E:376:MET:HE1	1:E:433:VAL:HG11	1.41	0.99
1:G:98:GLN:HG3	1:G:102:ARG:O	1.61	0.99
1:J:339:ARG:C	1:J:341:ALA:H	1.57	0.99
1:K:79:PHE:HD1	1:K:80:PHE:CG	1.80	0.99
1:L:401:PRO:HA	1:L:405:LYS:HB3	1.03	0.99
1:A:283:SER:O	1:A:291:SER:HB3	1.60	0.99
1:B:79:PHE:HD1	1:B:80:PHE:CG	1.80	0.99
1:B:98:GLN:HG3	1:B:102:ARG:O	1.61	0.99
1:C:360:PHE:N	1:C:361:PRO:CD	2.24	0.99
1:D:18:ASP:CG	1:D:19:LEU:H	1.69	0.99
1:D:256:MET:HE3	1:J:466:TYR:HA	1.45	0.99
1:D:466:TYR:HA	1:J:256:MET:HE3	1.45	0.99
1:E:256:MET:HE3	1:K:466:TYR:HA	1.45	0.99
1:E:401:PRO:HA	1:E:405:LYS:HB3	1.03	0.99
1:F:155:GLU:O	1:F:156:GLY:O	1.79	0.99
1:A:28:GLU:CG	1:B:182:VAL:HG11	1.92	0.99
1:B:465:TYR:CB	1:H:315:THR:HG1	1.76	0.99
1:C:466:TYR:HA	1:I:256:MET:HE3	1.45	0.99
1:F:401:PRO:HA	1:F:405:LYS:CB	1.91	0.99
1:L:89:CYS:HB2	1:L:103:ASP:CG	1.87	0.99
1:A:71:ALA:O	1:A:86:ILE:HD11	1.63	0.99
1:C:12:HIS:O	1:C:13:GLU:HB2	1.58	0.99
1:C:256:MET:HE3	1:I:466:TYR:HA	1.45	0.99
1:F:466:TYR:HA	1:L:256:MET:HE3	1.45	0.99
1:I:18:ASP:CG	1:I:19:LEU:H	1.69	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:401:PRO:HA	1:J:405:LYS:CB	1.91	0.99
1:K:360:PHE:N	1:K:361:PRO:CD	2.25	0.99
1:D:401:PRO:HA	1:D:405:LYS:CB	1.91	0.99
1:E:466:TYR:HA	1:K:256:MET:HE3	1.45	0.99
1:F:98:GLN:HG3	1:F:102:ARG:O	1.61	0.99
1:F:157:ALA:H	1:F:215:THR:HG22	1.24	0.99
1:H:314:PRO:O	1:H:315:THR:O	1.81	0.99
1:K:182:VAL:HG11	1:L:28:GLU:CG	1.92	0.99
1:L:98:GLN:HG3	1:L:102:ARG:O	1.61	0.99
1:D:98:GLN:HG3	1:D:102:ARG:O	1.62	0.99
1:D:339:ARG:C	1:D:341:ALA:H	1.57	0.99
1:E:18:ASP:CG	1:E:19:LEU:H	1.69	0.99
1:E:98:GLN:HG3	1:E:102:ARG:O	1.62	0.99
1:G:28:GLU:CG	1:L:182:VAL:HG11	1.92	0.99
1:G:71:ALA:O	1:G:86:ILE:HD11	1.63	0.99
1:G:79:PHE:HD1	1:G:80:PHE:CG	1.80	0.99
1:H:98:GLN:HG3	1:H:102:ARG:O	1.61	0.99
1:J:18:ASP:CG	1:J:19:LEU:H	1.70	0.99
1:A:79:PHE:HD1	1:A:80:PHE:CG	1.80	0.98
1:A:88:ARG:NE	1:A:109:LYS:HE3	1.78	0.98
1:B:28:GLU:CG	1:C:182:VAL:HG11	1.92	0.98
1:B:89:CYS:HB2	1:B:103:ASP:CG	1.87	0.98
1:D:88:ARG:NE	1:D:109:LYS:HE3	1.77	0.98
1:D:296:TYR:HB2	1:D:382:ILE:HA	1.44	0.98
1:F:79:PHE:HD1	1:F:80:PHE:CG	1.80	0.98
1:F:256:MET:HE3	1:L:466:TYR:HA	1.44	0.98
1:F:314:PRO:O	1:F:315:THR:O	1.81	0.98
1:G:88:ARG:NE	1:G:109:LYS:HE3	1.77	0.98
1:G:182:VAL:HG11	1:H:28:GLU:CG	1.92	0.98
1:I:376:MET:HE1	1:I:433:VAL:HG11	1.41	0.98
1:L:88:ARG:NE	1:L:109:LYS:HE3	1.77	0.98
1:B:360:PHE:N	1:B:361:PRO:CD	2.24	0.98
1:C:28:GLU:CG	1:D:182:VAL:HG11	1.92	0.98
1:C:71:ALA:O	1:C:86:ILE:HD11	1.63	0.98
1:I:314:PRO:O	1:I:315:THR:O	1.81	0.98
1:I:331:MET:CE	1:I:396:LEU:HD12	1.94	0.98
1:J:98:GLN:HG3	1:J:102:ARG:O	1.62	0.98
1:J:335:SER:O	1:J:336:ALA:HB3	1.59	0.98
1:L:335:SER:O	1:L:336:ALA:HB3	1.59	0.98
1:C:376:MET:CE	1:C:433:VAL:CG1	2.41	0.98
1:D:19:LEU:HD22	1:D:240:TYR:OH	1.63	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:331:MET:CE	1:E:396:LEU:HD12	1.94	0.98
1:G:314:PRO:O	1:G:315:THR:O	1.81	0.98
1:H:79:PHE:HD1	1:H:80:PHE:CG	1.80	0.98
1:J:79:PHE:HD1	1:J:80:PHE:CG	1.80	0.98
1:J:88:ARG:NE	1:J:109:LYS:HE3	1.78	0.98
1:K:376:MET:CE	1:K:433:VAL:CG1	2.41	0.98
1:A:155:GLU:O	1:A:156:GLY:O	1.79	0.98
1:A:182:VAL:HG11	1:F:28:GLU:CG	1.92	0.98
1:A:256:MET:HE3	1:G:466:TYR:HA	1.44	0.98
1:A:314:PRO:O	1:A:315:THR:O	1.81	0.98
1:A:466:TYR:HA	1:G:256:MET:HE3	1.45	0.98
1:B:466:TYR:HA	1:H:256:MET:HE3	1.45	0.98
1:C:98:GLN:HG3	1:C:102:ARG:O	1.62	0.98
1:D:71:ALA:O	1:D:86:ILE:HD11	1.63	0.98
1:G:155:GLU:O	1:G:156:GLY:O	1.79	0.98
1:G:296:TYR:HB2	1:G:382:ILE:HA	1.44	0.98
1:H:182:VAL:HG11	1:I:28:GLU:CG	1.92	0.98
1:J:19:LEU:HD22	1:J:240:TYR:OH	1.63	0.98
1:J:296:TYR:HB2	1:J:382:ILE:HA	1.44	0.98
1:K:71:ALA:O	1:K:86:ILE:HD11	1.63	0.98
1:K:89:CYS:SG	1:K:103:ASP:CA	2.52	0.98
1:A:252:THR:CG2	1:G:466:TYR:HH	1.66	0.98
1:B:89:CYS:SG	1:B:103:ASP:CA	2.52	0.98
1:B:335:SER:O	1:B:336:ALA:HB3	1.59	0.98
1:C:89:CYS:SG	1:C:103:ASP:CA	2.52	0.98
1:D:335:SER:O	1:D:336:ALA:HB3	1.59	0.98
1:E:314:PRO:O	1:E:315:THR:O	1.81	0.98
1:G:157:ALA:H	1:G:215:THR:HG22	1.24	0.98
1:I:182:VAL:HG11	1:J:28:GLU:CG	1.92	0.98
1:J:331:MET:CE	1:J:396:LEU:HD12	1.93	0.98
1:A:296:TYR:HB2	1:A:382:ILE:HA	1.44	0.98
1:A:466:TYR:HH	1:G:252:THR:CG2	1.66	0.98
1:B:88:ARG:NE	1:B:109:LYS:HE3	1.78	0.98
1:D:28:GLU:CG	1:E:182:VAL:HG11	1.92	0.98
1:E:28:GLU:CG	1:F:182:VAL:HG11	1.92	0.98
1:E:90:ASP:O	1:E:91:ILE:C	2.07	0.98
1:H:88:ARG:NE	1:H:109:LYS:HE3	1.77	0.98
1:H:331:MET:CE	1:H:396:LEU:HD12	1.93	0.98
1:I:90:ASP:O	1:I:91:ILE:C	2.07	0.98
1:J:71:ALA:O	1:J:86:ILE:HD11	1.63	0.98
1:K:89:CYS:HB2	1:K:103:ASP:CG	1.87	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:71:ALA:O	1:L:86:ILE:HD11	1.63	0.98
1:L:89:CYS:SG	1:L:103:ASP:CA	2.52	0.98
1:L:360:PHE:N	1:L:361:PRO:CD	2.24	0.98
1:A:68:MET:CE	1:A:105:ARG:CD	2.41	0.98
1:C:89:CYS:HB2	1:C:103:ASP:CG	1.87	0.98
1:D:79:PHE:HD1	1:D:80:PHE:CG	1.80	0.98
1:D:331:MET:CE	1:D:396:LEU:HD12	1.94	0.98
1:E:65:MET:HE2	1:E:65:MET:C	1.89	0.98
1:E:360:PHE:N	1:E:361:PRO:CD	2.24	0.98
1:F:331:MET:CE	1:F:396:LEU:HD12	1.94	0.98
1:I:65:MET:HE2	1:I:65:MET:C	1.89	0.98
1:J:65:MET:HE2	1:J:65:MET:C	1.89	0.98
1:J:182:VAL:HG11	1:K:28:GLU:CG	1.92	0.98
1:K:98:GLN:HG3	1:K:102:ARG:O	1.61	0.98
1:L:89:CYS:HB3	1:L:90:ASP:OD2	1.61	0.98
1:B:71:ALA:O	1:B:86:ILE:HD11	1.63	0.98
1:B:89:CYS:HB3	1:B:90:ASP:OD2	1.62	0.98
1:D:65:MET:C	1:D:65:MET:HE2	1.89	0.98
1:E:19:LEU:HD22	1:E:240:TYR:OH	1.63	0.98
1:I:88:ARG:NE	1:I:109:LYS:HE3	1.77	0.98
1:I:360:PHE:N	1:I:361:PRO:CD	2.24	0.98
1:F:88:ARG:NE	1:F:109:LYS:HE3	1.78	0.98
1:G:68:MET:CE	1:G:105:ARG:CD	2.41	0.98
1:H:68:MET:CE	1:H:105:ARG:CD	2.41	0.98
1:J:314:PRO:O	1:J:315:THR:O	1.81	0.98
1:J:376:MET:HE1	1:J:433:VAL:HG11	1.41	0.98
1:A:157:ALA:H	1:A:215:THR:HG22	1.24	0.98
1:B:314:PRO:O	1:B:315:THR:O	1.81	0.98
1:C:88:ARG:NE	1:C:109:LYS:HE3	1.78	0.98
1:D:314:PRO:O	1:D:315:THR:O	1.81	0.98
1:E:88:ARG:NE	1:E:109:LYS:HE3	1.78	0.98
1:F:68:MET:CE	1:F:105:ARG:CD	2.41	0.98
1:H:65:MET:HE2	1:H:65:MET:C	1.89	0.98
1:I:19:LEU:HD22	1:I:240:TYR:OH	1.63	0.98
1:I:71:ALA:O	1:I:86:ILE:HD11	1.63	0.98
1:C:57:TRP:CD1	1:C:58:LYS:N	2.32	0.97
1:C:314:PRO:O	1:C:315:THR:O	1.81	0.97
1:D:376:MET:HE1	1:D:433:VAL:HG11	1.41	0.97
1:H:57:TRP:CD1	1:H:58:LYS:N	2.32	0.97
1:K:314:PRO:O	1:K:315:THR:O	1.81	0.97
1:L:314:PRO:O	1:L:315:THR:O	1.82	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:71:ALA:O	1:E:86:ILE:HD11	1.63	0.97
1:E:296:TYR:HB2	1:E:382:ILE:HA	1.44	0.97
1:G:19:LEU:HD22	1:G:240:TYR:OH	1.63	0.97
1:H:90:ASP:O	1:H:91:ILE:C	2.07	0.97
1:K:57:TRP:CD1	1:K:58:LYS:N	2.33	0.97
1:K:88:ARG:NE	1:K:109:LYS:HE3	1.78	0.97
1:A:19:LEU:HD22	1:A:240:TYR:OH	1.63	0.97
1:A:57:TRP:CD1	1:A:58:LYS:N	2.33	0.97
1:B:315:THR:HG1	1:H:465:TYR:CB	1.74	0.97
1:E:89:CYS:SG	1:E:103:ASP:CA	2.52	0.97
1:F:57:TRP:CD1	1:F:58:LYS:N	2.33	0.97
1:F:89:CYS:SG	1:F:103:ASP:CA	2.52	0.97
1:F:339:ARG:O	1:F:340:SER:CB	2.12	0.97
1:G:376:MET:CE	1:G:433:VAL:CG1	2.41	0.97
1:H:71:ALA:O	1:H:86:ILE:HD11	1.63	0.97
1:H:89:CYS:SG	1:H:103:ASP:CA	2.52	0.97
1:I:296:TYR:HB2	1:I:382:ILE:HA	1.44	0.97
1:J:89:CYS:SG	1:J:103:ASP:CA	2.52	0.97
1:C:315:THR:HG1	1:I:465:TYR:CB	1.73	0.97
1:D:57:TRP:CD1	1:D:58:LYS:N	2.33	0.97
1:G:57:TRP:CD1	1:G:58:LYS:N	2.33	0.97
1:H:19:LEU:HD22	1:H:240:TYR:OH	1.63	0.97
1:H:339:ARG:O	1:H:340:SER:CB	2.12	0.97
1:J:57:TRP:CD1	1:J:58:LYS:N	2.33	0.97
1:A:15:LYS:CA	1:A:35:ALA:HB2	1.94	0.97
1:B:15:LYS:CA	1:B:35:ALA:HB2	1.94	0.97
1:C:54:ILE:CD1	1:C:102:ARG:NE	2.28	0.97
1:C:296:TYR:HB2	1:C:382:ILE:HA	1.44	0.97
1:D:89:CYS:SG	1:D:103:ASP:CA	2.52	0.97
1:D:360:PHE:N	1:D:361:PRO:CD	2.24	0.97
1:F:19:LEU:HD22	1:F:240:TYR:OH	1.63	0.97
1:F:65:MET:HE2	1:F:65:MET:C	1.89	0.97
1:F:71:ALA:O	1:F:86:ILE:HD11	1.63	0.97
1:F:90:ASP:O	1:F:91:ILE:C	2.07	0.97
1:I:89:CYS:SG	1:I:103:ASP:CA	2.52	0.97
1:K:335:SER:O	1:K:336:ALA:HB3	1.59	0.97
1:B:57:TRP:CD1	1:B:58:LYS:N	2.33	0.97
1:C:65:MET:HE2	1:C:65:MET:C	1.89	0.97
1:C:331:MET:CE	1:C:396:LEU:HD12	1.93	0.97
1:D:157:ALA:H	1:D:215:THR:HG22	1.24	0.97
1:G:15:LYS:CA	1:G:35:ALA:HB2	1.94	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:57:TRP:CD1	1:I:58:LYS:N	2.33	0.97
1:J:360:PHE:H	1:J:361:PRO:HD2	1.29	0.97
1:K:65:MET:HE2	1:K:65:MET:C	1.89	0.97
1:K:296:TYR:HB2	1:K:382:ILE:HA	1.44	0.97
1:K:331:MET:CE	1:K:396:LEU:HD12	1.94	0.97
1:L:15:LYS:CA	1:L:35:ALA:HB2	1.94	0.97
1:L:57:TRP:CD1	1:L:58:LYS:N	2.33	0.97
1:D:360:PHE:H	1:D:361:PRO:HD2	1.29	0.97
1:E:57:TRP:CD1	1:E:58:LYS:N	2.33	0.97
1:J:360:PHE:N	1:J:361:PRO:CD	2.24	0.97
1:K:54:ILE:CD1	1:K:102:ARG:NE	2.28	0.97
1:A:331:MET:CE	1:A:396:LEU:HD12	1.94	0.97
1:D:68:MET:HE3	1:D:88:ARG:CB	1.95	0.97
1:F:465:TYR:CB	1:L:315:THR:HG1	1.74	0.97
1:H:12:HIS:O	1:H:13:GLU:HB2	1.58	0.97
1:B:157:ALA:H	1:B:215:THR:HG22	1.24	0.97
1:B:376:MET:CE	1:B:433:VAL:CG1	2.41	0.97
1:C:19:LEU:HD22	1:C:240:TYR:OH	1.63	0.97
1:C:449:GLU:OE2	1:I:465:TYR:OH	1.83	0.97
1:E:339:ARG:O	1:E:340:SER:CB	2.12	0.97
1:E:465:TYR:OH	1:K:449:GLU:OE2	1.83	0.97
1:F:12:HIS:O	1:F:13:GLU:HB2	1.58	0.97
1:J:68:MET:HE3	1:J:88:ARG:CB	1.95	0.97
1:K:19:LEU:HD22	1:K:240:TYR:OH	1.63	0.97
1:A:449:GLU:OE2	1:G:465:TYR:OH	1.83	0.97
1:C:335:SER:O	1:C:336:ALA:HB3	1.60	0.97
1:D:54:ILE:CD1	1:D:102:ARG:NE	2.28	0.97
1:G:331:MET:CE	1:G:396:LEU:HD12	1.93	0.97
1:L:331:MET:CE	1:L:396:LEU:HD12	1.94	0.97
1:L:376:MET:CE	1:L:433:VAL:CG1	2.41	0.97
1:A:465:TYR:OH	1:G:449:GLU:OE2	1.83	0.96
1:B:65:MET:HE2	1:B:65:MET:C	1.89	0.96
1:I:339:ARG:O	1:I:340:SER:CB	2.12	0.96
1:J:54:ILE:CD1	1:J:102:ARG:NE	2.28	0.96
1:J:157:ALA:H	1:J:215:THR:HG22	1.24	0.96
1:B:19:LEU:HD22	1:B:240:TYR:OH	1.63	0.96
1:B:331:MET:CE	1:B:396:LEU:HD12	1.94	0.96
1:B:449:GLU:OE2	1:H:465:TYR:OH	1.83	0.96
1:L:19:LEU:HD22	1:L:240:TYR:OH	1.63	0.96
1:L:54:ILE:CD1	1:L:102:ARG:NE	2.28	0.96
1:L:157:ALA:H	1:L:215:THR:HG22	1.24	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:339:ARG:O	1:A:340:SER:CB	2.12	0.96
1:B:54:ILE:CD1	1:B:102:ARG:NE	2.28	0.96
1:C:27:LYS:NZ	1:C:239:LYS:NZ	1.79	0.96
1:E:465:TYR:CB	1:K:315:THR:HG1	1.74	0.96
1:L:65:MET:HE2	1:L:65:MET:C	1.89	0.96
1:A:89:CYS:SG	1:A:103:ASP:CA	2.52	0.96
1:D:15:LYS:CA	1:D:35:ALA:HB2	1.94	0.96
1:F:296:TYR:HB2	1:F:382:ILE:HA	1.44	0.96
1:F:449:GLU:OE2	1:L:465:TYR:OH	1.83	0.96
1:F:465:TYR:OH	1:L:449:GLU:OE2	1.83	0.96
1:G:54:ILE:CD1	1:G:102:ARG:HE	1.79	0.96
1:I:93:GLU:HB3	1:I:94:PRO:HD2	0.96	0.96
1:I:401:PRO:CA	1:I:405:LYS:HB3	1.96	0.96
1:B:465:TYR:OH	1:H:449:GLU:OE2	1.83	0.96
1:E:401:PRO:CA	1:E:405:LYS:HB3	1.96	0.96
1:G:93:GLU:CB	1:G:94:PRO:HD2	1.93	0.96
1:H:296:TYR:HB2	1:H:382:ILE:HA	1.44	0.96
1:I:68:MET:HE3	1:I:88:ARG:CB	1.95	0.96
1:J:15:LYS:CA	1:J:35:ALA:HB2	1.94	0.96
1:J:93:GLU:HB3	1:J:94:PRO:HD2	0.97	0.96
1:A:54:ILE:CD1	1:A:102:ARG:HE	1.79	0.96
1:A:93:GLU:CB	1:A:94:PRO:HD2	1.93	0.96
1:A:335:SER:O	1:A:336:ALA:HB3	1.59	0.96
1:C:157:ALA:H	1:C:215:THR:HG22	1.24	0.96
1:C:340:SER:HB2	1:C:395:ASN:OD1	1.66	0.96
1:G:68:MET:HE3	1:G:88:ARG:CB	1.95	0.96
1:G:89:CYS:SG	1:G:103:ASP:CA	2.52	0.96
1:G:335:SER:O	1:G:336:ALA:HB3	1.59	0.96
1:G:339:ARG:O	1:G:340:SER:CB	2.12	0.96
1:I:407:ILE:HD13	1:I:408:PRO:CD	1.96	0.96
1:J:401:PRO:CA	1:J:405:LYS:HB3	1.96	0.96
1:K:340:SER:HB2	1:K:395:ASN:OD1	1.66	0.96
1:A:68:MET:HE3	1:A:88:ARG:CB	1.95	0.96
1:A:315:THR:HG21	1:G:465:TYR:HD2	1.01	0.96
1:B:405:LYS:HE3	1:B:406:GLU:HB2	1.47	0.96
1:D:401:PRO:CA	1:D:405:LYS:HB3	1.96	0.96
1:D:465:TYR:OH	1:J:449:GLU:OE2	1.83	0.96
1:E:68:MET:HE3	1:E:88:ARG:CB	1.95	0.96
1:F:54:ILE:CD1	1:F:102:ARG:HE	1.79	0.96
1:J:90:ASP:O	1:J:91:ILE:C	2.07	0.96
1:J:340:SER:HB2	1:J:395:ASN:OD1	1.66	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:465:TYR:HD2	1:G:315:THR:HG21	1.01	0.96
1:D:340:SER:HB2	1:D:395:ASN:OD1	1.66	0.96
1:D:449:GLU:OE2	1:J:465:TYR:OH	1.83	0.96
1:E:93:GLU:HB3	1:E:94:PRO:HD2	0.96	0.96
1:E:407:ILE:HD13	1:E:408:PRO:CD	1.96	0.96
1:H:376:MET:CE	1:H:433:VAL:CG1	2.41	0.96
1:L:54:ILE:CD1	1:L:102:ARG:HE	1.79	0.96
1:B:340:SER:HB2	1:B:395:ASN:OD1	1.66	0.96
1:B:360:PHE:H	1:B:361:PRO:HD2	1.29	0.96
1:D:93:GLU:HB3	1:D:94:PRO:HD2	0.96	0.96
1:E:1:SER:O	1:E:4:HIS:HB3	1.66	0.96
1:G:54:ILE:CD1	1:G:102:ARG:NE	2.28	0.96
1:H:54:ILE:CD1	1:H:102:ARG:HE	1.79	0.96
1:I:1:SER:O	1:I:4:HIS:HB3	1.66	0.96
1:L:360:PHE:H	1:L:361:PRO:HD2	1.30	0.96
1:A:54:ILE:CD1	1:A:102:ARG:NE	2.28	0.96
1:B:1:SER:O	1:B:4:HIS:HB3	1.66	0.96
1:B:15:LYS:HA	1:B:35:ALA:CB	1.96	0.96
1:C:1:SER:O	1:C:4:HIS:HB3	1.66	0.96
1:C:15:LYS:CA	1:C:35:ALA:HB2	1.94	0.96
1:E:376:MET:CE	1:E:433:VAL:CG1	2.41	0.96
1:F:88:ARG:HH21	1:F:109:LYS:HZ2	0.96	0.96
1:H:405:LYS:HE3	1:H:406:GLU:HB2	1.47	0.96
1:K:1:SER:O	1:K:4:HIS:HB3	1.66	0.96
1:K:157:ALA:H	1:K:215:THR:HG22	1.25	0.96
1:K:339:ARG:C	1:K:341:ALA:H	1.57	0.96
1:L:340:SER:HB2	1:L:395:ASN:OD1	1.66	0.96
1:C:339:ARG:C	1:C:341:ALA:H	1.57	0.95
1:D:19:LEU:CD2	1:D:240:TYR:CZ	2.49	0.95
1:G:90:ASP:O	1:G:91:ILE:C	2.07	0.95
1:J:407:ILE:HD13	1:J:408:PRO:CD	1.95	0.95
1:K:15:LYS:CA	1:K:35:ALA:HB2	1.94	0.95
1:L:405:LYS:HE3	1:L:406:GLU:HB2	1.47	0.95
1:L:405:LYS:HG3	1:L:406:GLU:H	1.31	0.95
1:A:108:ALA:O	1:A:111:ALA:HB3	1.66	0.95
1:B:54:ILE:CD1	1:B:102:ARG:HE	1.79	0.95
1:B:405:LYS:HG3	1:B:406:GLU:H	1.31	0.95
1:D:90:ASP:O	1:D:91:ILE:C	2.07	0.95
1:D:93:GLU:CB	1:D:94:PRO:HD2	1.93	0.95
1:D:407:ILE:HD13	1:D:408:PRO:CD	1.96	0.95
1:E:19:LEU:CD2	1:E:240:TYR:CZ	2.49	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:15:LYS:CA	1:H:35:ALA:HB2	1.94	0.95
1:H:154:ILE:O	1:H:155:GLU:HB2	1.65	0.95
1:L:15:LYS:HA	1:L:35:ALA:CB	1.96	0.95
1:L:93:GLU:HB3	1:L:94:PRO:HD2	0.96	0.95
1:A:15:LYS:HA	1:A:35:ALA:CB	1.96	0.95
1:B:93:GLU:HB3	1:B:94:PRO:HD2	0.96	0.95
1:B:108:ALA:O	1:B:111:ALA:HB3	1.67	0.95
1:E:54:ILE:CD1	1:E:102:ARG:NE	2.28	0.95
1:F:405:LYS:HE3	1:F:406:GLU:HB2	1.47	0.95
1:G:65:MET:HE2	1:G:65:MET:C	1.89	0.95
1:H:88:ARG:HH21	1:H:109:LYS:HZ2	0.95	0.95
1:I:340:SER:HB2	1:I:395:ASN:OD1	1.66	0.95
1:L:1:SER:O	1:L:4:HIS:HB3	1.66	0.95
1:A:1:SER:O	1:A:4:HIS:HB3	1.66	0.95
1:A:19:LEU:O	1:A:19:LEU:HG	1.10	0.95
1:A:65:MET:HE2	1:A:65:MET:C	1.89	0.95
1:A:90:ASP:O	1:A:91:ILE:C	2.07	0.95
1:A:93:GLU:HB3	1:A:94:PRO:HD2	0.96	0.95
1:A:405:LYS:HG3	1:A:406:GLU:H	1.31	0.95
1:A:407:ILE:HD13	1:A:408:PRO:CD	1.96	0.95
1:C:405:LYS:HG3	1:C:406:GLU:H	1.31	0.95
1:D:1:SER:O	1:D:4:HIS:HB3	1.66	0.95
1:E:340:SER:HB2	1:E:395:ASN:OD1	1.66	0.95
1:F:154:ILE:O	1:F:155:GLU:HB2	1.66	0.95
1:F:376:MET:CE	1:F:433:VAL:CG1	2.41	0.95
1:G:93:GLU:HB3	1:G:94:PRO:HD2	0.96	0.95
1:G:108:ALA:O	1:G:111:ALA:HB3	1.67	0.95
1:G:407:ILE:HD13	1:G:408:PRO:CD	1.96	0.95
1:H:93:GLU:HB3	1:H:94:PRO:HD2	0.97	0.95
1:J:19:LEU:CD2	1:J:240:TYR:CZ	2.50	0.95
1:J:68:MET:CE	1:J:105:ARG:CD	2.41	0.95
1:J:93:GLU:CB	1:J:94:PRO:HD2	1.93	0.95
1:L:19:LEU:C	1:L:19:LEU:HD12	1.92	0.95
1:L:108:ALA:O	1:L:111:ALA:HB3	1.67	0.95
1:A:360:PHE:H	1:A:361:PRO:HD2	1.30	0.95
1:A:376:MET:CE	1:A:433:VAL:CG1	2.41	0.95
1:B:19:LEU:C	1:B:19:LEU:HD12	1.92	0.95
1:D:25:LYS:CG	1:D:54:ILE:HD12	1.97	0.95
1:D:68:MET:CE	1:D:105:ARG:CD	2.41	0.95
1:D:403:GLU:HA	1:D:405:LYS:HG3	1.49	0.95
1:E:15:LYS:CA	1:E:35:ALA:HB2	1.94	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:465:TYR:HD2	1:K:315:THR:HG21	1.01	0.95
1:F:15:LYS:CA	1:F:35:ALA:HB2	1.94	0.95
1:F:19:LEU:CD2	1:F:240:TYR:CZ	2.50	0.95
1:G:1:SER:O	1:G:4:HIS:HB3	1.66	0.95
1:G:15:LYS:HA	1:G:35:ALA:CB	1.96	0.95
1:H:54:ILE:CD1	1:H:102:ARG:NE	2.28	0.95
1:I:19:LEU:CD2	1:I:240:TYR:CZ	2.50	0.95
1:I:54:ILE:CD1	1:I:102:ARG:NE	2.28	0.95
1:I:89:CYS:CB	1:I:103:ASP:OD2	2.15	0.95
1:J:1:SER:O	1:J:4:HIS:HB3	1.66	0.95
1:L:404:ALA:O	1:L:407:ILE:HG22	1.67	0.95
1:C:315:THR:HG21	1:I:465:TYR:HD2	1.01	0.95
1:E:89:CYS:CB	1:E:103:ASP:OD2	2.15	0.95
1:F:54:ILE:CD1	1:F:102:ARG:NE	2.28	0.95
1:F:93:GLU:HB3	1:F:94:PRO:HD2	0.96	0.95
1:G:405:LYS:HG3	1:G:406:GLU:H	1.31	0.95
1:H:19:LEU:C	1:H:19:LEU:HD12	1.92	0.95
1:H:108:ALA:O	1:H:111:ALA:HB3	1.67	0.95
1:I:376:MET:CE	1:I:433:VAL:CG1	2.41	0.95
1:J:25:LYS:CG	1:J:54:ILE:HD12	1.97	0.95
1:K:68:MET:HE3	1:K:88:ARG:CB	1.95	0.95
1:K:401:PRO:CA	1:K:405:LYS:HB3	1.96	0.95
1:A:403:GLU:HA	1:A:405:LYS:HG3	1.49	0.95
1:B:68:MET:HE3	1:B:88:ARG:CB	1.95	0.95
1:D:68:MET:N	1:D:69:PRO:HD3	1.82	0.95
1:D:339:ARG:O	1:D:340:SER:CB	2.12	0.95
1:E:108:ALA:O	1:E:111:ALA:HB3	1.66	0.95
1:F:407:ILE:HD13	1:F:408:PRO:CD	1.96	0.95
1:H:19:LEU:CD2	1:H:240:TYR:CZ	2.50	0.95
1:I:15:LYS:CA	1:I:35:ALA:HB2	1.94	0.95
1:I:108:ALA:O	1:I:111:ALA:HB3	1.66	0.95
1:I:360:PHE:H	1:I:361:PRO:HD2	1.30	0.95
1:K:405:LYS:HG3	1:K:406:GLU:H	1.31	0.95
1:L:68:MET:HE3	1:L:88:ARG:CB	1.95	0.95
1:C:71:ALA:HB3	1:C:86:ILE:HG12	1.49	0.95
1:C:360:PHE:H	1:C:361:PRO:HD2	1.30	0.95
1:E:78:PRO:HB3	1:E:79:PHE:HE2	1.32	0.95
1:E:154:ILE:O	1:E:155:GLU:HB2	1.65	0.95
1:E:360:PHE:H	1:E:361:PRO:HD2	1.30	0.95
1:F:19:LEU:C	1:F:19:LEU:HD12	1.92	0.95
1:F:108:ALA:O	1:F:111:ALA:HB3	1.66	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:360:PHE:H	1:G:361:PRO:HD2	1.30	0.95
1:H:407:ILE:HD13	1:H:408:PRO:CD	1.96	0.95
1:I:78:PRO:HB3	1:I:79:PHE:HE2	1.32	0.95
1:J:68:MET:N	1:J:69:PRO:HD3	1.82	0.95
1:L:407:ILE:HD13	1:L:408:PRO:CD	1.96	0.95
1:B:404:ALA:O	1:B:407:ILE:HG22	1.67	0.95
1:B:407:ILE:HD13	1:B:408:PRO:CD	1.96	0.95
1:C:25:LYS:CG	1:C:54:ILE:HD12	1.97	0.95
1:C:68:MET:HE3	1:C:88:ARG:CB	1.95	0.95
1:E:19:LEU:C	1:E:19:LEU:HD12	1.92	0.95
1:E:54:ILE:CD1	1:E:102:ARG:HE	1.79	0.95
1:F:68:MET:HE3	1:F:88:ARG:CB	1.95	0.95
1:F:340:SER:HB2	1:F:395:ASN:OD1	1.66	0.95
1:H:15:LYS:HA	1:H:35:ALA:CB	1.96	0.95
1:J:339:ARG:O	1:J:340:SER:CB	2.12	0.95
1:K:71:ALA:HB3	1:K:86:ILE:HG12	1.49	0.95
1:K:405:LYS:HE3	1:K:406:GLU:HB2	1.47	0.95
1:B:339:ARG:O	1:B:340:SER:CB	2.12	0.95
1:D:315:THR:HG1	1:J:465:TYR:CB	1.78	0.95
1:E:68:MET:CE	1:E:105:ARG:CD	2.41	0.95
1:G:379:LEU:HA	1:G:382:ILE:HB	1.49	0.95
1:A:19:LEU:C	1:A:19:LEU:HD12	1.92	0.94
1:A:379:LEU:HA	1:A:382:ILE:HB	1.49	0.94
1:B:296:TYR:HB2	1:B:382:ILE:HA	1.44	0.94
1:C:405:LYS:HE3	1:C:406:GLU:HB2	1.47	0.94
1:H:68:MET:HE3	1:H:88:ARG:CB	1.95	0.94
1:I:19:LEU:C	1:I:19:LEU:HD12	1.92	0.94
1:I:54:ILE:CD1	1:I:102:ARG:HE	1.79	0.94
1:I:154:ILE:O	1:I:155:GLU:HB2	1.66	0.94
1:I:405:LYS:HE3	1:I:406:GLU:HB2	1.46	0.94
1:K:25:LYS:CG	1:K:54:ILE:HD12	1.97	0.94
1:A:405:LYS:HE3	1:A:406:GLU:HB2	1.47	0.94
1:B:93:GLU:O	1:B:96:THR:HG22	1.68	0.94
1:B:401:PRO:CA	1:B:405:LYS:HB3	1.96	0.94
1:C:54:ILE:CD1	1:C:102:ARG:HE	1.79	0.94
1:D:465:TYR:CB	1:J:315:THR:HG1	1.78	0.94
1:G:19:LEU:O	1:G:19:LEU:HG	1.10	0.94
1:G:403:GLU:HA	1:G:405:LYS:HG3	1.49	0.94
1:H:340:SER:HB2	1:H:395:ASN:OD1	1.66	0.94
1:I:68:MET:CE	1:I:105:ARG:CD	2.41	0.94
1:J:403:GLU:HA	1:J:405:LYS:HG3	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:154:ILE:O	1:K:155:GLU:HB2	1.65	0.94
1:L:89:CYS:CB	1:L:103:ASP:OD2	2.15	0.94
1:B:89:CYS:CB	1:B:103:ASP:OD2	2.15	0.94
1:C:88:ARG:HH21	1:C:109:LYS:HZ2	0.96	0.94
1:C:108:ALA:O	1:C:111:ALA:HB3	1.67	0.94
1:D:54:ILE:CD1	1:D:102:ARG:HE	1.79	0.94
1:D:404:ALA:O	1:D:407:ILE:HG22	1.67	0.94
1:D:405:LYS:HE3	1:D:406:GLU:HB2	1.47	0.94
1:G:19:LEU:HD12	1:G:19:LEU:C	1.92	0.94
1:H:1:SER:O	1:H:4:HIS:HB3	1.66	0.94
1:J:404:ALA:O	1:J:407:ILE:HG22	1.67	0.94
1:J:405:LYS:HE3	1:J:406:GLU:HB2	1.47	0.94
1:K:93:GLU:O	1:K:96:THR:HG22	1.67	0.94
1:K:182:VAL:CG1	1:L:28:GLU:CG	2.46	0.94
1:L:88:ARG:HH21	1:L:109:LYS:HZ2	0.95	0.94
1:L:339:ARG:O	1:L:340:SER:CB	2.12	0.94
1:B:28:GLU:CG	1:C:182:VAL:CG1	2.46	0.94
1:C:90:ASP:O	1:C:91:ILE:C	2.07	0.94
1:C:339:ARG:O	1:C:340:SER:CB	2.12	0.94
1:D:19:LEU:C	1:D:19:LEU:HD12	1.92	0.94
1:F:1:SER:O	1:F:4:HIS:HB3	1.66	0.94
1:G:340:SER:HB2	1:G:395:ASN:OD1	1.66	0.94
1:H:89:CYS:CB	1:H:103:ASP:OD2	2.15	0.94
1:I:404:ALA:O	1:I:407:ILE:HG22	1.67	0.94
1:J:54:ILE:CD1	1:J:102:ARG:HE	1.79	0.94
1:L:93:GLU:O	1:L:96:THR:HG22	1.68	0.94
1:L:296:TYR:HB2	1:L:382:ILE:HA	1.44	0.94
1:B:71:ALA:HB3	1:B:86:ILE:HG12	1.49	0.94
1:C:154:ILE:O	1:C:155:GLU:HB2	1.66	0.94
1:E:404:ALA:O	1:E:407:ILE:HG22	1.67	0.94
1:K:54:ILE:CD1	1:K:102:ARG:HE	1.79	0.94
1:K:88:ARG:HH21	1:K:109:LYS:HZ2	0.95	0.94
1:K:90:ASP:O	1:K:91:ILE:C	2.07	0.94
1:K:108:ALA:O	1:K:111:ALA:HB3	1.67	0.94
1:L:71:ALA:HB3	1:L:86:ILE:HG12	1.49	0.94
1:L:403:GLU:HA	1:L:405:LYS:HG3	1.49	0.94
1:A:93:GLU:O	1:A:96:THR:HG22	1.68	0.94
1:A:340:SER:HB2	1:A:395:ASN:OD1	1.66	0.94
1:B:403:GLU:HA	1:B:405:LYS:HG3	1.49	0.94
1:C:19:LEU:CD2	1:C:240:TYR:CZ	2.50	0.94
1:C:28:GLU:CG	1:D:182:VAL:CG1	2.46	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:93:GLU:O	1:C:96:THR:HG22	1.67	0.94
1:C:407:ILE:HD13	1:C:408:PRO:CD	1.96	0.94
1:D:18:ASP:HA	1:D:21:PHE:CE2	2.03	0.94
1:D:28:GLU:CG	1:E:182:VAL:CG1	2.46	0.94
1:D:376:MET:CE	1:D:433:VAL:CG1	2.41	0.94
1:E:405:LYS:HE3	1:E:406:GLU:HB2	1.47	0.94
1:F:89:CYS:CB	1:F:103:ASP:OD2	2.15	0.94
1:G:93:GLU:O	1:G:96:THR:HG22	1.68	0.94
1:G:401:PRO:CA	1:G:405:LYS:HB3	1.96	0.94
1:H:182:VAL:CG1	1:I:28:GLU:CG	2.46	0.94
1:I:25:LYS:CG	1:I:54:ILE:HD12	1.97	0.94
1:J:19:LEU:C	1:J:19:LEU:HD12	1.92	0.94
1:J:182:VAL:CG1	1:K:28:GLU:CG	2.46	0.94
1:A:401:PRO:CA	1:A:405:LYS:HB3	1.96	0.94
1:B:19:LEU:CD2	1:B:240:TYR:CZ	2.49	0.94
1:C:404:ALA:O	1:C:407:ILE:HG22	1.67	0.94
1:E:25:LYS:CG	1:E:54:ILE:HD12	1.97	0.94
1:E:28:GLU:CG	1:F:182:VAL:CG1	2.46	0.94
1:E:71:ALA:HB3	1:E:86:ILE:CG1	1.98	0.94
1:E:93:GLU:O	1:E:96:THR:HG22	1.68	0.94
1:G:19:LEU:CD2	1:G:240:TYR:CZ	2.49	0.94
1:G:71:ALA:HB3	1:G:86:ILE:CG1	1.98	0.94
1:G:405:LYS:HE3	1:G:406:GLU:HB2	1.47	0.94
1:H:71:ALA:HB3	1:H:86:ILE:CG1	1.98	0.94
1:I:71:ALA:HB3	1:I:86:ILE:CG1	1.98	0.94
1:K:404:ALA:O	1:K:407:ILE:HG22	1.67	0.94
1:K:407:ILE:HD13	1:K:408:PRO:CD	1.96	0.94
1:L:19:LEU:CD2	1:L:240:TYR:CZ	2.50	0.94
1:A:19:LEU:CD2	1:A:240:TYR:CZ	2.50	0.94
1:A:28:GLU:CG	1:B:182:VAL:CG1	2.46	0.94
1:A:71:ALA:HB3	1:A:86:ILE:CG1	1.98	0.94
1:B:154:ILE:O	1:B:155:GLU:HB2	1.65	0.94
1:E:68:MET:N	1:E:69:PRO:HD3	1.82	0.94
1:E:449:GLU:OE2	1:K:465:TYR:OH	1.83	0.94
1:F:71:ALA:HB3	1:F:86:ILE:CG1	1.98	0.94
1:F:93:GLU:O	1:F:96:THR:HG22	1.68	0.94
1:F:360:PHE:H	1:F:361:PRO:HD2	1.30	0.94
1:F:404:ALA:O	1:F:407:ILE:HG22	1.67	0.94
1:H:93:GLU:O	1:H:96:THR:HG22	1.67	0.94
1:I:182:VAL:CG1	1:J:28:GLU:CG	2.46	0.94
1:J:18:ASP:HA	1:J:21:PHE:CE2	2.03	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:71:ALA:HB3	1:J:86:ILE:CG1	1.98	0.94
1:K:15:LYS:HA	1:K:35:ALA:CB	1.96	0.94
1:K:19:LEU:CD2	1:K:240:TYR:CZ	2.50	0.94
1:K:93:GLU:HB3	1:K:94:PRO:HD2	0.96	0.94
1:K:339:ARG:O	1:K:340:SER:CB	2.12	0.94
1:K:360:PHE:H	1:K:361:PRO:HD2	1.30	0.94
1:A:18:ASP:HA	1:A:21:PHE:CE2	2.03	0.94
1:C:93:GLU:HB3	1:C:94:PRO:HD2	0.96	0.94
1:E:88:ARG:HH21	1:E:109:LYS:HZ2	0.95	0.94
1:E:93:GLU:CB	1:E:94:PRO:HD2	1.93	0.94
1:F:379:LEU:HA	1:F:382:ILE:HB	1.49	0.94
1:F:405:LYS:HG3	1:F:406:GLU:H	1.31	0.94
1:H:360:PHE:H	1:H:361:PRO:HD2	1.29	0.94
1:I:93:GLU:O	1:I:96:THR:HG22	1.68	0.94
1:J:376:MET:CE	1:J:433:VAL:CG1	2.41	0.94
1:K:89:CYS:CB	1:K:103:ASP:OD2	2.15	0.94
1:L:379:LEU:HA	1:L:382:ILE:HB	1.49	0.94
1:A:25:LYS:CG	1:A:54:ILE:HD12	1.97	0.94
1:A:339:ARG:O	1:A:340:SER:HB3	1.68	0.94
1:C:19:LEU:C	1:C:19:LEU:HD12	1.92	0.94
1:C:89:CYS:CB	1:C:103:ASP:OD2	2.15	0.94
1:C:401:PRO:CA	1:C:405:LYS:HB3	1.96	0.94
1:C:465:TYR:OH	1:I:449:GLU:OE2	1.83	0.94
1:D:28:GLU:HG3	1:E:182:VAL:CG1	1.98	0.94
1:D:89:CYS:CB	1:D:103:ASP:OD2	2.15	0.94
1:G:25:LYS:CG	1:G:54:ILE:HD12	1.97	0.94
1:G:28:GLU:CG	1:L:182:VAL:CG1	2.46	0.94
1:G:339:ARG:O	1:G:340:SER:HB3	1.68	0.94
1:H:78:PRO:HB3	1:H:79:PHE:HE2	1.32	0.94
1:I:68:MET:N	1:I:69:PRO:HD3	1.82	0.94
1:J:71:ALA:HB3	1:J:86:ILE:HG12	1.49	0.94
1:J:108:ALA:O	1:J:111:ALA:HB3	1.67	0.94
1:L:18:ASP:HA	1:L:21:PHE:CE2	2.03	0.94
1:L:68:MET:HE1	1:L:105:ARG:HD3	1.50	0.94
1:B:18:ASP:HA	1:B:21:PHE:CE2	2.03	0.93
1:C:68:MET:CE	1:C:105:ARG:CD	2.41	0.93
1:D:19:LEU:O	1:D:19:LEU:HG	1.10	0.93
1:D:71:ALA:HB3	1:D:86:ILE:CG1	1.98	0.93
1:D:71:ALA:HB3	1:D:86:ILE:HG12	1.49	0.93
1:G:18:ASP:HA	1:G:21:PHE:CE2	2.03	0.93
1:G:182:VAL:CG1	1:H:28:GLU:CG	2.46	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:379:LEU:HA	1:H:382:ILE:HB	1.49	0.93
1:I:93:GLU:CB	1:I:94:PRO:HD2	1.93	0.93
1:I:403:GLU:HA	1:I:405:LYS:HG3	1.49	0.93
1:J:89:CYS:CB	1:J:103:ASP:OD2	2.15	0.93
1:L:154:ILE:O	1:L:155:GLU:HB2	1.66	0.93
1:C:15:LYS:HA	1:C:35:ALA:CB	1.96	0.93
1:C:28:GLU:HG3	1:D:182:VAL:CG1	1.97	0.93
1:D:108:ALA:O	1:D:111:ALA:HB3	1.67	0.93
1:E:68:MET:HE1	1:E:105:ARG:HD3	1.50	0.93
1:F:78:PRO:HB3	1:F:79:PHE:HE2	1.32	0.93
1:H:404:ALA:O	1:H:407:ILE:HG22	1.67	0.93
1:I:182:VAL:CG1	1:J:28:GLU:HG3	1.98	0.93
1:K:19:LEU:HD12	1:K:19:LEU:C	1.92	0.93
1:K:68:MET:N	1:K:69:PRO:HD3	1.82	0.93
1:A:182:VAL:CG1	1:F:28:GLU:CG	2.46	0.93
1:C:68:MET:N	1:C:69:PRO:HD3	1.82	0.93
1:C:109:LYS:O	1:C:110:ARG:C	2.11	0.93
1:D:379:LEU:HA	1:D:382:ILE:HB	1.49	0.93
1:F:19:LEU:O	1:F:19:LEU:HG	1.10	0.93
1:F:25:LYS:CG	1:F:54:ILE:HD12	1.97	0.93
1:H:405:LYS:HG3	1:H:406:GLU:H	1.31	0.93
1:J:15:LYS:O	1:J:16:PHE:HB2	1.68	0.93
1:J:379:LEU:HA	1:J:382:ILE:HB	1.49	0.93
1:K:109:LYS:O	1:K:110:ARG:C	2.11	0.93
1:A:315:THR:HG1	1:G:465:TYR:CB	1.76	0.93
1:B:109:LYS:O	1:B:110:ARG:C	2.11	0.93
1:B:379:LEU:HA	1:B:382:ILE:HB	1.50	0.93
1:H:347:VAL:HG22	1:H:348:VAL:N	1.83	0.93
1:I:18:ASP:HA	1:I:21:PHE:CE2	2.03	0.93
1:A:383:LYS:HE3	1:A:384:ASN:H	1.34	0.93
1:B:68:MET:HE1	1:B:105:ARG:HD3	1.50	0.93
1:D:78:PRO:HB3	1:D:79:PHE:HE2	1.32	0.93
1:E:18:ASP:HA	1:E:21:PHE:CE2	2.03	0.93
1:E:403:GLU:HA	1:E:405:LYS:HG3	1.49	0.93
1:H:25:LYS:CG	1:H:54:ILE:HD12	1.97	0.93
1:H:71:ALA:O	1:H:86:ILE:CD1	2.17	0.93
1:I:68:MET:HE1	1:I:105:ARG:HD3	1.50	0.93
1:J:96:THR:O	1:J:97:LEU:HG	1.69	0.93
1:J:109:LYS:O	1:J:110:ARG:C	2.11	0.93
1:K:68:MET:CE	1:K:105:ARG:CD	2.41	0.93
1:L:71:ALA:HB3	1:L:86:ILE:CG1	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:109:LYS:O	1:L:110:ARG:C	2.11	0.93
1:A:109:LYS:O	1:A:110:ARG:C	2.11	0.93
1:B:71:ALA:HB3	1:B:86:ILE:CG1	1.98	0.93
1:D:15:LYS:O	1:D:16:PHE:HB2	1.68	0.93
1:D:109:LYS:O	1:D:110:ARG:C	2.11	0.93
1:F:71:ALA:O	1:F:86:ILE:CD1	2.17	0.93
1:F:96:THR:O	1:F:97:LEU:HG	1.69	0.93
1:F:347:VAL:HG22	1:F:348:VAL:N	1.84	0.93
1:G:28:GLU:HG3	1:L:182:VAL:CG1	1.98	0.93
1:G:109:LYS:O	1:G:110:ARG:C	2.11	0.93
1:G:383:LYS:HE3	1:G:384:ASN:H	1.34	0.93
1:I:88:ARG:HH21	1:I:109:LYS:HZ2	0.94	0.93
1:J:19:LEU:O	1:J:19:LEU:HG	1.10	0.93
1:J:182:VAL:CG1	1:K:28:GLU:HG3	1.98	0.93
1:K:182:VAL:CG1	1:L:28:GLU:HG3	1.98	0.93
1:A:28:GLU:HG3	1:B:182:VAL:CG1	1.98	0.93
1:A:71:ALA:O	1:A:86:ILE:CD1	2.17	0.93
1:A:89:CYS:CB	1:A:103:ASP:OD2	2.15	0.93
1:D:405:LYS:HG3	1:D:406:GLU:H	1.31	0.93
1:E:405:LYS:HG3	1:E:406:GLU:H	1.31	0.93
1:G:71:ALA:O	1:G:86:ILE:CD1	2.17	0.93
1:H:96:THR:O	1:H:97:LEU:HG	1.69	0.93
1:H:182:VAL:CG1	1:I:28:GLU:HG3	1.98	0.93
1:I:71:ALA:O	1:I:86:ILE:CD1	2.17	0.93
1:B:25:LYS:CG	1:B:54:ILE:HD12	1.97	0.93
1:D:65:MET:CB	1:D:67:LEU:HD23	1.99	0.93
1:D:96:THR:O	1:D:97:LEU:HG	1.69	0.93
1:E:15:LYS:HA	1:E:35:ALA:CB	1.96	0.93
1:E:28:GLU:HG3	1:F:182:VAL:CG1	1.98	0.93
1:I:15:LYS:HA	1:I:35:ALA:CB	1.96	0.93
1:J:65:MET:CB	1:J:67:LEU:HD23	1.99	0.93
1:J:78:PRO:HB3	1:J:79:PHE:HE2	1.32	0.93
1:L:25:LYS:CG	1:L:54:ILE:HD12	1.97	0.93
1:A:182:VAL:CG1	1:F:28:GLU:HG3	1.98	0.93
1:C:18:ASP:HA	1:C:21:PHE:CE2	2.03	0.93
1:C:71:ALA:HB3	1:C:86:ILE:CG1	1.98	0.93
1:E:71:ALA:O	1:E:86:ILE:CD1	2.17	0.93
1:E:383:LYS:HE3	1:E:384:ASN:H	1.34	0.93
1:G:89:CYS:CB	1:G:103:ASP:OD2	2.15	0.93
1:G:182:VAL:CG1	1:H:28:GLU:HG3	1.98	0.93
1:H:19:LEU:O	1:H:19:LEU:HG	1.10	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:383:LYS:HE3	1:I:384:ASN:H	1.34	0.93
1:G:404:ALA:O	1:G:407:ILE:HG22	1.67	0.93
1:J:71:ALA:O	1:J:86:ILE:CD1	2.17	0.93
1:J:405:LYS:HG3	1:J:406:GLU:H	1.31	0.93
1:K:88:ARG:O	1:K:89:CYS:O	1.87	0.93
1:B:28:GLU:HG3	1:C:182:VAL:CG1	1.98	0.92
1:C:88:ARG:O	1:C:89:CYS:O	1.87	0.92
1:C:403:GLU:HA	1:C:405:LYS:HG3	1.49	0.92
1:C:465:TYR:CB	1:I:315:THR:HG1	1.78	0.92
1:D:71:ALA:O	1:D:86:ILE:CD1	2.17	0.92
1:F:71:ALA:HB3	1:F:86:ILE:HG12	1.49	0.92
1:F:93:GLU:CB	1:F:94:PRO:HD2	1.93	0.92
1:F:403:GLU:HA	1:F:405:LYS:HG3	1.49	0.92
1:I:379:LEU:HA	1:I:382:ILE:HB	1.49	0.92
1:K:71:ALA:HB3	1:K:86:ILE:CG1	1.98	0.92
1:K:383:LYS:HE3	1:K:384:ASN:H	1.34	0.92
1:A:347:VAL:HG22	1:A:348:VAL:N	1.83	0.92
1:C:347:VAL:HG22	1:C:348:VAL:N	1.83	0.92
1:C:383:LYS:HE3	1:C:384:ASN:H	1.34	0.92
1:E:339:ARG:O	1:E:340:SER:HB3	1.68	0.92
1:H:93:GLU:CB	1:H:94:PRO:HD2	1.93	0.92
1:H:339:ARG:N	1:I:58:LYS:HG3	1.84	0.92
1:K:18:ASP:HA	1:K:21:PHE:CE2	2.03	0.92
1:B:339:ARG:O	1:B:340:SER:HB3	1.68	0.92
1:B:347:VAL:HG22	1:B:348:VAL:N	1.83	0.92
1:G:347:VAL:HG22	1:G:348:VAL:N	1.83	0.92
1:J:88:ARG:O	1:J:89:CYS:O	1.87	0.92
1:L:401:PRO:CA	1:L:405:LYS:HB3	1.96	0.92
1:A:404:ALA:O	1:A:407:ILE:HG22	1.67	0.92
1:B:71:ALA:O	1:B:86:ILE:CD1	2.17	0.92
1:B:88:ARG:O	1:B:89:CYS:O	1.87	0.92
1:D:58:LYS:HG3	1:E:339:ARG:N	1.84	0.92
1:D:88:ARG:O	1:D:89:CYS:O	1.87	0.92
1:E:379:LEU:HA	1:E:382:ILE:HB	1.49	0.92
1:F:18:ASP:HA	1:F:21:PHE:CE2	2.03	0.92
1:F:339:ARG:N	1:F:339:ARG:NH1	2.18	0.92
1:G:71:ALA:HB3	1:G:86:ILE:HG12	1.49	0.92
1:H:71:ALA:HB3	1:H:86:ILE:HG12	1.49	0.92
1:H:339:ARG:O	1:H:340:SER:HB3	1.67	0.92
1:I:339:ARG:O	1:I:340:SER:HB3	1.68	0.92
1:I:339:ARG:N	1:J:58:LYS:HG3	1.84	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:27:LYS:NZ	1:J:239:LYS:NZ	1.79	0.92
1:A:71:ALA:HB3	1:A:86:ILE:HG12	1.49	0.92
1:E:58:LYS:HG3	1:F:339:ARG:N	1.84	0.92
1:H:339:ARG:N	1:H:339:ARG:NH1	2.18	0.92
1:I:347:VAL:HG22	1:I:348:VAL:N	1.83	0.92
1:J:15:LYS:HA	1:J:35:ALA:CB	1.96	0.92
1:L:71:ALA:O	1:L:86:ILE:CD1	2.17	0.92
1:L:339:ARG:O	1:L:340:SER:HB3	1.68	0.92
1:A:154:ILE:O	1:A:155:GLU:HB2	1.66	0.92
1:B:68:MET:N	1:B:69:PRO:HD3	1.82	0.92
1:B:383:LYS:HE3	1:B:384:ASN:H	1.34	0.92
1:E:65:MET:CB	1:E:67:LEU:HD23	1.99	0.92
1:E:347:VAL:HG22	1:E:348:VAL:N	1.83	0.92
1:H:18:ASP:HA	1:H:21:PHE:CE2	2.03	0.92
1:H:403:GLU:HA	1:H:405:LYS:HG3	1.49	0.92
1:I:65:MET:CB	1:I:67:LEU:HD23	1.99	0.92
1:I:405:LYS:HG3	1:I:406:GLU:H	1.31	0.92
1:K:15:LYS:O	1:K:16:PHE:HB2	1.68	0.92
1:K:403:GLU:HA	1:K:405:LYS:HG3	1.49	0.92
1:L:88:ARG:O	1:L:89:CYS:O	1.87	0.92
1:L:347:VAL:HG22	1:L:348:VAL:N	1.83	0.92
1:A:339:ARG:NH1	1:A:339:ARG:N	2.18	0.92
1:C:379:LEU:HA	1:C:382:ILE:HB	1.50	0.92
1:D:15:LYS:HA	1:D:35:ALA:CB	1.96	0.92
1:E:339:ARG:N	1:E:339:ARG:NH1	2.18	0.92
1:F:401:PRO:CA	1:F:405:LYS:HB3	1.96	0.92
1:G:339:ARG:N	1:G:339:ARG:NH1	2.18	0.92
1:I:71:ALA:HB3	1:I:86:ILE:HG12	1.49	0.92
1:J:93:GLU:O	1:J:96:THR:HG22	1.68	0.92
1:J:339:ARG:N	1:K:58:LYS:HG3	1.84	0.92
1:K:71:ALA:O	1:K:86:ILE:CD1	2.17	0.92
1:K:347:VAL:HG22	1:K:348:VAL:N	1.83	0.92
1:K:379:LEU:HA	1:K:382:ILE:HB	1.49	0.92
1:L:90:ASP:O	1:L:91:ILE:C	2.07	0.92
1:L:93:GLU:CB	1:L:94:PRO:HD2	1.93	0.92
1:C:15:LYS:O	1:C:16:PHE:HB2	1.68	0.92
1:C:71:ALA:O	1:C:86:ILE:CD1	2.17	0.92
1:D:93:GLU:O	1:D:96:THR:HG22	1.68	0.92
1:E:71:ALA:HB3	1:E:86:ILE:HG12	1.49	0.92
1:F:339:ARG:O	1:F:340:SER:HB3	1.68	0.92
1:A:465:TYR:CB	1:G:315:THR:HG1	1.76	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:90:ASP:O	1:B:91:ILE:C	2.07	0.92
1:F:109:LYS:O	1:F:110:ARG:C	2.11	0.92
1:I:339:ARG:N	1:I:339:ARG:NH1	2.18	0.92
1:K:68:MET:HE1	1:K:105:ARG:HD3	1.50	0.92
1:K:345:ILE:H	1:K:345:ILE:HD13	0.75	0.92
1:L:68:MET:N	1:L:69:PRO:HD3	1.82	0.92
1:A:68:MET:N	1:A:69:PRO:HD3	1.82	0.92
1:B:339:ARG:N	1:B:339:ARG:NH1	2.18	0.92
1:F:15:LYS:O	1:F:16:PHE:HB2	1.69	0.92
1:H:401:PRO:CA	1:H:405:LYS:HB3	1.96	0.92
1:L:383:LYS:HE3	1:L:384:ASN:H	1.34	0.92
1:A:68:MET:HE1	1:A:105:ARG:HD3	1.50	0.91
1:B:93:GLU:CB	1:B:94:PRO:HD2	1.93	0.91
1:C:345:ILE:H	1:C:345:ILE:HD13	0.74	0.91
1:D:68:MET:HE1	1:D:105:ARG:HD3	1.50	0.91
1:F:88:ARG:NH2	1:F:109:LYS:HZ2	1.56	0.91
1:G:154:ILE:O	1:G:155:GLU:HB2	1.66	0.91
1:H:68:MET:HE1	1:H:105:ARG:HD3	1.50	0.91
1:K:19:LEU:O	1:K:19:LEU:HG	1.10	0.91
1:K:65:MET:CB	1:K:67:LEU:HD23	1.99	0.91
1:C:58:LYS:HG3	1:D:339:ARG:N	1.84	0.91
1:C:68:MET:HE1	1:C:105:ARG:HD3	1.50	0.91
1:E:15:LYS:O	1:E:16:PHE:HB2	1.68	0.91
1:F:68:MET:HE1	1:F:105:ARG:HD3	1.50	0.91
1:H:15:LYS:O	1:H:16:PHE:HB2	1.68	0.91
1:J:339:ARG:N	1:J:339:ARG:NH1	2.18	0.91
1:K:339:ARG:N	1:K:339:ARG:NH1	2.18	0.91
1:L:339:ARG:NH1	1:L:339:ARG:N	2.18	0.91
1:A:339:ARG:N	1:F:58:LYS:HG3	1.84	0.91
1:B:68:MET:CE	1:B:105:ARG:CD	2.41	0.91
1:C:19:LEU:O	1:C:19:LEU:HG	1.10	0.91
1:C:339:ARG:N	1:C:339:ARG:NH1	2.18	0.91
1:D:154:ILE:O	1:D:155:GLU:HB2	1.65	0.91
1:E:345:ILE:H	1:E:345:ILE:HD13	0.75	0.91
1:F:68:MET:N	1:F:69:PRO:HD3	1.82	0.91
1:G:68:MET:HE1	1:G:105:ARG:HD3	1.50	0.91
1:H:109:LYS:O	1:H:110:ARG:C	2.11	0.91
1:A:65:MET:CB	1:A:67:LEU:HD23	1.99	0.91
1:B:7:THR:O	1:B:10:ASN:N	2.04	0.91
1:B:40:ALA:O	1:B:41:GLU:HB2	1.71	0.91
1:B:228:MET:HE1	1:B:371:PHE:C	1.95	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:65:MET:CB	1:C:67:LEU:HD23	1.99	0.91
1:C:90:ASP:C	1:C:91:ILE:O	2.11	0.91
1:D:339:ARG:N	1:D:339:ARG:NH1	2.18	0.91
1:G:65:MET:CB	1:G:67:LEU:HD23	1.99	0.91
1:G:339:ARG:N	1:H:58:LYS:HG3	1.84	0.91
1:I:15:LYS:O	1:I:16:PHE:HB2	1.69	0.91
1:L:7:THR:O	1:L:10:ASN:N	2.04	0.91
1:A:88:ARG:O	1:A:89:CYS:O	1.87	0.91
1:C:40:ALA:O	1:C:41:GLU:HB2	1.71	0.91
1:C:78:PRO:HB3	1:C:79:PHE:HE2	1.32	0.91
1:D:339:ARG:O	1:D:340:SER:HB3	1.68	0.91
1:F:76:ILE:CD1	1:F:76:ILE:N	2.08	0.91
1:G:68:MET:N	1:G:69:PRO:HD3	1.82	0.91
1:G:88:ARG:O	1:G:89:CYS:O	1.87	0.91
1:I:89:CYS:CB	1:I:103:ASP:CG	2.44	0.91
1:J:68:MET:HE1	1:J:105:ARG:HD3	1.50	0.91
1:K:40:ALA:O	1:K:41:GLU:HB2	1.71	0.91
1:L:40:ALA:O	1:L:41:GLU:HB2	1.71	0.91
1:A:58:LYS:HG3	1:B:339:ARG:N	1.85	0.91
1:B:15:LYS:O	1:B:16:PHE:HB2	1.68	0.91
1:B:465:TYR:HD2	1:H:315:THR:HG21	1.01	0.91
1:E:88:ARG:O	1:E:89:CYS:O	1.87	0.91
1:E:89:CYS:CB	1:E:103:ASP:CG	2.44	0.91
1:F:88:ARG:O	1:F:89:CYS:O	1.87	0.91
1:F:315:THR:HG21	1:L:465:TYR:HD2	1.01	0.91
1:H:76:ILE:CD1	1:H:76:ILE:N	2.08	0.91
1:H:88:ARG:O	1:H:89:CYS:O	1.87	0.91
1:I:88:ARG:O	1:I:89:CYS:O	1.87	0.91
1:I:96:THR:O	1:I:97:LEU:HG	1.69	0.91
1:I:345:ILE:H	1:I:345:ILE:HD13	0.74	0.91
1:L:68:MET:CE	1:L:105:ARG:CD	2.41	0.91
1:L:228:MET:HE1	1:L:371:PHE:C	1.96	0.91
1:A:96:THR:O	1:A:97:LEU:HG	1.69	0.91
1:D:93:GLU:HB3	1:D:94:PRO:HD3	1.52	0.91
1:D:347:VAL:HG22	1:D:348:VAL:N	1.83	0.91
1:F:15:LYS:HA	1:F:35:ALA:CB	1.96	0.91
1:G:58:LYS:HG3	1:L:339:ARG:N	1.85	0.91
1:H:88:ARG:NH2	1:H:109:LYS:HZ2	1.56	0.91
1:J:154:ILE:O	1:J:155:GLU:HB2	1.65	0.91
1:A:345:ILE:H	1:A:345:ILE:HD13	0.74	0.91
1:C:7:THR:O	1:C:10:ASN:N	2.04	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:228:MET:HE1	1:D:371:PHE:C	1.95	0.91
1:E:96:THR:O	1:E:97:LEU:HG	1.69	0.91
1:G:78:PRO:HB3	1:G:79:PHE:HE2	1.32	0.91
1:G:96:THR:O	1:G:97:LEU:HG	1.69	0.91
1:G:345:ILE:H	1:G:345:ILE:HD13	0.74	0.91
1:H:68:MET:N	1:H:69:PRO:HD3	1.82	0.91
1:K:67:LEU:HD12	1:K:68:MET:H	1.36	0.91
1:K:90:ASP:C	1:K:91:ILE:O	2.12	0.91
1:K:96:THR:O	1:K:97:LEU:HG	1.69	0.91
1:L:15:LYS:O	1:L:16:PHE:HB2	1.69	0.91
1:A:15:LYS:O	1:A:16:PHE:HB2	1.68	0.91
1:B:96:THR:O	1:B:97:LEU:HG	1.69	0.91
1:C:96:THR:O	1:C:97:LEU:HG	1.69	0.91
1:D:7:THR:O	1:D:10:ASN:N	2.03	0.91
1:F:25:LYS:HG2	1:F:54:ILE:CD1	2.01	0.91
1:I:228:MET:HE1	1:I:371:PHE:C	1.96	0.91
1:J:339:ARG:O	1:J:340:SER:HB3	1.68	0.91
1:A:25:LYS:HG2	1:A:54:ILE:CD1	2.01	0.91
1:A:93:GLU:HB3	1:A:94:PRO:HD3	1.52	0.91
1:D:465:TYR:HD2	1:J:315:THR:HG21	1.00	0.91
1:E:93:GLU:HB3	1:E:94:PRO:HD3	1.52	0.91
1:E:228:MET:HE1	1:E:371:PHE:C	1.96	0.91
1:G:15:LYS:O	1:G:16:PHE:HB2	1.68	0.91
1:G:25:LYS:HG2	1:G:54:ILE:CD1	2.01	0.91
1:H:25:LYS:HG2	1:H:54:ILE:CD1	2.01	0.91
1:I:360:PHE:H	1:I:361:PRO:CD	1.82	0.91
1:J:7:THR:O	1:J:10:ASN:N	2.04	0.91
1:J:67:LEU:HD12	1:J:68:MET:H	1.36	0.91
1:J:228:MET:HE1	1:J:371:PHE:C	1.96	0.91
1:K:7:THR:O	1:K:10:ASN:N	2.04	0.91
1:L:68:MET:HE1	1:L:105:ARG:HD2	0.91	0.91
1:A:89:CYS:CB	1:A:103:ASP:CG	2.44	0.90
1:E:360:PHE:H	1:E:361:PRO:CD	1.82	0.90
1:F:228:MET:HE1	1:F:371:PHE:C	1.95	0.90
1:G:89:CYS:CB	1:G:103:ASP:CG	2.44	0.90
1:G:93:GLU:HB3	1:G:94:PRO:HD3	1.52	0.90
1:H:228:MET:HE1	1:H:371:PHE:C	1.95	0.90
1:J:93:GLU:HB3	1:J:94:PRO:HD3	1.52	0.90
1:J:347:VAL:HG22	1:J:348:VAL:N	1.83	0.90
1:J:360:PHE:H	1:J:361:PRO:CD	1.82	0.90
1:K:68:MET:HE1	1:K:105:ARG:HD2	0.91	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:78:PRO:HB3	1:K:79:PHE:HE2	1.32	0.90
1:L:96:THR:O	1:L:97:LEU:HG	1.69	0.90
1:A:18:ASP:CG	1:A:19:LEU:N	2.29	0.90
1:A:405:LYS:HG3	1:A:406:GLU:N	1.86	0.90
1:B:183:PRO:O	1:B:184:PRO:C	2.14	0.90
1:C:67:LEU:HD12	1:C:68:MET:H	1.36	0.90
1:D:67:LEU:HD12	1:D:68:MET:H	1.36	0.90
1:D:360:PHE:H	1:D:361:PRO:CD	1.82	0.90
1:E:88:ARG:NH2	1:E:109:LYS:HZ2	1.54	0.90
1:F:19:LEU:HD23	1:F:75:VAL:HG21	1.53	0.90
1:G:18:ASP:CG	1:G:19:LEU:N	2.28	0.90
1:G:40:ALA:O	1:G:41:GLU:HB2	1.71	0.90
1:I:93:GLU:HB3	1:I:94:PRO:HD3	1.52	0.90
1:J:40:ALA:O	1:J:41:GLU:HB2	1.71	0.90
1:L:65:MET:CB	1:L:67:LEU:HD23	1.99	0.90
1:A:40:ALA:O	1:A:41:GLU:HB2	1.71	0.90
1:B:19:LEU:O	1:B:19:LEU:HG	1.10	0.90
1:B:65:MET:CB	1:B:67:LEU:HD23	1.99	0.90
1:B:345:ILE:H	1:B:345:ILE:HD13	0.75	0.90
1:D:2:ALA:O	1:D:6:LEU:HB2	1.72	0.90
1:D:315:THR:HG21	1:J:465:TYR:HD2	1.01	0.90
1:D:383:LYS:HE3	1:D:384:ASN:H	1.34	0.90
1:F:89:CYS:CB	1:F:103:ASP:CG	2.44	0.90
1:G:2:ALA:O	1:G:6:LEU:HB2	1.71	0.90
1:G:405:LYS:HG3	1:G:406:GLU:N	1.86	0.90
1:H:89:CYS:CB	1:H:103:ASP:CG	2.44	0.90
1:J:2:ALA:O	1:J:6:LEU:HB2	1.72	0.90
1:K:228:MET:HE1	1:K:371:PHE:C	1.95	0.90
1:A:2:ALA:O	1:A:6:LEU:HB2	1.71	0.90
1:A:78:PRO:HB3	1:A:79:PHE:HE2	1.32	0.90
1:C:228:MET:HE1	1:C:371:PHE:C	1.95	0.90
1:D:89:CYS:CB	1:D:103:ASP:CG	2.44	0.90
1:F:65:MET:CB	1:F:67:LEU:HD23	1.99	0.90
1:H:65:MET:CB	1:H:67:LEU:HD23	1.99	0.90
1:L:19:LEU:O	1:L:19:LEU:HG	1.10	0.90
1:L:183:PRO:O	1:L:184:PRO:C	2.14	0.90
1:B:68:MET:HE1	1:B:105:ARG:HD2	0.90	0.90
1:B:405:LYS:HG3	1:B:406:GLU:N	1.86	0.90
1:C:25:LYS:HG2	1:C:54:ILE:CD1	2.01	0.90
1:C:68:MET:HE1	1:C:105:ARG:HD2	0.91	0.90
1:D:40:ALA:O	1:D:41:GLU:HB2	1.71	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2:ALA:O	1:F:6:LEU:HB2	1.71	0.90
1:H:19:LEU:HD23	1:H:75:VAL:HG21	1.53	0.90
1:J:89:CYS:CB	1:J:103:ASP:CG	2.44	0.90
1:K:25:LYS:HG2	1:K:54:ILE:CD1	2.01	0.90
1:K:339:ARG:N	1:L:58:LYS:HG3	1.84	0.90
1:L:405:LYS:HG3	1:L:406:GLU:N	1.86	0.90
1:A:19:LEU:HD23	1:A:75:VAL:HG21	1.53	0.90
1:B:25:LYS:HD3	1:B:102:ARG:HB3	1.54	0.90
1:B:58:LYS:HG3	1:C:339:ARG:N	1.85	0.90
1:E:19:LEU:O	1:E:19:LEU:HG	1.10	0.90
1:E:76:ILE:CD1	1:E:76:ILE:N	2.08	0.90
1:F:68:MET:CE	1:F:88:ARG:HB2	2.01	0.90
1:F:383:LYS:HE3	1:F:384:ASN:H	1.34	0.90
1:G:19:LEU:HD23	1:G:75:VAL:HG21	1.53	0.90
1:H:40:ALA:O	1:H:41:GLU:HB2	1.71	0.90
1:H:68:MET:CE	1:H:88:ARG:HB2	2.01	0.90
1:J:20:ARG:HH12	1:J:86:ILE:HG23	1.36	0.90
1:K:304:HIS:O	1:K:308:ILE:HG12	1.72	0.90
1:C:405:LYS:HG3	1:C:406:GLU:N	1.86	0.90
1:I:40:ALA:O	1:I:41:GLU:HB2	1.71	0.90
1:I:183:PRO:O	1:I:184:PRO:C	2.14	0.90
1:K:89:CYS:CB	1:K:103:ASP:CG	2.44	0.90
1:C:89:CYS:CB	1:C:103:ASP:CG	2.44	0.90
1:C:304:HIS:O	1:C:308:ILE:HG12	1.72	0.90
1:C:339:ARG:O	1:C:340:SER:HB3	1.67	0.90
1:E:183:PRO:O	1:E:184:PRO:C	2.14	0.90
1:F:315:THR:HG1	1:L:465:TYR:CB	1.76	0.90
1:H:2:ALA:O	1:H:6:LEU:HB2	1.71	0.90
1:J:383:LYS:HE3	1:J:384:ASN:H	1.34	0.90
1:K:405:LYS:HG3	1:K:406:GLU:N	1.86	0.90
1:L:345:ILE:H	1:L:345:ILE:HD13	0.74	0.90
1:A:228:MET:HE1	1:A:371:PHE:C	1.95	0.90
1:B:89:CYS:CB	1:B:103:ASP:CG	2.44	0.90
1:B:304:HIS:O	1:B:308:ILE:HG12	1.72	0.90
1:D:20:ARG:HH12	1:D:86:ILE:HG23	1.36	0.90
1:F:7:THR:O	1:F:10:ASN:N	2.04	0.90
1:F:40:ALA:O	1:F:41:GLU:HB2	1.71	0.90
1:H:7:THR:O	1:H:10:ASN:N	2.03	0.90
1:H:383:LYS:HE3	1:H:384:ASN:H	1.34	0.90
1:I:7:THR:O	1:I:10:ASN:N	2.03	0.90
1:I:19:LEU:O	1:I:19:LEU:HG	1.10	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:89:CYS:CB	1:L:103:ASP:CG	2.44	0.90
1:A:120:ILE:HG21	1:A:382:ILE:HG21	0.91	0.90
1:A:460:VAL:O	1:A:463:GLU:HB2	1.72	0.90
1:B:18:ASP:CG	1:B:19:LEU:N	2.29	0.90
1:C:20:ARG:HH12	1:C:86:ILE:HG23	1.36	0.90
1:E:7:THR:O	1:E:10:ASN:N	2.04	0.90
1:F:405:LYS:HG3	1:F:406:GLU:N	1.86	0.90
1:G:228:MET:HE1	1:G:371:PHE:C	1.95	0.90
1:H:304:HIS:O	1:H:308:ILE:HG12	1.72	0.90
1:I:2:ALA:O	1:I:6:LEU:HB2	1.72	0.90
1:I:76:ILE:CD1	1:I:76:ILE:N	2.08	0.90
1:K:20:ARG:HH12	1:K:86:ILE:HG23	1.36	0.90
1:C:2:ALA:O	1:C:6:LEU:HB2	1.71	0.89
1:E:40:ALA:O	1:E:41:GLU:HB2	1.71	0.89
1:F:304:HIS:O	1:F:308:ILE:HG12	1.72	0.89
1:G:120:ILE:HG21	1:G:382:ILE:HG21	0.91	0.89
1:G:460:VAL:O	1:G:463:GLU:HB2	1.72	0.89
1:L:18:ASP:CG	1:L:19:LEU:N	2.28	0.89
1:L:304:HIS:O	1:L:308:ILE:HG12	1.72	0.89
1:B:67:LEU:HD12	1:B:68:MET:H	1.36	0.89
1:C:25:LYS:HD3	1:C:102:ARG:HB3	1.54	0.89
1:I:67:LEU:HD12	1:I:68:MET:H	1.36	0.89
1:J:304:HIS:O	1:J:308:ILE:HG12	1.72	0.89
1:K:25:LYS:HD3	1:K:102:ARG:HB3	1.54	0.89
1:L:25:LYS:HD3	1:L:102:ARG:HB3	1.54	0.89
1:B:120:ILE:HG21	1:B:382:ILE:HG21	0.91	0.89
1:D:345:ILE:H	1:D:345:ILE:HD13	0.74	0.89
1:E:2:ALA:O	1:E:6:LEU:HB2	1.72	0.89
1:F:93:GLU:HB3	1:F:94:PRO:HD3	1.52	0.89
1:H:93:GLU:HB3	1:H:94:PRO:HD3	1.52	0.89
1:H:183:PRO:O	1:H:184:PRO:C	2.14	0.89
1:H:360:PHE:H	1:H:361:PRO:CD	1.82	0.89
1:H:405:LYS:HG3	1:H:406:GLU:N	1.86	0.89
1:J:25:LYS:HG2	1:J:54:ILE:CD1	2.01	0.89
1:K:339:ARG:O	1:K:340:SER:HB3	1.68	0.89
1:L:93:GLU:HB3	1:L:94:PRO:HD3	1.52	0.89
1:A:7:THR:O	1:A:10:ASN:N	2.04	0.89
1:B:93:GLU:HB3	1:B:94:PRO:HD3	1.52	0.89
1:D:25:LYS:HG2	1:D:54:ILE:CD1	2.01	0.89
1:F:183:PRO:O	1:F:184:PRO:C	2.14	0.89
1:K:2:ALA:O	1:K:6:LEU:HB2	1.71	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:67:LEU:HD12	1:L:68:MET:H	1.36	0.89
1:B:155:GLU:OE1	1:B:187:SER:CB	2.21	0.89
1:D:75:VAL:HG11	1:D:78:PRO:HD2	1.55	0.89
1:D:183:PRO:O	1:D:184:PRO:C	2.14	0.89
1:D:304:HIS:O	1:D:308:ILE:HG12	1.72	0.89
1:F:360:PHE:H	1:F:361:PRO:CD	1.82	0.89
1:J:75:VAL:HG11	1:J:78:PRO:HD2	1.55	0.89
1:L:120:ILE:HG21	1:L:382:ILE:HG21	0.91	0.89
1:A:68:MET:HE1	1:A:105:ARG:HD2	0.90	0.89
1:C:120:ILE:HG21	1:C:382:ILE:HG21	0.91	0.89
1:E:460:VAL:O	1:E:463:GLU:HB2	1.72	0.89
1:G:68:MET:HE1	1:G:105:ARG:HD2	0.91	0.89
1:G:68:MET:CE	1:G:88:ARG:HB2	2.01	0.89
1:I:19:LEU:HD23	1:I:75:VAL:HG21	1.53	0.89
1:I:460:VAL:O	1:I:463:GLU:HB2	1.72	0.89
1:K:93:GLU:HB3	1:K:94:PRO:HD3	1.52	0.89
1:C:214:ALA:O	1:C:216:ALA:N	2.06	0.89
1:D:460:VAL:O	1:D:463:GLU:HB2	1.72	0.89
1:E:67:LEU:HD12	1:E:68:MET:H	1.36	0.89
1:G:7:THR:O	1:G:10:ASN:N	2.04	0.89
1:H:120:ILE:HG21	1:H:382:ILE:HG21	0.91	0.89
1:J:183:PRO:O	1:J:184:PRO:C	2.14	0.89
1:J:345:ILE:H	1:J:345:ILE:HD13	0.74	0.89
1:J:460:VAL:O	1:J:463:GLU:HB2	1.72	0.89
1:K:75:VAL:HG11	1:K:78:PRO:HD2	1.55	0.89
1:L:155:GLU:OE1	1:L:187:SER:CB	2.21	0.89
1:C:75:VAL:HG11	1:C:78:PRO:HD2	1.55	0.89
1:C:360:PHE:H	1:C:361:PRO:CD	1.82	0.89
1:D:120:ILE:HG21	1:D:382:ILE:HG21	0.91	0.89
1:E:19:LEU:HD23	1:E:75:VAL:HG21	1.53	0.89
1:F:120:ILE:HG21	1:F:382:ILE:HG21	0.91	0.89
1:F:214:ALA:O	1:F:216:ALA:N	2.06	0.89
1:H:214:ALA:O	1:H:216:ALA:N	2.06	0.89
1:I:25:LYS:HG2	1:I:54:ILE:CD1	2.01	0.89
1:K:98:GLN:HG2	1:K:98:GLN:O	1.73	0.89
1:K:120:ILE:HG21	1:K:382:ILE:HG21	0.91	0.89
1:K:214:ALA:O	1:K:216:ALA:N	2.06	0.89
1:A:18:ASP:HB2	1:A:31:VAL:O	1.73	0.89
1:A:68:MET:CE	1:A:88:ARG:HB2	2.01	0.89
1:D:68:MET:HE1	1:D:105:ARG:HD2	0.90	0.89
1:E:25:LYS:HG2	1:E:54:ILE:CD1	2.01	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:68:MET:HE1	1:E:105:ARG:HD2	0.91	0.89
1:G:67:LEU:HD12	1:G:68:MET:H	1.36	0.89
1:K:19:LEU:HD23	1:K:75:VAL:HG21	1.53	0.89
1:K:360:PHE:H	1:K:361:PRO:CD	1.82	0.89
1:L:27:LYS:HZ3	1:L:239:LYS:HZ1	0.91	0.89
1:A:155:GLU:OE1	1:A:187:SER:CB	2.21	0.89
1:C:19:LEU:HD23	1:C:75:VAL:HG21	1.53	0.89
1:C:155:GLU:OE1	1:C:187:SER:CB	2.21	0.89
1:D:98:GLN:HG2	1:D:98:GLN:O	1.73	0.89
1:F:345:ILE:H	1:F:345:ILE:HD13	0.74	0.89
1:G:18:ASP:HB2	1:G:31:VAL:O	1.73	0.89
1:H:67:LEU:HD12	1:H:68:MET:H	1.36	0.89
1:J:120:ILE:HG21	1:J:382:ILE:HG21	0.91	0.89
1:K:18:ASP:HB2	1:K:31:VAL:O	1.73	0.89
1:L:460:VAL:O	1:L:463:GLU:HB2	1.72	0.89
1:C:98:GLN:HG2	1:C:98:GLN:O	1.73	0.88
1:D:25:LYS:HD3	1:D:102:ARG:HB3	1.54	0.88
1:E:304:HIS:O	1:E:308:ILE:HG12	1.72	0.88
1:G:155:GLU:OE1	1:G:187:SER:CB	2.21	0.88
1:J:25:LYS:HD3	1:J:102:ARG:HB3	1.54	0.88
1:B:458:HIS:HD2	1:B:460:VAL:H	1.19	0.88
1:C:18:ASP:HB2	1:C:31:VAL:O	1.73	0.88
1:C:65:MET:O	1:C:67:LEU:N	2.07	0.88
1:D:15:LYS:N	1:D:15:LYS:HD2	1.89	0.88
1:E:65:MET:O	1:E:67:LEU:N	2.06	0.88
1:I:15:LYS:N	1:I:15:LYS:HD2	1.89	0.88
1:I:65:MET:O	1:I:67:LEU:N	2.06	0.88
1:I:68:MET:HE1	1:I:105:ARG:HD2	0.90	0.88
1:J:98:GLN:HG2	1:J:98:GLN:O	1.73	0.88
1:K:155:GLU:OE1	1:K:187:SER:CB	2.21	0.88
1:A:214:ALA:O	1:A:216:ALA:N	2.06	0.88
1:B:20:ARG:HG2	1:B:28:GLU:OE2	1.73	0.88
1:B:460:VAL:O	1:B:463:GLU:HB2	1.72	0.88
1:C:93:GLU:HB3	1:C:94:PRO:HD3	1.52	0.88
1:E:15:LYS:N	1:E:15:LYS:HD2	1.89	0.88
1:E:109:LYS:O	1:E:110:ARG:C	2.11	0.88
1:E:189:GLN:O	1:E:192:ARG:N	2.06	0.88
1:F:68:MET:HE1	1:F:105:ARG:HD2	0.91	0.88
1:F:153:ASP:OD1	1:F:251:LYS:NZ	2.07	0.88
1:F:460:VAL:O	1:F:463:GLU:HB2	1.72	0.88
1:H:153:ASP:OD1	1:H:251:LYS:NZ	2.07	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:189:GLN:O	1:I:192:ARG:N	2.06	0.88
1:J:15:LYS:HD2	1:J:15:LYS:N	1.89	0.88
1:J:68:MET:HE1	1:J:105:ARG:HD2	0.90	0.88
1:K:54:ILE:HD11	1:K:102:ARG:HD3	1.56	0.88
1:L:18:ASP:HB2	1:L:31:VAL:O	1.73	0.88
1:A:65:MET:O	1:A:67:LEU:N	2.07	0.88
1:C:54:ILE:HD11	1:C:102:ARG:HD3	1.56	0.88
1:D:129:GLU:HG3	1:D:269:HIS:HB2	1.55	0.88
1:E:20:ARG:HG2	1:E:28:GLU:OE2	1.73	0.88
1:E:214:ALA:O	1:E:216:ALA:N	2.06	0.88
1:G:25:LYS:HD3	1:G:102:ARG:HB3	1.54	0.88
1:G:65:MET:O	1:G:67:LEU:CB	2.22	0.88
1:G:65:MET:O	1:G:67:LEU:N	2.07	0.88
1:G:214:ALA:O	1:G:216:ALA:N	2.06	0.88
1:I:214:ALA:O	1:I:216:ALA:N	2.06	0.88
1:I:304:HIS:O	1:I:308:ILE:HG12	1.72	0.88
1:J:54:ILE:HB	1:J:101:ASP:HB2	1.56	0.88
1:J:289:GLY:O	1:J:290:LEU:HB2	1.73	0.88
1:K:65:MET:O	1:K:67:LEU:N	2.07	0.88
1:L:20:ARG:HG2	1:L:28:GLU:OE2	1.73	0.88
1:A:25:LYS:HD3	1:A:102:ARG:HB3	1.54	0.88
1:A:65:MET:O	1:A:67:LEU:CB	2.22	0.88
1:A:304:HIS:O	1:A:308:ILE:HG12	1.72	0.88
1:B:18:ASP:HB2	1:B:31:VAL:O	1.73	0.88
1:B:90:ASP:C	1:B:91:ILE:O	2.12	0.88
1:B:360:PHE:H	1:B:361:PRO:CD	1.82	0.88
1:C:26:GLY:O	1:C:27:LYS:HG2	1.74	0.88
1:D:214:ALA:O	1:D:216:ALA:N	2.06	0.88
1:F:67:LEU:HD12	1:F:68:MET:H	1.36	0.88
1:H:54:ILE:HB	1:H:101:ASP:HB2	1.56	0.88
1:H:345:ILE:H	1:H:345:ILE:HD13	0.74	0.88
1:L:214:ALA:O	1:L:216:ALA:N	2.06	0.88
1:A:67:LEU:HD12	1:A:68:MET:H	1.36	0.88
1:B:75:VAL:HG11	1:B:78:PRO:HD2	1.55	0.88
1:E:153:ASP:OD1	1:E:251:LYS:NZ	2.07	0.88
1:F:15:LYS:HD2	1:F:15:LYS:N	1.89	0.88
1:F:90:ASP:C	1:F:91:ILE:O	2.12	0.88
1:H:15:LYS:N	1:H:15:LYS:HD2	1.89	0.88
1:H:460:VAL:O	1:H:463:GLU:HB2	1.72	0.88
1:I:54:ILE:HD11	1:I:102:ARG:HD3	1.55	0.88
1:I:153:ASP:OD1	1:I:251:LYS:NZ	2.07	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:26:GLY:O	1:K:27:LYS:HG2	1.74	0.88
1:L:19:LEU:HD23	1:L:75:VAL:HG21	1.53	0.88
1:L:25:LYS:HG2	1:L:54:ILE:CD1	2.01	0.88
1:L:189:GLN:O	1:L:192:ARG:N	2.06	0.88
1:L:360:PHE:H	1:L:361:PRO:CD	1.82	0.88
1:A:54:ILE:HB	1:A:101:ASP:HB2	1.56	0.88
1:B:2:ALA:O	1:B:6:LEU:HB2	1.72	0.88
1:B:19:LEU:HD23	1:B:75:VAL:HG21	1.53	0.88
1:B:25:LYS:HG2	1:B:54:ILE:CD1	2.01	0.88
1:C:18:ASP:CG	1:C:19:LEU:N	2.29	0.88
1:C:88:ARG:NH2	1:C:109:LYS:HZ1	1.72	0.88
1:D:54:ILE:HB	1:D:101:ASP:HB2	1.56	0.88
1:F:18:ASP:HB2	1:F:31:VAL:O	1.73	0.88
1:G:304:HIS:O	1:G:308:ILE:HG12	1.72	0.88
1:J:129:GLU:HG3	1:J:269:HIS:HB2	1.56	0.88
1:J:214:ALA:O	1:J:216:ALA:N	2.06	0.88
1:L:2:ALA:O	1:L:6:LEU:HB2	1.72	0.88
1:L:458:HIS:HD2	1:L:460:VAL:H	1.19	0.88
1:B:153:ASP:OD1	1:B:251:LYS:NZ	2.07	0.88
1:B:189:GLN:O	1:B:192:ARG:N	2.06	0.88
1:B:214:ALA:O	1:B:216:ALA:N	2.06	0.88
1:F:54:ILE:HB	1:F:101:ASP:HB2	1.56	0.88
1:G:54:ILE:HB	1:G:101:ASP:HB2	1.56	0.88
1:H:68:MET:HE1	1:H:105:ARG:HD2	0.90	0.88
1:I:75:VAL:HG11	1:I:78:PRO:HD2	1.55	0.88
1:I:109:LYS:O	1:I:110:ARG:C	2.11	0.88
1:J:19:LEU:HD23	1:J:75:VAL:HG21	1.53	0.88
1:K:18:ASP:CG	1:K:19:LEU:N	2.28	0.88
1:L:68:MET:CE	1:L:88:ARG:HB2	2.01	0.88
1:L:90:ASP:C	1:L:91:ILE:O	2.12	0.88
1:C:15:LYS:HD2	1:C:15:LYS:N	1.89	0.88
1:D:26:GLY:O	1:D:27:LYS:HG2	1.74	0.88
1:D:155:GLU:OE1	1:D:187:SER:CB	2.21	0.88
1:D:289:GLY:O	1:D:290:LEU:HB2	1.73	0.88
1:E:54:ILE:HB	1:E:101:ASP:HB2	1.56	0.88
1:E:65:MET:O	1:E:67:LEU:CB	2.22	0.88
1:F:20:ARG:HG2	1:F:28:GLU:OE2	1.73	0.88
1:G:153:ASP:OD1	1:G:251:LYS:NZ	2.07	0.88
1:H:20:ARG:HG2	1:H:28:GLU:OE2	1.73	0.88
1:H:88:ARG:NH2	1:H:109:LYS:HZ1	1.72	0.88
1:K:289:GLY:O	1:K:290:LEU:HB2	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:350:SER:HB2	1:L:352:LYS:HB2	1.56	0.88
1:A:153:ASP:OD1	1:A:251:LYS:NZ	2.07	0.88
1:A:350:SER:HB2	1:A:352:LYS:HB2	1.56	0.88
1:A:360:PHE:H	1:A:361:PRO:CD	1.82	0.88
1:C:183:PRO:O	1:C:184:PRO:C	2.14	0.88
1:D:14:VAL:C	1:D:15:LYS:HD2	1.99	0.88
1:D:19:LEU:HD23	1:D:75:VAL:HG21	1.53	0.88
1:E:54:ILE:HD11	1:E:102:ARG:HD3	1.56	0.88
1:E:75:VAL:HG11	1:E:78:PRO:HD2	1.55	0.88
1:F:155:GLU:OE1	1:F:187:SER:CB	2.21	0.88
1:G:189:GLN:O	1:G:192:ARG:N	2.06	0.88
1:G:360:PHE:H	1:G:361:PRO:CD	1.82	0.88
1:I:20:ARG:HG2	1:I:28:GLU:OE2	1.73	0.88
1:K:20:ARG:CZ	1:K:86:ILE:HG23	2.04	0.88
1:K:199:MET:HG3	1:K:241:VAL:HG11	1.56	0.88
1:A:289:GLY:O	1:A:290:LEU:HB2	1.73	0.87
1:B:68:MET:CE	1:B:88:ARG:HB2	2.01	0.87
1:C:14:VAL:C	1:C:15:LYS:HD2	1.99	0.87
1:C:199:MET:HG3	1:C:241:VAL:HG11	1.56	0.87
1:D:20:ARG:HG2	1:D:28:GLU:OE2	1.73	0.87
1:F:65:MET:O	1:F:67:LEU:N	2.06	0.87
1:F:88:ARG:NH2	1:F:109:LYS:HZ1	1.72	0.87
1:G:350:SER:HB2	1:G:352:LYS:HB2	1.57	0.87
1:H:18:ASP:HB2	1:H:31:VAL:O	1.73	0.87
1:H:90:ASP:C	1:H:91:ILE:O	2.12	0.87
1:H:155:GLU:OE1	1:H:187:SER:CB	2.21	0.87
1:I:20:ARG:CZ	1:I:86:ILE:HG23	2.04	0.87
1:I:54:ILE:HB	1:I:101:ASP:HB2	1.56	0.87
1:J:14:VAL:C	1:J:15:LYS:HD2	2.00	0.87
1:J:20:ARG:CZ	1:J:86:ILE:HG23	2.04	0.87
1:K:88:ARG:NH2	1:K:109:LYS:HZ1	1.72	0.87
1:K:93:GLU:CB	1:K:94:PRO:HD2	1.93	0.87
1:L:26:GLY:O	1:L:27:LYS:HG2	1.74	0.87
1:L:75:VAL:HG11	1:L:78:PRO:HD2	1.55	0.87
1:L:153:ASP:OD1	1:L:251:LYS:NZ	2.07	0.87
1:B:26:GLY:O	1:B:27:LYS:HG2	1.74	0.87
1:E:90:ASP:C	1:E:91:ILE:O	2.11	0.87
1:G:289:GLY:O	1:G:290:LEU:HB2	1.73	0.87
1:I:65:MET:O	1:I:67:LEU:CB	2.22	0.87
1:J:26:GLY:O	1:J:27:LYS:HG2	1.74	0.87
1:K:14:VAL:C	1:K:15:LYS:HD2	1.99	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:54:ILE:HB	1:K:101:ASP:HB2	1.56	0.87
1:K:460:VAL:O	1:K:463:GLU:HB2	1.72	0.87
1:L:20:ARG:CZ	1:L:86:ILE:HG23	2.04	0.87
1:L:281:LEU:HD12	1:L:281:LEU:N	1.90	0.87
1:A:120:ILE:CG2	1:A:382:ILE:CG2	2.46	0.87
1:A:189:GLN:O	1:A:192:ARG:N	2.06	0.87
1:A:458:HIS:HD2	1:A:460:VAL:H	1.19	0.87
1:B:350:SER:HB2	1:B:352:LYS:HB2	1.57	0.87
1:C:20:ARG:CZ	1:C:86:ILE:HG23	2.04	0.87
1:C:54:ILE:HB	1:C:101:ASP:HB2	1.56	0.87
1:C:129:GLU:HG3	1:C:269:HIS:HB2	1.56	0.87
1:C:289:GLY:O	1:C:290:LEU:HB2	1.73	0.87
1:D:20:ARG:CZ	1:D:86:ILE:HG23	2.04	0.87
1:E:25:LYS:HD3	1:E:102:ARG:HB3	1.54	0.87
1:E:26:GLY:O	1:E:27:LYS:HG2	1.74	0.87
1:I:25:LYS:HD3	1:I:102:ARG:HB3	1.54	0.87
1:I:458:HIS:HD2	1:I:460:VAL:H	1.19	0.87
1:J:20:ARG:HG2	1:J:28:GLU:OE2	1.73	0.87
1:J:155:GLU:OE1	1:J:187:SER:CB	2.21	0.87
1:K:183:PRO:O	1:K:184:PRO:C	2.14	0.87
1:K:189:GLN:O	1:K:192:ARG:N	2.06	0.87
1:A:76:ILE:CD1	1:A:76:ILE:N	2.08	0.87
1:B:20:ARG:CZ	1:B:86:ILE:HG23	2.04	0.87
1:B:281:LEU:HD12	1:B:281:LEU:N	1.90	0.87
1:C:93:GLU:CB	1:C:94:PRO:HD2	1.93	0.87
1:D:79:PHE:CD1	1:D:80:PHE:N	2.42	0.87
1:E:20:ARG:CZ	1:E:86:ILE:HG23	2.04	0.87
1:E:458:HIS:HD2	1:E:460:VAL:H	1.19	0.87
1:H:65:MET:O	1:H:67:LEU:N	2.07	0.87
1:H:189:GLN:O	1:H:192:ARG:N	2.06	0.87
1:H:350:SER:HB2	1:H:352:LYS:HB2	1.56	0.87
1:I:90:ASP:C	1:I:91:ILE:O	2.12	0.87
1:I:129:GLU:HG3	1:I:269:HIS:HB2	1.55	0.87
1:J:65:MET:O	1:J:67:LEU:N	2.07	0.87
1:J:79:PHE:CD1	1:J:80:PHE:N	2.42	0.87
1:K:129:GLU:HG3	1:K:269:HIS:HB2	1.56	0.87
1:L:14:VAL:C	1:L:15:LYS:HD2	1.99	0.87
1:A:27:LYS:HZ3	1:A:239:LYS:HZ2	1.23	0.87
1:A:88:ARG:HH21	1:A:109:LYS:HZ2	0.89	0.87
1:C:153:ASP:OD1	1:C:251:LYS:NZ	2.07	0.87
1:D:65:MET:O	1:D:67:LEU:N	2.07	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:79:PHE:CD1	1:E:80:PHE:N	2.43	0.87
1:E:155:GLU:OE1	1:E:187:SER:CB	2.21	0.87
1:F:25:LYS:HD3	1:F:102:ARG:HB3	1.54	0.87
1:F:65:MET:O	1:F:67:LEU:CB	2.22	0.87
1:G:14:VAL:C	1:G:15:LYS:HD2	1.99	0.87
1:G:88:ARG:HE	1:G:109:LYS:CE	1.88	0.87
1:H:65:MET:O	1:H:67:LEU:CB	2.22	0.87
1:H:75:VAL:HG11	1:H:78:PRO:HD2	1.55	0.87
1:I:14:VAL:C	1:I:15:LYS:HD2	1.99	0.87
1:I:79:PHE:CD1	1:I:80:PHE:N	2.42	0.87
1:I:289:GLY:O	1:I:290:LEU:HB2	1.73	0.87
1:K:15:LYS:HD2	1:K:15:LYS:N	1.89	0.87
1:L:54:ILE:HB	1:L:101:ASP:HB2	1.56	0.87
1:A:20:ARG:HH12	1:A:86:ILE:HG23	1.36	0.87
1:B:27:LYS:HZ3	1:B:239:LYS:CE	1.88	0.87
1:B:71:ALA:CB	1:B:86:ILE:CG1	2.53	0.87
1:B:78:PRO:HB3	1:B:79:PHE:HE2	1.32	0.87
1:C:189:GLN:O	1:C:192:ARG:N	2.06	0.87
1:C:350:SER:HB2	1:C:352:LYS:HB2	1.56	0.87
1:C:460:VAL:O	1:C:463:GLU:HB2	1.72	0.87
1:D:153:ASP:OD1	1:D:251:LYS:NZ	2.07	0.87
1:E:14:VAL:C	1:E:15:LYS:HD2	2.00	0.87
1:E:120:ILE:HG21	1:E:382:ILE:HG21	0.91	0.87
1:E:289:GLY:O	1:E:290:LEU:HB2	1.73	0.87
1:F:189:GLN:O	1:F:192:ARG:N	2.06	0.87
1:F:350:SER:HB2	1:F:352:LYS:HB2	1.57	0.87
1:G:63:SER:O	1:G:90:ASP:CA	2.23	0.87
1:G:458:HIS:HD2	1:G:460:VAL:H	1.19	0.87
1:I:71:ALA:CB	1:I:86:ILE:CG1	2.53	0.87
1:I:155:GLU:OE1	1:I:187:SER:CB	2.21	0.87
1:K:281:LEU:HD12	1:K:281:LEU:N	1.90	0.87
1:K:350:SER:HB2	1:K:352:LYS:HB2	1.56	0.87
1:L:27:LYS:HZ3	1:L:239:LYS:CE	1.88	0.87
1:A:14:VAL:C	1:A:15:LYS:HD2	2.00	0.87
1:A:20:ARG:CZ	1:A:86:ILE:HG23	2.04	0.87
1:A:281:LEU:HD12	1:A:281:LEU:N	1.90	0.87
1:B:54:ILE:HB	1:B:101:ASP:HB2	1.56	0.87
1:D:189:GLN:O	1:D:192:ARG:N	2.06	0.87
1:F:71:ALA:CB	1:F:86:ILE:CG1	2.53	0.87
1:G:20:ARG:HH12	1:G:86:ILE:HG23	1.36	0.87
1:G:76:ILE:CD1	1:G:76:ILE:N	2.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:79:PHE:CD1	1:G:80:PHE:N	2.42	0.87
1:G:120:ILE:CG2	1:G:382:ILE:CG2	2.46	0.87
1:G:183:PRO:O	1:G:184:PRO:C	2.13	0.87
1:I:26:GLY:O	1:I:27:LYS:HG2	1.74	0.87
1:A:63:SER:O	1:A:90:ASP:CA	2.23	0.87
1:A:79:PHE:CD1	1:A:80:PHE:N	2.42	0.87
1:B:14:VAL:C	1:B:15:LYS:HD2	2.00	0.87
1:B:199:MET:HG3	1:B:241:VAL:HG11	1.56	0.87
1:D:18:ASP:HB2	1:D:31:VAL:O	1.73	0.87
1:E:71:ALA:CB	1:E:86:ILE:CG1	2.53	0.87
1:F:26:GLY:O	1:F:27:LYS:HG2	1.74	0.87
1:F:338:ASN:HD21	1:F:395:ASN:H	1.21	0.87
1:G:281:LEU:HD12	1:G:281:LEU:N	1.90	0.87
1:K:65:MET:O	1:K:67:LEU:CB	2.22	0.87
1:K:153:ASP:OD1	1:K:251:LYS:NZ	2.07	0.87
1:L:71:ALA:CB	1:L:86:ILE:CG1	2.53	0.87
1:A:75:VAL:CG1	1:A:76:ILE:O	2.23	0.87
1:A:88:ARG:HE	1:A:109:LYS:CE	1.88	0.87
1:A:129:GLU:HG3	1:A:269:HIS:HB2	1.56	0.87
1:B:15:LYS:HD2	1:B:15:LYS:N	1.89	0.87
1:B:65:MET:O	1:B:67:LEU:N	2.06	0.87
1:B:75:VAL:CG1	1:B:76:ILE:O	2.23	0.87
1:C:465:TYR:HD2	1:I:315:THR:HG21	1.01	0.87
1:E:18:ASP:HB2	1:E:31:VAL:O	1.73	0.87
1:E:199:MET:HG3	1:E:241:VAL:HG11	1.57	0.87
1:E:315:THR:HG21	1:K:465:TYR:HD2	1.01	0.87
1:F:75:VAL:HG11	1:F:78:PRO:HD2	1.55	0.87
1:G:20:ARG:CZ	1:G:86:ILE:HG23	2.04	0.87
1:G:71:ALA:CB	1:G:86:ILE:CG1	2.53	0.87
1:G:75:VAL:CG1	1:G:76:ILE:O	2.23	0.87
1:H:25:LYS:HD3	1:H:102:ARG:HB3	1.54	0.87
1:H:71:ALA:CB	1:H:86:ILE:CG1	2.53	0.87
1:I:18:ASP:HB2	1:I:31:VAL:O	1.73	0.87
1:I:199:MET:HG3	1:I:241:VAL:HG11	1.56	0.87
1:J:18:ASP:HB2	1:J:31:VAL:O	1.73	0.87
1:J:153:ASP:OD1	1:J:251:LYS:NZ	2.07	0.87
1:J:189:GLN:O	1:J:192:ARG:N	2.06	0.87
1:K:458:HIS:HD2	1:K:460:VAL:H	1.19	0.87
1:L:65:MET:O	1:L:67:LEU:N	2.07	0.87
1:A:71:ALA:CB	1:A:86:ILE:CG1	2.53	0.86
1:B:27:LYS:HZ3	1:B:239:LYS:HZ2	1.21	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:65:MET:O	1:C:67:LEU:CB	2.22	0.86
1:C:88:ARG:NH2	1:C:109:LYS:HZ2	1.56	0.86
1:C:281:LEU:HD12	1:C:281:LEU:N	1.90	0.86
1:C:458:HIS:HD2	1:C:460:VAL:H	1.19	0.86
1:D:18:ASP:CG	1:D:19:LEU:N	2.28	0.86
1:D:54:ILE:HG12	1:D:102:ARG:HE	1.40	0.86
1:E:129:GLU:HG3	1:E:269:HIS:HB2	1.56	0.86
1:H:26:GLY:O	1:H:27:LYS:HG2	1.74	0.86
1:I:120:ILE:HG21	1:I:382:ILE:HG21	0.91	0.86
1:J:54:ILE:HG12	1:J:102:ARG:HE	1.40	0.86
1:K:68:MET:CE	1:K:88:ARG:HB2	2.01	0.86
1:L:65:MET:O	1:L:67:LEU:CB	2.22	0.86
1:L:199:MET:HG3	1:L:241:VAL:HG11	1.56	0.86
1:A:183:PRO:O	1:A:184:PRO:C	2.14	0.86
1:B:65:MET:O	1:B:67:LEU:CB	2.22	0.86
1:B:71:ALA:CB	1:B:86:ILE:HG12	2.05	0.86
1:C:338:ASN:HD21	1:C:395:ASN:H	1.21	0.86
1:F:71:ALA:CB	1:F:86:ILE:HG12	2.05	0.86
1:G:26:GLY:O	1:G:27:LYS:HG2	1.74	0.86
1:H:75:VAL:CG1	1:H:76:ILE:O	2.23	0.86
1:I:88:ARG:HE	1:I:109:LYS:CE	1.88	0.86
1:J:75:VAL:CG1	1:J:76:ILE:O	2.23	0.86
1:J:191:ILE:O	1:J:195:MET:HG3	1.76	0.86
1:J:458:HIS:HD2	1:J:460:VAL:H	1.19	0.86
1:K:88:ARG:HE	1:K:109:LYS:CE	1.88	0.86
1:L:15:LYS:HD2	1:L:15:LYS:N	1.89	0.86
1:L:75:VAL:CG1	1:L:76:ILE:O	2.23	0.86
1:L:78:PRO:HB3	1:L:79:PHE:HE2	1.32	0.86
1:A:71:ALA:CB	1:A:86:ILE:HG12	2.06	0.86
1:C:54:ILE:HG12	1:C:102:ARG:HE	1.40	0.86
1:C:75:VAL:CG1	1:C:76:ILE:O	2.23	0.86
1:F:20:ARG:CZ	1:F:86:ILE:HG23	2.03	0.86
1:F:281:LEU:HD12	1:F:281:LEU:N	1.90	0.86
1:G:71:ALA:CB	1:G:86:ILE:HG12	2.06	0.86
1:G:75:VAL:HG11	1:G:78:PRO:HD2	1.55	0.86
1:H:338:ASN:HD21	1:H:395:ASN:H	1.21	0.86
1:H:404:ALA:O	1:H:407:ILE:CG2	2.24	0.86
1:I:20:ARG:HH12	1:I:86:ILE:HG23	1.36	0.86
1:K:20:ARG:HG2	1:K:28:GLU:OE2	1.73	0.86
1:K:338:ASN:HD21	1:K:395:ASN:H	1.21	0.86
1:A:15:LYS:HD2	1:A:15:LYS:N	1.89	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:360:PHE:N	1:A:361:PRO:HD2	1.89	0.86
1:B:20:ARG:HH12	1:B:86:ILE:HG23	1.36	0.86
1:B:54:ILE:HD11	1:B:102:ARG:HD3	1.56	0.86
1:C:88:ARG:HE	1:C:109:LYS:CE	1.88	0.86
1:D:75:VAL:CG1	1:D:76:ILE:O	2.23	0.86
1:D:191:ILE:O	1:D:195:MET:HG3	1.76	0.86
1:E:63:SER:O	1:E:90:ASP:CA	2.23	0.86
1:F:63:SER:O	1:F:90:ASP:CA	2.23	0.86
1:F:404:ALA:O	1:F:407:ILE:CG2	2.24	0.86
1:G:20:ARG:HG2	1:G:28:GLU:OE2	1.73	0.86
1:G:129:GLU:HG3	1:G:269:HIS:HB2	1.56	0.86
1:G:360:PHE:N	1:G:361:PRO:HD2	1.89	0.86
1:H:63:SER:O	1:H:90:ASP:CA	2.23	0.86
1:H:281:LEU:HD12	1:H:281:LEU:N	1.90	0.86
1:L:71:ALA:CB	1:L:86:ILE:HG12	2.06	0.86
1:A:20:ARG:HG2	1:A:28:GLU:OE2	1.73	0.86
1:C:143:SER:O	1:C:145:SER:N	2.09	0.86
1:D:71:ALA:CB	1:D:86:ILE:HG12	2.05	0.86
1:D:458:HIS:HD2	1:D:460:VAL:H	1.19	0.86
1:E:20:ARG:HH12	1:E:86:ILE:HG23	1.36	0.86
1:F:54:ILE:HD11	1:F:102:ARG:HD3	1.56	0.86
1:F:92:LEU:HG	1:F:93:GLU:CB	2.06	0.86
1:G:15:LYS:HD2	1:G:15:LYS:N	1.89	0.86
1:G:404:ALA:O	1:G:407:ILE:CG2	2.24	0.86
1:H:20:ARG:CZ	1:H:86:ILE:HG23	2.04	0.86
1:H:54:ILE:HD11	1:H:102:ARG:HD3	1.56	0.86
1:J:18:ASP:CG	1:J:19:LEU:N	2.29	0.86
1:K:54:ILE:HG12	1:K:102:ARG:HE	1.40	0.86
1:K:143:SER:O	1:K:145:SER:N	2.09	0.86
1:A:26:GLY:O	1:A:27:LYS:HG2	1.74	0.86
1:B:143:SER:O	1:B:145:SER:N	2.09	0.86
1:C:20:ARG:HG2	1:C:28:GLU:OE2	1.73	0.86
1:C:68:MET:CE	1:C:88:ARG:HB2	2.01	0.86
1:E:88:ARG:HE	1:E:109:LYS:CE	1.89	0.86
1:E:98:GLN:O	1:E:98:GLN:HG2	1.73	0.86
1:F:18:ASP:CG	1:F:19:LEU:N	2.29	0.86
1:F:129:GLU:HG3	1:F:269:HIS:HB2	1.55	0.86
1:G:92:LEU:HG	1:G:93:GLU:CB	2.06	0.86
1:G:338:ASN:HD21	1:G:395:ASN:H	1.21	0.86
1:H:71:ALA:CB	1:H:86:ILE:HG12	2.06	0.86
1:H:92:LEU:HG	1:H:93:GLU:CB	2.06	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:63:SER:O	1:I:90:ASP:CA	2.23	0.86
1:I:191:ILE:O	1:I:195:MET:HG3	1.76	0.86
1:K:75:VAL:CG1	1:K:76:ILE:O	2.23	0.86
1:L:54:ILE:HD11	1:L:102:ARG:HD3	1.56	0.86
1:L:143:SER:O	1:L:145:SER:N	2.09	0.86
1:A:92:LEU:HG	1:A:93:GLU:CB	2.06	0.86
1:A:404:ALA:O	1:A:407:ILE:CG2	2.24	0.86
1:B:315:THR:HG21	1:H:465:TYR:HD2	1.01	0.86
1:D:54:ILE:HD11	1:D:102:ARG:HD3	1.56	0.86
1:H:88:ARG:HE	1:H:109:LYS:CE	1.88	0.86
1:I:98:GLN:O	1:I:98:GLN:HG2	1.73	0.86
1:J:65:MET:O	1:J:67:LEU:CB	2.22	0.86
1:L:98:GLN:HG2	1:L:98:GLN:O	1.73	0.86
1:A:75:VAL:HG11	1:A:78:PRO:HD2	1.55	0.86
1:D:65:MET:O	1:D:67:LEU:CB	2.22	0.86
1:D:143:SER:O	1:D:145:SER:N	2.09	0.86
1:E:75:VAL:CG1	1:E:76:ILE:O	2.23	0.86
1:E:191:ILE:O	1:E:195:MET:HG3	1.76	0.86
1:H:18:ASP:CG	1:H:19:LEU:N	2.29	0.86
1:J:71:ALA:CB	1:J:86:ILE:HG12	2.06	0.86
1:J:143:SER:O	1:J:145:SER:N	2.09	0.86
1:K:88:ARG:NH2	1:K:109:LYS:HZ2	1.56	0.86
1:L:88:ARG:NH2	1:L:109:LYS:HZ1	1.73	0.86
1:L:129:GLU:HG3	1:L:269:HIS:HB2	1.55	0.86
1:D:350:SER:HB2	1:D:352:LYS:HB2	1.57	0.86
1:E:339:ARG:HG2	1:E:340:SER:N	1.91	0.86
1:E:350:SER:HB2	1:E:352:LYS:HB2	1.56	0.86
1:F:79:PHE:CD1	1:F:80:PHE:N	2.42	0.86
1:H:458:HIS:HD2	1:H:460:VAL:H	1.19	0.86
1:J:281:LEU:HD12	1:J:281:LEU:N	1.90	0.86
1:J:350:SER:HB2	1:J:352:LYS:HB2	1.57	0.86
1:A:143:SER:O	1:A:145:SER:N	2.09	0.86
1:A:338:ASN:HD21	1:A:395:ASN:H	1.21	0.86
1:B:98:GLN:HG2	1:B:98:GLN:O	1.73	0.86
1:D:90:ASP:C	1:D:91:ILE:O	2.11	0.86
1:E:29:GLN:OE1	1:F:179:TYR:O	1.94	0.86
1:E:404:ALA:O	1:E:407:ILE:CG2	2.24	0.86
1:G:143:SER:O	1:G:145:SER:N	2.09	0.86
1:H:14:VAL:C	1:H:15:LYS:HD2	2.00	0.86
1:H:129:GLU:HG3	1:H:269:HIS:HB2	1.56	0.86
1:H:199:MET:HG3	1:H:241:VAL:HG11	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:75:VAL:CG1	1:I:76:ILE:O	2.23	0.86
1:I:339:ARG:HG2	1:I:340:SER:N	1.91	0.86
1:I:404:ALA:O	1:I:407:ILE:CG2	2.24	0.86
1:J:71:ALA:CB	1:J:86:ILE:CG1	2.53	0.86
1:K:179:TYR:O	1:L:29:GLN:OE1	1.94	0.86
1:L:404:ALA:O	1:L:407:ILE:CG2	2.23	0.86
1:F:14:VAL:C	1:F:15:LYS:HD2	2.00	0.85
1:H:79:PHE:CD1	1:H:80:PHE:N	2.42	0.85
1:H:179:TYR:O	1:I:29:GLN:OE1	1.94	0.85
1:I:350:SER:HB2	1:I:352:LYS:HB2	1.56	0.85
1:L:20:ARG:HH12	1:L:86:ILE:HG23	1.36	0.85
1:B:29:GLN:OE1	1:C:179:TYR:O	1.94	0.85
1:B:129:GLU:HG3	1:B:269:HIS:HB2	1.56	0.85
1:D:63:SER:O	1:D:90:ASP:CA	2.23	0.85
1:D:68:MET:CE	1:D:88:ARG:HB2	2.01	0.85
1:D:71:ALA:CB	1:D:86:ILE:CG1	2.53	0.85
1:D:338:ASN:HD21	1:D:395:ASN:H	1.21	0.85
1:E:143:SER:O	1:E:145:SER:N	2.09	0.85
1:F:88:ARG:HE	1:F:109:LYS:CE	1.88	0.85
1:F:98:GLN:HG2	1:F:98:GLN:O	1.73	0.85
1:F:199:MET:HG3	1:F:241:VAL:HG11	1.56	0.85
1:F:458:HIS:HD2	1:F:460:VAL:H	1.19	0.85
1:H:339:ARG:HG2	1:H:340:SER:N	1.91	0.85
1:J:54:ILE:HD11	1:J:102:ARG:HD3	1.56	0.85
1:L:79:PHE:CD1	1:L:80:PHE:N	2.42	0.85
1:L:88:ARG:HE	1:L:109:LYS:CE	1.88	0.85
1:B:88:ARG:HE	1:B:109:LYS:CE	1.89	0.85
1:C:63:SER:O	1:C:90:ASP:CA	2.23	0.85
1:C:71:ALA:CB	1:C:86:ILE:CG1	2.53	0.85
1:C:79:PHE:CD1	1:C:80:PHE:N	2.42	0.85
1:D:281:LEU:HD12	1:D:281:LEU:N	1.90	0.85
1:G:54:ILE:HD11	1:G:102:ARG:HD3	1.56	0.85
1:J:63:SER:O	1:J:90:ASP:CA	2.23	0.85
1:J:276:LYS:C	1:J:276:LYS:HD2	2.00	0.85
1:B:54:ILE:HG12	1:B:102:ARG:HE	1.40	0.85
1:B:79:PHE:CD1	1:B:80:PHE:N	2.42	0.85
1:B:404:ALA:O	1:B:407:ILE:CG2	2.24	0.85
1:C:191:ILE:O	1:C:195:MET:HG3	1.76	0.85
1:D:199:MET:HG3	1:D:241:VAL:HG11	1.56	0.85
1:E:92:LEU:HG	1:E:93:GLU:CB	2.05	0.85
1:F:143:SER:O	1:F:145:SER:N	2.09	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:339:ARG:HG2	1:F:340:SER:N	1.91	0.85
1:F:465:TYR:HD2	1:L:315:THR:HG21	1.01	0.85
1:G:29:GLN:OE1	1:L:179:TYR:O	1.94	0.85
1:I:143:SER:O	1:I:145:SER:N	2.09	0.85
1:J:405:LYS:HG3	1:J:406:GLU:N	1.86	0.85
1:K:63:SER:O	1:K:90:ASP:CA	2.23	0.85
1:K:191:ILE:O	1:K:195:MET:HG3	1.76	0.85
1:L:63:SER:O	1:L:90:ASP:CA	2.23	0.85
1:A:29:GLN:OE1	1:B:179:TYR:O	1.94	0.85
1:A:54:ILE:HD11	1:A:102:ARG:HD3	1.56	0.85
1:B:289:GLY:O	1:B:290:LEU:HB2	1.73	0.85
1:C:71:ALA:CB	1:C:86:ILE:HG12	2.05	0.85
1:H:143:SER:O	1:H:145:SER:N	2.09	0.85
1:I:179:TYR:O	1:J:29:GLN:OE1	1.94	0.85
1:I:281:LEU:HD12	1:I:281:LEU:N	1.90	0.85
1:J:68:MET:CE	1:J:88:ARG:HB2	2.01	0.85
1:J:90:ASP:C	1:J:91:ILE:O	2.11	0.85
1:J:338:ASN:HD21	1:J:395:ASN:H	1.21	0.85
1:K:79:PHE:CD1	1:K:80:PHE:N	2.43	0.85
1:A:90:ASP:C	1:A:91:ILE:O	2.12	0.85
1:A:179:TYR:O	1:F:29:GLN:OE1	1.94	0.85
1:B:63:SER:O	1:B:90:ASP:CA	2.23	0.85
1:B:76:ILE:CD1	1:B:76:ILE:N	2.08	0.85
1:D:29:GLN:OE1	1:E:179:TYR:O	1.94	0.85
1:D:92:LEU:CG	1:D:93:GLU:HB2	2.06	0.85
1:F:276:LYS:C	1:F:276:LYS:HD2	2.00	0.85
1:G:179:TYR:O	1:H:29:GLN:OE1	1.94	0.85
1:H:191:ILE:O	1:H:195:MET:HG3	1.76	0.85
1:I:71:ALA:CB	1:I:86:ILE:HG12	2.06	0.85
1:K:71:ALA:CB	1:K:86:ILE:CG1	2.53	0.85
1:L:92:LEU:HG	1:L:93:GLU:CB	2.06	0.85
1:A:93:GLU:CB	1:A:94:PRO:HD3	2.06	0.85
1:C:29:GLN:OE1	1:D:179:TYR:O	1.94	0.85
1:D:276:LYS:HD2	1:D:276:LYS:C	2.00	0.85
1:D:404:ALA:O	1:D:407:ILE:CG2	2.24	0.85
1:D:405:LYS:HG3	1:D:406:GLU:N	1.86	0.85
1:E:71:ALA:CB	1:E:86:ILE:HG12	2.06	0.85
1:E:281:LEU:HD12	1:E:281:LEU:N	1.90	0.85
1:G:93:GLU:CB	1:G:94:PRO:HD3	2.06	0.85
1:J:179:TYR:O	1:K:29:GLN:OE1	1.94	0.85
1:J:404:ALA:O	1:J:407:ILE:CG2	2.24	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:276:LYS:HD2	1:K:276:LYS:C	2.00	0.85
1:L:289:GLY:O	1:L:290:LEU:HB2	1.73	0.85
1:G:90:ASP:C	1:G:91:ILE:O	2.12	0.85
1:D:88:ARG:HE	1:D:109:LYS:CE	1.88	0.85
1:F:54:ILE:HG12	1:F:102:ARG:HE	1.40	0.85
1:F:191:ILE:O	1:F:195:MET:HG3	1.76	0.85
1:J:199:MET:HG3	1:J:241:VAL:HG11	1.56	0.85
1:K:339:ARG:HG2	1:K:340:SER:N	1.91	0.85
1:K:404:ALA:O	1:K:407:ILE:CG2	2.24	0.85
1:L:339:ARG:HG2	1:L:340:SER:N	1.91	0.85
1:A:274:LEU:CD1	1:A:282:PHE:HE1	1.90	0.85
1:B:465:TYR:HD2	1:H:315:THR:CG2	1.61	0.85
1:C:276:LYS:HD2	1:C:276:LYS:C	2.00	0.85
1:C:339:ARG:HG2	1:C:340:SER:N	1.91	0.85
1:E:405:LYS:HG3	1:E:406:GLU:N	1.86	0.85
1:F:67:LEU:CD1	1:F:68:MET:HG3	2.07	0.85
1:F:289:GLY:O	1:F:290:LEU:HB2	1.73	0.85
1:F:315:THR:CG2	1:L:465:TYR:HD2	1.61	0.85
1:H:289:GLY:O	1:H:290:LEU:HB2	1.73	0.85
1:I:54:ILE:HG12	1:I:102:ARG:HE	1.41	0.85
1:I:276:LYS:C	1:I:276:LYS:HD2	2.00	0.85
1:I:405:LYS:HG3	1:I:406:GLU:N	1.86	0.85
1:L:54:ILE:HG12	1:L:102:ARG:HE	1.41	0.85
1:L:276:LYS:HD2	1:L:276:LYS:C	2.00	0.85
1:L:403:GLU:HB3	1:L:406:GLU:CB	2.07	0.85
1:A:403:GLU:HB3	1:A:406:GLU:CB	2.07	0.84
1:B:276:LYS:C	1:B:276:LYS:HD2	2.00	0.84
1:B:403:GLU:HB3	1:B:406:GLU:CB	2.07	0.84
1:C:404:ALA:O	1:C:407:ILE:CG2	2.24	0.84
1:G:274:LEU:CD1	1:G:282:PHE:HE1	1.90	0.84
1:G:403:GLU:HB3	1:G:406:GLU:CB	2.07	0.84
1:K:71:ALA:CB	1:K:86:ILE:HG12	2.06	0.84
1:L:76:ILE:CD1	1:L:76:ILE:N	2.08	0.84
1:B:339:ARG:HG2	1:B:340:SER:N	1.91	0.84
1:B:360:PHE:N	1:B:361:PRO:HD2	1.89	0.84
1:G:67:LEU:CD1	1:G:68:MET:HG3	2.07	0.84
1:G:98:GLN:CG	1:G:102:ARG:O	2.25	0.84
1:G:199:MET:HG3	1:G:241:VAL:HG11	1.56	0.84
1:H:67:LEU:CD1	1:H:68:MET:HG3	2.07	0.84
1:H:276:LYS:HD2	1:H:276:LYS:C	2.00	0.84
1:J:88:ARG:HH21	1:J:109:LYS:HZ2	0.86	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:54:ILE:HG12	1:A:102:ARG:HE	1.40	0.84
1:A:199:MET:HG3	1:A:241:VAL:HG11	1.56	0.84
1:B:98:GLN:CG	1:B:102:ARG:O	2.25	0.84
1:D:274:LEU:CD1	1:D:282:PHE:HE1	1.90	0.84
1:D:421:LEU:HD22	1:D:443:ILE:HD11	1.58	0.84
1:E:68:MET:CE	1:E:88:ARG:HB2	2.01	0.84
1:E:274:LEU:CD1	1:E:282:PHE:HE1	1.90	0.84
1:E:276:LYS:C	1:E:276:LYS:HD2	2.00	0.84
1:F:360:PHE:N	1:F:361:PRO:HD2	1.89	0.84
1:H:54:ILE:HG12	1:H:102:ARG:HE	1.40	0.84
1:I:68:MET:CE	1:I:88:ARG:HB2	2.01	0.84
1:I:274:LEU:CD1	1:I:282:PHE:HE1	1.90	0.84
1:A:67:LEU:CD1	1:A:68:MET:HG3	2.07	0.84
1:A:98:GLN:CG	1:A:102:ARG:O	2.25	0.84
1:B:274:LEU:CD1	1:B:282:PHE:HE1	1.90	0.84
1:E:54:ILE:HG12	1:E:102:ARG:HE	1.41	0.84
1:G:54:ILE:HG12	1:G:102:ARG:HE	1.40	0.84
1:H:360:PHE:N	1:H:361:PRO:HD2	1.89	0.84
1:J:88:ARG:HE	1:J:109:LYS:CE	1.89	0.84
1:J:421:LEU:HD22	1:J:443:ILE:HD11	1.58	0.84
1:L:98:GLN:CG	1:L:102:ARG:O	2.25	0.84
1:D:28:GLU:HG3	1:E:182:VAL:HG11	1.57	0.84
1:D:88:ARG:HH21	1:D:109:LYS:HZ2	0.86	0.84
1:J:274:LEU:CD1	1:J:282:PHE:HE1	1.90	0.84
1:L:274:LEU:CD1	1:L:282:PHE:HE1	1.90	0.84
1:L:360:PHE:N	1:L:361:PRO:HD2	1.90	0.84
1:A:191:ILE:O	1:A:195:MET:HG3	1.76	0.84
1:B:92:LEU:HG	1:B:93:GLU:CB	2.06	0.84
1:B:191:ILE:O	1:B:195:MET:HG3	1.76	0.84
1:B:338:ASN:HD21	1:B:395:ASN:H	1.21	0.84
1:C:180:PHE:N	1:C:181:PRO:HD3	1.93	0.84
1:C:360:PHE:N	1:C:361:PRO:HD2	1.89	0.84
1:G:191:ILE:O	1:G:195:MET:HG3	1.76	0.84
1:K:180:PHE:N	1:K:181:PRO:HD3	1.93	0.84
1:A:315:THR:CG2	1:G:465:TYR:HD2	1.61	0.84
1:D:93:GLU:CB	1:D:94:PRO:HD3	2.06	0.84
1:F:403:GLU:HB3	1:F:406:GLU:CB	2.07	0.84
1:F:421:LEU:HD22	1:F:443:ILE:HD11	1.58	0.84
1:J:93:GLU:CB	1:J:94:PRO:HD3	2.06	0.84
1:J:339:ARG:HG2	1:J:340:SER:N	1.91	0.84
1:K:175:VAL:H	1:K:215:THR:CG2	1.86	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:338:ASN:HD21	1:L:395:ASN:H	1.21	0.84
1:B:28:GLU:HG3	1:C:182:VAL:HG11	1.57	0.84
1:B:67:LEU:HD12	1:B:68:MET:N	1.93	0.84
1:D:186:ASP:O	1:D:188:ALA:N	2.11	0.84
1:D:339:ARG:HG2	1:D:340:SER:N	1.91	0.84
1:E:18:ASP:CG	1:E:19:LEU:N	2.29	0.84
1:E:186:ASP:O	1:E:188:ALA:N	2.11	0.84
1:F:180:PHE:N	1:F:181:PRO:HD3	1.93	0.84
1:I:182:VAL:HG11	1:J:28:GLU:HG3	1.57	0.84
1:K:67:LEU:HD12	1:K:68:MET:N	1.93	0.84
1:K:98:GLN:CG	1:K:102:ARG:O	2.25	0.84
1:L:23:ASP:HB3	1:L:28:GLU:HA	1.60	0.84
1:L:191:ILE:O	1:L:195:MET:HG3	1.76	0.84
1:A:252:THR:HG21	1:G:466:TYR:HH	0.74	0.84
1:A:421:LEU:HD22	1:A:443:ILE:HD11	1.58	0.84
1:C:67:LEU:HD12	1:C:68:MET:N	1.93	0.84
1:C:120:ILE:CG2	1:C:382:ILE:CG2	2.46	0.84
1:C:186:ASP:O	1:C:188:ALA:N	2.11	0.84
1:C:403:GLU:HB3	1:C:406:GLU:CB	2.07	0.84
1:D:120:ILE:CG2	1:D:382:ILE:CG2	2.46	0.84
1:E:67:LEU:CD1	1:E:68:MET:HG3	2.07	0.84
1:E:92:LEU:CG	1:E:93:GLU:HB2	2.06	0.84
1:F:120:ILE:CG2	1:F:382:ILE:CG2	2.46	0.84
1:H:98:GLN:HG2	1:H:98:GLN:O	1.73	0.84
1:H:403:GLU:HB3	1:H:406:GLU:CB	2.07	0.84
1:I:67:LEU:CD1	1:I:68:MET:HG3	2.07	0.84
1:I:92:LEU:CG	1:I:93:GLU:HB2	2.06	0.84
1:I:403:GLU:HB3	1:I:406:GLU:CB	2.07	0.84
1:K:339:ARG:HB3	1:L:58:LYS:HG3	1.60	0.84
1:K:403:GLU:HB3	1:K:406:GLU:CB	2.07	0.84
1:A:23:ASP:HB3	1:A:28:GLU:HA	1.60	0.84
1:A:180:PHE:N	1:A:181:PRO:HD3	1.93	0.84
1:B:23:ASP:HB3	1:B:28:GLU:HA	1.60	0.84
1:B:58:LYS:HG3	1:C:339:ARG:HB3	1.60	0.84
1:B:67:LEU:CD1	1:B:68:MET:HG3	2.07	0.84
1:C:98:GLN:CG	1:C:102:ARG:O	2.25	0.84
1:C:175:VAL:H	1:C:215:THR:CG2	1.86	0.84
1:F:274:LEU:CD1	1:F:282:PHE:HE1	1.90	0.84
1:G:98:GLN:HG2	1:G:98:GLN:O	1.73	0.84
1:G:180:PHE:N	1:G:181:PRO:HD3	1.93	0.84
1:H:75:VAL:HG23	1:H:84:THR:CG2	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:180:PHE:N	1:H:181:PRO:HD3	1.93	0.84
1:I:19:LEU:CD1	1:I:240:TYR:CE1	2.61	0.84
1:J:186:ASP:O	1:J:188:ALA:N	2.11	0.84
1:K:360:PHE:N	1:K:361:PRO:HD2	1.90	0.84
1:F:75:VAL:CG1	1:F:76:ILE:O	2.23	0.83
1:H:274:LEU:CD1	1:H:282:PHE:HE1	1.90	0.83
1:H:421:LEU:HD22	1:H:443:ILE:HD11	1.58	0.83
1:I:18:ASP:CG	1:I:19:LEU:N	2.29	0.83
1:I:186:ASP:O	1:I:188:ALA:N	2.11	0.83
1:K:182:VAL:HG11	1:L:28:GLU:HG3	1.57	0.83
1:K:186:ASP:O	1:K:188:ALA:N	2.11	0.83
1:L:67:LEU:HD12	1:L:68:MET:N	1.93	0.83
1:L:67:LEU:CD1	1:L:68:MET:HG3	2.07	0.83
1:A:465:TYR:HD2	1:G:315:THR:CG2	1.61	0.83
1:B:180:PHE:N	1:B:181:PRO:HD3	1.93	0.83
1:E:19:LEU:CD1	1:E:240:TYR:CE1	2.62	0.83
1:E:403:GLU:HB3	1:E:406:GLU:CB	2.07	0.83
1:G:27:LYS:HZ3	1:G:239:LYS:HZ2	1.26	0.83
1:K:120:ILE:CG2	1:K:382:ILE:CG2	2.46	0.83
1:K:421:LEU:HD22	1:K:443:ILE:HD11	1.58	0.83
1:L:180:PHE:N	1:L:181:PRO:HD3	1.93	0.83
1:A:98:GLN:HG2	1:A:98:GLN:O	1.73	0.83
1:A:466:TYR:HH	1:G:252:THR:HG21	0.74	0.83
1:B:67:LEU:O	1:B:68:MET:C	2.22	0.83
1:C:274:LEU:CD1	1:C:282:PHE:HE1	1.90	0.83
1:D:19:LEU:CD1	1:D:240:TYR:CE1	2.61	0.83
1:D:98:GLN:CG	1:D:102:ARG:O	2.26	0.83
1:E:75:VAL:HG23	1:E:84:THR:CG2	2.08	0.83
1:F:67:LEU:O	1:F:68:MET:C	2.22	0.83
1:F:75:VAL:HG23	1:F:84:THR:CG2	2.08	0.83
1:F:98:GLN:CG	1:F:102:ARG:O	2.25	0.83
1:G:421:LEU:HD22	1:G:443:ILE:HD11	1.58	0.83
1:J:98:GLN:CG	1:J:102:ARG:O	2.25	0.83
1:J:120:ILE:CG2	1:J:382:ILE:CG2	2.46	0.83
1:J:339:ARG:HB3	1:K:58:LYS:HG3	1.60	0.83
1:K:75:VAL:HG23	1:K:84:THR:CG2	2.08	0.83
1:L:67:LEU:O	1:L:68:MET:C	2.22	0.83
1:A:105:ARG:NH2	1:A:233:ASP:OD1	2.12	0.83
1:C:58:LYS:HG3	1:D:339:ARG:HB3	1.60	0.83
1:C:75:VAL:HG23	1:C:84:THR:CG2	2.08	0.83
1:C:421:LEU:HD22	1:C:443:ILE:HD11	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:65:MET:HA	1:D:65:MET:CE	2.08	0.83
1:D:403:GLU:HB3	1:D:406:GLU:CB	2.07	0.83
1:F:306:LYS:CG	1:F:411:ALA:HB2	2.08	0.83
1:G:105:ARG:NH2	1:G:233:ASP:OD1	2.12	0.83
1:G:339:ARG:HB3	1:H:58:LYS:HG3	1.60	0.83
1:H:67:LEU:O	1:H:68:MET:C	2.22	0.83
1:H:72:SER:C	1:H:73:THR:HG22	2.04	0.83
1:H:120:ILE:CG2	1:H:382:ILE:CG2	2.46	0.83
1:I:75:VAL:HG23	1:I:84:THR:CG2	2.08	0.83
1:A:276:LYS:C	1:A:276:LYS:HD2	2.00	0.83
1:B:75:VAL:HG23	1:B:84:THR:CG2	2.08	0.83
1:E:339:ARG:C	1:E:341:ALA:N	2.35	0.83
1:G:23:ASP:HB3	1:G:28:GLU:HA	1.60	0.83
1:H:98:GLN:CG	1:H:102:ARG:O	2.25	0.83
1:J:403:GLU:HB3	1:J:406:GLU:CB	2.07	0.83
1:A:72:SER:C	1:A:73:THR:HG22	2.04	0.83
1:D:67:LEU:CD1	1:D:68:MET:HG3	2.07	0.83
1:E:58:LYS:HG3	1:F:339:ARG:HB3	1.60	0.83
1:G:276:LYS:HD2	1:G:276:LYS:C	2.00	0.83
1:J:19:LEU:CD1	1:J:240:TYR:CE1	2.62	0.83
1:J:65:MET:HA	1:J:65:MET:CE	2.09	0.83
1:J:67:LEU:CD1	1:J:68:MET:HG3	2.07	0.83
1:K:274:LEU:CD1	1:K:282:PHE:HE1	1.90	0.83
1:B:65:MET:HA	1:B:65:MET:CE	2.09	0.83
1:B:280:ASN:C	1:B:282:PHE:H	1.86	0.83
1:C:67:LEU:CD1	1:C:68:MET:HG3	2.07	0.83
1:C:105:ARG:NH2	1:C:233:ASP:OD1	2.12	0.83
1:C:189:GLN:O	1:C:191:ILE:N	2.11	0.83
1:F:72:SER:C	1:F:73:THR:HG22	2.04	0.83
1:H:19:LEU:CD1	1:H:240:TYR:CE1	2.62	0.83
1:H:92:LEU:CG	1:H:93:GLU:HB2	2.07	0.83
1:I:72:SER:C	1:I:73:THR:HG22	2.04	0.83
1:I:360:PHE:N	1:I:361:PRO:HD2	1.89	0.83
1:L:65:MET:HA	1:L:65:MET:CE	2.09	0.83
1:A:75:VAL:HG23	1:A:84:THR:CG2	2.08	0.83
1:A:189:GLN:O	1:A:191:ILE:N	2.11	0.83
1:A:339:ARG:HB3	1:F:58:LYS:HG3	1.60	0.83
1:E:65:MET:HA	1:E:65:MET:CE	2.08	0.83
1:E:360:PHE:N	1:E:361:PRO:HD2	1.89	0.83
1:F:19:LEU:CD1	1:F:240:TYR:CE1	2.62	0.83
1:F:92:LEU:CG	1:F:93:GLU:HB2	2.06	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:72:SER:C	1:G:73:THR:HG22	2.04	0.83
1:G:75:VAL:HG23	1:G:84:THR:CG2	2.08	0.83
1:G:189:GLN:O	1:G:191:ILE:N	2.11	0.83
1:H:339:ARG:HB3	1:I:58:LYS:HG3	1.60	0.83
1:I:65:MET:HA	1:I:65:MET:CE	2.08	0.83
1:I:98:GLN:CG	1:I:102:ARG:O	2.25	0.83
1:L:75:VAL:HG23	1:L:84:THR:CG2	2.08	0.83
1:L:105:ARG:NH2	1:L:233:ASP:OD1	2.12	0.83
1:D:67:LEU:O	1:D:68:MET:C	2.22	0.83
1:E:180:PHE:N	1:E:181:PRO:HD3	1.93	0.83
1:G:339:ARG:HG2	1:G:340:SER:N	1.91	0.83
1:I:180:PHE:N	1:I:181:PRO:HD3	1.93	0.83
1:J:67:LEU:O	1:J:68:MET:C	2.22	0.83
1:K:67:LEU:CD1	1:K:68:MET:HG3	2.07	0.83
1:K:189:GLN:O	1:K:191:ILE:N	2.12	0.83
1:L:280:ASN:C	1:L:282:PHE:H	1.87	0.83
1:A:67:LEU:HD12	1:A:68:MET:N	1.93	0.83
1:B:72:SER:C	1:B:73:THR:HG22	2.04	0.83
1:B:105:ARG:NH2	1:B:233:ASP:OD1	2.12	0.83
1:B:414:LEU:C	1:B:414:LEU:HD23	2.04	0.83
1:D:23:ASP:HB3	1:D:28:GLU:HA	1.60	0.83
1:D:180:PHE:N	1:D:181:PRO:HD3	1.93	0.83
1:E:98:GLN:CG	1:E:102:ARG:O	2.26	0.83
1:F:118:THR:OG1	1:F:120:ILE:HG13	1.79	0.83
1:G:67:LEU:HD12	1:G:68:MET:N	1.93	0.83
1:H:118:THR:OG1	1:H:120:ILE:HG13	1.79	0.83
1:I:280:ASN:C	1:I:282:PHE:H	1.86	0.83
1:I:421:LEU:HD22	1:I:443:ILE:HD11	1.58	0.83
1:K:65:MET:CE	1:K:65:MET:HA	2.08	0.83
1:L:72:SER:C	1:L:73:THR:HG22	2.04	0.83
1:L:186:ASP:O	1:L:188:ALA:N	2.11	0.83
1:L:414:LEU:HD23	1:L:414:LEU:C	2.04	0.83
1:A:399:LEU:HD23	1:A:402:GLU:HB2	1.61	0.82
1:B:186:ASP:O	1:B:188:ALA:N	2.11	0.82
1:B:347:VAL:HG22	1:B:348:VAL:H	1.44	0.82
1:C:65:MET:HA	1:C:65:MET:CE	2.08	0.82
1:C:318:SER:O	1:C:321:ARG:HG2	1.79	0.82
1:E:67:LEU:O	1:E:68:MET:C	2.22	0.82
1:E:421:LEU:HD22	1:E:443:ILE:HD11	1.58	0.82
1:F:20:ARG:HH12	1:F:86:ILE:HG23	1.36	0.82
1:F:280:ASN:C	1:F:282:PHE:H	1.86	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:67:LEU:HD12	1:H:68:MET:N	1.93	0.82
1:H:93:GLU:CB	1:H:94:PRO:HD3	2.06	0.82
1:H:186:ASP:O	1:H:188:ALA:N	2.11	0.82
1:H:280:ASN:C	1:H:282:PHE:H	1.87	0.82
1:H:399:LEU:HD23	1:H:402:GLU:HB2	1.61	0.82
1:J:23:ASP:HB3	1:J:28:GLU:HA	1.60	0.82
1:J:67:LEU:HD12	1:J:68:MET:N	1.93	0.82
1:J:360:PHE:N	1:J:361:PRO:HD2	1.89	0.82
1:D:118:THR:OG1	1:D:120:ILE:HG13	1.79	0.82
1:D:281:LEU:H	1:D:281:LEU:CD1	1.92	0.82
1:D:360:PHE:N	1:D:361:PRO:HD2	1.89	0.82
1:E:280:ASN:C	1:E:282:PHE:H	1.87	0.82
1:E:338:ASN:HD21	1:E:395:ASN:H	1.21	0.82
1:G:399:LEU:HD23	1:G:402:GLU:HB2	1.61	0.82
1:I:67:LEU:O	1:I:68:MET:C	2.22	0.82
1:J:92:LEU:HG	1:J:93:GLU:CB	2.05	0.82
1:J:118:THR:OG1	1:J:120:ILE:HG13	1.79	0.82
1:K:68:MET:C	1:K:70:ASP:H	1.86	0.82
1:K:105:ARG:NH2	1:K:233:ASP:OD1	2.12	0.82
1:L:306:LYS:CG	1:L:411:ALA:HB2	2.08	0.82
1:A:182:VAL:HG11	1:F:28:GLU:HG3	1.57	0.82
1:B:118:THR:OG1	1:B:120:ILE:HG13	1.79	0.82
1:D:92:LEU:HG	1:D:93:GLU:CB	2.06	0.82
1:E:118:THR:OG1	1:E:120:ILE:HG13	1.79	0.82
1:E:399:LEU:HD23	1:E:402:GLU:HB2	1.61	0.82
1:F:67:LEU:HD12	1:F:68:MET:N	1.93	0.82
1:I:338:ASN:HD21	1:I:395:ASN:H	1.21	0.82
1:I:414:LEU:C	1:I:414:LEU:HD23	2.04	0.82
1:J:18:ASP:HA	1:J:21:PHE:CZ	2.14	0.82
1:J:189:GLN:O	1:J:191:ILE:N	2.11	0.82
1:J:281:LEU:H	1:J:281:LEU:CD1	1.92	0.82
1:K:88:ARG:O	1:K:89:CYS:C	2.22	0.82
1:K:318:SER:O	1:K:321:ARG:HG2	1.79	0.82
1:L:118:THR:OG1	1:L:120:ILE:HG13	1.79	0.82
1:B:306:LYS:CG	1:B:411:ALA:HB2	2.09	0.82
1:C:23:ASP:HB3	1:C:28:GLU:HA	1.60	0.82
1:C:68:MET:C	1:C:70:ASP:H	1.86	0.82
1:C:88:ARG:O	1:C:89:CYS:C	2.22	0.82
1:D:18:ASP:HA	1:D:21:PHE:CZ	2.15	0.82
1:E:318:SER:O	1:E:321:ARG:HG2	1.79	0.82
1:E:414:LEU:C	1:E:414:LEU:HD23	2.04	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:65:MET:HA	1:F:65:MET:CE	2.08	0.82
1:F:399:LEU:HD23	1:F:402:GLU:HB2	1.61	0.82
1:I:118:THR:OG1	1:I:120:ILE:HG13	1.79	0.82
1:I:189:GLN:O	1:I:191:ILE:N	2.11	0.82
1:I:318:SER:O	1:I:321:ARG:HG2	1.79	0.82
1:I:399:LEU:HD23	1:I:402:GLU:HB2	1.61	0.82
1:J:180:PHE:N	1:J:181:PRO:HD3	1.93	0.82
1:L:68:MET:C	1:L:70:ASP:H	1.86	0.82
1:A:65:MET:HA	1:A:65:MET:CE	2.08	0.82
1:C:118:THR:OG1	1:C:120:ILE:HG13	1.79	0.82
1:C:189:GLN:O	1:C:190:ASP:C	2.23	0.82
1:D:67:LEU:HD12	1:D:68:MET:N	1.93	0.82
1:D:75:VAL:HG23	1:D:84:THR:CG2	2.08	0.82
1:E:88:ARG:NH2	1:E:109:LYS:HZ1	1.73	0.82
1:E:105:ARG:NH2	1:E:233:ASP:OD1	2.12	0.82
1:E:189:GLN:O	1:E:191:ILE:N	2.12	0.82
1:F:93:GLU:CB	1:F:94:PRO:HD3	2.06	0.82
1:F:186:ASP:O	1:F:188:ALA:N	2.11	0.82
1:F:189:GLN:O	1:F:191:ILE:N	2.11	0.82
1:G:175:VAL:H	1:G:215:THR:CG2	1.86	0.82
1:H:19:LEU:HD12	1:H:20:ARG:N	1.95	0.82
1:H:20:ARG:HH12	1:H:86:ILE:HG23	1.36	0.82
1:H:65:MET:HA	1:H:65:MET:CE	2.09	0.82
1:H:105:ARG:NH2	1:H:233:ASP:OD1	2.12	0.82
1:J:75:VAL:HG23	1:J:84:THR:CG2	2.08	0.82
1:K:72:SER:C	1:K:73:THR:HG22	2.04	0.82
1:L:421:LEU:HD22	1:L:443:ILE:HD11	1.58	0.82
1:A:186:ASP:O	1:A:188:ALA:N	2.11	0.82
1:A:306:LYS:CG	1:A:411:ALA:HB2	2.08	0.82
1:B:189:GLN:O	1:B:190:ASP:C	2.23	0.82
1:D:189:GLN:O	1:D:191:ILE:N	2.12	0.82
1:D:414:LEU:HD23	1:D:414:LEU:C	2.04	0.82
1:E:67:LEU:HD12	1:E:68:MET:N	1.93	0.82
1:E:72:SER:C	1:E:73:THR:HG22	2.04	0.82
1:F:105:ARG:NH2	1:F:233:ASP:OD1	2.12	0.82
1:G:19:LEU:CD1	1:G:240:TYR:CE1	2.61	0.82
1:G:65:MET:CE	1:G:65:MET:HA	2.09	0.82
1:G:67:LEU:O	1:G:68:MET:C	2.22	0.82
1:G:182:VAL:HG11	1:H:28:GLU:HG3	1.57	0.82
1:G:186:ASP:O	1:G:188:ALA:N	2.11	0.82
1:G:306:LYS:CG	1:G:411:ALA:HB2	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:67:LEU:HD12	1:I:68:MET:N	1.93	0.82
1:J:92:LEU:CG	1:J:93:GLU:HB2	2.06	0.82
1:K:23:ASP:HB3	1:K:28:GLU:HA	1.60	0.82
1:K:118:THR:OG1	1:K:120:ILE:HG13	1.79	0.82
1:K:189:GLN:O	1:K:190:ASP:C	2.23	0.82
1:L:347:VAL:HG22	1:L:348:VAL:H	1.45	0.82
1:A:19:LEU:CD1	1:A:240:TYR:CE1	2.61	0.82
1:A:280:ASN:C	1:A:282:PHE:H	1.86	0.82
1:B:120:ILE:CG2	1:B:382:ILE:CG2	2.46	0.82
1:C:72:SER:C	1:C:73:THR:HG22	2.04	0.82
1:E:120:ILE:CG2	1:E:382:ILE:CG2	2.46	0.82
1:F:19:LEU:HD12	1:F:20:ARG:N	1.95	0.82
1:G:414:LEU:HD23	1:G:414:LEU:C	2.04	0.82
1:H:189:GLN:O	1:H:191:ILE:N	2.11	0.82
1:J:105:ARG:NH2	1:J:233:ASP:OD1	2.12	0.82
1:J:318:SER:O	1:J:321:ARG:HG2	1.79	0.82
1:K:347:VAL:HG22	1:K:348:VAL:H	1.44	0.82
1:L:189:GLN:O	1:L:190:ASP:C	2.23	0.82
1:A:414:LEU:HD23	1:A:414:LEU:C	2.04	0.82
1:B:421:LEU:HD22	1:B:443:ILE:HD11	1.58	0.82
1:D:58:LYS:HG3	1:E:339:ARG:HB3	1.60	0.82
1:E:18:ASP:HA	1:E:21:PHE:CZ	2.15	0.82
1:E:23:ASP:HB3	1:E:28:GLU:HA	1.60	0.82
1:E:294:ALA:C	1:E:298:ILE:HD12	2.05	0.82
1:F:252:THR:HG21	1:L:466:TYR:HH	1.43	0.82
1:G:58:LYS:HG3	1:L:339:ARG:HB3	1.60	0.82
1:G:280:ASN:C	1:G:282:PHE:H	1.86	0.82
1:I:105:ARG:NH2	1:I:233:ASP:OD1	2.12	0.82
1:I:184:PRO:HD3	1:J:244:ASN:OD1	1.80	0.82
1:I:339:ARG:HB3	1:J:58:LYS:HG3	1.60	0.82
1:J:414:LEU:HD23	1:J:414:LEU:C	2.05	0.82
1:K:67:LEU:O	1:K:68:MET:C	2.22	0.82
1:A:175:VAL:H	1:A:215:THR:CG2	1.86	0.82
1:B:88:ARG:O	1:B:89:CYS:C	2.22	0.82
1:B:244:ASN:OD1	1:C:184:PRO:HD3	1.80	0.82
1:B:252:THR:HG21	1:H:466:TYR:HH	1.44	0.82
1:C:9:LEU:HD12	1:C:14:VAL:HG21	1.61	0.82
1:C:294:ALA:C	1:C:298:ILE:HD12	2.05	0.82
1:D:244:ASN:OD1	1:E:184:PRO:HD3	1.80	0.82
1:D:318:SER:O	1:D:321:ARG:HG2	1.79	0.82
1:G:19:LEU:HD12	1:G:20:ARG:N	1.95	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:18:ASP:HA	1:I:21:PHE:CZ	2.15	0.82
1:I:294:ALA:C	1:I:298:ILE:HD12	2.05	0.82
1:K:9:LEU:HD12	1:K:14:VAL:HG21	1.62	0.82
1:K:184:PRO:HD3	1:L:244:ASN:OD1	1.80	0.82
1:K:294:ALA:C	1:K:298:ILE:HD12	2.05	0.82
1:A:19:LEU:HD12	1:A:20:ARG:N	1.95	0.82
1:C:93:GLU:CB	1:C:94:PRO:HD3	2.06	0.82
1:C:163:LYS:HZ2	1:C:163:LYS:HB2	1.45	0.82
1:C:347:VAL:HG22	1:C:348:VAL:H	1.45	0.82
1:D:88:ARG:O	1:D:89:CYS:C	2.22	0.82
1:D:105:ARG:NH2	1:D:233:ASP:OD1	2.12	0.82
1:F:318:SER:O	1:F:321:ARG:HG2	1.79	0.82
1:F:403:GLU:HB3	1:F:406:GLU:HB3	1.62	0.82
1:G:92:LEU:CG	1:G:93:GLU:HB2	2.06	0.82
1:H:403:GLU:HB3	1:H:406:GLU:HB3	1.62	0.82
1:I:23:ASP:HB3	1:I:28:GLU:HA	1.60	0.82
1:J:88:ARG:O	1:J:89:CYS:C	2.22	0.82
1:J:280:ASN:C	1:J:282:PHE:H	1.86	0.82
1:K:19:LEU:CD1	1:K:240:TYR:CE1	2.61	0.82
1:L:19:LEU:CD1	1:L:240:TYR:CE1	2.61	0.82
1:L:88:ARG:O	1:L:89:CYS:C	2.22	0.82
1:A:68:MET:C	1:A:70:ASP:H	1.86	0.81
1:B:19:LEU:CD1	1:B:240:TYR:CE1	2.62	0.81
1:B:68:MET:C	1:B:70:ASP:H	1.86	0.81
1:B:88:ARG:HH21	1:B:109:LYS:HZ2	0.85	0.81
1:C:19:LEU:CD1	1:C:240:TYR:CE1	2.61	0.81
1:C:67:LEU:O	1:C:68:MET:C	2.22	0.81
1:C:466:TYR:HH	1:I:252:THR:HG21	0.74	0.81
1:E:19:LEU:HD12	1:E:20:ARG:N	1.95	0.81
1:F:414:LEU:C	1:F:414:LEU:HD23	2.04	0.81
1:G:182:VAL:CG1	1:H:28:GLU:HG2	2.10	0.81
1:G:294:ALA:C	1:G:298:ILE:HD12	2.05	0.81
1:K:18:ASP:HA	1:K:21:PHE:CZ	2.15	0.81
1:K:163:LYS:HZ2	1:K:163:LYS:HB2	1.45	0.81
1:L:120:ILE:CG2	1:L:382:ILE:CG2	2.46	0.81
1:A:58:LYS:HG3	1:B:339:ARG:HB3	1.60	0.81
1:A:92:LEU:CG	1:A:93:GLU:HB2	2.06	0.81
1:A:294:ALA:C	1:A:298:ILE:HD12	2.05	0.81
1:B:466:TYR:HH	1:H:252:THR:HG21	1.44	0.81
1:C:92:LEU:HG	1:C:93:GLU:CB	2.05	0.81
1:C:244:ASN:OD1	1:D:184:PRO:HD3	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:28:GLU:HG3	1:F:182:VAL:HG11	1.57	0.81
1:F:339:ARG:C	1:F:341:ALA:N	2.35	0.81
1:G:18:ASP:HA	1:G:21:PHE:CZ	2.14	0.81
1:H:19:LEU:CD1	1:H:20:ARG:HB2	2.10	0.81
1:H:294:ALA:C	1:H:298:ILE:HD12	2.05	0.81
1:H:318:SER:O	1:H:321:ARG:HG2	1.79	0.81
1:H:414:LEU:HD23	1:H:414:LEU:C	2.04	0.81
1:I:88:ARG:NH2	1:I:109:LYS:HZ1	1.75	0.81
1:I:120:ILE:CG2	1:I:382:ILE:CG2	2.46	0.81
1:I:126:PHE:CD1	1:I:228:MET:HB3	2.16	0.81
1:A:18:ASP:HA	1:A:21:PHE:CZ	2.15	0.81
1:A:67:LEU:O	1:A:68:MET:C	2.22	0.81
1:A:339:ARG:HG2	1:A:340:SER:N	1.91	0.81
1:B:281:LEU:N	1:B:281:LEU:CD1	2.43	0.81
1:B:294:ALA:C	1:B:298:ILE:HD12	2.05	0.81
1:C:18:ASP:HA	1:C:21:PHE:CZ	2.15	0.81
1:D:189:GLN:O	1:D:190:ASP:C	2.23	0.81
1:D:280:ASN:C	1:D:282:PHE:H	1.87	0.81
1:D:289:GLY:HA3	1:D:354:ARG:HE	1.46	0.81
1:D:294:ALA:C	1:D:298:ILE:HD12	2.05	0.81
1:E:126:PHE:CD1	1:E:228:MET:HB3	2.16	0.81
1:E:252:THR:HG21	1:K:466:TYR:HH	0.73	0.81
1:F:19:LEU:CD1	1:F:20:ARG:HB2	2.11	0.81
1:F:294:ALA:C	1:F:298:ILE:HD12	2.05	0.81
1:H:182:VAL:HG11	1:I:28:GLU:HG3	1.57	0.81
1:I:281:LEU:N	1:I:281:LEU:CD1	2.43	0.81
1:J:19:LEU:CD1	1:J:20:ARG:HB2	2.11	0.81
1:J:184:PRO:HD3	1:K:244:ASN:OD1	1.80	0.81
1:J:289:GLY:HA3	1:J:354:ARG:HE	1.46	0.81
1:J:294:ALA:C	1:J:298:ILE:HD12	2.05	0.81
1:K:92:LEU:HG	1:K:93:GLU:CB	2.06	0.81
1:K:281:LEU:N	1:K:281:LEU:CD1	2.43	0.81
1:L:294:ALA:C	1:L:298:ILE:HD12	2.05	0.81
1:L:296:TYR:CB	1:L:382:ILE:HA	2.11	0.81
1:A:19:LEU:CD1	1:A:20:ARG:HB2	2.11	0.81
1:A:126:PHE:CD1	1:A:228:MET:HB3	2.16	0.81
1:A:182:VAL:CG1	1:F:28:GLU:HG2	2.10	0.81
1:B:58:LYS:HD3	1:B:59:GLY:N	1.95	0.81
1:B:92:LEU:N	1:B:97:LEU:H	1.79	0.81
1:B:296:TYR:CB	1:B:382:ILE:HA	2.11	0.81
1:C:281:LEU:N	1:C:281:LEU:CD1	2.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:19:LEU:HD12	1:D:20:ARG:N	1.95	0.81
1:D:19:LEU:CD1	1:D:20:ARG:HB2	2.11	0.81
1:E:281:LEU:N	1:E:281:LEU:CD1	2.44	0.81
1:F:281:LEU:N	1:F:281:LEU:CD1	2.43	0.81
1:G:126:PHE:CD1	1:G:228:MET:HB3	2.16	0.81
1:H:126:PHE:CD1	1:H:228:MET:HB3	2.16	0.81
1:H:281:LEU:N	1:H:281:LEU:CD1	2.44	0.81
1:H:296:TYR:CB	1:H:382:ILE:HA	2.11	0.81
1:I:19:LEU:HD12	1:I:20:ARG:N	1.95	0.81
1:J:189:GLN:O	1:J:190:ASP:C	2.23	0.81
1:L:85:LEU:C	1:L:86:ILE:HD12	2.05	0.81
1:L:281:LEU:N	1:L:281:LEU:CD1	2.43	0.81
1:A:118:THR:OG1	1:A:120:ILE:HG13	1.79	0.81
1:B:85:LEU:C	1:B:86:ILE:HD12	2.05	0.81
1:B:183:PRO:O	1:B:185:VAL:N	2.14	0.81
1:C:92:LEU:N	1:C:97:LEU:H	1.79	0.81
1:C:414:LEU:HD23	1:C:414:LEU:C	2.04	0.81
1:E:58:LYS:HD3	1:E:59:GLY:N	1.95	0.81
1:E:296:TYR:CB	1:E:382:ILE:HA	2.11	0.81
1:F:68:MET:C	1:F:70:ASP:H	1.86	0.81
1:F:126:PHE:CD1	1:F:228:MET:HB3	2.16	0.81
1:F:296:TYR:CB	1:F:382:ILE:HA	2.11	0.81
1:J:19:LEU:HD12	1:J:20:ARG:N	1.95	0.81
1:J:182:VAL:CG1	1:K:28:GLU:HG2	2.10	0.81
1:L:58:LYS:HD3	1:L:59:GLY:N	1.96	0.81
1:A:318:SER:O	1:A:321:ARG:HG2	1.79	0.81
1:B:19:LEU:HD12	1:B:20:ARG:N	1.95	0.81
1:B:189:GLN:O	1:B:191:ILE:N	2.12	0.81
1:D:72:SER:C	1:D:73:THR:HG22	2.04	0.81
1:D:85:LEU:C	1:D:86:ILE:HD12	2.05	0.81
1:E:19:LEU:CD1	1:E:20:ARG:HB2	2.11	0.81
1:G:9:LEU:HD12	1:G:14:VAL:HG21	1.61	0.81
1:G:19:LEU:CD1	1:G:20:ARG:HB2	2.11	0.81
1:G:118:THR:OG1	1:G:120:ILE:HG13	1.79	0.81
1:G:175:VAL:O	1:G:177:GLY:N	2.14	0.81
1:G:244:ASN:OD1	1:L:184:PRO:HD3	1.80	0.81
1:I:19:LEU:CD1	1:I:20:ARG:HB2	2.10	0.81
1:J:136:ASP:H	1:J:153:ASP:HB2	1.46	0.81
1:J:399:LEU:HD23	1:J:402:GLU:HB2	1.61	0.81
1:L:92:LEU:N	1:L:97:LEU:H	1.79	0.81
1:A:347:VAL:HG22	1:A:348:VAL:H	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:9:LEU:HD12	1:B:14:VAL:HG21	1.61	0.81
1:B:103:ASP:N	1:B:104:PRO:HD3	1.96	0.81
1:B:281:LEU:H	1:B:281:LEU:CD1	1.92	0.81
1:B:289:GLY:HA3	1:B:354:ARG:HE	1.45	0.81
1:C:19:LEU:HD12	1:C:20:ARG:N	1.95	0.81
1:C:28:GLU:HG2	1:D:182:VAL:CG1	2.10	0.81
1:C:306:LYS:CG	1:C:411:ALA:HB2	2.08	0.81
1:D:136:ASP:H	1:D:153:ASP:HB2	1.46	0.81
1:D:399:LEU:HD23	1:D:402:GLU:HB2	1.61	0.81
1:F:289:GLY:HA3	1:F:354:ARG:HE	1.46	0.81
1:H:175:VAL:O	1:H:177:GLY:N	2.14	0.81
1:I:183:PRO:O	1:I:185:VAL:N	2.14	0.81
1:J:85:LEU:C	1:J:86:ILE:HD12	2.05	0.81
1:K:126:PHE:CD1	1:K:228:MET:HB3	2.16	0.81
1:K:306:LYS:CG	1:K:411:ALA:HB2	2.09	0.81
1:K:414:LEU:HD23	1:K:414:LEU:C	2.04	0.81
1:L:18:ASP:HA	1:L:21:PHE:CZ	2.15	0.81
1:L:19:LEU:HD12	1:L:20:ARG:N	1.95	0.81
1:L:175:VAL:H	1:L:215:THR:CG2	1.86	0.81
1:L:183:PRO:O	1:L:185:VAL:N	2.14	0.81
1:L:189:GLN:O	1:L:191:ILE:N	2.12	0.81
1:L:281:LEU:H	1:L:281:LEU:CD1	1.92	0.81
1:B:18:ASP:HA	1:B:21:PHE:CZ	2.15	0.81
1:B:89:CYS:SG	1:B:103:ASP:CG	2.64	0.81
1:B:175:VAL:O	1:B:177:GLY:N	2.14	0.81
1:C:126:PHE:CD1	1:C:228:MET:HB3	2.16	0.81
1:D:126:PHE:CD1	1:D:228:MET:HB3	2.16	0.81
1:E:175:VAL:O	1:E:177:GLY:N	2.14	0.81
1:F:335:SER:C	1:F:345:ILE:HD11	2.06	0.81
1:G:68:MET:C	1:G:70:ASP:H	1.86	0.81
1:G:89:CYS:SG	1:G:103:ASP:CG	2.64	0.81
1:H:289:GLY:HA3	1:H:354:ARG:HE	1.45	0.81
1:I:58:LYS:HD3	1:I:59:GLY:N	1.96	0.81
1:I:92:LEU:HG	1:I:93:GLU:CB	2.05	0.81
1:I:175:VAL:O	1:I:177:GLY:N	2.14	0.81
1:K:92:LEU:N	1:K:97:LEU:H	1.79	0.81
1:K:175:VAL:O	1:K:177:GLY:N	2.14	0.81
1:L:89:CYS:SG	1:L:103:ASP:CG	2.64	0.81
1:A:9:LEU:HD12	1:A:14:VAL:HG21	1.62	0.81
1:A:175:VAL:O	1:A:177:GLY:N	2.14	0.81
1:A:244:ASN:OD1	1:B:184:PRO:HD3	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:318:SER:O	1:B:321:ARG:HG2	1.79	0.81
1:B:399:LEU:HD23	1:B:402:GLU:HB2	1.61	0.81
1:C:175:VAL:O	1:C:177:GLY:N	2.14	0.81
1:C:280:ASN:C	1:C:282:PHE:H	1.87	0.81
1:D:175:VAL:O	1:D:177:GLY:N	2.14	0.81
1:F:85:LEU:C	1:F:86:ILE:HD12	2.05	0.81
1:F:175:VAL:O	1:F:177:GLY:N	2.14	0.81
1:F:331:MET:C	1:F:332:LEU:HD12	2.06	0.81
1:G:281:LEU:H	1:G:281:LEU:CD1	1.92	0.81
1:G:403:GLU:HB3	1:G:406:GLU:HB3	1.62	0.81
1:I:182:VAL:CG1	1:J:28:GLU:HG2	2.10	0.81
1:I:296:TYR:CB	1:I:382:ILE:HA	2.11	0.81
1:K:280:ASN:C	1:K:282:PHE:H	1.87	0.81
1:L:93:GLU:CB	1:L:94:PRO:HD3	2.06	0.81
1:L:399:LEU:HD23	1:L:402:GLU:HB2	1.61	0.81
1:A:89:CYS:SG	1:A:103:ASP:CG	2.64	0.81
1:B:403:GLU:HB3	1:B:406:GLU:HB3	1.62	0.81
1:E:9:LEU:HD12	1:E:14:VAL:HG21	1.61	0.81
1:E:28:GLU:HG2	1:F:182:VAL:CG1	2.10	0.81
1:E:183:PRO:O	1:E:185:VAL:N	2.14	0.81
1:E:228:MET:HE2	1:E:371:PHE:HB3	1.64	0.81
1:E:335:SER:C	1:E:345:ILE:HD11	2.06	0.81
1:E:362:ASP:O	1:E:364:ALA:N	2.14	0.81
1:G:318:SER:O	1:G:321:ARG:HG2	1.79	0.81
1:G:347:VAL:HG22	1:G:348:VAL:H	1.45	0.81
1:H:23:ASP:HB3	1:H:28:GLU:HA	1.59	0.81
1:H:68:MET:C	1:H:70:ASP:H	1.86	0.81
1:H:85:LEU:C	1:H:86:ILE:HD12	2.05	0.81
1:H:103:ASP:CG	1:H:106:SER:HB2	2.06	0.81
1:H:182:VAL:CG1	1:I:28:GLU:HG2	2.10	0.81
1:H:331:MET:C	1:H:332:LEU:HD12	2.06	0.81
1:H:335:SER:C	1:H:345:ILE:HD11	2.06	0.81
1:I:335:SER:C	1:I:345:ILE:HD11	2.06	0.81
1:J:72:SER:C	1:J:73:THR:HG22	2.04	0.81
1:J:126:PHE:CD1	1:J:228:MET:HB3	2.16	0.81
1:K:19:LEU:HD12	1:K:20:ARG:N	1.95	0.81
1:K:296:TYR:CB	1:K:382:ILE:HA	2.11	0.81
1:L:9:LEU:HD12	1:L:14:VAL:HG21	1.61	0.81
1:L:103:ASP:N	1:L:104:PRO:HD3	1.96	0.81
1:L:175:VAL:O	1:L:177:GLY:N	2.14	0.81
1:L:318:SER:O	1:L:321:ARG:HG2	1.79	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:281:LEU:H	1:A:281:LEU:CD1	1.92	0.80
1:C:89:CYS:SG	1:C:103:ASP:CG	2.64	0.80
1:C:269:HIS:CD2	1:C:359:ARG:HB3	2.16	0.80
1:C:399:LEU:HD23	1:C:402:GLU:HB2	1.61	0.80
1:C:403:GLU:HB3	1:C:406:GLU:HB3	1.62	0.80
1:C:414:LEU:CD2	1:C:418:LEU:HG	2.12	0.80
1:D:28:GLU:HG2	1:E:182:VAL:CG1	2.10	0.80
1:D:103:ASP:CG	1:D:106:SER:HB2	2.06	0.80
1:F:18:ASP:HA	1:F:21:PHE:CZ	2.15	0.80
1:F:103:ASP:CG	1:F:106:SER:HB2	2.06	0.80
1:F:281:LEU:H	1:F:281:LEU:CD1	1.92	0.80
1:G:88:ARG:HH21	1:G:109:LYS:HZ2	0.84	0.80
1:H:18:ASP:HA	1:H:21:PHE:CZ	2.14	0.80
1:H:269:HIS:CD2	1:H:359:ARG:HB3	2.16	0.80
1:I:9:LEU:HD12	1:I:14:VAL:HG21	1.62	0.80
1:I:103:ASP:CG	1:I:106:SER:HB2	2.06	0.80
1:I:228:MET:HE2	1:I:371:PHE:HB3	1.64	0.80
1:J:175:VAL:O	1:J:177:GLY:N	2.14	0.80
1:K:269:HIS:CD2	1:K:359:ARG:HB3	2.16	0.80
1:L:126:PHE:CD1	1:L:228:MET:HB3	2.16	0.80
1:L:289:GLY:HA3	1:L:354:ARG:HE	1.46	0.80
1:A:88:ARG:O	1:A:89:CYS:C	2.22	0.80
1:A:403:GLU:HB3	1:A:406:GLU:HB3	1.62	0.80
1:B:269:HIS:CD2	1:B:359:ARG:HB3	2.16	0.80
1:C:289:GLY:HA3	1:C:354:ARG:HE	1.45	0.80
1:E:85:LEU:C	1:E:86:ILE:HD12	2.05	0.80
1:E:103:ASP:CG	1:E:106:SER:HB2	2.06	0.80
1:E:269:HIS:CD2	1:E:359:ARG:HB3	2.16	0.80
1:F:269:HIS:CD2	1:F:359:ARG:HB3	2.16	0.80
1:G:28:GLU:HG2	1:L:182:VAL:CG1	2.10	0.80
1:H:281:LEU:H	1:H:281:LEU:CD1	1.92	0.80
1:I:85:LEU:C	1:I:86:ILE:HD12	2.05	0.80
1:I:88:ARG:O	1:I:89:CYS:C	2.22	0.80
1:I:362:ASP:O	1:I:364:ALA:N	2.14	0.80
1:J:92:LEU:HB3	1:J:97:LEU:H	1.47	0.80
1:K:89:CYS:SG	1:K:103:ASP:CG	2.64	0.80
1:K:136:ASP:H	1:K:153:ASP:HB2	1.46	0.80
1:K:403:GLU:HB3	1:K:406:GLU:HB3	1.62	0.80
1:L:92:LEU:CG	1:L:93:GLU:HB2	2.06	0.80
1:A:28:GLU:HG2	1:B:182:VAL:CG1	2.10	0.80
1:A:92:LEU:N	1:A:97:LEU:H	1.79	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:331:MET:C	1:A:332:LEU:HD12	2.07	0.80
1:A:335:SER:C	1:A:345:ILE:HD11	2.06	0.80
1:B:93:GLU:CB	1:B:94:PRO:HD3	2.06	0.80
1:B:126:PHE:CD1	1:B:228:MET:HB3	2.16	0.80
1:B:175:VAL:H	1:B:215:THR:CG2	1.86	0.80
1:C:136:ASP:H	1:C:153:ASP:HB2	1.46	0.80
1:C:296:TYR:CB	1:C:382:ILE:HA	2.11	0.80
1:D:183:PRO:O	1:D:185:VAL:N	2.14	0.80
1:E:88:ARG:O	1:E:89:CYS:C	2.22	0.80
1:E:92:LEU:HB3	1:E:97:LEU:H	1.47	0.80
1:H:228:MET:HE2	1:H:371:PHE:HB3	1.63	0.80
1:I:269:HIS:CD2	1:I:359:ARG:HB3	2.16	0.80
1:J:183:PRO:O	1:J:185:VAL:N	2.14	0.80
1:K:289:GLY:HA3	1:K:354:ARG:HE	1.45	0.80
1:A:362:ASP:O	1:A:364:ALA:N	2.14	0.80
1:B:335:SER:C	1:B:345:ILE:HD11	2.06	0.80
1:C:92:LEU:HB3	1:C:97:LEU:H	1.47	0.80
1:D:76:ILE:CD1	1:D:76:ILE:N	2.08	0.80
1:E:289:GLY:HA3	1:E:354:ARG:HE	1.45	0.80
1:F:88:ARG:O	1:F:89:CYS:C	2.22	0.80
1:G:88:ARG:O	1:G:89:CYS:C	2.22	0.80
1:G:92:LEU:N	1:G:97:LEU:H	1.79	0.80
1:H:86:ILE:N	1:H:86:ILE:CD1	2.44	0.80
1:H:189:GLN:O	1:H:190:ASP:C	2.23	0.80
1:I:89:CYS:SG	1:I:103:ASP:CG	2.64	0.80
1:I:92:LEU:HB3	1:I:97:LEU:H	1.47	0.80
1:J:89:CYS:SG	1:J:103:ASP:CG	2.64	0.80
1:J:335:SER:C	1:J:345:ILE:HD11	2.06	0.80
1:L:269:HIS:CD2	1:L:359:ARG:HB3	2.16	0.80
1:B:19:LEU:CD1	1:B:20:ARG:HB2	2.10	0.80
1:B:92:LEU:CG	1:B:93:GLU:HB2	2.07	0.80
1:C:58:LYS:HD3	1:C:59:GLY:N	1.95	0.80
1:C:85:LEU:C	1:C:86:ILE:HD12	2.05	0.80
1:C:331:MET:C	1:C:332:LEU:HD12	2.07	0.80
1:D:92:LEU:HB3	1:D:97:LEU:H	1.47	0.80
1:D:335:SER:C	1:D:345:ILE:HD11	2.06	0.80
1:F:92:LEU:HB3	1:F:97:LEU:H	1.47	0.80
1:F:362:ASP:O	1:F:364:ALA:N	2.14	0.80
1:G:103:ASP:CG	1:G:106:SER:HB2	2.06	0.80
1:G:331:MET:C	1:G:332:LEU:HD12	2.07	0.80
1:G:335:SER:C	1:G:345:ILE:HD11	2.06	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:362:ASP:O	1:G:364:ALA:N	2.14	0.80
1:H:9:LEU:HD12	1:H:14:VAL:HG21	1.62	0.80
1:H:41:GLU:O	1:H:45:GLU:N	2.13	0.80
1:H:184:PRO:HD3	1:I:244:ASN:OD1	1.80	0.80
1:J:76:ILE:CD1	1:J:76:ILE:N	2.08	0.80
1:J:92:LEU:N	1:J:97:LEU:H	1.79	0.80
1:J:103:ASP:CG	1:J:106:SER:HB2	2.06	0.80
1:K:58:LYS:HD3	1:K:59:GLY:N	1.95	0.80
1:K:331:MET:C	1:K:332:LEU:HD12	2.07	0.80
1:K:399:LEU:HD23	1:K:402:GLU:HB2	1.61	0.80
1:L:19:LEU:CD1	1:L:20:ARG:HB2	2.11	0.80
1:A:183:PRO:O	1:A:185:VAL:N	2.14	0.80
1:A:296:TYR:CB	1:A:382:ILE:HA	2.11	0.80
1:A:414:LEU:CD2	1:A:418:LEU:HG	2.12	0.80
1:E:89:CYS:SG	1:E:103:ASP:CG	2.64	0.80
1:E:136:ASP:H	1:E:153:ASP:HB2	1.46	0.80
1:F:9:LEU:HD12	1:F:14:VAL:HG21	1.61	0.80
1:F:23:ASP:HB3	1:F:28:GLU:HA	1.60	0.80
1:F:86:ILE:N	1:F:86:ILE:CD1	2.44	0.80
1:F:189:GLN:O	1:F:190:ASP:C	2.23	0.80
1:F:228:MET:HE2	1:F:371:PHE:HB3	1.63	0.80
1:G:281:LEU:N	1:G:281:LEU:CD1	2.44	0.80
1:H:92:LEU:HB3	1:H:97:LEU:H	1.47	0.80
1:H:362:ASP:O	1:H:364:ALA:N	2.14	0.80
1:I:281:LEU:H	1:I:281:LEU:CD1	1.92	0.80
1:J:306:LYS:CG	1:J:411:ALA:HB2	2.09	0.80
1:L:403:GLU:HB3	1:L:406:GLU:HB3	1.63	0.80
1:A:85:LEU:C	1:A:86:ILE:HD12	2.05	0.80
1:B:68:MET:SD	1:B:105:ARG:NH1	2.55	0.80
1:C:76:ILE:CD1	1:C:76:ILE:N	2.08	0.80
1:C:183:PRO:O	1:C:185:VAL:N	2.14	0.80
1:D:58:LYS:HD3	1:D:59:GLY:N	1.95	0.80
1:D:68:MET:SD	1:D:105:ARG:NH1	2.55	0.80
1:D:89:CYS:SG	1:D:103:ASP:CG	2.64	0.80
1:D:92:LEU:N	1:D:97:LEU:H	1.79	0.80
1:D:306:LYS:CG	1:D:411:ALA:HB2	2.08	0.80
1:F:19:LEU:HD22	1:F:240:TYR:HH	1.47	0.80
1:F:41:GLU:O	1:F:45:GLU:N	2.13	0.80
1:F:49:PHE:HD2	1:F:49:PHE:H	1.29	0.80
1:G:183:PRO:O	1:G:185:VAL:N	2.14	0.80
1:G:289:GLY:HA3	1:G:354:ARG:HE	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:414:LEU:CD2	1:G:418:LEU:HG	2.12	0.80
1:H:88:ARG:O	1:H:89:CYS:C	2.22	0.80
1:H:183:PRO:O	1:H:185:VAL:N	2.14	0.80
1:I:136:ASP:H	1:I:153:ASP:HB2	1.46	0.80
1:J:269:HIS:CD2	1:J:359:ARG:HB3	2.16	0.80
1:K:68:MET:SD	1:K:105:ARG:NH1	2.55	0.80
1:K:76:ILE:CD1	1:K:76:ILE:N	2.08	0.80
1:K:85:LEU:C	1:K:86:ILE:HD12	2.05	0.80
1:K:92:LEU:HB3	1:K:97:LEU:H	1.47	0.80
1:K:183:PRO:O	1:K:185:VAL:N	2.14	0.80
1:K:339:ARG:H	1:L:58:LYS:CG	1.94	0.80
1:L:335:SER:C	1:L:345:ILE:HD11	2.06	0.80
1:A:103:ASP:CG	1:A:106:SER:HB2	2.06	0.80
1:A:281:LEU:N	1:A:281:LEU:CD1	2.44	0.80
1:C:19:LEU:CD1	1:C:20:ARG:HB2	2.11	0.80
1:C:68:MET:SD	1:C:105:ARG:NH1	2.55	0.80
1:D:403:GLU:HB3	1:D:406:GLU:HB3	1.62	0.80
1:E:244:ASN:OD1	1:F:184:PRO:HD3	1.80	0.80
1:E:281:LEU:H	1:E:281:LEU:CD1	1.92	0.80
1:F:334:TYR:OH	1:F:389:GLY:O	2.00	0.80
1:H:92:LEU:N	1:H:97:LEU:H	1.79	0.80
1:H:175:VAL:H	1:H:215:THR:CG2	1.86	0.80
1:H:334:TYR:OH	1:H:389:GLY:O	2.00	0.80
1:I:189:GLN:O	1:I:190:ASP:C	2.23	0.80
1:I:289:GLY:HA3	1:I:354:ARG:HE	1.46	0.80
1:I:339:ARG:H	1:J:58:LYS:CG	1.94	0.80
1:J:68:MET:SD	1:J:105:ARG:NH1	2.55	0.80
1:K:19:LEU:CD1	1:K:20:ARG:HB2	2.11	0.80
1:K:156:GLY:HA3	1:K:216:ALA:HB2	1.64	0.80
1:A:20:ARG:CG	1:A:28:GLU:OE2	2.30	0.80
1:A:28:GLU:HG3	1:B:182:VAL:HG11	1.57	0.80
1:A:289:GLY:HA3	1:A:354:ARG:HE	1.45	0.80
1:B:335:SER:O	1:B:336:ALA:CB	2.30	0.80
1:C:156:GLY:HA3	1:C:216:ALA:HB2	1.64	0.80
1:D:105:ARG:HH22	1:D:233:ASP:CG	1.90	0.80
1:E:189:GLN:O	1:E:190:ASP:C	2.23	0.80
1:F:89:CYS:SG	1:F:103:ASP:CG	2.64	0.80
1:F:183:PRO:O	1:F:185:VAL:N	2.14	0.80
1:G:49:PHE:HD2	1:G:49:PHE:H	1.29	0.80
1:G:85:LEU:C	1:G:86:ILE:HD12	2.05	0.80
1:G:156:GLY:HA3	1:G:216:ALA:HB2	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:184:PRO:HD3	1:H:244:ASN:OD1	1.80	0.80
1:G:296:TYR:CB	1:G:382:ILE:HA	2.11	0.80
1:H:20:ARG:CG	1:H:28:GLU:OE2	2.30	0.80
1:I:67:LEU:CD1	1:I:68:MET:H	1.95	0.80
1:I:334:TYR:OH	1:I:389:GLY:O	2.00	0.80
1:J:58:LYS:HD3	1:J:59:GLY:N	1.95	0.80
1:J:92:LEU:CB	1:J:97:LEU:H	1.95	0.80
1:J:296:TYR:CB	1:J:382:ILE:HA	2.11	0.80
1:K:339:ARG:C	1:K:341:ALA:N	2.35	0.80
1:A:49:PHE:HD2	1:A:49:PHE:H	1.29	0.80
1:A:156:GLY:HA3	1:A:216:ALA:HB2	1.64	0.80
1:A:269:HIS:CD2	1:A:359:ARG:HB3	2.16	0.80
1:B:58:LYS:CG	1:C:339:ARG:H	1.94	0.80
1:B:156:GLY:HA3	1:B:216:ALA:HB2	1.64	0.80
1:B:258:LYS:HB3	1:B:317:ASN:HD21	1.47	0.80
1:C:75:VAL:C	1:C:76:ILE:O	2.21	0.80
1:C:103:ASP:CG	1:C:106:SER:HB2	2.06	0.80
1:C:398:ASP:O	1:C:399:LEU:C	2.25	0.80
1:D:58:LYS:CG	1:E:339:ARG:H	1.94	0.80
1:D:269:HIS:CD2	1:D:359:ARG:HB3	2.16	0.80
1:D:296:TYR:CB	1:D:382:ILE:HA	2.11	0.80
1:E:315:THR:CG2	1:K:465:TYR:HD2	1.61	0.80
1:E:331:MET:C	1:E:332:LEU:HD12	2.07	0.80
1:E:403:GLU:HB3	1:E:406:GLU:HB3	1.63	0.80
1:F:20:ARG:CG	1:F:28:GLU:OE2	2.30	0.80
1:G:20:ARG:CG	1:G:28:GLU:OE2	2.30	0.80
1:H:156:GLY:HA3	1:H:216:ALA:HB2	1.64	0.80
1:J:105:ARG:HH22	1:J:233:ASP:CG	1.90	0.80
1:L:68:MET:SD	1:L:105:ARG:NH1	2.55	0.80
1:L:156:GLY:HA3	1:L:216:ALA:HB2	1.64	0.80
1:L:398:ASP:O	1:L:399:LEU:C	2.25	0.80
1:B:398:ASP:O	1:B:399:LEU:C	2.26	0.79
1:E:67:LEU:CD1	1:E:68:MET:H	1.95	0.79
1:E:92:LEU:CB	1:E:97:LEU:H	1.96	0.79
1:E:334:TYR:OH	1:E:389:GLY:O	2.00	0.79
1:G:258:LYS:HB3	1:G:317:ASN:HD21	1.47	0.79
1:H:49:PHE:H	1:H:49:PHE:HD2	1.29	0.79
1:H:89:CYS:SG	1:H:103:ASP:CG	2.64	0.79
1:I:92:LEU:CB	1:I:97:LEU:H	1.96	0.79
1:I:403:GLU:HB3	1:I:406:GLU:HB3	1.62	0.79
1:J:403:GLU:HB3	1:J:406:GLU:HB3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:398:ASP:O	1:K:399:LEU:C	2.25	0.79
1:L:335:SER:O	1:L:336:ALA:CB	2.31	0.79
1:C:339:ARG:C	1:C:341:ALA:N	2.35	0.79
1:C:465:TYR:HD2	1:I:315:THR:CG2	1.61	0.79
1:D:92:LEU:CB	1:D:97:LEU:H	1.96	0.79
1:D:228:MET:HE2	1:D:371:PHE:HB3	1.63	0.79
1:D:362:ASP:O	1:D:364:ALA:N	2.14	0.79
1:F:92:LEU:N	1:F:97:LEU:H	1.79	0.79
1:G:334:TYR:OH	1:G:389:GLY:O	2.00	0.79
1:I:16:PHE:HA	1:I:33:ILE:O	1.83	0.79
1:I:68:MET:SD	1:I:105:ARG:NH1	2.55	0.79
1:I:92:LEU:N	1:I:97:LEU:H	1.79	0.79
1:I:156:GLY:HA3	1:I:216:ALA:HB2	1.64	0.79
1:I:331:MET:C	1:I:332:LEU:HD12	2.07	0.79
1:J:9:LEU:HD12	1:J:14:VAL:HG21	1.61	0.79
1:J:281:LEU:N	1:J:281:LEU:CD1	2.44	0.79
1:K:335:SER:O	1:K:336:ALA:CB	2.30	0.79
1:K:335:SER:C	1:K:345:ILE:HD11	2.06	0.79
1:L:258:LYS:HB3	1:L:317:ASN:HD21	1.47	0.79
1:L:362:ASP:O	1:L:364:ALA:N	2.14	0.79
1:A:88:ARG:NH2	1:A:109:LYS:HZ1	1.81	0.79
1:A:92:LEU:HB3	1:A:97:LEU:H	1.47	0.79
1:A:184:PRO:HD3	1:F:244:ASN:OD1	1.80	0.79
1:A:334:TYR:OH	1:A:389:GLY:O	2.00	0.79
1:B:331:MET:C	1:B:332:LEU:HD12	2.07	0.79
1:C:335:SER:O	1:C:336:ALA:CB	2.31	0.79
1:D:331:MET:C	1:D:332:LEU:HD12	2.07	0.79
1:E:16:PHE:HA	1:E:33:ILE:O	1.83	0.79
1:E:68:MET:SD	1:E:105:ARG:NH1	2.55	0.79
1:E:105:ARG:HH22	1:E:233:ASP:CG	1.90	0.79
1:E:156:GLY:HA3	1:E:216:ALA:HB2	1.64	0.79
1:G:28:GLU:HG3	1:L:182:VAL:HG11	1.57	0.79
1:H:68:MET:SD	1:H:105:ARG:NH1	2.55	0.79
1:I:68:MET:SD	1:I:105:ARG:CZ	2.71	0.79
1:I:306:LYS:CG	1:I:411:ALA:HB2	2.08	0.79
1:J:68:MET:C	1:J:70:ASP:H	1.86	0.79
1:J:331:MET:C	1:J:332:LEU:HD12	2.07	0.79
1:J:362:ASP:O	1:J:364:ALA:N	2.14	0.79
1:L:92:LEU:HB3	1:L:97:LEU:H	1.47	0.79
1:L:103:ASP:CG	1:L:106:SER:HB2	2.06	0.79
1:L:228:MET:HE2	1:L:371:PHE:HB3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:103:ASP:N	1:A:104:PRO:HD3	1.96	0.79
1:B:92:LEU:HB3	1:B:97:LEU:H	1.47	0.79
1:B:228:MET:HE2	1:B:371:PHE:HB3	1.64	0.79
1:B:362:ASP:O	1:B:364:ALA:N	2.14	0.79
1:C:362:ASP:O	1:C:364:ALA:N	2.14	0.79
1:E:258:LYS:HB3	1:E:317:ASN:HD21	1.47	0.79
1:E:306:LYS:CG	1:E:411:ALA:HB2	2.09	0.79
1:G:78:PRO:CB	1:G:79:PHE:CE2	2.64	0.79
1:G:92:LEU:HB3	1:G:97:LEU:H	1.47	0.79
1:G:103:ASP:N	1:G:104:PRO:HD3	1.96	0.79
1:G:269:HIS:CD2	1:G:359:ARG:HB3	2.17	0.79
1:G:335:SER:O	1:G:336:ALA:CB	2.30	0.79
1:I:105:ARG:HH22	1:I:233:ASP:CG	1.90	0.79
1:I:258:LYS:HB3	1:I:317:ASN:HD21	1.47	0.79
1:I:414:LEU:CD2	1:I:418:LEU:HG	2.12	0.79
1:K:92:LEU:CG	1:K:93:GLU:HB2	2.06	0.79
1:K:383:LYS:HE3	1:K:384:ASN:N	1.98	0.79
1:L:331:MET:C	1:L:332:LEU:HD12	2.07	0.79
1:A:78:PRO:CB	1:A:79:PHE:CE2	2.64	0.79
1:A:258:LYS:HB3	1:A:317:ASN:HD21	1.47	0.79
1:A:462:PHE:CD1	1:G:149:VAL:HG21	2.18	0.79
1:C:105:ARG:HH22	1:C:233:ASP:CG	1.90	0.79
1:C:335:SER:C	1:C:345:ILE:HD11	2.06	0.79
1:C:383:LYS:HE3	1:C:384:ASN:N	1.98	0.79
1:D:281:LEU:N	1:D:281:LEU:CD1	2.44	0.79
1:E:294:ALA:O	1:E:298:ILE:HD12	1.83	0.79
1:F:92:LEU:CB	1:F:97:LEU:H	1.95	0.79
1:F:156:GLY:HA3	1:F:216:ALA:HB2	1.64	0.79
1:F:175:VAL:H	1:F:215:THR:CG2	1.86	0.79
1:H:92:LEU:CB	1:H:97:LEU:H	1.95	0.79
1:I:294:ALA:O	1:I:298:ILE:HD12	1.83	0.79
1:K:68:MET:SD	1:K:105:ARG:CZ	2.71	0.79
1:A:335:SER:O	1:A:336:ALA:CB	2.30	0.79
1:C:68:MET:SD	1:C:105:ARG:CZ	2.71	0.79
1:C:92:LEU:CG	1:C:93:GLU:HB2	2.06	0.79
1:D:9:LEU:HD12	1:D:14:VAL:HG21	1.62	0.79
1:E:68:MET:SD	1:E:105:ARG:CZ	2.71	0.79
1:E:414:LEU:CD2	1:E:418:LEU:HG	2.11	0.79
1:F:67:LEU:CD1	1:F:68:MET:H	1.95	0.79
1:F:68:MET:SD	1:F:105:ARG:NH1	2.55	0.79
1:H:67:LEU:CD1	1:H:68:MET:H	1.95	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:68:MET:SD	1:J:105:ARG:CZ	2.71	0.79
1:J:156:GLY:HA3	1:J:216:ALA:HB2	1.64	0.79
1:J:228:MET:HE2	1:J:371:PHE:HB3	1.64	0.79
1:J:383:LYS:HE3	1:J:384:ASN:N	1.98	0.79
1:J:398:ASP:O	1:J:399:LEU:C	2.25	0.79
1:K:103:ASP:CG	1:K:106:SER:HB2	2.06	0.79
1:K:105:ARG:HH22	1:K:233:ASP:CG	1.90	0.79
1:L:49:PHE:H	1:L:49:PHE:HD2	1.29	0.79
1:A:149:VAL:HG21	1:G:462:PHE:CD1	2.18	0.79
1:B:149:VAL:HG21	1:H:462:PHE:CD1	2.18	0.79
1:B:315:THR:CG2	1:H:465:TYR:HD2	1.61	0.79
1:C:149:VAL:HG21	1:I:462:PHE:CD1	2.18	0.79
1:D:68:MET:SD	1:D:105:ARG:CZ	2.71	0.79
1:D:156:GLY:HA3	1:D:216:ALA:HB2	1.64	0.79
1:D:383:LYS:HE3	1:D:384:ASN:N	1.98	0.79
1:D:398:ASP:O	1:D:399:LEU:C	2.25	0.79
1:F:78:PRO:CB	1:F:79:PHE:CE2	2.64	0.79
1:F:462:PHE:CD1	1:L:149:VAL:HG21	2.18	0.79
1:G:92:LEU:CB	1:G:97:LEU:H	1.95	0.79
1:G:339:ARG:H	1:H:58:LYS:CG	1.94	0.79
1:J:334:TYR:OH	1:J:389:GLY:O	2.00	0.79
1:L:20:ARG:CG	1:L:28:GLU:OE2	2.30	0.79
1:A:68:MET:SD	1:A:105:ARG:NH1	2.55	0.79
1:A:105:ARG:HH22	1:A:233:ASP:CG	1.90	0.79
1:A:398:ASP:O	1:A:399:LEU:C	2.26	0.79
1:B:28:GLU:HG2	1:C:182:VAL:CG1	2.10	0.79
1:B:462:PHE:CD1	1:H:149:VAL:HG21	2.18	0.79
1:D:334:TYR:OH	1:D:389:GLY:O	2.00	0.79
1:E:20:ARG:CG	1:E:28:GLU:OE2	2.30	0.79
1:E:68:MET:C	1:E:70:ASP:H	1.86	0.79
1:E:462:PHE:CD1	1:K:149:VAL:HG21	2.18	0.79
1:F:149:VAL:HG21	1:L:462:PHE:CD1	2.18	0.79
1:G:68:MET:SD	1:G:105:ARG:NH1	2.55	0.79
1:G:339:ARG:C	1:G:339:ARG:HH11	1.90	0.79
1:H:68:MET:SD	1:H:105:ARG:CZ	2.71	0.79
1:H:78:PRO:CB	1:H:79:PHE:CE2	2.64	0.79
1:I:41:GLU:O	1:I:45:GLU:N	2.13	0.79
1:J:347:VAL:HG22	1:J:348:VAL:H	1.45	0.79
1:K:122:ASP:OD1	1:K:122:ASP:O	2.01	0.79
1:K:182:VAL:CG1	1:L:28:GLU:HG2	2.10	0.79
1:K:228:MET:HE2	1:K:371:PHE:HB3	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:92:LEU:CB	1:L:97:LEU:H	1.96	0.79
1:L:136:ASP:H	1:L:153:ASP:HB2	1.46	0.79
1:A:339:ARG:C	1:A:339:ARG:HH11	1.91	0.79
1:B:103:ASP:CG	1:B:106:SER:HB2	2.06	0.79
1:B:136:ASP:H	1:B:153:ASP:HB2	1.46	0.79
1:B:414:LEU:CD2	1:B:418:LEU:HG	2.12	0.79
1:C:122:ASP:OD1	1:C:122:ASP:O	2.01	0.79
1:C:228:MET:HE2	1:C:371:PHE:HB3	1.63	0.79
1:D:335:SER:O	1:D:336:ALA:CB	2.30	0.79
1:E:92:LEU:N	1:E:97:LEU:H	1.79	0.79
1:F:383:LYS:HE3	1:F:384:ASN:N	1.98	0.79
1:I:20:ARG:CG	1:I:28:GLU:OE2	2.30	0.79
1:I:68:MET:C	1:I:70:ASP:H	1.86	0.79
1:A:92:LEU:CB	1:A:97:LEU:H	1.95	0.79
1:A:339:ARG:H	1:F:58:LYS:CG	1.94	0.79
1:B:20:ARG:CG	1:B:28:GLU:OE2	2.30	0.79
1:B:49:PHE:HD2	1:B:49:PHE:H	1.29	0.79
1:B:92:LEU:CB	1:B:97:LEU:H	1.95	0.79
1:C:16:PHE:HA	1:C:33:ILE:O	1.83	0.79
1:C:20:ARG:CG	1:C:28:GLU:OE2	2.30	0.79
1:C:465:TYR:HB2	1:I:315:THR:OG1	1.83	0.79
1:D:16:PHE:HA	1:D:33:ILE:O	1.83	0.79
1:D:347:VAL:HG22	1:D:348:VAL:H	1.45	0.79
1:F:68:MET:SD	1:F:105:ARG:CZ	2.71	0.79
1:F:105:ARG:HH22	1:F:233:ASP:CG	1.90	0.79
1:F:294:ALA:O	1:F:298:ILE:HD12	1.83	0.79
1:G:105:ARG:HH22	1:G:233:ASP:CG	1.90	0.79
1:G:398:ASP:O	1:G:399:LEU:C	2.26	0.79
1:I:93:GLU:CB	1:I:94:PRO:HD3	2.06	0.79
1:I:122:ASP:O	1:I:122:ASP:OD1	2.01	0.79
1:K:16:PHE:HA	1:K:33:ILE:O	1.83	0.79
1:K:20:ARG:CG	1:K:28:GLU:OE2	2.30	0.79
1:K:258:LYS:CB	1:K:317:ASN:HD21	1.96	0.79
1:K:362:ASP:O	1:K:364:ALA:N	2.14	0.79
1:L:414:LEU:CD2	1:L:418:LEU:HG	2.12	0.79
1:B:163:LYS:HZ2	1:B:163:LYS:HB2	1.48	0.78
1:C:258:LYS:CB	1:C:317:ASN:HD21	1.97	0.78
1:D:68:MET:C	1:D:70:ASP:H	1.86	0.78
1:D:258:LYS:HB3	1:D:317:ASN:HD21	1.47	0.78
1:E:41:GLU:O	1:E:45:GLU:N	2.13	0.78
1:E:122:ASP:O	1:E:122:ASP:OD1	2.01	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:315:THR:OG1	1:K:465:TYR:HB2	1.83	0.78
1:F:465:TYR:HD2	1:L:315:THR:CG2	1.61	0.78
1:G:122:ASP:OD1	1:G:122:ASP:O	2.01	0.78
1:H:306:LYS:CG	1:H:411:ALA:HB2	2.08	0.78
1:H:383:LYS:HE3	1:H:384:ASN:N	1.98	0.78
1:J:16:PHE:HA	1:J:33:ILE:O	1.83	0.78
1:J:41:GLU:O	1:J:45:GLU:N	2.13	0.78
1:J:335:SER:O	1:J:336:ALA:CB	2.30	0.78
1:J:376:MET:HE3	1:J:433:VAL:CG2	2.13	0.78
1:K:258:LYS:HB3	1:K:317:ASN:HD21	1.47	0.78
1:L:163:LYS:HB2	1:L:163:LYS:HZ2	1.48	0.78
1:A:189:GLN:O	1:A:190:ASP:C	2.23	0.78
1:B:339:ARG:C	1:B:339:ARG:HH11	1.90	0.78
1:C:258:LYS:HB3	1:C:317:ASN:HD21	1.47	0.78
1:D:376:MET:HE3	1:D:433:VAL:CG2	2.13	0.78
1:F:3:GLU:HA	1:F:3:GLU:OE1	1.84	0.78
1:F:122:ASP:O	1:F:122:ASP:OD1	2.01	0.78
1:G:339:ARG:C	1:G:341:ALA:N	2.35	0.78
1:H:3:GLU:HA	1:H:3:GLU:OE1	1.84	0.78
1:H:122:ASP:O	1:H:122:ASP:OD1	2.01	0.78
1:J:122:ASP:O	1:J:122:ASP:OD1	2.01	0.78
1:J:258:LYS:HB3	1:J:317:ASN:HD21	1.47	0.78
1:J:294:ALA:O	1:J:298:ILE:HD12	1.83	0.78
1:K:67:LEU:CD1	1:K:68:MET:H	1.95	0.78
1:K:376:MET:HE3	1:K:433:VAL:CG2	2.13	0.78
1:A:122:ASP:O	1:A:122:ASP:OD1	2.01	0.78
1:A:228:MET:HE2	1:A:371:PHE:HB3	1.64	0.78
1:A:383:LYS:HE3	1:A:384:ASN:N	1.98	0.78
1:B:3:GLU:HA	1:B:3:GLU:OE1	1.84	0.78
1:B:68:MET:SD	1:B:105:ARG:CZ	2.71	0.78
1:D:41:GLU:O	1:D:45:GLU:N	2.13	0.78
1:D:122:ASP:O	1:D:122:ASP:OD1	2.01	0.78
1:D:315:THR:OG1	1:J:465:TYR:HB2	1.83	0.78
1:F:200:GLU:O	1:F:203:GLY:N	2.17	0.78
1:F:339:ARG:C	1:F:339:ARG:HH11	1.91	0.78
1:G:67:LEU:CD1	1:G:68:MET:H	1.95	0.78
1:G:383:LYS:HE3	1:G:384:ASN:N	1.98	0.78
1:H:258:LYS:HB3	1:H:317:ASN:HD21	1.47	0.78
1:H:294:ALA:O	1:H:298:ILE:HD12	1.83	0.78
1:L:3:GLU:HA	1:L:3:GLU:OE1	1.84	0.78
1:L:258:LYS:CB	1:L:317:ASN:HD21	1.96	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:334:TYR:OH	1:L:389:GLY:O	2.00	0.78
1:A:339:ARG:C	1:A:341:ALA:N	2.35	0.78
1:B:258:LYS:CB	1:B:317:ASN:HD21	1.97	0.78
1:B:334:TYR:OH	1:B:389:GLY:O	2.00	0.78
1:C:376:MET:HE3	1:C:433:VAL:CG2	2.13	0.78
1:D:294:ALA:O	1:D:298:ILE:HD12	1.83	0.78
1:D:465:TYR:HB2	1:J:315:THR:OG1	1.83	0.78
1:E:93:GLU:CB	1:E:94:PRO:HD3	2.06	0.78
1:E:398:ASP:O	1:E:399:LEU:C	2.25	0.78
1:F:258:LYS:HB3	1:F:317:ASN:HD21	1.48	0.78
1:H:105:ARG:HH22	1:H:233:ASP:CG	1.90	0.78
1:H:339:ARG:C	1:H:339:ARG:HH11	1.91	0.78
1:H:398:ASP:O	1:H:399:LEU:C	2.25	0.78
1:I:398:ASP:O	1:I:399:LEU:C	2.25	0.78
1:L:68:MET:SD	1:L:105:ARG:CZ	2.71	0.78
1:L:122:ASP:O	1:L:122:ASP:OD1	2.01	0.78
1:A:78:PRO:HB3	1:A:79:PHE:CD2	2.19	0.78
1:B:122:ASP:O	1:B:122:ASP:OD1	2.01	0.78
1:B:280:ASN:O	1:B:282:PHE:N	2.16	0.78
1:C:67:LEU:CD1	1:C:68:MET:H	1.95	0.78
1:C:92:LEU:CB	1:C:97:LEU:H	1.95	0.78
1:C:462:PHE:CD1	1:I:149:VAL:HG21	2.18	0.78
1:D:20:ARG:CG	1:D:28:GLU:OE2	2.30	0.78
1:D:258:LYS:CB	1:D:317:ASN:HD21	1.97	0.78
1:E:149:VAL:HG21	1:K:462:PHE:CD1	2.18	0.78
1:F:16:PHE:HA	1:F:33:ILE:O	1.83	0.78
1:F:335:SER:O	1:F:336:ALA:CB	2.30	0.78
1:G:78:PRO:HB3	1:G:79:PHE:CD2	2.19	0.78
1:G:189:GLN:O	1:G:190:ASP:C	2.23	0.78
1:L:339:ARG:C	1:L:339:ARG:HH11	1.90	0.78
1:A:67:LEU:CD1	1:A:68:MET:H	1.95	0.78
1:B:383:LYS:HE3	1:B:384:ASN:N	1.98	0.78
1:D:339:ARG:C	1:D:339:ARG:HH11	1.90	0.78
1:F:78:PRO:HB3	1:F:79:PHE:CD2	2.19	0.78
1:F:398:ASP:O	1:F:399:LEU:C	2.26	0.78
1:G:228:MET:HE2	1:G:371:PHE:HB3	1.63	0.78
1:G:294:ALA:O	1:G:298:ILE:HD12	1.83	0.78
1:H:16:PHE:HA	1:H:33:ILE:O	1.83	0.78
1:H:78:PRO:HB3	1:H:79:PHE:CD2	2.19	0.78
1:H:200:GLU:O	1:H:203:GLY:N	2.17	0.78
1:H:335:SER:O	1:H:336:ALA:CB	2.30	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:339:ARG:C	1:I:339:ARG:HH11	1.91	0.78
1:J:258:LYS:CB	1:J:317:ASN:HD21	1.97	0.78
1:L:105:ARG:HH22	1:L:233:ASP:CG	1.90	0.78
1:A:13:GLU:O	1:A:14:VAL:O	2.02	0.78
1:A:16:PHE:HA	1:A:33:ILE:O	1.83	0.78
1:A:376:MET:HE3	1:A:433:VAL:CG2	2.13	0.78
1:D:103:ASP:N	1:D:104:PRO:HD3	1.96	0.78
1:D:149:VAL:HG21	1:J:462:PHE:CD1	2.18	0.78
1:E:78:PRO:HB3	1:E:79:PHE:CD2	2.19	0.78
1:E:258:LYS:CB	1:E:317:ASN:HD21	1.96	0.78
1:E:316:THR:HG22	1:K:461:GLU:CD	2.09	0.78
1:E:339:ARG:C	1:E:339:ARG:HH11	1.91	0.78
1:F:376:MET:HE3	1:F:433:VAL:CG2	2.13	0.78
1:G:258:LYS:CB	1:G:317:ASN:HD21	1.97	0.78
1:G:376:MET:HE3	1:G:433:VAL:CG2	2.13	0.78
1:I:103:ASP:N	1:I:104:PRO:HD3	1.96	0.78
1:J:20:ARG:CG	1:J:28:GLU:OE2	2.30	0.78
1:J:103:ASP:N	1:J:104:PRO:HD3	1.96	0.78
1:K:92:LEU:CB	1:K:97:LEU:H	1.96	0.78
1:K:200:GLU:O	1:K:203:GLY:N	2.17	0.78
1:L:280:ASN:O	1:L:282:PHE:N	2.17	0.78
1:A:111:ALA:HA	1:A:433:VAL:HG21	1.66	0.78
1:A:200:GLU:O	1:A:203:GLY:N	2.17	0.78
1:A:294:ALA:O	1:A:298:ILE:HD12	1.83	0.78
1:B:13:GLU:O	1:B:14:VAL:O	2.02	0.78
1:B:16:PHE:HA	1:B:33:ILE:O	1.83	0.78
1:B:105:ARG:HH22	1:B:233:ASP:CG	1.90	0.78
1:C:461:GLU:CD	1:I:316:THR:HG22	2.09	0.78
1:D:280:ASN:O	1:D:282:PHE:N	2.16	0.78
1:D:462:PHE:CD1	1:J:149:VAL:HG21	2.18	0.78
1:E:103:ASP:N	1:E:104:PRO:HD3	1.96	0.78
1:F:13:GLU:O	1:F:14:VAL:O	2.02	0.78
1:H:13:GLU:O	1:H:14:VAL:O	2.02	0.78
1:H:272:MET:HE2	1:H:297:TYR:HE2	1.49	0.78
1:H:376:MET:HE3	1:H:433:VAL:CG2	2.13	0.78
1:I:49:PHE:HD2	1:I:49:PHE:H	1.29	0.78
1:I:78:PRO:HB3	1:I:79:PHE:CD2	2.19	0.78
1:J:67:LEU:CD1	1:J:68:MET:H	1.95	0.78
1:L:339:ARG:C	1:L:341:ALA:N	2.35	0.78
1:A:258:LYS:CB	1:A:317:ASN:HD21	1.97	0.78
1:A:315:THR:OG1	1:G:465:TYR:HB2	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:339:ARG:C	1:B:341:ALA:N	2.35	0.78
1:C:48:MET:HB2	1:C:62:GLU:O	1.84	0.78
1:C:200:GLU:O	1:C:203:GLY:N	2.17	0.78
1:C:334:TYR:OH	1:C:389:GLY:O	2.00	0.78
1:D:67:LEU:CD1	1:D:68:MET:H	1.95	0.78
1:D:316:THR:HG22	1:J:461:GLU:CD	2.09	0.78
1:E:3:GLU:O	1:E:6:LEU:HB2	1.84	0.78
1:F:315:THR:OG1	1:L:465:TYR:HB2	1.82	0.78
1:G:111:ALA:HA	1:G:433:VAL:HG21	1.66	0.78
1:I:258:LYS:CB	1:I:317:ASN:HD21	1.96	0.78
1:J:280:ASN:O	1:J:282:PHE:N	2.17	0.78
1:J:339:ARG:C	1:J:339:ARG:HH11	1.91	0.78
1:K:334:TYR:OH	1:K:389:GLY:O	2.00	0.78
1:L:16:PHE:HA	1:L:33:ILE:O	1.83	0.78
1:A:465:TYR:HB2	1:G:315:THR:OG1	1.83	0.78
1:B:461:GLU:CD	1:H:316:THR:HG22	2.09	0.78
1:C:339:ARG:C	1:C:339:ARG:HH11	1.90	0.78
1:D:48:MET:HB2	1:D:62:GLU:O	1.84	0.78
1:D:272:MET:HE2	1:D:297:TYR:HE2	1.49	0.78
1:D:461:GLU:CD	1:J:316:THR:HG22	2.09	0.78
1:E:39:ASN:C	1:E:39:ASN:HD22	1.92	0.78
1:E:49:PHE:HD2	1:E:49:PHE:H	1.29	0.78
1:E:200:GLU:O	1:E:203:GLY:N	2.17	0.78
1:E:272:MET:HE2	1:E:297:TYR:HE2	1.49	0.78
1:E:335:SER:O	1:E:336:ALA:CB	2.31	0.78
1:F:136:ASP:H	1:F:153:ASP:HB2	1.46	0.78
1:F:272:MET:HE2	1:F:297:TYR:HE2	1.49	0.78
1:G:13:GLU:O	1:G:14:VAL:O	2.02	0.78
1:G:16:PHE:HA	1:G:33:ILE:O	1.83	0.78
1:G:68:MET:SD	1:G:105:ARG:CZ	2.71	0.78
1:G:200:GLU:O	1:G:203:GLY:N	2.17	0.78
1:I:39:ASN:C	1:I:39:ASN:HD22	1.92	0.78
1:I:200:GLU:O	1:I:203:GLY:N	2.17	0.78
1:I:272:MET:HE2	1:I:297:TYR:HE2	1.49	0.78
1:I:335:SER:O	1:I:336:ALA:CB	2.31	0.78
1:J:200:GLU:O	1:J:203:GLY:N	2.17	0.78
1:K:48:MET:HB2	1:K:62:GLU:O	1.84	0.78
1:L:13:GLU:O	1:L:14:VAL:O	2.02	0.78
1:L:78:PRO:HB3	1:L:79:PHE:CD2	2.19	0.78
1:L:383:LYS:HE3	1:L:384:ASN:N	1.98	0.78
1:A:41:GLU:O	1:A:45:GLU:N	2.13	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:MET:SD	1:A:105:ARG:CZ	2.71	0.77
1:A:183:PRO:O	1:A:186:ASP:N	2.17	0.77
1:B:78:PRO:HB3	1:B:79:PHE:CD2	2.19	0.77
1:B:399:LEU:C	1:B:401:PRO:HD2	2.09	0.77
1:B:458:HIS:CD2	1:B:460:VAL:H	2.03	0.77
1:C:82:ASP:N	1:C:82:ASP:OD1	2.16	0.77
1:C:294:ALA:O	1:C:298:ILE:HD12	1.83	0.77
1:D:200:GLU:O	1:D:203:GLY:N	2.17	0.77
1:E:383:LYS:HE3	1:E:384:ASN:N	1.98	0.77
1:F:316:THR:HG22	1:L:461:GLU:CD	2.09	0.77
1:G:27:LYS:HZ3	1:G:239:LYS:CE	1.95	0.77
1:G:280:ASN:O	1:G:282:PHE:N	2.17	0.77
1:G:339:ARG:HB3	1:H:58:LYS:CG	2.15	0.77
1:I:13:GLU:O	1:I:14:VAL:O	2.02	0.77
1:I:376:MET:HE3	1:I:433:VAL:CG2	2.13	0.77
1:I:383:LYS:HE3	1:I:384:ASN:N	1.98	0.77
1:J:272:MET:HE2	1:J:297:TYR:HE2	1.49	0.77
1:K:82:ASP:N	1:K:82:ASP:OD1	2.16	0.77
1:K:294:ALA:O	1:K:298:ILE:HD12	1.83	0.77
1:L:78:PRO:CB	1:L:79:PHE:CE2	2.64	0.77
1:A:136:ASP:H	1:A:153:ASP:HB2	1.46	0.77
1:A:280:ASN:O	1:A:282:PHE:N	2.17	0.77
1:A:339:ARG:HB3	1:F:58:LYS:CG	2.15	0.77
1:B:67:LEU:CD1	1:B:68:MET:H	1.95	0.77
1:B:78:PRO:CB	1:B:79:PHE:CE2	2.65	0.77
1:B:465:TYR:HB2	1:H:315:THR:OG1	1.82	0.77
1:C:41:GLU:O	1:C:45:GLU:N	2.13	0.77
1:D:39:ASN:C	1:D:39:ASN:HD22	1.92	0.77
1:D:78:PRO:HB3	1:D:79:PHE:CD2	2.19	0.77
1:E:13:GLU:O	1:E:14:VAL:O	2.02	0.77
1:E:376:MET:HE3	1:E:433:VAL:CG2	2.13	0.77
1:F:403:GLU:CA	1:F:405:LYS:HG3	2.15	0.77
1:G:41:GLU:O	1:G:45:GLU:N	2.13	0.77
1:G:183:PRO:O	1:G:186:ASP:N	2.17	0.77
1:H:403:GLU:CA	1:H:405:LYS:HG3	2.15	0.77
1:I:3:GLU:O	1:I:6:LEU:HB2	1.85	0.77
1:I:280:ASN:O	1:I:282:PHE:N	2.17	0.77
1:I:348:VAL:HG11	1:I:354:ARG:CD	2.14	0.77
1:J:3:GLU:HA	1:J:3:GLU:OE1	1.83	0.77
1:J:48:MET:HB2	1:J:62:GLU:O	1.84	0.77
1:K:272:MET:HE2	1:K:297:TYR:HE2	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:399:LEU:C	1:L:401:PRO:HD2	2.10	0.77
1:L:458:HIS:CD2	1:L:460:VAL:H	2.03	0.77
1:A:465:TYR:CE2	1:G:315:THR:HG21	2.05	0.77
1:C:3:GLU:HA	1:C:3:GLU:OE1	1.83	0.77
1:E:348:VAL:HG11	1:E:354:ARG:CD	2.15	0.77
1:F:306:LYS:HG2	1:F:411:ALA:CB	2.12	0.77
1:F:465:TYR:HB2	1:L:315:THR:OG1	1.83	0.77
1:G:136:ASP:H	1:G:153:ASP:HB2	1.46	0.77
1:G:399:LEU:C	1:G:401:PRO:HD2	2.09	0.77
1:J:78:PRO:HB3	1:J:79:PHE:CD2	2.19	0.77
1:K:49:PHE:H	1:K:49:PHE:HD2	1.29	0.77
1:A:403:GLU:CA	1:A:405:LYS:HG3	2.15	0.77
1:B:315:THR:OG1	1:H:465:TYR:HB2	1.83	0.77
1:C:9:LEU:O	1:C:14:VAL:HG13	1.85	0.77
1:C:13:GLU:O	1:C:14:VAL:O	2.02	0.77
1:C:103:ASP:N	1:C:104:PRO:HD3	1.96	0.77
1:E:280:ASN:O	1:E:282:PHE:N	2.17	0.77
1:F:466:TYR:OH	1:L:252:THR:HG22	1.85	0.77
1:G:103:ASP:OD1	1:G:106:SER:HB2	1.85	0.77
1:H:136:ASP:H	1:H:153:ASP:HB2	1.46	0.77
1:H:163:LYS:HB2	1:H:163:LYS:HZ2	1.50	0.77
1:K:13:GLU:O	1:K:14:VAL:O	2.02	0.77
1:K:339:ARG:C	1:K:339:ARG:HH11	1.91	0.77
1:A:399:LEU:C	1:A:401:PRO:HD2	2.10	0.77
1:B:111:ALA:HA	1:B:433:VAL:HG21	1.66	0.77
1:B:183:PRO:O	1:B:186:ASP:N	2.17	0.77
1:C:49:PHE:HD2	1:C:49:PHE:H	1.29	0.77
1:C:272:MET:HE2	1:C:297:TYR:HE2	1.49	0.77
1:C:280:ASN:O	1:C:282:PHE:N	2.17	0.77
1:D:3:GLU:HA	1:D:3:GLU:OE1	1.84	0.77
1:D:13:GLU:O	1:D:14:VAL:O	2.02	0.77
1:F:103:ASP:OD1	1:F:106:SER:HB2	1.85	0.77
1:H:103:ASP:OD1	1:H:106:SER:HB2	1.85	0.77
1:H:306:LYS:HG2	1:H:411:ALA:CB	2.12	0.77
1:I:103:ASP:OD1	1:I:106:SER:HB2	1.85	0.77
1:K:9:LEU:O	1:K:14:VAL:HG13	1.85	0.77
1:K:41:GLU:O	1:K:45:GLU:N	2.13	0.77
1:K:103:ASP:N	1:K:104:PRO:HD3	1.96	0.77
1:K:281:LEU:H	1:K:281:LEU:CD1	1.92	0.77
1:L:48:MET:HB2	1:L:62:GLU:O	1.84	0.77
1:L:111:ALA:HA	1:L:433:VAL:HG21	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:183:PRO:O	1:L:186:ASP:N	2.17	0.77
1:A:103:ASP:OD1	1:A:106:SER:HB2	1.85	0.77
1:A:315:THR:HG23	1:G:465:TYR:HE2	1.47	0.77
1:A:316:THR:HG22	1:G:461:GLU:CD	2.09	0.77
1:B:75:VAL:HG23	1:B:84:THR:HG22	1.67	0.77
1:B:376:MET:HE3	1:B:433:VAL:CG2	2.13	0.77
1:D:75:VAL:HG23	1:D:84:THR:HG22	1.66	0.77
1:F:347:VAL:HG22	1:F:348:VAL:H	1.45	0.77
1:F:399:LEU:C	1:F:401:PRO:HD2	2.10	0.77
1:G:48:MET:HB2	1:G:62:GLU:O	1.84	0.77
1:G:403:GLU:CA	1:G:405:LYS:HG3	2.15	0.77
1:H:399:LEU:C	1:H:401:PRO:HD2	2.09	0.77
1:J:13:GLU:O	1:J:14:VAL:O	2.02	0.77
1:L:67:LEU:CD1	1:L:68:MET:H	1.95	0.77
1:A:272:MET:HE2	1:A:297:TYR:HE2	1.49	0.77
1:A:461:GLU:CD	1:G:316:THR:HG22	2.09	0.77
1:B:48:MET:HB2	1:B:62:GLU:O	1.84	0.77
1:B:294:ALA:O	1:B:298:ILE:HD12	1.83	0.77
1:D:3:GLU:O	1:D:6:LEU:HB2	1.84	0.77
1:E:103:ASP:OD1	1:E:106:SER:HB2	1.85	0.77
1:E:347:VAL:HG22	1:E:348:VAL:H	1.45	0.77
1:F:3:GLU:O	1:F:6:LEU:HB2	1.85	0.77
1:G:272:MET:HE2	1:G:297:TYR:HE2	1.49	0.77
1:H:111:ALA:HA	1:H:433:VAL:HG21	1.66	0.77
1:H:347:VAL:HG22	1:H:348:VAL:H	1.45	0.77
1:K:3:GLU:OE1	1:K:3:GLU:HA	1.84	0.77
1:K:280:ASN:O	1:K:282:PHE:N	2.17	0.77
1:L:376:MET:HE3	1:L:433:VAL:CG2	2.13	0.77
1:A:58:LYS:CG	1:B:339:ARG:HB3	2.15	0.77
1:A:315:THR:HG21	1:G:465:TYR:CE2	2.05	0.77
1:B:252:THR:HG22	1:H:466:TYR:OH	1.85	0.77
1:C:316:THR:HG22	1:I:461:GLU:CD	2.09	0.77
1:E:48:MET:HB2	1:E:62:GLU:O	1.84	0.77
1:F:111:ALA:HA	1:F:433:VAL:HG21	1.66	0.77
1:F:258:LYS:CB	1:F:317:ASN:HD21	1.97	0.77
1:F:458:HIS:CD2	1:F:460:VAL:H	2.03	0.77
1:H:3:GLU:O	1:H:6:LEU:HB2	1.85	0.77
1:H:258:LYS:CB	1:H:317:ASN:HD21	1.97	0.77
1:H:458:HIS:CD2	1:H:460:VAL:H	2.03	0.77
1:I:174:GLY:O	1:I:175:VAL:O	2.03	0.77
1:J:3:GLU:O	1:J:6:LEU:HB2	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:39:ASN:C	1:J:39:ASN:HD22	1.92	0.77
1:J:339:ARG:H	1:K:58:LYS:CG	1.94	0.77
1:K:75:VAL:HG23	1:K:84:THR:HG22	1.67	0.77
1:K:78:PRO:HB3	1:K:79:PHE:CD2	2.19	0.77
1:L:75:VAL:HG23	1:L:84:THR:HG22	1.67	0.77
1:L:272:MET:HE2	1:L:297:TYR:HE2	1.49	0.77
1:A:48:MET:HB2	1:A:62:GLU:O	1.84	0.77
1:A:465:TYR:HE2	1:G:315:THR:HG23	1.47	0.77
1:B:86:ILE:N	1:B:86:ILE:CD1	2.44	0.77
1:C:281:LEU:H	1:C:281:LEU:CD1	1.92	0.77
1:E:58:LYS:CG	1:F:339:ARG:HB3	2.15	0.77
1:E:78:PRO:CB	1:E:79:PHE:CE2	2.64	0.77
1:G:58:LYS:CG	1:L:339:ARG:HB3	2.15	0.77
1:G:347:VAL:CG2	1:G:348:VAL:N	2.48	0.77
1:H:339:ARG:HB3	1:I:58:LYS:CG	2.15	0.77
1:I:48:MET:HB2	1:I:62:GLU:O	1.84	0.77
1:I:78:PRO:CB	1:I:79:PHE:CE2	2.64	0.77
1:J:67:LEU:HD21	1:J:88:ARG:HB3	1.67	0.77
1:J:183:PRO:O	1:J:186:ASP:N	2.17	0.77
1:J:399:LEU:C	1:J:401:PRO:HD2	2.10	0.77
1:K:3:GLU:O	1:K:6:LEU:HB2	1.85	0.77
1:L:103:ASP:OD1	1:L:106:SER:HB2	1.85	0.77
1:L:200:GLU:O	1:L:203:GLY:N	2.17	0.77
1:L:294:ALA:O	1:L:298:ILE:HD12	1.83	0.77
1:A:27:LYS:HZ3	1:A:239:LYS:CE	1.96	0.77
1:A:231:LYS:HA	1:A:234:GLU:HG3	1.67	0.77
1:A:347:VAL:CG2	1:A:348:VAL:N	2.48	0.77
1:B:174:GLY:O	1:B:175:VAL:O	2.03	0.77
1:B:272:MET:HE2	1:B:297:TYR:HE2	1.49	0.77
1:B:347:VAL:CG2	1:B:348:VAL:N	2.48	0.77
1:C:78:PRO:HB3	1:C:79:PHE:CD2	2.19	0.77
1:C:231:LYS:HA	1:C:234:GLU:HG3	1.67	0.77
1:D:67:LEU:HD21	1:D:88:ARG:HB3	1.67	0.77
1:D:174:GLY:O	1:D:175:VAL:O	2.03	0.77
1:D:399:LEU:C	1:D:401:PRO:HD2	2.10	0.77
1:E:67:LEU:HD21	1:E:88:ARG:HB3	1.67	0.77
1:E:174:GLY:O	1:E:175:VAL:O	2.03	0.77
1:E:461:GLU:CD	1:K:316:THR:HG22	2.09	0.77
1:F:348:VAL:HG11	1:F:354:ARG:CD	2.14	0.77
1:H:348:VAL:HG11	1:H:354:ARG:CD	2.15	0.77
1:H:414:LEU:CD2	1:H:418:LEU:HG	2.12	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:174:GLY:O	1:J:175:VAL:O	2.03	0.77
1:J:339:ARG:HB3	1:K:58:LYS:CG	2.15	0.77
1:A:3:GLU:HA	1:A:3:GLU:OE1	1.84	0.76
1:B:103:ASP:OD1	1:B:106:SER:HB2	1.85	0.76
1:C:67:LEU:HD21	1:C:88:ARG:HB3	1.67	0.76
1:C:76:ILE:HG12	1:C:198:VAL:HG13	1.68	0.76
1:D:38:VAL:O	1:D:39:ASN:HB3	1.85	0.76
1:D:103:ASP:OD1	1:D:106:SER:HB2	1.85	0.76
1:E:403:GLU:CA	1:E:405:LYS:HG3	2.15	0.76
1:F:414:LEU:CD2	1:F:418:LEU:HG	2.12	0.76
1:G:231:LYS:HA	1:G:234:GLU:HG3	1.68	0.76
1:I:67:LEU:HD21	1:I:88:ARG:HB3	1.67	0.76
1:I:403:GLU:CA	1:I:405:LYS:HG3	2.15	0.76
1:K:27:LYS:HZ3	1:K:239:LYS:HZ2	1.31	0.76
1:K:76:ILE:HG12	1:K:198:VAL:HG13	1.68	0.76
1:L:174:GLY:O	1:L:175:VAL:O	2.03	0.76
1:L:347:VAL:CG2	1:L:348:VAL:N	2.48	0.76
1:A:75:VAL:C	1:A:76:ILE:O	2.21	0.76
1:B:200:GLU:O	1:B:203:GLY:N	2.17	0.76
1:B:231:LYS:HA	1:B:234:GLU:HG3	1.67	0.76
1:C:3:GLU:O	1:C:6:LEU:HB2	1.85	0.76
1:C:58:LYS:CG	1:D:339:ARG:HB3	2.15	0.76
1:C:75:VAL:HG23	1:C:84:THR:HG22	1.67	0.76
1:D:183:PRO:O	1:D:186:ASP:N	2.17	0.76
1:I:175:VAL:H	1:I:215:THR:CG2	1.86	0.76
1:I:231:LYS:HA	1:I:234:GLU:HG3	1.67	0.76
1:J:38:VAL:O	1:J:39:ASN:HB3	1.85	0.76
1:J:103:ASP:OD1	1:J:106:SER:HB2	1.85	0.76
1:J:231:LYS:HA	1:J:234:GLU:HG3	1.67	0.76
1:K:93:GLU:CB	1:K:94:PRO:HD3	2.06	0.76
1:L:9:LEU:O	1:L:14:VAL:HG13	1.85	0.76
1:L:38:VAL:O	1:L:39:ASN:HB3	1.85	0.76
1:B:3:GLU:O	1:B:6:LEU:HB2	1.84	0.76
1:B:9:LEU:O	1:B:14:VAL:HG13	1.85	0.76
1:C:28:GLU:HG3	1:D:182:VAL:HG11	1.57	0.76
1:C:446:ARG:N	1:C:446:ARG:HD2	2.00	0.76
1:D:9:LEU:O	1:D:14:VAL:HG13	1.85	0.76
1:E:306:LYS:HG2	1:E:411:ALA:CB	2.11	0.76
1:F:48:MET:HB2	1:F:62:GLU:O	1.84	0.76
1:G:174:GLY:O	1:G:175:VAL:O	2.03	0.76
1:I:75:VAL:HG23	1:I:84:THR:HG22	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:306:LYS:HG2	1:I:411:ALA:CB	2.11	0.76
1:I:347:VAL:HG22	1:I:348:VAL:H	1.45	0.76
1:J:75:VAL:HG23	1:J:84:THR:HG22	1.67	0.76
1:J:79:PHE:CG	1:J:80:PHE:N	2.53	0.76
1:K:67:LEU:HD21	1:K:88:ARG:HB3	1.67	0.76
1:K:446:ARG:N	1:K:446:ARG:HD2	2.00	0.76
1:L:3:GLU:O	1:L:6:LEU:HB2	1.84	0.76
1:L:41:GLU:O	1:L:45:GLU:N	2.13	0.76
1:L:379:LEU:HD12	1:L:380:ASP:N	2.01	0.76
1:B:38:VAL:O	1:B:39:ASN:HB3	1.85	0.76
1:B:41:GLU:O	1:B:45:GLU:N	2.13	0.76
1:C:458:HIS:CD2	1:C:460:VAL:H	2.03	0.76
1:D:231:LYS:HA	1:D:234:GLU:HG3	1.68	0.76
1:F:174:GLY:O	1:F:175:VAL:O	2.03	0.76
1:G:9:LEU:O	1:G:14:VAL:HG13	1.85	0.76
1:G:75:VAL:C	1:G:76:ILE:O	2.21	0.76
1:H:48:MET:HB2	1:H:62:GLU:O	1.84	0.76
1:H:58:LYS:HD3	1:H:59:GLY:N	1.95	0.76
1:J:9:LEU:O	1:J:14:VAL:HG13	1.85	0.76
1:J:76:ILE:H	1:J:76:ILE:HD12	0.60	0.76
1:K:231:LYS:HA	1:K:234:GLU:HG3	1.68	0.76
1:K:399:LEU:C	1:K:401:PRO:HD2	2.09	0.76
1:K:458:HIS:CD2	1:K:460:VAL:H	2.02	0.76
1:L:231:LYS:HA	1:L:234:GLU:HG3	1.67	0.76
1:A:9:LEU:O	1:A:14:VAL:HG13	1.85	0.76
1:A:174:GLY:O	1:A:175:VAL:O	2.03	0.76
1:B:82:ASP:OD1	1:B:82:ASP:N	2.16	0.76
1:D:379:LEU:HD12	1:D:380:ASP:N	2.01	0.76
1:E:75:VAL:HG23	1:E:84:THR:HG22	1.67	0.76
1:F:58:LYS:HD3	1:F:59:GLY:N	1.96	0.76
1:F:91:ILE:C	1:F:97:LEU:O	2.29	0.76
1:F:280:ASN:O	1:F:282:PHE:N	2.16	0.76
1:G:3:GLU:OE1	1:G:3:GLU:HA	1.84	0.76
1:G:379:LEU:HD12	1:G:380:ASP:N	2.01	0.76
1:H:67:LEU:HD21	1:H:88:ARG:HB3	1.67	0.76
1:H:174:GLY:O	1:H:175:VAL:O	2.03	0.76
1:H:280:ASN:O	1:H:282:PHE:N	2.17	0.76
1:J:347:VAL:CG2	1:J:348:VAL:H	1.99	0.76
1:J:379:LEU:HD12	1:J:380:ASP:N	2.01	0.76
1:L:91:ILE:C	1:L:97:LEU:O	2.29	0.76
1:A:82:ASP:OD1	1:A:82:ASP:N	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:379:LEU:HD12	1:B:380:ASP:N	2.01	0.76
1:C:58:LYS:CG	1:D:339:ARG:H	1.94	0.76
1:C:399:LEU:C	1:C:401:PRO:HD2	2.10	0.76
1:E:91:ILE:C	1:E:97:LEU:O	2.29	0.76
1:E:399:LEU:C	1:E:401:PRO:HD2	2.09	0.76
1:F:67:LEU:HD21	1:F:88:ARG:HB3	1.67	0.76
1:F:231:LYS:HA	1:F:234:GLU:HG3	1.67	0.76
1:G:414:LEU:O	1:G:415:GLU:C	2.29	0.76
1:H:91:ILE:C	1:H:97:LEU:O	2.29	0.76
1:H:231:LYS:HA	1:H:234:GLU:HG3	1.67	0.76
1:J:347:VAL:CG2	1:J:348:VAL:N	2.48	0.76
1:J:446:ARG:HD2	1:J:446:ARG:N	2.01	0.76
1:L:27:LYS:HZ3	1:L:239:LYS:HZ2	0.85	0.76
1:L:82:ASP:OD1	1:L:82:ASP:N	2.16	0.76
1:L:414:LEU:O	1:L:415:GLU:C	2.29	0.76
1:A:379:LEU:HD12	1:A:380:ASP:N	2.01	0.76
1:A:414:LEU:O	1:A:415:GLU:C	2.29	0.76
1:A:466:TYR:OH	1:G:252:THR:HG22	1.85	0.76
1:B:91:ILE:C	1:B:97:LEU:O	2.29	0.76
1:B:403:GLU:CA	1:B:405:LYS:HG3	2.14	0.76
1:B:414:LEU:HD21	1:B:418:LEU:CG	2.14	0.76
1:B:414:LEU:O	1:B:415:GLU:C	2.29	0.76
1:C:111:ALA:HA	1:C:433:VAL:HG21	1.66	0.76
1:C:347:VAL:CG2	1:C:348:VAL:N	2.48	0.76
1:D:49:PHE:H	1:D:49:PHE:HD2	1.29	0.76
1:D:72:SER:C	1:D:73:THR:CG2	2.59	0.76
1:D:79:PHE:CG	1:D:80:PHE:N	2.53	0.76
1:D:414:LEU:HD21	1:D:418:LEU:CG	2.14	0.76
1:D:446:ARG:N	1:D:446:ARG:HD2	2.00	0.76
1:E:175:VAL:H	1:E:215:THR:CG2	1.86	0.76
1:H:68:MET:O	1:H:71:ALA:N	2.19	0.76
1:H:75:VAL:C	1:H:76:ILE:O	2.21	0.76
1:I:91:ILE:C	1:I:97:LEU:O	2.29	0.76
1:J:72:SER:C	1:J:73:THR:CG2	2.59	0.76
1:J:182:VAL:HG11	1:K:28:GLU:HG3	1.57	0.76
1:J:414:LEU:HD21	1:J:418:LEU:CG	2.14	0.76
1:K:72:SER:C	1:K:73:THR:CG2	2.59	0.76
1:A:3:GLU:O	1:A:6:LEU:HB2	1.85	0.76
1:A:91:ILE:C	1:A:97:LEU:O	2.29	0.76
1:B:316:THR:HG22	1:H:461:GLU:CD	2.09	0.76
1:C:174:GLY:O	1:C:175:VAL:O	2.03	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:347:VAL:CG2	1:D:348:VAL:N	2.48	0.76
1:D:347:VAL:CG2	1:D:348:VAL:H	1.99	0.76
1:E:231:LYS:HA	1:E:234:GLU:HG3	1.67	0.76
1:E:347:VAL:CG2	1:E:348:VAL:N	2.48	0.76
1:G:82:ASP:N	1:G:82:ASP:OD1	2.16	0.76
1:I:399:LEU:C	1:I:401:PRO:HD2	2.10	0.76
1:K:174:GLY:O	1:K:175:VAL:O	2.03	0.76
1:A:252:THR:HG22	1:G:466:TYR:OH	1.85	0.76
1:A:345:ILE:CD1	1:A:345:ILE:N	2.31	0.76
1:B:14:VAL:HA	1:B:81:ALA:HB3	1.67	0.76
1:B:68:MET:O	1:B:71:ALA:N	2.19	0.76
1:B:76:ILE:HG12	1:B:198:VAL:HG13	1.68	0.76
1:B:347:VAL:CG2	1:B:348:VAL:H	1.98	0.76
1:C:72:SER:C	1:C:73:THR:CG2	2.59	0.76
1:C:91:ILE:C	1:C:97:LEU:O	2.29	0.76
1:C:339:ARG:CG	1:C:340:SER:N	2.49	0.76
1:E:72:SER:C	1:E:73:THR:CG2	2.59	0.76
1:E:183:PRO:O	1:E:186:ASP:N	2.17	0.76
1:E:379:LEU:HD12	1:E:380:ASP:N	2.01	0.76
1:E:385:LYS:CG	1:E:386:ILE:H	1.98	0.76
1:F:68:MET:O	1:F:71:ALA:N	2.19	0.76
1:F:76:ILE:HG12	1:F:198:VAL:HG13	1.68	0.76
1:H:76:ILE:HG12	1:H:198:VAL:HG13	1.68	0.76
1:I:72:SER:C	1:I:73:THR:CG2	2.59	0.76
1:I:76:ILE:H	1:I:76:ILE:HD12	0.60	0.76
1:I:347:VAL:CG2	1:I:348:VAL:N	2.48	0.76
1:I:385:LYS:CG	1:I:386:ILE:H	1.98	0.76
1:K:111:ALA:HA	1:K:433:VAL:HG21	1.66	0.76
1:K:347:VAL:CG2	1:K:348:VAL:N	2.48	0.76
1:L:65:MET:C	1:L:87:ILE:HG23	2.11	0.76
1:L:68:MET:O	1:L:71:ALA:N	2.19	0.76
1:A:67:LEU:HD21	1:A:88:ARG:HB3	1.67	0.76
1:A:68:MET:O	1:A:71:ALA:N	2.19	0.76
1:B:465:TYR:HE2	1:H:315:THR:HG23	1.47	0.76
1:D:76:ILE:H	1:D:76:ILE:HD12	0.60	0.76
1:D:91:ILE:C	1:D:97:LEU:O	2.29	0.76
1:D:414:LEU:CD2	1:D:418:LEU:HG	2.12	0.76
1:F:461:GLU:CD	1:L:316:THR:HG22	2.09	0.76
1:G:3:GLU:O	1:G:6:LEU:HB2	1.85	0.76
1:G:68:MET:O	1:G:71:ALA:N	2.19	0.76
1:G:347:VAL:CG2	1:G:348:VAL:H	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:111:ALA:HA	1:I:433:VAL:HG21	1.66	0.76
1:I:183:PRO:O	1:I:186:ASP:N	2.17	0.76
1:I:379:LEU:HD12	1:I:380:ASP:N	2.01	0.76
1:J:49:PHE:HD2	1:J:49:PHE:H	1.29	0.76
1:J:414:LEU:CD2	1:J:418:LEU:HG	2.12	0.76
1:K:339:ARG:CG	1:K:340:SER:N	2.49	0.76
1:K:414:LEU:CD2	1:K:418:LEU:HG	2.12	0.76
1:L:347:VAL:CG2	1:L:348:VAL:H	1.98	0.76
1:L:414:LEU:HD21	1:L:418:LEU:CG	2.14	0.76
1:A:38:VAL:O	1:A:39:ASN:HB3	1.85	0.75
1:A:347:VAL:CG2	1:A:348:VAL:H	1.98	0.75
1:B:58:LYS:CG	1:C:339:ARG:HB3	2.15	0.75
1:C:379:LEU:HD12	1:C:380:ASP:N	2.01	0.75
1:C:414:LEU:O	1:C:415:GLU:C	2.29	0.75
1:D:252:THR:HG21	1:J:466:TYR:HH	1.49	0.75
1:D:385:LYS:CG	1:D:386:ILE:H	1.98	0.75
1:D:403:GLU:CA	1:D:405:LYS:HG3	2.14	0.75
1:E:347:VAL:CG2	1:E:348:VAL:H	1.98	0.75
1:F:9:LEU:O	1:F:14:VAL:HG13	1.85	0.75
1:F:75:VAL:C	1:F:76:ILE:O	2.21	0.75
1:F:315:THR:HG23	1:L:465:TYR:HE2	1.48	0.75
1:G:67:LEU:HD21	1:G:88:ARG:HB3	1.67	0.75
1:G:91:ILE:C	1:G:97:LEU:O	2.29	0.75
1:H:183:PRO:O	1:H:186:ASP:N	2.17	0.75
1:J:76:ILE:HG12	1:J:198:VAL:HG13	1.68	0.75
1:K:339:ARG:HB3	1:L:58:LYS:CG	2.14	0.75
1:L:76:ILE:HG12	1:L:198:VAL:HG13	1.68	0.75
1:L:348:VAL:HG11	1:L:354:ARG:CD	2.15	0.75
1:L:403:GLU:CA	1:L:405:LYS:HG3	2.15	0.75
1:B:65:MET:C	1:B:87:ILE:HG23	2.12	0.75
1:B:446:ARG:HD2	1:B:446:ARG:H	1.51	0.75
1:E:3:GLU:HA	1:E:3:GLU:OE1	1.84	0.75
1:E:14:VAL:HA	1:E:81:ALA:HB3	1.68	0.75
1:E:111:ALA:HA	1:E:433:VAL:HG21	1.66	0.75
1:F:347:VAL:CG2	1:F:348:VAL:N	2.48	0.75
1:F:347:VAL:CG2	1:F:348:VAL:H	1.99	0.75
1:F:379:LEU:HD12	1:F:380:ASP:N	2.01	0.75
1:H:75:VAL:HG23	1:H:84:THR:HG22	1.67	0.75
1:H:347:VAL:CG2	1:H:348:VAL:H	1.99	0.75
1:H:379:LEU:HD12	1:H:380:ASP:N	2.01	0.75
1:I:54:ILE:CG1	1:I:102:ARG:NE	2.48	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:103:ASP:H	1:I:104:PRO:CD	1.99	0.75
1:J:91:ILE:C	1:J:97:LEU:O	2.29	0.75
1:K:91:ILE:C	1:K:97:LEU:O	2.29	0.75
1:K:379:LEU:HD12	1:K:380:ASP:N	2.01	0.75
1:K:414:LEU:O	1:K:415:GLU:C	2.29	0.75
1:L:14:VAL:HA	1:L:81:ALA:HB3	1.68	0.75
1:A:25:LYS:CD	1:A:102:ARG:HB3	2.16	0.75
1:A:60:ILE:HG22	1:A:100:TYR:CE2	2.21	0.75
1:B:60:ILE:HG22	1:B:100:TYR:CE2	2.21	0.75
1:B:315:THR:HG23	1:H:465:TYR:HE2	1.47	0.75
1:D:19:LEU:C	1:D:19:LEU:CD1	2.49	0.75
1:D:65:MET:C	1:D:87:ILE:HG23	2.11	0.75
1:D:76:ILE:HG12	1:D:198:VAL:HG13	1.68	0.75
1:E:76:ILE:H	1:E:76:ILE:HD12	0.60	0.75
1:E:76:ILE:HG12	1:E:198:VAL:HG13	1.68	0.75
1:G:38:VAL:O	1:G:39:ASN:HB3	1.85	0.75
1:G:60:ILE:HG22	1:G:100:TYR:CE2	2.21	0.75
1:G:306:LYS:HG2	1:G:411:ALA:CB	2.11	0.75
1:H:339:ARG:C	1:H:341:ALA:N	2.35	0.75
1:H:347:VAL:CG2	1:H:348:VAL:N	2.48	0.75
1:I:14:VAL:HA	1:I:81:ALA:HB3	1.67	0.75
1:I:347:VAL:CG2	1:I:348:VAL:H	1.98	0.75
1:J:65:MET:C	1:J:87:ILE:HG23	2.11	0.75
1:J:385:LYS:CG	1:J:386:ILE:H	1.98	0.75
1:K:39:ASN:HD22	1:K:39:ASN:C	1.92	0.75
1:K:68:MET:O	1:K:71:ALA:N	2.19	0.75
1:K:103:ASP:OD1	1:K:106:SER:HB2	1.85	0.75
1:L:60:ILE:HG22	1:L:100:TYR:CE2	2.21	0.75
1:A:306:LYS:HG2	1:A:411:ALA:CB	2.11	0.75
1:B:348:VAL:HG11	1:B:354:ARG:CD	2.15	0.75
1:C:76:ILE:HD12	1:C:76:ILE:H	0.60	0.75
1:C:403:GLU:CA	1:C:405:LYS:HG3	2.14	0.75
1:D:446:ARG:HD2	1:D:446:ARG:H	1.52	0.75
1:E:103:ASP:H	1:E:104:PRO:CD	1.99	0.75
1:F:25:LYS:CD	1:F:102:ARG:HB3	2.16	0.75
1:F:183:PRO:O	1:F:186:ASP:N	2.17	0.75
1:F:403:GLU:HA	1:F:405:LYS:CG	2.17	0.75
1:G:25:LYS:CD	1:G:102:ARG:HB3	2.16	0.75
1:H:9:LEU:O	1:H:14:VAL:HG13	1.85	0.75
1:I:38:VAL:O	1:I:39:ASN:HB3	1.85	0.75
1:A:446:ARG:HD2	1:A:446:ARG:H	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:25:LYS:CD	1:B:102:ARG:HB3	2.16	0.75
1:C:39:ASN:HD22	1:C:39:ASN:C	1.92	0.75
1:C:103:ASP:OD1	1:C:106:SER:HB2	1.85	0.75
1:C:315:THR:OG1	1:I:465:TYR:HB2	1.83	0.75
1:E:38:VAL:O	1:E:39:ASN:HB3	1.85	0.75
1:E:54:ILE:CG1	1:E:102:ARG:NE	2.48	0.75
1:F:465:TYR:HE2	1:L:315:THR:HG23	1.48	0.75
1:H:60:ILE:HG22	1:H:100:TYR:CE2	2.21	0.75
1:H:76:ILE:HD12	1:H:76:ILE:H	0.60	0.75
1:I:3:GLU:HA	1:I:3:GLU:OE1	1.84	0.75
1:I:339:ARG:HB3	1:J:58:LYS:CG	2.15	0.75
1:J:111:ALA:HA	1:J:433:VAL:HG21	1.66	0.75
1:J:403:GLU:CA	1:J:405:LYS:HG3	2.15	0.75
1:J:446:ARG:HD2	1:J:446:ARG:H	1.52	0.75
1:K:403:GLU:CA	1:K:405:LYS:HG3	2.15	0.75
1:L:42:PHE:CE2	1:L:66:VAL:HG22	2.22	0.75
1:A:65:MET:C	1:A:87:ILE:HG23	2.11	0.75
1:A:458:HIS:CD2	1:A:460:VAL:H	2.03	0.75
1:B:42:PHE:CE2	1:B:66:VAL:HG22	2.22	0.75
1:B:446:ARG:HD2	1:B:446:ARG:N	2.00	0.75
1:C:20:ARG:NH2	1:C:86:ILE:CG2	2.50	0.75
1:C:68:MET:O	1:C:71:ALA:N	2.19	0.75
1:C:347:VAL:CG2	1:C:348:VAL:H	1.98	0.75
1:C:348:VAL:HG11	1:C:354:ARG:CD	2.15	0.75
1:D:20:ARG:NH2	1:D:86:ILE:CG2	2.50	0.75
1:D:315:THR:CG2	1:J:465:TYR:HD2	1.60	0.75
1:E:403:GLU:HA	1:E:405:LYS:CG	2.17	0.75
1:F:38:VAL:O	1:F:39:ASN:HB3	1.85	0.75
1:F:39:ASN:C	1:F:39:ASN:HD22	1.92	0.75
1:F:65:MET:C	1:F:87:ILE:HG23	2.11	0.75
1:F:75:VAL:HG23	1:F:84:THR:HG22	1.67	0.75
1:F:103:ASP:N	1:F:104:PRO:HD3	1.96	0.75
1:G:58:LYS:CG	1:L:339:ARG:H	1.94	0.75
1:G:345:ILE:CD1	1:G:345:ILE:N	2.31	0.75
1:H:14:VAL:HA	1:H:81:ALA:HB3	1.68	0.75
1:H:39:ASN:C	1:H:39:ASN:HD22	1.92	0.75
1:H:42:PHE:CE2	1:H:66:VAL:HG22	2.22	0.75
1:H:403:GLU:HA	1:H:405:LYS:CG	2.17	0.75
1:I:65:MET:C	1:I:87:ILE:HG23	2.11	0.75
1:I:403:GLU:HA	1:I:405:LYS:CG	2.17	0.75
1:K:20:ARG:NH2	1:K:86:ILE:CG2	2.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:76:ILE:HD12	1:K:76:ILE:H	0.59	0.75
1:L:20:ARG:NH2	1:L:86:ILE:CG2	2.50	0.75
1:L:446:ARG:H	1:L:446:ARG:HD2	1.52	0.75
1:A:309:ASN:O	1:A:313:ASN:HB2	1.87	0.75
1:B:20:ARG:NH2	1:B:86:ILE:CG2	2.50	0.75
1:C:78:PRO:CB	1:C:79:PHE:CE2	2.64	0.75
1:C:446:ARG:HD2	1:C:446:ARG:H	1.52	0.75
1:D:25:LYS:CD	1:D:102:ARG:HB3	2.16	0.75
1:D:58:LYS:CG	1:E:339:ARG:HB3	2.15	0.75
1:D:61:ASN:O	1:D:62:GLU:HG3	1.87	0.75
1:D:306:LYS:HG2	1:D:411:ALA:CB	2.11	0.75
1:E:9:LEU:O	1:E:14:VAL:HG13	1.85	0.75
1:E:42:PHE:CE2	1:E:66:VAL:HG22	2.22	0.75
1:E:65:MET:C	1:E:87:ILE:HG23	2.11	0.75
1:E:68:MET:O	1:E:71:ALA:N	2.19	0.75
1:E:458:HIS:CD2	1:E:460:VAL:H	2.02	0.75
1:E:465:TYR:CE2	1:K:315:THR:HG21	2.05	0.75
1:F:42:PHE:CE2	1:F:66:VAL:HG22	2.22	0.75
1:G:65:MET:C	1:G:87:ILE:HG23	2.11	0.75
1:G:75:VAL:HG23	1:G:84:THR:HG22	1.67	0.75
1:G:309:ASN:O	1:G:313:ASN:HB2	1.87	0.75
1:G:458:HIS:CD2	1:G:460:VAL:H	2.02	0.75
1:H:20:ARG:NH2	1:H:86:ILE:CG2	2.50	0.75
1:H:25:LYS:CD	1:H:102:ARG:HB3	2.16	0.75
1:H:38:VAL:O	1:H:39:ASN:HB3	1.85	0.75
1:I:9:LEU:O	1:I:14:VAL:HG13	1.85	0.75
1:I:25:LYS:CD	1:I:102:ARG:HB3	2.16	0.75
1:I:42:PHE:CE2	1:I:66:VAL:HG22	2.22	0.75
1:J:61:ASN:O	1:J:62:GLU:HG3	1.87	0.75
1:J:103:ASP:H	1:J:104:PRO:CD	1.99	0.75
1:K:65:MET:C	1:K:87:ILE:HG23	2.11	0.75
1:K:78:PRO:CB	1:K:79:PHE:CE2	2.64	0.75
1:K:348:VAL:HG11	1:K:354:ARG:CD	2.15	0.75
1:K:446:ARG:HD2	1:K:446:ARG:H	1.52	0.75
1:A:72:SER:C	1:A:73:THR:CG2	2.59	0.75
1:B:67:LEU:HD21	1:B:88:ARG:HB3	1.67	0.75
1:C:65:MET:C	1:C:87:ILE:HG23	2.12	0.75
1:C:128:PRO:HG2	1:C:235:ILE:HD11	1.69	0.75
1:C:156:GLY:N	1:C:215:THR:O	2.20	0.75
1:D:348:VAL:HG11	1:D:354:ARG:CD	2.14	0.75
1:E:25:LYS:CD	1:E:102:ARG:HB3	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:446:ARG:HD2	1:E:446:ARG:N	2.00	0.75
1:F:14:VAL:HA	1:F:81:ALA:HB3	1.68	0.75
1:F:20:ARG:NH2	1:F:86:ILE:CG2	2.50	0.75
1:F:60:ILE:HG22	1:F:100:TYR:CE2	2.22	0.75
1:F:446:ARG:HD2	1:F:446:ARG:N	2.00	0.75
1:G:14:VAL:HA	1:G:81:ALA:HB3	1.68	0.75
1:G:446:ARG:H	1:G:446:ARG:HD2	1.52	0.75
1:H:65:MET:C	1:H:87:ILE:HG23	2.12	0.75
1:H:103:ASP:N	1:H:104:PRO:HD3	1.96	0.75
1:I:68:MET:O	1:I:71:ALA:N	2.19	0.75
1:I:76:ILE:HG12	1:I:198:VAL:HG13	1.68	0.75
1:I:446:ARG:HD2	1:I:446:ARG:N	2.00	0.75
1:J:19:LEU:C	1:J:19:LEU:CD1	2.49	0.75
1:K:128:PRO:HG2	1:K:235:ILE:HD11	1.69	0.75
1:K:347:VAL:CG2	1:K:348:VAL:H	1.98	0.75
1:L:25:LYS:CD	1:L:102:ARG:HB3	2.16	0.75
1:L:76:ILE:HD12	1:L:76:ILE:H	0.60	0.75
1:A:14:VAL:HA	1:A:81:ALA:HB3	1.68	0.75
1:A:58:LYS:HD3	1:A:59:GLY:N	1.95	0.75
1:A:348:VAL:HG11	1:A:354:ARG:CD	2.15	0.75
1:D:103:ASP:H	1:D:104:PRO:CD	1.99	0.75
1:D:111:ALA:HA	1:D:433:VAL:HG21	1.66	0.75
1:F:76:ILE:H	1:F:76:ILE:HD12	0.60	0.75
1:G:348:VAL:HG11	1:G:354:ARG:CD	2.15	0.75
1:I:79:PHE:CG	1:I:80:PHE:N	2.53	0.75
1:I:458:HIS:CD2	1:I:460:VAL:H	2.02	0.75
1:J:20:ARG:NH2	1:J:86:ILE:CG2	2.50	0.75
1:J:25:LYS:CD	1:J:102:ARG:HB3	2.16	0.75
1:J:306:LYS:HG2	1:J:411:ALA:CB	2.12	0.75
1:K:42:PHE:CE2	1:K:66:VAL:HG22	2.22	0.75
1:K:156:GLY:N	1:K:215:THR:O	2.20	0.75
1:L:446:ARG:HD2	1:L:446:ARG:N	2.00	0.75
1:A:75:VAL:HG23	1:A:84:THR:HG22	1.67	0.74
1:B:339:ARG:CG	1:B:340:SER:N	2.49	0.74
1:C:42:PHE:CE2	1:C:66:VAL:HG22	2.22	0.74
1:C:60:ILE:HG22	1:C:100:TYR:CE2	2.21	0.74
1:E:465:TYR:HB2	1:K:315:THR:OG1	1.83	0.74
1:G:72:SER:C	1:G:73:THR:CG2	2.59	0.74
1:J:128:PRO:HG2	1:J:235:ILE:HD11	1.69	0.74
1:J:339:ARG:C	1:J:341:ALA:N	2.35	0.74
1:K:103:ASP:H	1:K:104:PRO:CD	1.99	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:67:LEU:HD21	1:L:88:ARG:HB3	1.67	0.74
1:L:339:ARG:CG	1:L:340:SER:N	2.49	0.74
1:B:76:ILE:HD12	1:B:76:ILE:H	0.60	0.74
1:B:466:TYR:OH	1:H:252:THR:HG22	1.85	0.74
1:C:24:THR:HG22	1:C:25:LYS:N	2.03	0.74
1:C:27:LYS:CE	1:C:239:LYS:HZ1	2.00	0.74
1:C:63:SER:OG	1:C:91:ILE:HG22	1.87	0.74
1:D:339:ARG:C	1:D:341:ALA:N	2.35	0.74
1:D:465:TYR:HD2	1:J:315:THR:CG2	1.60	0.74
1:F:61:ASN:O	1:F:62:GLU:HG3	1.87	0.74
1:F:385:LYS:CG	1:F:386:ILE:N	2.50	0.74
1:F:446:ARG:HD2	1:F:446:ARG:H	1.52	0.74
1:G:76:ILE:H	1:G:76:ILE:HD12	0.60	0.74
1:H:61:ASN:O	1:H:62:GLU:HG3	1.87	0.74
1:H:63:SER:OG	1:H:91:ILE:HG22	1.87	0.74
1:H:309:ASN:O	1:H:313:ASN:HB2	1.87	0.74
1:H:339:ARG:H	1:I:58:LYS:CG	1.94	0.74
1:J:348:VAL:HG11	1:J:354:ARG:CD	2.15	0.74
1:K:60:ILE:HG22	1:K:100:TYR:CE2	2.21	0.74
1:K:183:PRO:O	1:K:186:ASP:N	2.17	0.74
1:L:39:ASN:C	1:L:39:ASN:HD22	1.92	0.74
1:L:128:PRO:HG2	1:L:235:ILE:HD11	1.69	0.74
1:A:58:LYS:CG	1:B:339:ARG:H	1.94	0.74
1:A:339:ARG:CG	1:A:340:SER:N	2.49	0.74
1:A:403:GLU:HA	1:A:405:LYS:CG	2.17	0.74
1:A:407:ILE:CD1	1:A:408:PRO:HD2	2.16	0.74
1:B:128:PRO:HG2	1:B:235:ILE:HD11	1.69	0.74
1:B:385:LYS:CG	1:B:386:ILE:H	1.98	0.74
1:C:19:LEU:C	1:C:19:LEU:CD1	2.49	0.74
1:C:111:ALA:CA	1:C:433:VAL:HG21	2.18	0.74
1:C:315:THR:HG21	1:I:465:TYR:CE2	2.05	0.74
1:C:385:LYS:CG	1:C:386:ILE:H	1.98	0.74
1:C:466:TYR:OH	1:I:252:THR:HG22	1.85	0.74
1:D:68:MET:O	1:D:71:ALA:N	2.19	0.74
1:D:78:PRO:CB	1:D:79:PHE:CE2	2.65	0.74
1:D:128:PRO:HG2	1:D:235:ILE:HD11	1.69	0.74
1:D:414:LEU:O	1:D:415:GLU:C	2.29	0.74
1:F:63:SER:OG	1:F:91:ILE:HG22	1.87	0.74
1:F:93:GLU:CG	1:F:94:PRO:HD3	2.18	0.74
1:F:252:THR:HG22	1:L:466:TYR:OH	1.85	0.74
1:F:309:ASN:O	1:F:313:ASN:HB2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:58:LYS:HD3	1:G:59:GLY:N	1.96	0.74
1:G:76:ILE:HG12	1:G:198:VAL:HG13	1.68	0.74
1:G:403:GLU:HA	1:G:405:LYS:CG	2.17	0.74
1:H:72:SER:C	1:H:73:THR:CG2	2.59	0.74
1:H:93:GLU:CG	1:H:94:PRO:HD3	2.18	0.74
1:H:446:ARG:H	1:H:446:ARG:HD2	1.52	0.74
1:H:446:ARG:HD2	1:H:446:ARG:N	2.00	0.74
1:J:68:MET:O	1:J:71:ALA:N	2.19	0.74
1:J:78:PRO:CB	1:J:79:PHE:CE2	2.64	0.74
1:J:414:LEU:O	1:J:415:GLU:C	2.29	0.74
1:K:24:THR:HG22	1:K:25:LYS:N	2.03	0.74
1:K:25:LYS:CD	1:K:102:ARG:HB3	2.16	0.74
1:K:63:SER:OG	1:K:91:ILE:HG22	1.87	0.74
1:L:156:GLY:N	1:L:215:THR:O	2.20	0.74
1:B:39:ASN:ND2	1:B:39:ASN:C	2.43	0.74
1:B:156:GLY:N	1:B:215:THR:O	2.20	0.74
1:C:14:VAL:HA	1:C:81:ALA:HB3	1.67	0.74
1:C:103:ASP:H	1:C:104:PRO:CD	1.99	0.74
1:C:183:PRO:O	1:C:186:ASP:N	2.17	0.74
1:C:403:GLU:HA	1:C:405:LYS:CG	2.17	0.74
1:D:63:SER:OG	1:D:91:ILE:HG22	1.87	0.74
1:D:93:GLU:CG	1:D:94:PRO:HD3	2.18	0.74
1:D:403:GLU:HA	1:D:405:LYS:CG	2.16	0.74
1:E:61:ASN:O	1:E:62:GLU:HG3	1.87	0.74
1:E:79:PHE:CG	1:E:80:PHE:N	2.53	0.74
1:E:252:THR:HG22	1:K:466:TYR:OH	1.85	0.74
1:E:414:LEU:O	1:E:415:GLU:C	2.29	0.74
1:G:339:ARG:CG	1:G:340:SER:N	2.49	0.74
1:I:414:LEU:O	1:I:415:GLU:C	2.29	0.74
1:J:27:LYS:CE	1:J:239:LYS:HZ1	2.00	0.74
1:J:93:GLU:CG	1:J:94:PRO:HD3	2.18	0.74
1:J:111:ALA:CA	1:J:433:VAL:HG21	2.18	0.74
1:K:214:ALA:CB	1:K:263:ASP:OD2	2.36	0.74
1:L:39:ASN:C	1:L:39:ASN:ND2	2.44	0.74
1:L:75:VAL:C	1:L:76:ILE:O	2.21	0.74
1:A:42:PHE:CE2	1:A:66:VAL:HG22	2.22	0.74
1:A:76:ILE:H	1:A:76:ILE:HD12	0.60	0.74
1:A:414:LEU:HD21	1:A:418:LEU:CG	2.14	0.74
1:B:39:ASN:C	1:B:39:ASN:HD22	1.92	0.74
1:B:403:GLU:HA	1:B:405:LYS:CG	2.17	0.74
1:C:25:LYS:CD	1:C:102:ARG:HB3	2.16	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:214:ALA:CB	1:C:263:ASP:OD2	2.36	0.74
1:D:214:ALA:CB	1:D:263:ASP:OD2	2.36	0.74
1:F:72:SER:C	1:F:73:THR:CG2	2.59	0.74
1:G:163:LYS:HZ2	1:G:163:LYS:HB2	1.51	0.74
1:H:385:LYS:CG	1:H:386:ILE:N	2.50	0.74
1:J:63:SER:OG	1:J:91:ILE:HG22	1.87	0.74
1:K:14:VAL:HA	1:K:81:ALA:HB3	1.68	0.74
1:K:111:ALA:CA	1:K:433:VAL:HG21	2.18	0.74
1:K:385:LYS:CG	1:K:386:ILE:H	1.98	0.74
1:K:403:GLU:HA	1:K:405:LYS:CG	2.17	0.74
1:L:309:ASN:O	1:L:313:ASN:HB2	1.87	0.74
1:L:385:LYS:CG	1:L:386:ILE:H	1.98	0.74
1:A:20:ARG:NH2	1:A:86:ILE:CG2	2.50	0.74
1:A:63:SER:OG	1:A:91:ILE:HG22	1.88	0.74
1:A:79:PHE:HB3	1:B:190:ASP:OD2	1.87	0.74
1:B:214:ALA:CB	1:B:263:ASP:OD2	2.36	0.74
1:B:309:ASN:O	1:B:313:ASN:HB2	1.87	0.74
1:D:60:ILE:HG22	1:D:100:TYR:CE2	2.21	0.74
1:D:111:ALA:CA	1:D:433:VAL:HG21	2.18	0.74
1:F:27:LYS:NZ	1:F:239:LYS:CE	2.50	0.74
1:F:414:LEU:HD21	1:F:418:LEU:CG	2.14	0.74
1:G:39:ASN:HD22	1:G:39:ASN:C	1.92	0.74
1:H:27:LYS:NZ	1:H:239:LYS:CE	2.50	0.74
1:I:27:LYS:NZ	1:I:239:LYS:CE	2.50	0.74
1:I:63:SER:OG	1:I:91:ILE:HG22	1.87	0.74
1:J:24:THR:HG22	1:J:25:LYS:N	2.03	0.74
1:L:403:GLU:HA	1:L:405:LYS:CG	2.17	0.74
1:L:407:ILE:CD1	1:L:408:PRO:HD2	2.16	0.74
1:A:76:ILE:HG12	1:A:198:VAL:HG13	1.68	0.74
1:A:156:GLY:N	1:A:215:THR:O	2.20	0.74
1:B:61:ASN:O	1:B:62:GLU:HG3	1.87	0.74
1:B:79:PHE:HB3	1:C:190:ASP:OD2	1.87	0.74
1:B:407:ILE:CD1	1:B:408:PRO:HD2	2.16	0.74
1:E:27:LYS:NZ	1:E:239:LYS:CE	2.50	0.74
1:E:75:VAL:HG23	1:E:84:THR:HB	1.70	0.74
1:G:61:ASN:O	1:G:62:GLU:HG3	1.87	0.74
1:G:128:PRO:HG2	1:G:235:ILE:HD11	1.69	0.74
1:H:214:ALA:CB	1:H:263:ASP:OD2	2.36	0.74
1:I:61:ASN:O	1:I:62:GLU:HG3	1.87	0.74
1:I:93:GLU:CG	1:I:94:PRO:HD3	2.18	0.74
1:J:42:PHE:CE2	1:J:66:VAL:HG22	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:214:ALA:CB	1:J:263:ASP:OD2	2.36	0.74
1:K:190:ASP:OD2	1:L:79:PHE:HB3	1.87	0.74
1:L:24:THR:HG22	1:L:25:LYS:N	2.03	0.74
1:L:214:ALA:CB	1:L:263:ASP:OD2	2.36	0.74
1:B:24:THR:HG22	1:B:25:LYS:N	2.03	0.74
1:B:75:VAL:C	1:B:76:ILE:O	2.21	0.74
1:E:20:ARG:NH2	1:E:86:ILE:CG2	2.50	0.74
1:E:58:LYS:CG	1:F:339:ARG:H	1.94	0.74
1:E:63:SER:OG	1:E:91:ILE:HG22	1.88	0.74
1:E:93:GLU:CG	1:E:94:PRO:HD3	2.18	0.74
1:E:214:ALA:CB	1:E:263:ASP:OD2	2.36	0.74
1:F:18:ASP:OD2	1:F:19:LEU:N	2.20	0.74
1:F:214:ALA:CB	1:F:263:ASP:OD2	2.36	0.74
1:F:414:LEU:O	1:F:415:GLU:C	2.29	0.74
1:G:20:ARG:NH2	1:G:86:ILE:CG2	2.50	0.74
1:G:42:PHE:CE2	1:G:66:VAL:HG22	2.22	0.74
1:G:63:SER:OG	1:G:91:ILE:HG22	1.88	0.74
1:G:79:PHE:HB3	1:L:190:ASP:OD2	1.87	0.74
1:G:156:GLY:N	1:G:215:THR:O	2.20	0.74
1:H:18:ASP:OD2	1:H:19:LEU:N	2.20	0.74
1:H:414:LEU:O	1:H:415:GLU:C	2.29	0.74
1:I:20:ARG:NH2	1:I:86:ILE:CG2	2.50	0.74
1:I:75:VAL:HG23	1:I:84:THR:HB	1.70	0.74
1:I:156:GLY:N	1:I:215:THR:O	2.20	0.74
1:J:60:ILE:HG22	1:J:100:TYR:CE2	2.21	0.74
1:J:156:GLY:N	1:J:215:THR:O	2.20	0.74
1:J:309:ASN:O	1:J:313:ASN:HB2	1.87	0.74
1:K:19:LEU:C	1:K:19:LEU:CD1	2.49	0.74
1:K:61:ASN:O	1:K:62:GLU:HG3	1.87	0.74
1:A:27:LYS:NZ	1:A:239:LYS:CE	2.50	0.74
1:A:39:ASN:C	1:A:39:ASN:HD22	1.92	0.74
1:A:128:PRO:HG2	1:A:235:ILE:HD11	1.69	0.74
1:A:163:LYS:HB2	1:A:163:LYS:HZ2	1.51	0.74
1:B:50:ASP:O	1:B:51:GLY:O	2.06	0.74
1:C:92:LEU:N	1:C:97:LEU:N	2.36	0.74
1:D:24:THR:HG22	1:D:25:LYS:N	2.03	0.74
1:D:309:ASN:O	1:D:313:ASN:HB2	1.87	0.74
1:E:156:GLY:N	1:E:215:THR:O	2.20	0.74
1:G:27:LYS:NZ	1:G:239:LYS:CE	2.50	0.74
1:G:27:LYS:CE	1:G:239:LYS:HZ1	2.01	0.74
1:I:111:ALA:CA	1:I:433:VAL:HG21	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:190:ASP:OD2	1:K:79:PHE:HB3	1.87	0.74
1:K:57:TRP:HD1	1:K:58:LYS:N	1.86	0.74
1:K:182:VAL:HG11	1:L:28:GLU:HG2	1.69	0.74
1:L:50:ASP:O	1:L:51:GLY:O	2.06	0.74
1:L:61:ASN:O	1:L:62:GLU:HG3	1.87	0.74
1:L:63:SER:OG	1:L:91:ILE:HG22	1.88	0.74
1:L:72:SER:C	1:L:73:THR:CG2	2.59	0.74
1:L:111:ALA:CA	1:L:433:VAL:HG21	2.18	0.74
1:A:28:GLU:HG2	1:B:182:VAL:HG11	1.69	0.74
1:A:61:ASN:O	1:A:62:GLU:HG3	1.87	0.74
1:B:17:VAL:HG12	1:B:33:ILE:O	1.88	0.74
1:B:19:LEU:CD2	1:B:240:TYR:CE2	2.71	0.74
1:B:63:SER:OG	1:B:91:ILE:HG22	1.88	0.74
1:B:72:SER:C	1:B:73:THR:CG2	2.59	0.74
1:B:111:ALA:CA	1:B:433:VAL:HG21	2.18	0.74
1:C:57:TRP:HD1	1:C:58:LYS:N	1.86	0.74
1:D:252:THR:HG22	1:J:466:TYR:OH	1.85	0.74
1:E:111:ALA:CA	1:E:433:VAL:HG21	2.18	0.74
1:E:309:ASN:O	1:E:313:ASN:HB2	1.87	0.74
1:G:28:GLU:HG2	1:L:182:VAL:HG11	1.70	0.74
1:G:314:PRO:O	1:G:318:SER:HB2	1.87	0.74
1:G:414:LEU:HD21	1:G:418:LEU:CG	2.15	0.74
1:H:50:ASP:O	1:H:51:GLY:O	2.05	0.74
1:H:314:PRO:O	1:H:318:SER:HB2	1.87	0.74
1:H:414:LEU:HD21	1:H:418:LEU:CG	2.15	0.74
1:I:60:ILE:HG22	1:I:100:TYR:CE2	2.22	0.74
1:I:190:ASP:OD2	1:J:79:PHE:HB3	1.87	0.74
1:I:214:ALA:CB	1:I:263:ASP:OD2	2.36	0.74
1:I:446:ARG:HD2	1:I:446:ARG:H	1.51	0.74
1:K:314:PRO:O	1:K:318:SER:HB2	1.87	0.74
1:L:17:VAL:HG12	1:L:33:ILE:O	1.88	0.74
1:C:61:ASN:O	1:C:62:GLU:HG3	1.87	0.73
1:C:309:ASN:O	1:C:313:ASN:HB2	1.87	0.73
1:D:42:PHE:CE2	1:D:66:VAL:HG22	2.22	0.73
1:D:79:PHE:HB3	1:E:190:ASP:OD2	1.87	0.73
1:D:132:PHE:HB3	1:D:255:PHE:CE1	2.23	0.73
1:D:466:TYR:OH	1:J:252:THR:HG22	1.85	0.73
1:E:19:LEU:C	1:E:19:LEU:CD1	2.49	0.73
1:E:60:ILE:HG22	1:E:100:TYR:CE2	2.22	0.73
1:G:182:VAL:HG11	1:H:28:GLU:HG2	1.69	0.73
1:H:111:ALA:CA	1:H:433:VAL:HG21	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:24:THR:HG22	1:I:25:LYS:N	2.03	0.73
1:I:309:ASN:O	1:I:313:ASN:HB2	1.87	0.73
1:J:132:PHE:HB3	1:J:255:PHE:CE1	2.23	0.73
1:K:92:LEU:N	1:K:97:LEU:N	2.36	0.73
1:L:19:LEU:CD2	1:L:240:TYR:CE2	2.71	0.73
1:A:314:PRO:O	1:A:318:SER:HB2	1.87	0.73
1:C:79:PHE:HB3	1:D:190:ASP:OD2	1.87	0.73
1:C:314:PRO:O	1:C:318:SER:HB2	1.87	0.73
1:D:17:VAL:HG12	1:D:33:ILE:O	1.88	0.73
1:D:156:GLY:N	1:D:215:THR:O	2.20	0.73
1:D:314:PRO:O	1:D:318:SER:HB2	1.88	0.73
1:E:17:VAL:HG12	1:E:33:ILE:O	1.88	0.73
1:F:75:VAL:HG23	1:F:84:THR:HB	1.70	0.73
1:F:314:PRO:O	1:F:318:SER:HB2	1.88	0.73
1:G:190:ASP:OD2	1:H:79:PHE:HB3	1.87	0.73
1:H:24:THR:HG22	1:H:25:LYS:N	2.03	0.73
1:I:132:PHE:HB3	1:I:255:PHE:CE1	2.23	0.73
1:J:314:PRO:O	1:J:318:SER:HB2	1.87	0.73
1:A:214:ALA:CB	1:A:263:ASP:OD2	2.36	0.73
1:B:28:GLU:HG2	1:C:182:VAL:HG11	1.70	0.73
1:C:414:LEU:HD21	1:C:418:LEU:CG	2.14	0.73
1:E:24:THR:HG22	1:E:25:LYS:N	2.03	0.73
1:E:446:ARG:HD2	1:E:446:ARG:H	1.51	0.73
1:F:50:ASP:O	1:F:51:GLY:O	2.06	0.73
1:G:17:VAL:HG12	1:G:33:ILE:O	1.87	0.73
1:G:111:ALA:CA	1:G:433:VAL:HG21	2.18	0.73
1:G:214:ALA:CB	1:G:263:ASP:OD2	2.36	0.73
1:H:75:VAL:HG23	1:H:84:THR:HB	1.70	0.73
1:I:296:TYR:HD1	1:I:385:LYS:O	1.72	0.73
1:J:17:VAL:HG12	1:J:33:ILE:O	1.88	0.73
1:J:27:LYS:NZ	1:J:239:LYS:CE	2.50	0.73
1:K:17:VAL:HG12	1:K:33:ILE:O	1.88	0.73
1:K:27:LYS:NZ	1:K:239:LYS:CE	2.50	0.73
1:K:309:ASN:O	1:K:313:ASN:HB2	1.87	0.73
1:L:57:TRP:HD1	1:L:58:LYS:N	1.86	0.73
1:A:111:ALA:CA	1:A:433:VAL:HG21	2.18	0.73
1:C:27:LYS:NZ	1:C:239:LYS:CE	2.50	0.73
1:D:27:LYS:NZ	1:D:239:LYS:CE	2.50	0.73
1:E:132:PHE:HB3	1:E:255:PHE:CE1	2.23	0.73
1:E:314:PRO:O	1:E:318:SER:HB2	1.87	0.73
1:E:433:VAL:O	1:E:434:PHE:HB2	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:19:LEU:CD2	1:F:240:TYR:CE2	2.71	0.73
1:F:24:THR:HG22	1:F:25:LYS:N	2.03	0.73
1:F:111:ALA:CA	1:F:433:VAL:HG21	2.18	0.73
1:I:17:VAL:HG12	1:I:33:ILE:O	1.88	0.73
1:I:18:ASP:OD2	1:I:19:LEU:N	2.19	0.73
1:I:39:ASN:C	1:I:39:ASN:ND2	2.44	0.73
1:I:314:PRO:O	1:I:318:SER:HB2	1.87	0.73
1:J:403:GLU:HA	1:J:405:LYS:CG	2.17	0.73
1:J:458:HIS:CD2	1:J:460:VAL:H	2.03	0.73
1:K:38:VAL:O	1:K:39:ASN:HB3	1.85	0.73
1:K:414:LEU:HD21	1:K:418:LEU:CG	2.14	0.73
1:L:296:TYR:HD1	1:L:385:LYS:O	1.72	0.73
1:A:17:VAL:HG12	1:A:33:ILE:O	1.88	0.73
1:A:50:ASP:O	1:A:51:GLY:O	2.06	0.73
1:A:92:LEU:N	1:A:97:LEU:N	2.36	0.73
1:B:92:LEU:N	1:B:97:LEU:N	2.36	0.73
1:B:296:TYR:HD1	1:B:385:LYS:O	1.72	0.73
1:C:17:VAL:HG12	1:C:33:ILE:O	1.88	0.73
1:C:306:LYS:HG2	1:C:411:ALA:CB	2.12	0.73
1:E:18:ASP:OD2	1:E:19:LEU:N	2.20	0.73
1:F:92:LEU:N	1:F:97:LEU:N	2.36	0.73
1:G:92:LEU:N	1:G:97:LEU:N	2.36	0.73
1:G:446:ARG:HD2	1:G:446:ARG:N	2.00	0.73
1:H:92:LEU:N	1:H:97:LEU:N	2.36	0.73
1:H:190:ASP:OD2	1:I:79:PHE:HB3	1.87	0.73
1:I:92:LEU:N	1:I:97:LEU:N	2.36	0.73
1:A:190:ASP:OD2	1:F:79:PHE:HB3	1.87	0.73
1:A:446:ARG:HD2	1:A:446:ARG:N	2.00	0.73
1:D:50:ASP:O	1:D:51:GLY:O	2.05	0.73
1:E:128:PRO:HG2	1:E:235:ILE:HD11	1.69	0.73
1:F:27:LYS:CE	1:F:239:LYS:HZ1	2.01	0.73
1:G:433:VAL:O	1:G:434:PHE:HB2	1.88	0.73
1:H:19:LEU:CD2	1:H:240:TYR:CE2	2.71	0.73
1:I:128:PRO:HG2	1:I:235:ILE:HD11	1.69	0.73
1:I:433:VAL:O	1:I:434:PHE:HB2	1.88	0.73
1:J:19:LEU:CD2	1:J:240:TYR:CE2	2.71	0.73
1:J:175:VAL:H	1:J:215:THR:CG2	1.86	0.73
1:K:132:PHE:HB3	1:K:255:PHE:CE1	2.23	0.73
1:K:306:LYS:HG2	1:K:411:ALA:CB	2.12	0.73
1:A:182:VAL:HG11	1:F:28:GLU:HG2	1.70	0.73
1:B:57:TRP:HD1	1:B:58:LYS:N	1.86	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:88:ARG:NH2	1:B:109:LYS:HZ1	1.87	0.73
1:C:38:VAL:O	1:C:39:ASN:HB3	1.85	0.73
1:C:50:ASP:O	1:C:51:GLY:O	2.05	0.73
1:C:132:PHE:HB3	1:C:255:PHE:CE1	2.23	0.73
1:D:14:VAL:HA	1:D:81:ALA:HB3	1.68	0.73
1:D:19:LEU:CD2	1:D:240:TYR:CE2	2.71	0.73
1:E:27:LYS:CE	1:E:239:LYS:HZ1	2.00	0.73
1:E:39:ASN:C	1:E:39:ASN:ND2	2.44	0.73
1:E:79:PHE:HB3	1:F:190:ASP:OD2	1.87	0.73
1:E:92:LEU:N	1:E:97:LEU:N	2.36	0.73
1:E:163:LYS:HZ2	1:E:163:LYS:HB2	1.52	0.73
1:E:296:TYR:HD1	1:E:385:LYS:O	1.72	0.73
1:F:58:LYS:CD	1:F:59:GLY:H	1.98	0.73
1:F:156:GLY:N	1:F:215:THR:O	2.20	0.73
1:F:257:PRO:O	1:F:265:GLY:HA3	1.89	0.73
1:F:385:LYS:CG	1:F:386:ILE:H	1.97	0.73
1:G:19:LEU:CD2	1:G:240:TYR:CE2	2.71	0.73
1:I:19:LEU:CD2	1:I:240:TYR:CE2	2.71	0.73
1:I:75:VAL:C	1:I:76:ILE:O	2.21	0.73
1:I:88:ARG:C	1:I:89:CYS:O	2.32	0.73
1:J:50:ASP:O	1:J:51:GLY:O	2.06	0.73
1:K:50:ASP:O	1:K:51:GLY:O	2.05	0.73
1:A:93:GLU:CG	1:A:94:PRO:HD3	2.18	0.73
1:C:75:VAL:HG23	1:C:84:THR:HB	1.70	0.73
1:C:79:PHE:CG	1:C:80:PHE:N	2.53	0.73
1:C:465:TYR:CE2	1:I:315:THR:HG21	2.06	0.73
1:E:19:LEU:CD2	1:E:240:TYR:CE2	2.71	0.73
1:E:88:ARG:C	1:E:89:CYS:O	2.32	0.73
1:G:50:ASP:O	1:G:51:GLY:O	2.06	0.73
1:H:17:VAL:HG12	1:H:33:ILE:O	1.88	0.73
1:H:156:GLY:N	1:H:215:THR:O	2.20	0.73
1:I:19:LEU:C	1:I:19:LEU:CD1	2.49	0.73
1:J:14:VAL:HA	1:J:81:ALA:HB3	1.68	0.73
1:L:58:LYS:CD	1:L:59:GLY:H	1.98	0.73
1:A:15:LYS:O	1:A:16:PHE:CB	2.37	0.73
1:B:58:LYS:CD	1:B:59:GLY:H	1.98	0.73
1:B:257:PRO:O	1:B:265:GLY:HA3	1.89	0.73
1:C:296:TYR:HD1	1:C:385:LYS:O	1.72	0.73
1:D:458:HIS:CD2	1:D:460:VAL:H	2.03	0.73
1:F:17:VAL:HG12	1:F:33:ILE:O	1.88	0.73
1:F:256:MET:HE3	1:L:466:TYR:CA	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:15:LYS:O	1:G:16:PHE:CB	2.37	0.73
1:G:88:ARG:HH21	1:G:109:LYS:CE	2.02	0.73
1:H:58:LYS:CD	1:H:59:GLY:H	1.98	0.73
1:H:257:PRO:O	1:H:265:GLY:HA3	1.89	0.73
1:J:75:VAL:CG2	1:J:84:THR:HB	2.19	0.73
1:K:296:TYR:HD1	1:K:385:LYS:O	1.72	0.73
1:L:92:LEU:N	1:L:97:LEU:N	2.36	0.73
1:L:257:PRO:O	1:L:265:GLY:HA3	1.89	0.73
1:A:256:MET:HE3	1:G:466:TYR:CA	2.19	0.73
1:A:257:PRO:O	1:A:265:GLY:HA3	1.89	0.73
1:A:433:VAL:O	1:A:434:PHE:HB2	1.88	0.73
1:B:132:PHE:HB3	1:B:255:PHE:CE1	2.23	0.73
1:C:28:GLU:HG2	1:D:182:VAL:HG11	1.70	0.73
1:E:58:LYS:CD	1:E:59:GLY:H	1.98	0.73
1:E:315:THR:HG21	1:K:465:TYR:CE2	2.05	0.73
1:F:75:VAL:CG2	1:F:84:THR:HB	2.19	0.73
1:G:257:PRO:O	1:G:265:GLY:HA3	1.89	0.73
1:H:385:LYS:CG	1:H:386:ILE:H	1.98	0.73
1:I:257:PRO:O	1:I:265:GLY:HA3	1.89	0.73
1:J:182:VAL:HG11	1:K:28:GLU:HG2	1.70	0.73
1:K:75:VAL:HG23	1:K:84:THR:HB	1.70	0.73
1:K:79:PHE:CG	1:K:80:PHE:N	2.53	0.73
1:K:88:ARG:C	1:K:89:CYS:O	2.32	0.73
1:L:88:ARG:HH21	1:L:109:LYS:CE	2.02	0.73
1:A:19:LEU:CD2	1:A:240:TYR:CE2	2.71	0.72
1:A:27:LYS:CE	1:A:239:LYS:HZ1	2.02	0.72
1:A:88:ARG:HH21	1:A:109:LYS:CE	2.02	0.72
1:A:466:TYR:CA	1:G:256:MET:HE3	2.19	0.72
1:B:466:TYR:CA	1:H:256:MET:HE3	2.19	0.72
1:C:257:PRO:O	1:C:265:GLY:HA3	1.89	0.72
1:E:75:VAL:C	1:E:76:ILE:O	2.21	0.72
1:F:289:GLY:HA3	1:F:354:ARG:NE	2.04	0.72
1:G:93:GLU:CG	1:G:94:PRO:HD3	2.18	0.72
1:H:75:VAL:CG2	1:H:84:THR:HB	2.19	0.72
1:J:92:LEU:N	1:J:97:LEU:N	2.36	0.72
1:K:407:ILE:CD1	1:K:408:PRO:HD2	2.16	0.72
1:L:155:GLU:C	1:L:156:GLY:O	2.32	0.72
1:A:155:GLU:C	1:A:156:GLY:O	2.32	0.72
1:B:27:LYS:CE	1:B:239:LYS:HZ1	2.02	0.72
1:B:88:ARG:HH21	1:B:109:LYS:CE	2.02	0.72
1:C:88:ARG:C	1:C:89:CYS:O	2.32	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:88:ARG:NH2	1:D:109:LYS:HZ1	1.85	0.72
1:E:50:ASP:O	1:E:51:GLY:O	2.06	0.72
1:E:257:PRO:O	1:E:265:GLY:HA3	1.89	0.72
1:E:414:LEU:HD21	1:E:418:LEU:CG	2.14	0.72
1:F:128:PRO:HG2	1:F:235:ILE:HD11	1.69	0.72
1:G:182:VAL:HG13	1:H:28:GLU:CG	2.20	0.72
1:G:385:LYS:CG	1:G:386:ILE:N	2.50	0.72
1:H:128:PRO:HG2	1:H:235:ILE:HD11	1.69	0.72
1:H:289:GLY:HA3	1:H:354:ARG:NE	2.04	0.72
1:I:50:ASP:O	1:I:51:GLY:O	2.06	0.72
1:I:82:ASP:OD1	1:I:82:ASP:N	2.16	0.72
1:J:58:LYS:CD	1:J:59:GLY:H	1.98	0.72
1:J:296:TYR:HD1	1:J:385:LYS:O	1.72	0.72
1:K:27:LYS:CE	1:K:239:LYS:HZ1	2.01	0.72
1:K:93:GLU:CG	1:K:94:PRO:HD3	2.18	0.72
1:K:155:GLU:C	1:K:156:GLY:O	2.32	0.72
1:K:257:PRO:O	1:K:265:GLY:HA3	1.89	0.72
1:L:132:PHE:HB3	1:L:255:PHE:CE1	2.23	0.72
1:A:385:LYS:CG	1:A:386:ILE:N	2.50	0.72
1:B:75:VAL:HG23	1:B:84:THR:HB	1.70	0.72
1:B:155:GLU:C	1:B:156:GLY:O	2.33	0.72
1:B:306:LYS:HG2	1:B:411:ALA:CB	2.11	0.72
1:C:19:LEU:CD2	1:C:240:TYR:CE2	2.71	0.72
1:C:42:PHE:CE2	1:C:66:VAL:CG2	2.73	0.72
1:C:155:GLU:C	1:C:156:GLY:O	2.32	0.72
1:D:75:VAL:C	1:D:76:ILE:O	2.21	0.72
1:D:296:TYR:HD1	1:D:385:LYS:O	1.72	0.72
1:E:75:VAL:CG2	1:E:84:THR:HB	2.19	0.72
1:G:19:LEU:HD22	1:G:240:TYR:CE2	2.25	0.72
1:G:57:TRP:HD1	1:G:58:LYS:N	1.86	0.72
1:G:155:GLU:C	1:G:156:GLY:O	2.32	0.72
1:I:27:LYS:CE	1:I:239:LYS:HZ1	2.01	0.72
1:I:75:VAL:CG2	1:I:84:THR:HB	2.19	0.72
1:I:414:LEU:HD21	1:I:418:LEU:CG	2.14	0.72
1:L:79:PHE:CD1	1:L:80:PHE:CB	2.73	0.72
1:A:18:ASP:OD2	1:A:19:LEU:N	2.20	0.72
1:A:58:LYS:CD	1:A:59:GLY:H	1.98	0.72
1:A:182:VAL:HG13	1:F:28:GLU:CG	2.20	0.72
1:A:289:GLY:HA3	1:A:354:ARG:NE	2.04	0.72
1:A:385:LYS:CG	1:A:386:ILE:H	1.98	0.72
1:B:79:PHE:CD1	1:B:80:PHE:CB	2.73	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:93:GLU:CG	1:C:94:PRO:HD3	2.18	0.72
1:C:407:ILE:CD1	1:C:408:PRO:HD2	2.16	0.72
1:D:57:TRP:HD1	1:D:58:LYS:N	1.86	0.72
1:D:58:LYS:CD	1:D:59:GLY:H	1.98	0.72
1:D:75:VAL:CG2	1:D:84:THR:HB	2.20	0.72
1:D:175:VAL:H	1:D:215:THR:CG2	1.86	0.72
1:D:315:THR:HG21	1:J:465:TYR:CE2	2.05	0.72
1:D:465:TYR:CE2	1:J:315:THR:HG21	2.06	0.72
1:F:18:ASP:O	1:F:21:PHE:CD2	2.43	0.72
1:F:433:VAL:O	1:F:434:PHE:HB2	1.88	0.72
1:G:18:ASP:OD2	1:G:19:LEU:N	2.19	0.72
1:G:24:THR:HG22	1:G:25:LYS:N	2.03	0.72
1:G:289:GLY:HA3	1:G:354:ARG:NE	2.04	0.72
1:H:18:ASP:O	1:H:21:PHE:CD2	2.43	0.72
1:H:155:GLU:C	1:H:156:GLY:O	2.32	0.72
1:H:296:TYR:HD1	1:H:385:LYS:O	1.72	0.72
1:J:75:VAL:HG23	1:J:84:THR:HB	1.70	0.72
1:J:88:ARG:NH2	1:J:109:LYS:HZ1	1.85	0.72
1:K:42:PHE:CE2	1:K:66:VAL:CG2	2.73	0.72
1:L:306:LYS:HG2	1:L:411:ALA:CB	2.11	0.72
1:A:24:THR:HG22	1:A:25:LYS:N	2.03	0.72
1:A:57:TRP:HD1	1:A:58:LYS:N	1.86	0.72
1:A:296:TYR:HD1	1:A:385:LYS:O	1.72	0.72
1:C:315:THR:HG23	1:I:465:TYR:HE2	1.47	0.72
1:D:18:ASP:O	1:D:21:PHE:CD2	2.43	0.72
1:D:88:ARG:HH21	1:D:109:LYS:CE	2.02	0.72
1:D:92:LEU:N	1:D:97:LEU:N	2.36	0.72
1:E:82:ASP:OD1	1:E:82:ASP:N	2.16	0.72
1:E:289:GLY:HA3	1:E:354:ARG:NE	2.04	0.72
1:E:465:TYR:HE2	1:K:315:THR:HG23	1.47	0.72
1:G:88:ARG:NH2	1:G:109:LYS:HZ1	1.88	0.72
1:G:125:LEU:HD23	1:G:125:LEU:N	2.05	0.72
1:G:296:TYR:HD1	1:G:385:LYS:O	1.72	0.72
1:H:132:PHE:HB3	1:H:255:PHE:CE1	2.23	0.72
1:I:58:LYS:CD	1:I:59:GLY:H	1.98	0.72
1:J:336:ALA:N	1:J:345:ILE:HD11	2.05	0.72
1:L:93:GLU:CG	1:L:94:PRO:HD3	2.18	0.72
1:B:42:PHE:CE2	1:B:66:VAL:CG2	2.73	0.72
1:C:16:PHE:CD1	1:C:79:PHE:HE1	2.08	0.72
1:D:336:ALA:N	1:D:345:ILE:HD11	2.05	0.72
1:E:18:ASP:O	1:E:21:PHE:CD2	2.43	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:15:LYS:O	1:F:16:PHE:CB	2.37	0.72
1:F:132:PHE:HB3	1:F:255:PHE:CE1	2.23	0.72
1:F:155:GLU:C	1:F:156:GLY:O	2.33	0.72
1:F:296:TYR:HD1	1:F:385:LYS:O	1.72	0.72
1:I:289:GLY:HA3	1:I:354:ARG:NE	2.04	0.72
1:J:16:PHE:CD1	1:J:79:PHE:HE1	2.08	0.72
1:J:18:ASP:O	1:J:21:PHE:CD2	2.43	0.72
1:J:42:PHE:CE2	1:J:66:VAL:CG2	2.73	0.72
1:J:57:TRP:HD1	1:J:58:LYS:N	1.86	0.72
1:K:19:LEU:CD2	1:K:240:TYR:CE2	2.71	0.72
1:L:42:PHE:CE2	1:L:66:VAL:CG2	2.73	0.72
1:L:88:ARG:C	1:L:89:CYS:O	2.32	0.72
1:A:19:LEU:HD22	1:A:240:TYR:CE2	2.25	0.72
1:A:75:VAL:CG2	1:A:84:THR:HB	2.20	0.72
1:A:125:LEU:N	1:A:125:LEU:HD23	2.05	0.72
1:B:93:GLU:CG	1:B:94:PRO:HD3	2.18	0.72
1:B:256:MET:HE3	1:H:466:TYR:CA	2.19	0.72
1:C:75:VAL:CG2	1:C:84:THR:HB	2.20	0.72
1:D:155:GLU:C	1:D:156:GLY:O	2.33	0.72
1:E:155:GLU:C	1:E:156:GLY:O	2.32	0.72
1:E:405:LYS:CG	1:E:406:GLU:N	2.53	0.72
1:F:332:LEU:HD12	1:F:332:LEU:N	2.05	0.72
1:G:132:PHE:HB3	1:G:255:PHE:CE1	2.23	0.72
1:G:385:LYS:CG	1:G:386:ILE:H	1.98	0.72
1:H:433:VAL:O	1:H:434:PHE:HB2	1.88	0.72
1:I:155:GLU:C	1:I:156:GLY:O	2.32	0.72
1:L:75:VAL:HG23	1:L:84:THR:HB	1.70	0.72
1:B:15:LYS:O	1:B:16:PHE:CB	2.37	0.72
1:B:88:ARG:C	1:B:89:CYS:O	2.32	0.72
1:B:314:PRO:O	1:B:318:SER:HB2	1.88	0.72
1:C:390:GLU:CB	1:C:391:PRO:HD2	2.20	0.72
1:D:16:PHE:CD1	1:D:79:PHE:HE1	2.08	0.72
1:D:42:PHE:CE2	1:D:66:VAL:CG2	2.73	0.72
1:D:185:VAL:HG12	1:D:185:VAL:O	1.90	0.72
1:E:16:PHE:CD1	1:E:79:PHE:HE1	2.08	0.72
1:F:88:ARG:HH21	1:F:109:LYS:CE	2.02	0.72
1:G:18:ASP:O	1:G:21:PHE:CD2	2.43	0.72
1:G:58:LYS:CD	1:G:59:GLY:H	1.98	0.72
1:G:75:VAL:CG2	1:G:84:THR:HB	2.20	0.72
1:H:88:ARG:HH21	1:H:109:LYS:CE	2.02	0.72
1:H:332:LEU:HD12	1:H:332:LEU:N	2.05	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:390:GLU:CB	1:H:391:PRO:HD2	2.20	0.72
1:I:16:PHE:CD1	1:I:79:PHE:HE1	2.08	0.72
1:I:336:ALA:N	1:I:345:ILE:HD11	2.05	0.72
1:I:405:LYS:CG	1:I:406:GLU:N	2.53	0.72
1:J:88:ARG:HH21	1:J:109:LYS:CE	2.02	0.72
1:J:155:GLU:C	1:J:156:GLY:O	2.33	0.72
1:J:185:VAL:O	1:J:185:VAL:HG12	1.90	0.72
1:J:385:LYS:CG	1:J:386:ILE:N	2.50	0.72
1:K:16:PHE:CD1	1:K:79:PHE:HE1	2.08	0.72
1:K:58:LYS:CD	1:K:59:GLY:H	1.98	0.72
1:K:75:VAL:CG2	1:K:84:THR:HB	2.20	0.72
1:K:79:PHE:CD1	1:K:80:PHE:CB	2.73	0.72
1:L:125:LEU:N	1:L:125:LEU:HD23	2.04	0.72
1:L:314:PRO:O	1:L:318:SER:HB2	1.87	0.72
1:L:437:GLU:O	1:L:440:ASP:N	2.23	0.72
1:A:18:ASP:O	1:A:21:PHE:CD2	2.43	0.72
1:A:79:PHE:CD1	1:A:80:PHE:CB	2.73	0.72
1:A:132:PHE:HB3	1:A:255:PHE:CE1	2.23	0.72
1:B:437:GLU:O	1:B:440:ASP:N	2.23	0.72
1:C:18:ASP:O	1:C:21:PHE:CD2	2.43	0.72
1:C:19:LEU:HD22	1:C:240:TYR:CE2	2.25	0.72
1:C:39:ASN:C	1:C:39:ASN:ND2	2.43	0.72
1:C:58:LYS:CD	1:C:59:GLY:H	1.98	0.72
1:C:79:PHE:CD1	1:C:80:PHE:CB	2.73	0.72
1:C:88:ARG:HH21	1:C:109:LYS:CE	2.02	0.72
1:D:19:LEU:HD22	1:D:240:TYR:CE2	2.25	0.72
1:D:28:GLU:HG2	1:E:182:VAL:HG11	1.69	0.72
1:D:75:VAL:HG23	1:D:84:THR:HB	1.70	0.72
1:D:433:VAL:O	1:D:434:PHE:HB2	1.88	0.72
1:E:336:ALA:N	1:E:345:ILE:HD11	2.05	0.72
1:F:466:TYR:CA	1:L:256:MET:HE3	2.19	0.72
1:G:79:PHE:CD1	1:G:80:PHE:CB	2.73	0.72
1:H:336:ALA:N	1:H:345:ILE:HD11	2.05	0.72
1:I:18:ASP:O	1:I:21:PHE:CD2	2.43	0.72
1:I:390:GLU:CB	1:I:391:PRO:HD2	2.20	0.72
1:I:437:GLU:O	1:I:440:ASP:N	2.23	0.72
1:J:19:LEU:HD22	1:J:240:TYR:CE2	2.25	0.72
1:K:2:ALA:O	1:K:6:LEU:HD23	1.90	0.72
1:K:88:ARG:HH21	1:K:109:LYS:CE	2.02	0.72
1:C:433:VAL:O	1:C:434:PHE:HB2	1.88	0.72
1:E:437:GLU:O	1:E:440:ASP:N	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:325:GLY:HA3	1:F:328:ALA:HB3	1.72	0.72
1:F:336:ALA:N	1:F:345:ILE:HD11	2.05	0.72
1:H:325:GLY:HA3	1:H:328:ALA:HB3	1.72	0.72
1:I:182:VAL:HG11	1:J:28:GLU:HG2	1.69	0.72
1:K:18:ASP:O	1:K:21:PHE:CD2	2.43	0.72
1:K:39:ASN:C	1:K:39:ASN:ND2	2.44	0.72
1:C:2:ALA:O	1:C:6:LEU:HD23	1.91	0.71
1:D:27:LYS:CE	1:D:239:LYS:HZ1	2.00	0.71
1:D:385:LYS:CG	1:D:386:ILE:N	2.50	0.71
1:D:385:LYS:HG3	1:D:386:ILE:N	2.04	0.71
1:F:16:PHE:CD1	1:F:79:PHE:HE1	2.08	0.71
1:F:390:GLU:CB	1:F:391:PRO:HD2	2.20	0.71
1:J:385:LYS:HG3	1:J:386:ILE:N	2.04	0.71
1:J:407:ILE:CD1	1:J:408:PRO:HD2	2.16	0.71
1:J:433:VAL:O	1:J:434:PHE:HB2	1.88	0.71
1:K:75:VAL:C	1:K:76:ILE:O	2.21	0.71
1:A:75:VAL:HG23	1:A:84:THR:HB	1.70	0.71
1:B:336:ALA:N	1:B:345:ILE:HD11	2.05	0.71
1:C:385:LYS:CG	1:C:386:ILE:N	2.50	0.71
1:C:405:LYS:CG	1:C:406:GLU:N	2.53	0.71
1:E:28:GLU:CG	1:F:182:VAL:HG13	2.20	0.71
1:E:68:MET:N	1:E:69:PRO:CD	2.54	0.71
1:E:256:MET:HE3	1:K:466:TYR:CA	2.19	0.71
1:I:19:LEU:HD22	1:I:240:TYR:CE2	2.25	0.71
1:I:88:ARG:HH21	1:I:109:LYS:CE	2.02	0.71
1:I:125:LEU:HD23	1:I:125:LEU:N	2.05	0.71
1:K:182:VAL:HG13	1:L:28:GLU:CG	2.20	0.71
1:K:390:GLU:CB	1:K:391:PRO:HD2	2.20	0.71
1:A:16:PHE:CD1	1:A:79:PHE:HE1	2.08	0.71
1:A:325:GLY:HA3	1:A:328:ALA:HB3	1.72	0.71
1:B:28:GLU:CG	1:C:182:VAL:HG13	2.20	0.71
1:B:125:LEU:HD23	1:B:125:LEU:N	2.05	0.71
1:B:325:GLY:HA3	1:B:328:ALA:HB3	1.72	0.71
1:B:433:VAL:O	1:B:434:PHE:HB2	1.88	0.71
1:C:325:GLY:HA3	1:C:328:ALA:HB3	1.72	0.71
1:C:466:TYR:CA	1:I:256:MET:HE3	2.19	0.71
1:D:2:ALA:O	1:D:6:LEU:HD23	1.91	0.71
1:E:2:ALA:O	1:E:6:LEU:HD23	1.90	0.71
1:E:19:LEU:HD22	1:E:240:TYR:CE2	2.25	0.71
1:E:125:LEU:N	1:E:125:LEU:HD23	2.05	0.71
1:E:345:ILE:CD1	1:E:345:ILE:N	2.31	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:390:GLU:CB	1:E:391:PRO:HD2	2.20	0.71
1:F:39:ASN:C	1:F:39:ASN:ND2	2.44	0.71
1:F:437:GLU:O	1:F:440:ASP:N	2.23	0.71
1:G:16:PHE:CD1	1:G:79:PHE:HE1	2.08	0.71
1:G:325:GLY:HA3	1:G:328:ALA:HB3	1.72	0.71
1:H:16:PHE:CD1	1:H:79:PHE:HE1	2.08	0.71
1:H:88:ARG:C	1:H:89:CYS:O	2.32	0.71
1:H:125:LEU:N	1:H:125:LEU:HD23	2.05	0.71
1:I:65:MET:HE2	1:I:65:MET:CA	2.20	0.71
1:I:68:MET:N	1:I:69:PRO:CD	2.54	0.71
1:J:15:LYS:O	1:J:16:PHE:CB	2.37	0.71
1:J:325:GLY:HA3	1:J:328:ALA:HB3	1.72	0.71
1:J:405:LYS:CG	1:J:406:GLU:N	2.53	0.71
1:K:19:LEU:HD22	1:K:240:TYR:CE2	2.25	0.71
1:K:289:GLY:HA3	1:K:354:ARG:NE	2.04	0.71
1:K:345:ILE:CD1	1:K:345:ILE:N	2.31	0.71
1:K:385:LYS:CG	1:K:386:ILE:N	2.50	0.71
1:K:405:LYS:CG	1:K:406:GLU:N	2.53	0.71
1:K:437:GLU:O	1:K:440:ASP:N	2.23	0.71
1:L:185:VAL:HG12	1:L:185:VAL:O	1.90	0.71
1:B:19:LEU:O	1:B:20:ARG:CB	2.39	0.71
1:B:75:VAL:CG2	1:B:84:THR:HB	2.19	0.71
1:C:156:GLY:CA	1:C:216:ALA:HB2	2.20	0.71
1:C:437:GLU:O	1:C:440:ASP:N	2.23	0.71
1:D:125:LEU:N	1:D:125:LEU:HD23	2.04	0.71
1:D:257:PRO:O	1:D:265:GLY:HA3	1.89	0.71
1:E:88:ARG:HH21	1:E:109:LYS:CE	2.02	0.71
1:F:42:PHE:CE2	1:F:66:VAL:CG2	2.73	0.71
1:F:362:ASP:C	1:F:364:ALA:H	1.98	0.71
1:H:42:PHE:CE2	1:H:66:VAL:CG2	2.73	0.71
1:H:82:ASP:OD1	1:H:82:ASP:N	2.16	0.71
1:H:90:ASP:O	1:H:91:ILE:HG22	1.91	0.71
1:H:156:GLY:CA	1:H:216:ALA:HB2	2.20	0.71
1:H:182:VAL:HG13	1:I:28:GLU:CG	2.20	0.71
1:H:437:GLU:O	1:H:440:ASP:N	2.23	0.71
1:J:2:ALA:O	1:J:6:LEU:HD23	1.91	0.71
1:K:156:GLY:CA	1:K:216:ALA:HB2	2.20	0.71
1:K:325:GLY:HA3	1:K:328:ALA:HB3	1.72	0.71
1:L:19:LEU:O	1:L:20:ARG:CB	2.39	0.71
1:L:75:VAL:CG2	1:L:84:THR:HB	2.19	0.71
1:L:336:ALA:N	1:L:345:ILE:HD11	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:433:VAL:O	1:L:434:PHE:HB2	1.88	0.71
1:A:65:MET:HE2	1:A:65:MET:CA	2.20	0.71
1:B:16:PHE:CD1	1:B:79:PHE:HE1	2.08	0.71
1:B:18:ASP:OD2	1:B:19:LEU:N	2.20	0.71
1:B:289:GLY:HA3	1:B:354:ARG:NE	2.04	0.71
1:B:390:GLU:CB	1:B:391:PRO:HD2	2.20	0.71
1:C:289:GLY:HA3	1:C:354:ARG:NE	2.04	0.71
1:C:336:ALA:N	1:C:345:ILE:HD11	2.05	0.71
1:D:15:LYS:O	1:D:16:PHE:CB	2.37	0.71
1:D:405:LYS:CG	1:D:406:GLU:N	2.53	0.71
1:D:407:ILE:CD1	1:D:408:PRO:HD2	2.16	0.71
1:E:65:MET:HE2	1:E:65:MET:CA	2.20	0.71
1:E:315:THR:HG23	1:K:465:TYR:HE2	1.47	0.71
1:F:79:PHE:CD1	1:F:80:PHE:CB	2.73	0.71
1:F:88:ARG:C	1:F:89:CYS:O	2.32	0.71
1:F:385:LYS:HG3	1:F:386:ILE:N	2.04	0.71
1:G:437:GLU:O	1:G:440:ASP:N	2.23	0.71
1:H:39:ASN:C	1:H:39:ASN:ND2	2.44	0.71
1:H:79:PHE:CD1	1:H:80:PHE:CB	2.73	0.71
1:I:325:GLY:HA3	1:I:328:ALA:HB3	1.72	0.71
1:J:68:MET:N	1:J:69:PRO:CD	2.53	0.71
1:J:79:PHE:CD1	1:J:80:PHE:CB	2.73	0.71
1:J:88:ARG:C	1:J:89:CYS:O	2.32	0.71
1:J:257:PRO:O	1:J:265:GLY:HA3	1.89	0.71
1:K:433:VAL:O	1:K:434:PHE:HB2	1.88	0.71
1:L:16:PHE:CD1	1:L:79:PHE:HE1	2.08	0.71
1:L:18:ASP:OD2	1:L:19:LEU:N	2.19	0.71
1:L:325:GLY:HA3	1:L:328:ALA:HB3	1.73	0.71
1:A:385:LYS:HG3	1:A:386:ILE:N	2.04	0.71
1:B:19:LEU:HD22	1:B:240:TYR:CE2	2.25	0.71
1:B:185:VAL:HG12	1:B:185:VAL:O	1.90	0.71
1:D:19:LEU:O	1:D:20:ARG:CB	2.39	0.71
1:D:79:PHE:CD1	1:D:80:PHE:CB	2.73	0.71
1:D:88:ARG:C	1:D:89:CYS:O	2.32	0.71
1:D:362:ASP:C	1:D:364:ALA:H	1.98	0.71
1:D:437:GLU:O	1:D:440:ASP:N	2.23	0.71
1:E:28:GLU:HG2	1:F:182:VAL:HG11	1.70	0.71
1:F:125:LEU:HD23	1:F:125:LEU:N	2.05	0.71
1:G:75:VAL:HG23	1:G:84:THR:HB	1.70	0.71
1:H:103:ASP:O	1:H:106:SER:N	2.24	0.71
1:I:2:ALA:O	1:I:6:LEU:HD23	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:163:LYS:HZ2	1:I:163:LYS:HB2	1.53	0.71
1:I:339:ARG:CG	1:I:340:SER:N	2.49	0.71
1:I:385:LYS:HG3	1:I:386:ILE:N	2.05	0.71
1:J:437:GLU:O	1:J:440:ASP:N	2.23	0.71
1:K:336:ALA:N	1:K:345:ILE:HD11	2.05	0.71
1:L:19:LEU:HD22	1:L:240:TYR:CE2	2.25	0.71
1:A:42:PHE:CE2	1:A:66:VAL:CG2	2.73	0.71
1:A:437:GLU:O	1:A:440:ASP:N	2.23	0.71
1:A:458:HIS:HD2	1:A:460:VAL:N	1.89	0.71
1:D:274:LEU:HD11	1:D:282:PHE:HE1	1.54	0.71
1:D:325:GLY:HA3	1:D:328:ALA:HB3	1.73	0.71
1:E:332:LEU:HD12	1:E:332:LEU:N	2.05	0.71
1:E:339:ARG:CG	1:E:340:SER:N	2.49	0.71
1:E:385:LYS:HG3	1:E:386:ILE:N	2.05	0.71
1:F:19:LEU:C	1:F:19:LEU:CD1	2.49	0.71
1:F:103:ASP:O	1:F:106:SER:N	2.24	0.71
1:F:163:LYS:HZ2	1:F:163:LYS:HB2	1.56	0.71
1:G:65:MET:HE2	1:G:65:MET:CA	2.20	0.71
1:G:458:HIS:HD2	1:G:460:VAL:N	1.88	0.71
1:H:2:ALA:O	1:H:6:LEU:HD23	1.91	0.71
1:H:405:LYS:CG	1:H:406:GLU:N	2.53	0.71
1:I:214:ALA:O	1:I:215:THR:C	2.34	0.71
1:J:156:GLY:CA	1:J:216:ALA:HB2	2.21	0.71
1:L:18:ASP:O	1:L:21:PHE:CD2	2.43	0.71
1:A:103:ASP:H	1:A:104:PRO:CD	1.99	0.71
1:B:18:ASP:O	1:B:21:PHE:CD2	2.43	0.71
1:D:156:GLY:CA	1:D:216:ALA:HB2	2.21	0.71
1:D:256:MET:HE3	1:J:466:TYR:CA	2.19	0.71
1:E:57:TRP:HD1	1:E:58:LYS:N	1.86	0.71
1:E:103:ASP:O	1:E:106:SER:N	2.24	0.71
1:E:325:GLY:HA3	1:E:328:ALA:HB3	1.72	0.71
1:F:2:ALA:O	1:F:6:LEU:HD23	1.91	0.71
1:F:90:ASP:O	1:F:91:ILE:HG22	1.91	0.71
1:F:156:GLY:CA	1:F:216:ALA:HB2	2.21	0.71
1:F:405:LYS:CG	1:F:406:GLU:N	2.53	0.71
1:G:42:PHE:CE2	1:G:66:VAL:CG2	2.73	0.71
1:G:90:ASP:O	1:G:91:ILE:HG22	1.91	0.71
1:G:103:ASP:H	1:G:104:PRO:CD	1.99	0.71
1:G:362:ASP:C	1:G:364:ALA:H	1.98	0.71
1:I:332:LEU:HD12	1:I:332:LEU:N	2.05	0.71
1:I:345:ILE:CD1	1:I:345:ILE:N	2.31	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:19:LEU:O	1:J:20:ARG:CB	2.39	0.71
1:J:289:GLY:HA3	1:J:354:ARG:NE	2.04	0.71
1:J:362:ASP:C	1:J:364:ALA:H	1.98	0.71
1:K:332:LEU:HD12	1:K:332:LEU:N	2.05	0.71
1:L:289:GLY:HA3	1:L:354:ARG:NE	2.05	0.71
1:L:385:LYS:CG	1:L:386:ILE:N	2.50	0.71
1:L:390:GLU:CB	1:L:391:PRO:HD2	2.20	0.71
1:A:28:GLU:CG	1:B:182:VAL:HG13	2.19	0.71
1:A:274:LEU:HD11	1:A:282:PHE:HE1	1.54	0.71
1:B:103:ASP:H	1:B:104:PRO:CD	1.99	0.71
1:B:385:LYS:CG	1:B:386:ILE:N	2.50	0.71
1:C:332:LEU:HD12	1:C:332:LEU:N	2.05	0.71
1:D:289:GLY:HA3	1:D:354:ARG:NE	2.04	0.71
1:E:42:PHE:CE1	1:E:66:VAL:HG11	2.26	0.71
1:E:214:ALA:O	1:E:215:THR:C	2.34	0.71
1:F:82:ASP:OD1	1:F:82:ASP:N	2.16	0.71
1:F:458:HIS:HD2	1:F:460:VAL:N	1.89	0.71
1:G:274:LEU:HD11	1:G:282:PHE:HE1	1.54	0.71
1:G:385:LYS:HG3	1:G:386:ILE:N	2.04	0.71
1:H:57:TRP:HD1	1:H:58:LYS:N	1.86	0.71
1:H:182:VAL:HG11	1:I:28:GLU:HG2	1.70	0.71
1:H:214:ALA:O	1:H:215:THR:C	2.34	0.71
1:I:90:ASP:O	1:I:91:ILE:HG22	1.91	0.71
1:I:429:LYS:HD2	1:I:436:ASP:OD1	1.91	0.71
1:J:125:LEU:HD23	1:J:125:LEU:N	2.05	0.71
1:K:362:ASP:C	1:K:364:ALA:H	1.98	0.71
1:L:65:MET:HE2	1:L:65:MET:CA	2.20	0.71
1:A:336:ALA:N	1:A:345:ILE:HD11	2.05	0.71
1:B:65:MET:HE2	1:B:65:MET:CA	2.20	0.71
1:B:465:TYR:CE2	1:H:315:THR:HG21	2.06	0.71
1:C:24:THR:HG22	1:C:25:LYS:H	1.56	0.71
1:C:125:LEU:HD23	1:C:125:LEU:N	2.05	0.71
1:C:180:PHE:N	1:C:181:PRO:CD	2.54	0.71
1:C:465:TYR:HE2	1:I:315:THR:HG23	1.48	0.71
1:D:28:GLU:CG	1:E:182:VAL:HG13	2.20	0.71
1:E:42:PHE:CE2	1:E:66:VAL:CG2	2.73	0.71
1:E:90:ASP:O	1:E:91:ILE:HG22	1.91	0.71
1:E:274:LEU:HD11	1:E:282:PHE:HE1	1.54	0.71
1:E:429:LYS:HD2	1:E:436:ASP:OD1	1.91	0.71
1:F:42:PHE:CE1	1:F:66:VAL:HG11	2.26	0.71
1:H:42:PHE:CE1	1:H:66:VAL:HG11	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:65:MET:HE2	1:H:65:MET:CA	2.20	0.71
1:H:458:HIS:HD2	1:H:460:VAL:N	1.89	0.71
1:I:57:TRP:HD1	1:I:58:LYS:N	1.86	0.71
1:I:103:ASP:O	1:I:106:SER:N	2.24	0.71
1:I:182:VAL:HG13	1:J:28:GLU:CG	2.20	0.71
1:J:75:VAL:C	1:J:76:ILE:O	2.21	0.71
1:K:24:THR:HG22	1:K:25:LYS:H	1.56	0.71
1:L:103:ASP:H	1:L:104:PRO:CD	1.99	0.71
1:L:332:LEU:HD12	1:L:332:LEU:N	2.05	0.71
1:A:180:PHE:N	1:A:181:PRO:CD	2.54	0.70
1:A:332:LEU:HD12	1:A:332:LEU:N	2.05	0.70
1:B:274:LEU:HD11	1:B:282:PHE:HE1	1.54	0.70
1:B:338:ASN:ND2	1:B:395:ASN:N	2.37	0.70
1:B:405:LYS:CG	1:B:406:GLU:N	2.53	0.70
1:B:458:HIS:HD2	1:B:460:VAL:N	1.89	0.70
1:D:429:LYS:HD2	1:D:436:ASP:OD1	1.91	0.70
1:D:466:TYR:CA	1:J:256:MET:HE3	2.19	0.70
1:E:458:HIS:HD2	1:E:460:VAL:N	1.88	0.70
1:G:180:PHE:N	1:G:181:PRO:CD	2.55	0.70
1:G:336:ALA:N	1:G:345:ILE:HD11	2.05	0.70
1:H:385:LYS:HG3	1:H:386:ILE:N	2.05	0.70
1:I:24:THR:HG22	1:I:25:LYS:H	1.56	0.70
1:I:42:PHE:CE2	1:I:66:VAL:CG2	2.73	0.70
1:I:274:LEU:HD11	1:I:282:PHE:HE1	1.54	0.70
1:J:274:LEU:HD11	1:J:282:PHE:HE1	1.54	0.70
1:J:390:GLU:CB	1:J:391:PRO:HD2	2.20	0.70
1:J:429:LYS:HD2	1:J:436:ASP:OD1	1.91	0.70
1:K:65:MET:HE2	1:K:65:MET:CA	2.20	0.70
1:K:125:LEU:HD23	1:K:125:LEU:N	2.05	0.70
1:L:338:ASN:ND2	1:L:395:ASN:N	2.37	0.70
1:L:458:HIS:HD2	1:L:460:VAL:N	1.89	0.70
1:A:24:THR:HG22	1:A:25:LYS:H	1.56	0.70
1:A:90:ASP:O	1:A:91:ILE:HG22	1.91	0.70
1:A:362:ASP:C	1:A:364:ALA:H	1.98	0.70
1:B:2:ALA:O	1:B:6:LEU:HD23	1.91	0.70
1:B:385:LYS:HG3	1:B:386:ILE:N	2.04	0.70
1:E:24:THR:HG22	1:E:25:LYS:H	1.56	0.70
1:E:156:GLY:CA	1:E:216:ALA:HB2	2.21	0.70
1:F:103:ASP:OD1	1:F:106:SER:CB	2.39	0.70
1:F:315:THR:HG21	1:L:465:TYR:CE2	2.05	0.70
1:G:351:PRO:HG2	1:G:352:LYS:N	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:19:LEU:C	1:H:19:LEU:CD1	2.49	0.70
1:H:103:ASP:OD1	1:H:106:SER:CB	2.39	0.70
1:I:42:PHE:CE1	1:I:66:VAL:HG11	2.26	0.70
1:I:79:PHE:CD1	1:I:80:PHE:CB	2.73	0.70
1:I:458:HIS:HD2	1:I:460:VAL:N	1.88	0.70
1:K:180:PHE:N	1:K:181:PRO:CD	2.54	0.70
1:K:192:ARG:O	1:K:193:SER:C	2.34	0.70
1:K:385:LYS:HG3	1:K:386:ILE:N	2.05	0.70
1:L:385:LYS:HG3	1:L:386:ILE:N	2.04	0.70
1:A:103:ASP:O	1:A:106:SER:N	2.24	0.70
1:B:156:GLY:CA	1:B:216:ALA:HB2	2.20	0.70
1:B:332:LEU:HD12	1:B:332:LEU:N	2.05	0.70
1:C:65:MET:HE2	1:C:65:MET:CA	2.20	0.70
1:C:192:ARG:O	1:C:193:SER:C	2.34	0.70
1:C:362:ASP:C	1:C:364:ALA:H	1.98	0.70
1:C:429:LYS:HD2	1:C:436:ASP:OD1	1.91	0.70
1:D:390:GLU:CB	1:D:391:PRO:HD2	2.20	0.70
1:D:458:HIS:HD2	1:D:460:VAL:N	1.89	0.70
1:E:79:PHE:CD1	1:E:80:PHE:CB	2.73	0.70
1:E:103:ASP:OD1	1:E:106:SER:CB	2.40	0.70
1:E:185:VAL:HG12	1:E:185:VAL:O	1.90	0.70
1:E:362:ASP:C	1:E:364:ALA:H	1.98	0.70
1:F:19:LEU:O	1:F:20:ARG:CB	2.39	0.70
1:G:24:THR:HG22	1:G:25:LYS:H	1.56	0.70
1:G:28:GLU:CG	1:L:182:VAL:HG13	2.20	0.70
1:H:19:LEU:O	1:H:20:ARG:CB	2.39	0.70
1:I:43:PHE:HE2	1:I:69:PRO:HB3	1.56	0.70
1:I:103:ASP:OD1	1:I:106:SER:CB	2.40	0.70
1:I:156:GLY:CA	1:I:216:ALA:HB2	2.20	0.70
1:I:362:ASP:C	1:I:364:ALA:H	1.98	0.70
1:I:407:ILE:CD1	1:I:408:PRO:HD2	2.16	0.70
1:K:429:LYS:HD2	1:K:436:ASP:OD1	1.91	0.70
1:L:15:LYS:O	1:L:16:PHE:CB	2.37	0.70
1:L:120:ILE:HD13	1:L:382:ILE:HG22	1.73	0.70
1:L:156:GLY:CA	1:L:216:ALA:HB2	2.20	0.70
1:L:274:LEU:HD11	1:L:282:PHE:HE1	1.54	0.70
1:L:405:LYS:CG	1:L:406:GLU:N	2.53	0.70
1:A:120:ILE:HD13	1:A:382:ILE:HG22	1.73	0.70
1:C:256:MET:HE3	1:I:466:TYR:CA	2.19	0.70
1:C:385:LYS:HG3	1:C:386:ILE:N	2.05	0.70
1:D:39:ASN:C	1:D:39:ASN:ND2	2.44	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:43:PHE:HE2	1:E:69:PRO:HB3	1.56	0.70
1:E:461:GLU:OE1	1:K:316:THR:CG2	2.36	0.70
1:F:65:MET:HE2	1:F:65:MET:CA	2.20	0.70
1:G:39:ASN:C	1:G:39:ASN:ND2	2.44	0.70
1:G:332:LEU:HD12	1:G:332:LEU:N	2.05	0.70
1:I:185:VAL:HG12	1:I:185:VAL:O	1.90	0.70
1:I:385:LYS:CG	1:I:386:ILE:N	2.50	0.70
1:L:2:ALA:O	1:L:6:LEU:HD23	1.91	0.70
1:A:39:ASN:C	1:A:39:ASN:ND2	2.44	0.70
1:A:192:ARG:O	1:A:193:SER:C	2.34	0.70
1:A:390:GLU:CB	1:A:391:PRO:HD2	2.20	0.70
1:F:57:TRP:HD1	1:F:58:LYS:N	1.86	0.70
1:G:103:ASP:O	1:G:106:SER:N	2.24	0.70
1:G:156:GLY:CA	1:G:216:ALA:HB2	2.20	0.70
1:H:351:PRO:HG2	1:H:352:LYS:N	2.07	0.70
1:J:18:ASP:OD2	1:J:19:LEU:N	2.19	0.70
1:J:39:ASN:C	1:J:39:ASN:ND2	2.44	0.70
1:K:185:VAL:O	1:K:185:VAL:HG12	1.90	0.70
1:K:458:HIS:HD2	1:K:460:VAL:N	1.88	0.70
1:L:24:THR:HG22	1:L:25:LYS:H	1.56	0.70
1:A:42:PHE:CE1	1:A:66:VAL:HG11	2.26	0.70
1:A:351:PRO:HG2	1:A:352:LYS:N	2.07	0.70
1:B:120:ILE:HD13	1:B:382:ILE:HG22	1.74	0.70
1:B:192:ARG:O	1:B:193:SER:C	2.34	0.70
1:C:114:TYR:CD1	1:C:114:TYR:C	2.70	0.70
1:C:316:THR:CG2	1:I:461:GLU:OE1	2.36	0.70
1:C:338:ASN:ND2	1:C:395:ASN:N	2.37	0.70
1:D:18:ASP:OD2	1:D:19:LEU:N	2.19	0.70
1:E:466:TYR:CA	1:K:256:MET:HE3	2.19	0.70
1:F:185:VAL:HG12	1:F:185:VAL:O	1.90	0.70
1:F:351:PRO:HG2	1:F:352:LYS:N	2.07	0.70
1:G:42:PHE:CE1	1:G:66:VAL:HG11	2.26	0.70
1:G:120:ILE:HD13	1:G:382:ILE:HG22	1.73	0.70
1:G:390:GLU:CB	1:G:391:PRO:HD2	2.20	0.70
1:J:82:ASP:OD1	1:J:82:ASP:N	2.16	0.70
1:J:348:VAL:CG1	1:J:354:ARG:HD3	2.20	0.70
1:J:458:HIS:HD2	1:J:460:VAL:N	1.89	0.70
1:L:70:ASP:O	1:L:72:SER:N	2.25	0.70
1:A:156:GLY:CA	1:A:216:ALA:HB2	2.21	0.70
1:B:24:THR:HG22	1:B:25:LYS:H	1.56	0.70
1:B:70:ASP:O	1:B:72:SER:N	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:280:ASN:ND2	1:B:280:ASN:H	1.90	0.70
1:C:185:VAL:O	1:C:185:VAL:HG12	1.90	0.70
1:C:274:LEU:HD11	1:C:282:PHE:HE1	1.54	0.70
1:D:103:ASP:O	1:D:106:SER:N	2.24	0.70
1:D:339:ARG:CG	1:D:340:SER:H	1.99	0.70
1:E:385:LYS:CG	1:E:386:ILE:N	2.50	0.70
1:G:192:ARG:O	1:G:193:SER:C	2.34	0.70
1:G:274:LEU:CD1	1:G:282:PHE:CE1	2.75	0.70
1:H:429:LYS:HD2	1:H:436:ASP:OD1	1.91	0.70
1:J:43:PHE:HE2	1:J:69:PRO:HB3	1.56	0.70
1:J:182:VAL:HG13	1:K:28:GLU:CG	2.20	0.70
1:J:280:ASN:ND2	1:J:280:ASN:H	1.90	0.70
1:K:18:ASP:OD2	1:K:19:LEU:N	2.19	0.70
1:K:103:ASP:O	1:K:106:SER:N	2.24	0.70
1:K:114:TYR:CD1	1:K:114:TYR:C	2.70	0.70
1:K:338:ASN:ND2	1:K:395:ASN:N	2.37	0.70
1:L:192:ARG:O	1:L:193:SER:C	2.34	0.70
1:A:19:LEU:C	1:A:19:LEU:CD1	2.49	0.70
1:A:40:ALA:HA	1:A:43:PHE:HB2	1.74	0.70
1:A:274:LEU:CD1	1:A:282:PHE:CE1	2.75	0.70
1:B:274:LEU:CD1	1:B:282:PHE:CE1	2.75	0.70
1:C:103:ASP:O	1:C:106:SER:N	2.24	0.70
1:C:458:HIS:HD2	1:C:460:VAL:N	1.88	0.70
1:D:43:PHE:HE2	1:D:69:PRO:HB3	1.56	0.70
1:D:82:ASP:OD1	1:D:82:ASP:N	2.16	0.70
1:D:332:LEU:HD12	1:D:332:LEU:N	2.05	0.70
1:D:348:VAL:CG1	1:D:354:ARG:HD3	2.20	0.70
1:F:180:PHE:N	1:F:181:PRO:CD	2.54	0.70
1:G:40:ALA:HA	1:G:43:PHE:HB2	1.74	0.70
1:G:280:ASN:ND2	1:G:280:ASN:H	1.90	0.70
1:H:185:VAL:HG12	1:H:185:VAL:O	1.90	0.70
1:I:120:ILE:HD13	1:I:382:ILE:HG22	1.73	0.70
1:J:90:ASP:O	1:J:91:ILE:HG22	1.91	0.70
1:J:103:ASP:O	1:J:106:SER:N	2.24	0.70
1:L:90:ASP:O	1:L:91:ILE:HG22	1.91	0.70
1:A:43:PHE:HE2	1:A:69:PRO:HB3	1.56	0.70
1:B:43:PHE:HE2	1:B:69:PRO:HB3	1.57	0.70
1:B:228:MET:CE	1:B:371:PHE:C	2.65	0.70
1:C:18:ASP:OD2	1:C:19:LEU:N	2.20	0.70
1:C:228:MET:CE	1:C:371:PHE:C	2.65	0.70
1:D:90:ASP:O	1:D:91:ILE:HG22	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:280:ASN:H	1:D:280:ASN:ND2	1.90	0.70
1:E:407:ILE:CD1	1:E:408:PRO:HD2	2.16	0.70
1:F:316:THR:CG2	1:L:461:GLU:CD	2.65	0.70
1:F:429:LYS:HD2	1:F:436:ASP:OD1	1.91	0.70
1:G:19:LEU:C	1:G:19:LEU:CD1	2.49	0.70
1:I:192:ARG:O	1:I:193:SER:C	2.34	0.70
1:K:228:MET:CE	1:K:371:PHE:C	2.65	0.70
1:L:43:PHE:HE2	1:L:69:PRO:HB3	1.56	0.70
1:L:274:LEU:CD1	1:L:282:PHE:CE1	2.75	0.70
1:L:280:ASN:ND2	1:L:280:ASN:H	1.90	0.70
1:L:429:LYS:HD2	1:L:436:ASP:OD1	1.91	0.70
1:A:228:MET:HE1	1:A:372:ALA:N	2.07	0.70
1:A:280:ASN:ND2	1:A:280:ASN:H	1.90	0.70
1:B:90:ASP:O	1:B:91:ILE:HG22	1.91	0.70
1:B:461:GLU:CD	1:H:316:THR:CG2	2.65	0.70
1:C:28:GLU:CG	1:D:182:VAL:HG13	2.20	0.70
1:D:120:ILE:HD13	1:D:382:ILE:HG22	1.74	0.70
1:D:339:ARG:CG	1:D:340:SER:N	2.49	0.70
1:E:15:LYS:O	1:E:16:PHE:CB	2.37	0.70
1:E:192:ARG:O	1:E:193:SER:C	2.34	0.70
1:F:43:PHE:HE2	1:F:69:PRO:HB3	1.57	0.70
1:F:192:ARG:O	1:F:193:SER:C	2.34	0.70
1:F:465:TYR:CE2	1:L:315:THR:HG21	2.05	0.70
1:G:2:ALA:O	1:G:6:LEU:HD23	1.91	0.70
1:G:405:LYS:CG	1:G:406:GLU:N	2.53	0.70
1:H:19:LEU:HD22	1:H:240:TYR:CE2	2.25	0.70
1:H:43:PHE:HE2	1:H:69:PRO:HB3	1.56	0.70
1:H:180:PHE:N	1:H:181:PRO:CD	2.54	0.70
1:H:228:MET:HE1	1:H:372:ALA:N	2.07	0.70
1:H:309:ASN:HB2	1:H:313:ASN:HD22	1.57	0.70
1:I:15:LYS:O	1:I:16:PHE:CB	2.37	0.70
1:I:280:ASN:ND2	1:I:280:ASN:H	1.90	0.70
1:J:120:ILE:HD13	1:J:382:ILE:HG22	1.73	0.70
1:J:332:LEU:HD12	1:J:332:LEU:N	2.05	0.70
1:J:339:ARG:CG	1:J:340:SER:N	2.49	0.70
1:K:3:GLU:O	1:K:6:LEU:CB	2.40	0.70
1:K:79:PHE:HD1	1:K:80:PHE:CB	2.05	0.70
1:L:114:TYR:C	1:L:114:TYR:CD1	2.70	0.70
1:A:19:LEU:O	1:A:20:ARG:CB	2.39	0.69
1:C:3:GLU:O	1:C:6:LEU:CB	2.40	0.69
1:C:79:PHE:HD1	1:C:80:PHE:CB	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:120:ILE:HD13	1:C:382:ILE:HG22	1.73	0.69
1:C:280:ASN:ND2	1:C:280:ASN:H	1.90	0.69
1:E:228:MET:HE1	1:E:372:ALA:N	2.07	0.69
1:E:280:ASN:ND2	1:E:280:ASN:H	1.90	0.69
1:F:274:LEU:CD1	1:F:282:PHE:CE1	2.75	0.69
1:F:274:LEU:HD11	1:F:282:PHE:HE1	1.54	0.69
1:G:43:PHE:HE2	1:G:69:PRO:HB3	1.56	0.69
1:G:185:VAL:O	1:G:185:VAL:HG12	1.90	0.69
1:H:192:ARG:O	1:H:193:SER:C	2.34	0.69
1:I:223:THR:HG22	1:I:231:LYS:HZ3	1.56	0.69
1:I:228:MET:HE1	1:I:372:ALA:N	2.07	0.69
1:K:90:ASP:O	1:K:91:ILE:HG22	1.91	0.69
1:K:178:GLY:O	1:K:213:VAL:HA	1.92	0.69
1:K:274:LEU:HD11	1:K:282:PHE:HE1	1.54	0.69
1:K:280:ASN:ND2	1:K:280:ASN:H	1.90	0.69
1:A:20:ARG:CG	1:A:28:GLU:CD	2.60	0.69
1:A:20:ARG:HH22	1:A:86:ILE:CG2	2.06	0.69
1:A:70:ASP:O	1:A:72:SER:N	2.25	0.69
1:A:214:ALA:O	1:A:215:THR:C	2.34	0.69
1:A:405:LYS:CG	1:A:406:GLU:N	2.53	0.69
1:A:461:GLU:OE1	1:G:316:THR:CG2	2.36	0.69
1:B:429:LYS:HD2	1:B:436:ASP:OD1	1.91	0.69
1:C:214:ALA:O	1:C:215:THR:C	2.34	0.69
1:C:461:GLU:CD	1:I:316:THR:CG2	2.65	0.69
1:E:70:ASP:O	1:E:72:SER:N	2.25	0.69
1:E:316:THR:CG2	1:K:461:GLU:CD	2.65	0.69
1:F:228:MET:HE1	1:F:372:ALA:N	2.08	0.69
1:G:20:ARG:CG	1:G:28:GLU:CD	2.60	0.69
1:G:20:ARG:HH22	1:G:86:ILE:CG2	2.06	0.69
1:G:70:ASP:O	1:G:72:SER:N	2.25	0.69
1:G:228:MET:HE1	1:G:372:ALA:N	2.08	0.69
1:H:178:GLY:O	1:H:213:VAL:HA	1.92	0.69
1:H:339:ARG:CG	1:H:340:SER:N	2.49	0.69
1:J:11:GLU:HB3	1:J:12:HIS:CD2	2.28	0.69
1:J:42:PHE:CE1	1:J:66:VAL:HG11	2.26	0.69
1:K:214:ALA:O	1:K:215:THR:C	2.34	0.69
1:L:79:PHE:HD1	1:L:80:PHE:CB	2.05	0.69
1:L:103:ASP:OD1	1:L:106:SER:CB	2.39	0.69
1:L:180:PHE:N	1:L:181:PRO:CD	2.54	0.69
1:L:228:MET:CE	1:L:371:PHE:C	2.65	0.69
1:A:2:ALA:O	1:A:6:LEU:HD23	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:185:VAL:HG12	1:A:185:VAL:O	1.90	0.69
1:A:316:THR:CG2	1:G:461:GLU:CD	2.65	0.69
1:B:79:PHE:HD1	1:B:80:PHE:CB	2.05	0.69
1:B:103:ASP:OD1	1:B:106:SER:CB	2.40	0.69
1:B:103:ASP:O	1:B:106:SER:N	2.24	0.69
1:B:114:TYR:CD1	1:B:114:TYR:C	2.70	0.69
1:B:214:ALA:O	1:B:215:THR:C	2.34	0.69
1:B:315:THR:HG21	1:H:465:TYR:CE2	2.05	0.69
1:C:42:PHE:CE1	1:C:66:VAL:HG11	2.26	0.69
1:C:90:ASP:O	1:C:91:ILE:HG22	1.91	0.69
1:C:178:GLY:O	1:C:213:VAL:HA	1.92	0.69
1:C:316:THR:CG2	1:I:461:GLU:CD	2.65	0.69
1:D:11:GLU:HB3	1:D:12:HIS:CD2	2.28	0.69
1:D:42:PHE:CE1	1:D:66:VAL:HG11	2.26	0.69
1:D:65:MET:HE2	1:D:65:MET:CA	2.20	0.69
1:D:79:PHE:HD1	1:D:80:PHE:CB	2.05	0.69
1:E:11:GLU:HB3	1:E:12:HIS:CD2	2.28	0.69
1:E:120:ILE:HD13	1:E:382:ILE:HG22	1.73	0.69
1:F:20:ARG:HH22	1:F:86:ILE:CG2	2.05	0.69
1:F:178:GLY:O	1:F:213:VAL:HA	1.93	0.69
1:F:309:ASN:HB2	1:F:313:ASN:HD22	1.58	0.69
1:F:339:ARG:CG	1:F:340:SER:N	2.49	0.69
1:H:274:LEU:CD1	1:H:282:PHE:CE1	2.75	0.69
1:H:274:LEU:HD11	1:H:282:PHE:HE1	1.54	0.69
1:I:11:GLU:HB3	1:I:12:HIS:CD2	2.28	0.69
1:I:70:ASP:O	1:I:72:SER:N	2.25	0.69
1:J:24:THR:HG22	1:J:25:LYS:H	1.56	0.69
1:J:79:PHE:HD1	1:J:80:PHE:CB	2.05	0.69
1:K:309:ASN:HB2	1:K:313:ASN:HD22	1.57	0.69
1:L:214:ALA:O	1:L:215:THR:C	2.34	0.69
1:A:28:GLU:HG3	1:B:182:VAL:HG13	1.74	0.69
1:A:461:GLU:CD	1:G:316:THR:CG2	2.65	0.69
1:B:180:PHE:N	1:B:181:PRO:CD	2.54	0.69
1:C:43:PHE:HE2	1:C:69:PRO:HB3	1.56	0.69
1:D:192:ARG:O	1:D:193:SER:C	2.34	0.69
1:D:316:THR:CG2	1:J:461:GLU:CD	2.65	0.69
1:E:461:GLU:CD	1:K:316:THR:CG2	2.65	0.69
1:G:103:ASP:OD1	1:G:106:SER:CB	2.39	0.69
1:G:214:ALA:O	1:G:215:THR:C	2.34	0.69
1:G:376:MET:HE3	1:G:433:VAL:HG13	1.74	0.69
1:G:400:PRO:HB2	1:G:401:PRO:HD3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:20:ARG:HH22	1:H:86:ILE:CG2	2.05	0.69
1:H:120:ILE:HD13	1:H:382:ILE:HG22	1.74	0.69
1:H:376:MET:HE3	1:H:433:VAL:HG13	1.74	0.69
1:I:309:ASN:HB2	1:I:313:ASN:HD22	1.57	0.69
1:I:351:PRO:HG2	1:I:352:LYS:N	2.07	0.69
1:J:65:MET:HE2	1:J:65:MET:CA	2.20	0.69
1:J:178:GLY:O	1:J:213:VAL:HA	1.92	0.69
1:J:192:ARG:O	1:J:193:SER:C	2.34	0.69
1:K:11:GLU:HB3	1:K:12:HIS:CD2	2.28	0.69
1:K:120:ILE:HD13	1:K:382:ILE:HG22	1.74	0.69
1:L:103:ASP:O	1:L:106:SER:N	2.24	0.69
1:L:362:ASP:C	1:L:364:ALA:H	1.98	0.69
1:A:114:TYR:C	1:A:114:TYR:CD1	2.70	0.69
1:A:376:MET:HE3	1:A:433:VAL:HG13	1.74	0.69
1:B:228:MET:HE1	1:B:372:ALA:N	2.07	0.69
1:C:70:ASP:O	1:C:72:SER:N	2.25	0.69
1:C:274:LEU:CD1	1:C:282:PHE:CE1	2.75	0.69
1:C:309:ASN:HB2	1:C:313:ASN:HD22	1.57	0.69
1:C:376:MET:HE3	1:C:433:VAL:HG13	1.74	0.69
1:D:19:LEU:O	1:D:20:ARG:HB3	1.92	0.69
1:D:178:GLY:O	1:D:213:VAL:HA	1.92	0.69
1:D:461:GLU:CD	1:J:316:THR:CG2	2.65	0.69
1:E:178:GLY:O	1:E:213:VAL:HA	1.92	0.69
1:F:7:THR:O	1:F:9:LEU:N	2.26	0.69
1:F:11:GLU:HB3	1:F:12:HIS:CD2	2.27	0.69
1:F:120:ILE:HD13	1:F:382:ILE:HG22	1.73	0.69
1:G:19:LEU:O	1:G:20:ARG:CB	2.39	0.69
1:G:28:GLU:HG3	1:L:182:VAL:HG13	1.75	0.69
1:H:103:ASP:H	1:H:104:PRO:CD	1.99	0.69
1:J:228:MET:CE	1:J:371:PHE:C	2.65	0.69
1:K:42:PHE:CE1	1:K:66:VAL:HG11	2.26	0.69
1:K:43:PHE:HE2	1:K:69:PRO:HB3	1.57	0.69
1:K:103:ASP:OD1	1:K:106:SER:CB	2.39	0.69
1:A:316:THR:CG2	1:G:461:GLU:OE1	2.36	0.69
1:C:103:ASP:OD1	1:C:106:SER:CB	2.39	0.69
1:D:3:GLU:O	1:D:6:LEU:CB	2.40	0.69
1:D:24:THR:HG22	1:D:25:LYS:H	1.56	0.69
1:D:70:ASP:O	1:D:72:SER:N	2.25	0.69
1:D:114:TYR:C	1:D:114:TYR:CD1	2.70	0.69
1:D:400:PRO:HB2	1:D:401:PRO:HD3	1.75	0.69
1:D:466:TYR:HH	1:J:252:THR:HG21	1.52	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:223:THR:HG22	1:E:231:LYS:HZ3	1.56	0.69
1:E:309:ASN:HB2	1:E:313:ASN:HD22	1.57	0.69
1:E:351:PRO:HG2	1:E:352:LYS:N	2.07	0.69
1:E:466:TYR:OH	1:K:252:THR:HG22	1.85	0.69
1:F:40:ALA:HA	1:F:43:PHE:HB2	1.74	0.69
1:F:70:ASP:O	1:F:72:SER:N	2.25	0.69
1:F:376:MET:HE3	1:F:433:VAL:HG13	1.74	0.69
1:G:114:TYR:CD1	1:G:114:TYR:C	2.70	0.69
1:G:182:VAL:HG13	1:H:28:GLU:HG3	1.75	0.69
1:G:309:ASN:HB2	1:G:313:ASN:HD22	1.57	0.69
1:H:7:THR:O	1:H:9:LEU:N	2.26	0.69
1:H:362:ASP:C	1:H:364:ALA:H	1.98	0.69
1:I:7:THR:O	1:I:9:LEU:N	2.26	0.69
1:J:70:ASP:O	1:J:72:SER:N	2.25	0.69
1:K:70:ASP:O	1:K:72:SER:N	2.25	0.69
1:K:274:LEU:CD1	1:K:282:PHE:CE1	2.75	0.69
1:L:309:ASN:HB2	1:L:313:ASN:HD22	1.57	0.69
1:A:103:ASP:OD1	1:A:106:SER:CB	2.40	0.69
1:A:228:MET:CE	1:A:371:PHE:C	2.65	0.69
1:A:309:ASN:HB2	1:A:313:ASN:HD22	1.57	0.69
1:B:309:ASN:HB2	1:B:313:ASN:HD22	1.57	0.69
1:C:11:GLU:HB3	1:C:12:HIS:CD2	2.28	0.69
1:C:19:LEU:O	1:C:20:ARG:CB	2.39	0.69
1:C:252:THR:HG22	1:I:466:TYR:OH	1.85	0.69
1:E:7:THR:O	1:E:9:LEU:N	2.26	0.69
1:H:11:GLU:HB3	1:H:12:HIS:CD2	2.28	0.69
1:H:40:ALA:HA	1:H:43:PHE:HB2	1.74	0.69
1:H:70:ASP:O	1:H:72:SER:N	2.25	0.69
1:J:3:GLU:O	1:J:6:LEU:CB	2.40	0.69
1:J:19:LEU:O	1:J:20:ARG:HB3	1.93	0.69
1:L:228:MET:HE1	1:L:372:ALA:N	2.08	0.69
1:A:400:PRO:HB2	1:A:401:PRO:HD3	1.75	0.69
1:B:11:GLU:HB3	1:B:12:HIS:CD2	2.28	0.69
1:B:19:LEU:O	1:B:20:ARG:HB3	1.93	0.69
1:B:88:ARG:NH2	1:B:109:LYS:CE	2.56	0.69
1:B:316:THR:CG2	1:H:461:GLU:CD	2.65	0.69
1:B:362:ASP:C	1:B:364:ALA:H	1.98	0.69
1:C:88:ARG:NH2	1:C:109:LYS:CE	2.56	0.69
1:C:243:HIS:HB3	1:D:184:PRO:HG3	1.75	0.69
1:C:461:GLU:OE1	1:I:316:THR:CG2	2.36	0.69
1:D:7:THR:O	1:D:9:LEU:N	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:214:ALA:O	1:D:215:THR:C	2.34	0.69
1:E:400:PRO:HB2	1:E:401:PRO:HD3	1.75	0.69
1:F:3:GLU:C	1:F:6:LEU:HB2	2.18	0.69
1:F:384:ASN:O	1:F:385:LYS:HG3	1.93	0.69
1:F:461:GLU:CD	1:L:316:THR:CG2	2.65	0.69
1:G:228:MET:CE	1:G:371:PHE:C	2.65	0.69
1:G:429:LYS:HD2	1:G:436:ASP:OD1	1.91	0.69
1:H:280:ASN:C	1:H:282:PHE:N	2.51	0.69
1:J:114:TYR:CD1	1:J:114:TYR:C	2.70	0.69
1:J:400:PRO:HB2	1:J:401:PRO:HD3	1.75	0.69
1:K:19:LEU:O	1:K:20:ARG:CB	2.39	0.69
1:K:376:MET:HE3	1:K:433:VAL:HG13	1.74	0.69
1:L:11:GLU:HB3	1:L:12:HIS:CD2	2.28	0.69
1:L:19:LEU:O	1:L:20:ARG:HB3	1.93	0.69
1:L:88:ARG:NH2	1:L:109:LYS:CE	2.56	0.69
1:A:11:GLU:HB3	1:A:12:HIS:CD2	2.28	0.69
1:A:88:ARG:NH2	1:A:109:LYS:CE	2.56	0.69
1:A:178:GLY:O	1:A:213:VAL:HA	1.92	0.69
1:A:338:ASN:ND2	1:A:395:ASN:N	2.37	0.69
1:A:384:ASN:O	1:A:385:LYS:HG3	1.93	0.69
1:A:429:LYS:HD2	1:A:436:ASP:OD1	1.91	0.69
1:C:19:LEU:O	1:C:20:ARG:HB3	1.93	0.69
1:D:20:ARG:HH22	1:D:86:ILE:CG2	2.05	0.69
1:D:75:VAL:CG2	1:D:84:THR:CG2	2.71	0.69
1:D:103:ASP:OD1	1:D:106:SER:CB	2.40	0.69
1:E:114:TYR:C	1:E:114:TYR:CD1	2.70	0.69
1:E:384:ASN:O	1:E:385:LYS:HG3	1.93	0.69
1:F:103:ASP:H	1:F:104:PRO:CD	1.99	0.69
1:F:114:TYR:CD1	1:F:114:TYR:C	2.70	0.69
1:G:11:GLU:HB3	1:G:12:HIS:CD2	2.28	0.69
1:G:88:ARG:NH2	1:G:109:LYS:CE	2.56	0.69
1:G:338:ASN:ND2	1:G:395:ASN:N	2.37	0.69
1:G:384:ASN:O	1:G:385:LYS:HG3	1.93	0.69
1:H:3:GLU:C	1:H:6:LEU:HB2	2.18	0.69
1:H:114:TYR:C	1:H:114:TYR:CD1	2.70	0.69
1:H:384:ASN:O	1:H:385:LYS:HG3	1.93	0.69
1:I:178:GLY:O	1:I:213:VAL:HA	1.93	0.69
1:I:184:PRO:HG3	1:J:243:HIS:HB3	1.75	0.69
1:I:400:PRO:HB2	1:I:401:PRO:HD3	1.75	0.69
1:J:7:THR:O	1:J:9:LEU:N	2.26	0.69
1:J:103:ASP:OD1	1:J:106:SER:CB	2.39	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:184:PRO:HG3	1:K:243:HIS:HB3	1.75	0.69
1:K:88:ARG:NH2	1:K:109:LYS:CE	2.56	0.69
1:L:178:GLY:O	1:L:213:VAL:HA	1.92	0.69
1:L:400:PRO:HB2	1:L:401:PRO:HD3	1.75	0.69
1:B:24:THR:HB	1:B:26:GLY:H	1.58	0.69
1:B:33:ILE:HD13	1:B:34:PRO:HD2	1.75	0.69
1:B:178:GLY:O	1:B:213:VAL:HA	1.92	0.69
1:B:400:PRO:HB2	1:B:401:PRO:HD3	1.75	0.69
1:C:252:THR:HG21	1:I:466:TYR:HH	0.64	0.69
1:D:88:ARG:NH2	1:D:109:LYS:CE	2.56	0.69
1:D:243:HIS:HB3	1:E:184:PRO:HG3	1.75	0.69
1:D:384:ASN:O	1:D:385:LYS:HG3	1.93	0.69
1:E:3:GLU:O	1:E:6:LEU:CB	2.40	0.69
1:E:14:VAL:HA	1:E:81:ALA:CB	2.23	0.69
1:E:280:ASN:C	1:E:282:PHE:N	2.51	0.69
1:E:466:TYR:HH	1:K:252:THR:HG21	0.64	0.69
1:I:3:GLU:O	1:I:6:LEU:CB	2.40	0.69
1:J:88:ARG:NH2	1:J:109:LYS:CE	2.56	0.69
1:J:384:ASN:O	1:J:385:LYS:HG3	1.93	0.69
1:K:54:ILE:CG1	1:K:102:ARG:NE	2.47	0.69
1:K:272:MET:HE2	1:K:297:TYR:CE2	2.28	0.69
1:K:400:PRO:HB2	1:K:401:PRO:HD3	1.75	0.69
1:L:24:THR:HB	1:L:26:GLY:H	1.59	0.69
1:L:42:PHE:CE1	1:L:66:VAL:HG11	2.26	0.69
1:A:7:THR:O	1:A:9:LEU:N	2.26	0.68
1:A:39:ASN:O	1:A:40:ALA:HB3	1.94	0.68
1:B:272:MET:HE2	1:B:297:TYR:CE2	2.28	0.68
1:C:272:MET:HE2	1:C:297:TYR:CE2	2.28	0.68
1:C:400:PRO:HB2	1:C:401:PRO:HD3	1.75	0.68
1:D:272:MET:HE2	1:D:297:TYR:CE2	2.28	0.68
1:E:180:PHE:N	1:E:181:PRO:CD	2.54	0.68
1:E:274:LEU:CD1	1:E:282:PHE:CE1	2.75	0.68
1:E:316:THR:CG2	1:K:461:GLU:OE1	2.36	0.68
1:F:3:GLU:O	1:F:6:LEU:CB	2.40	0.68
1:F:88:ARG:NH2	1:F:109:LYS:CE	2.56	0.68
1:G:7:THR:O	1:G:9:LEU:N	2.26	0.68
1:G:39:ASN:O	1:G:40:ALA:HB3	1.94	0.68
1:G:75:VAL:CG2	1:G:84:THR:CG2	2.71	0.68
1:G:178:GLY:O	1:G:213:VAL:HA	1.92	0.68
1:H:3:GLU:O	1:H:6:LEU:CB	2.40	0.68
1:I:14:VAL:HA	1:I:81:ALA:CB	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:88:ARG:NH2	1:I:109:LYS:CE	2.56	0.68
1:I:114:TYR:C	1:I:114:TYR:CD1	2.70	0.68
1:I:180:PHE:N	1:I:181:PRO:CD	2.54	0.68
1:J:20:ARG:HH22	1:J:86:ILE:CG2	2.06	0.68
1:J:75:VAL:CG2	1:J:84:THR:CG2	2.71	0.68
1:J:346:PRO:C	1:J:347:VAL:O	2.35	0.68
1:K:3:GLU:C	1:K:6:LEU:HB2	2.18	0.68
1:A:75:VAL:CG2	1:A:84:THR:CG2	2.71	0.68
1:B:3:GLU:C	1:B:6:LEU:HB2	2.18	0.68
1:B:42:PHE:CE1	1:B:66:VAL:HG11	2.26	0.68
1:B:337:ARG:HG3	1:B:338:ASN:N	2.08	0.68
1:C:3:GLU:C	1:C:6:LEU:HB2	2.18	0.68
1:C:33:ILE:HD13	1:C:34:PRO:HD2	1.75	0.68
1:D:228:MET:HE1	1:D:372:ALA:N	2.07	0.68
1:D:346:PRO:C	1:D:347:VAL:O	2.35	0.68
1:E:19:LEU:HD22	1:E:240:TYR:HH	1.58	0.68
1:E:33:ILE:HD13	1:E:34:PRO:HD2	1.75	0.68
1:E:243:HIS:HB3	1:F:184:PRO:HG3	1.75	0.68
1:F:228:MET:CE	1:F:371:PHE:C	2.65	0.68
1:F:466:TYR:HH	1:L:252:THR:HG21	0.64	0.68
1:H:88:ARG:NH2	1:H:109:LYS:CE	2.56	0.68
1:H:280:ASN:ND2	1:H:280:ASN:H	1.90	0.68
1:I:33:ILE:HD13	1:I:34:PRO:HD2	1.75	0.68
1:I:228:MET:CE	1:I:371:PHE:C	2.65	0.68
1:I:274:LEU:CD1	1:I:282:PHE:CE1	2.75	0.68
1:I:280:ASN:C	1:I:282:PHE:N	2.51	0.68
1:I:384:ASN:O	1:I:385:LYS:HG3	1.93	0.68
1:J:214:ALA:O	1:J:215:THR:C	2.34	0.68
1:J:272:MET:HE2	1:J:297:TYR:CE2	2.29	0.68
1:J:309:ASN:HB2	1:J:313:ASN:HD22	1.57	0.68
1:K:19:LEU:O	1:K:20:ARG:HB3	1.93	0.68
1:L:3:GLU:O	1:L:6:LEU:CB	2.40	0.68
1:L:3:GLU:C	1:L:6:LEU:HB2	2.18	0.68
1:L:7:THR:O	1:L:9:LEU:N	2.26	0.68
1:L:272:MET:HE2	1:L:297:TYR:CE2	2.28	0.68
1:A:436:ASP:O	1:A:439:ILE:HB	1.94	0.68
1:B:19:LEU:C	1:B:19:LEU:CD1	2.49	0.68
1:B:39:ASN:O	1:B:40:ALA:HB3	1.94	0.68
1:C:68:MET:C	1:C:70:ASP:OD2	2.37	0.68
1:D:24:THR:HB	1:D:26:GLY:H	1.58	0.68
1:D:39:ASN:O	1:D:40:ALA:HB3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:228:MET:CE	1:E:371:PHE:C	2.65	0.68
1:F:280:ASN:ND2	1:F:280:ASN:H	1.90	0.68
1:G:3:GLU:O	1:G:6:LEU:CB	2.40	0.68
1:G:346:PRO:C	1:G:347:VAL:O	2.35	0.68
1:H:228:MET:CE	1:H:371:PHE:C	2.65	0.68
1:H:400:PRO:HB2	1:H:401:PRO:HD3	1.75	0.68
1:I:67:LEU:HA	1:I:69:PRO:HG3	1.75	0.68
1:J:3:GLU:C	1:J:6:LEU:HB2	2.18	0.68
1:K:20:ARG:HH22	1:K:86:ILE:CG2	2.06	0.68
1:K:68:MET:C	1:K:70:ASP:OD2	2.37	0.68
1:L:33:ILE:HD13	1:L:34:PRO:HD2	1.75	0.68
1:L:67:LEU:O	1:L:86:ILE:HD13	1.93	0.68
1:A:67:LEU:O	1:A:86:ILE:HD13	1.93	0.68
1:A:346:PRO:C	1:A:347:VAL:O	2.36	0.68
1:B:67:LEU:O	1:B:86:ILE:HD13	1.93	0.68
1:D:3:GLU:C	1:D:6:LEU:HB2	2.18	0.68
1:D:274:LEU:CD1	1:D:282:PHE:CE1	2.75	0.68
1:D:309:ASN:HB2	1:D:313:ASN:HD22	1.57	0.68
1:D:340:SER:CB	1:D:395:ASN:OD1	2.41	0.68
1:F:186:ASP:C	1:F:188:ALA:N	2.51	0.68
1:F:400:PRO:HB2	1:F:401:PRO:HD3	1.75	0.68
1:G:436:ASP:O	1:G:439:ILE:HB	1.94	0.68
1:H:14:VAL:HA	1:H:81:ALA:CB	2.24	0.68
1:I:272:MET:HE2	1:I:297:TYR:CE2	2.28	0.68
1:I:398:ASP:O	1:I:399:LEU:O	2.12	0.68
1:J:24:THR:HB	1:J:26:GLY:H	1.58	0.68
1:J:228:MET:HE1	1:J:372:ALA:N	2.07	0.68
1:K:7:THR:O	1:K:9:LEU:N	2.26	0.68
1:K:384:ASN:O	1:K:385:LYS:HG3	1.93	0.68
1:L:19:LEU:C	1:L:19:LEU:CD1	2.49	0.68
1:L:39:ASN:O	1:L:40:ALA:HB3	1.94	0.68
1:L:75:VAL:CG2	1:L:84:THR:CG2	2.71	0.68
1:A:3:GLU:O	1:A:6:LEU:CB	2.40	0.68
1:A:33:ILE:HD13	1:A:34:PRO:HD2	1.75	0.68
1:B:3:GLU:O	1:B:6:LEU:CB	2.40	0.68
1:B:7:THR:O	1:B:9:LEU:N	2.26	0.68
1:B:68:MET:C	1:B:70:ASP:OD2	2.37	0.68
1:B:376:MET:HE3	1:B:433:VAL:HG13	1.74	0.68
1:C:7:THR:O	1:C:9:LEU:N	2.26	0.68
1:C:20:ARG:HH22	1:C:86:ILE:CG2	2.06	0.68
1:C:54:ILE:CG1	1:C:102:ARG:NE	2.47	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:384:ASN:O	1:C:385:LYS:HG3	1.93	0.68
1:D:291:SER:O	1:D:292:GLU:C	2.37	0.68
1:E:20:ARG:CG	1:E:28:GLU:CD	2.60	0.68
1:E:67:LEU:HA	1:E:69:PRO:HG3	1.75	0.68
1:E:88:ARG:NH2	1:E:109:LYS:CE	2.56	0.68
1:E:398:ASP:O	1:E:399:LEU:O	2.12	0.68
1:F:20:ARG:HH12	1:F:86:ILE:CG2	2.07	0.68
1:F:337:ARG:HG3	1:F:338:ASN:N	2.08	0.68
1:G:67:LEU:O	1:G:86:ILE:HD13	1.93	0.68
1:G:88:ARG:C	1:G:89:CYS:O	2.32	0.68
1:H:24:THR:HB	1:H:26:GLY:H	1.58	0.68
1:H:184:PRO:HG3	1:I:243:HIS:HB3	1.75	0.68
1:H:186:ASP:C	1:H:188:ALA:N	2.52	0.68
1:I:19:LEU:O	1:I:20:ARG:CB	2.39	0.68
1:I:20:ARG:HH22	1:I:86:ILE:CG2	2.06	0.68
1:J:39:ASN:O	1:J:40:ALA:HB3	1.93	0.68
1:J:40:ALA:HA	1:J:43:PHE:HB2	1.74	0.68
1:J:92:LEU:HG	1:J:93:GLU:N	2.08	0.68
1:J:274:LEU:CD1	1:J:282:PHE:CE1	2.75	0.68
1:J:291:SER:O	1:J:292:GLU:C	2.37	0.68
1:J:340:SER:CB	1:J:395:ASN:OD1	2.41	0.68
1:J:390:GLU:HB3	1:J:391:PRO:HD2	1.76	0.68
1:K:33:ILE:HD13	1:K:34:PRO:HD2	1.75	0.68
1:L:348:VAL:CG1	1:L:354:ARG:HD3	2.20	0.68
1:L:351:PRO:HG2	1:L:352:LYS:N	2.07	0.68
1:A:19:LEU:HD11	1:A:20:ARG:HB2	1.75	0.68
1:A:88:ARG:C	1:A:89:CYS:O	2.32	0.68
1:B:27:LYS:NZ	1:B:239:LYS:CE	2.50	0.68
1:B:28:GLU:HG3	1:C:182:VAL:HG13	1.75	0.68
1:B:75:VAL:CG2	1:B:84:THR:CG2	2.71	0.68
1:B:436:ASP:O	1:B:439:ILE:HB	1.93	0.68
1:C:75:VAL:CG2	1:C:84:THR:CG2	2.71	0.68
1:D:351:PRO:HG2	1:D:352:LYS:N	2.07	0.68
1:D:398:ASP:O	1:D:399:LEU:O	2.12	0.68
1:E:19:LEU:O	1:E:20:ARG:CB	2.39	0.68
1:E:20:ARG:HH22	1:E:86:ILE:CG2	2.06	0.68
1:E:272:MET:HE2	1:E:297:TYR:CE2	2.28	0.68
1:F:19:LEU:HD11	1:F:20:ARG:HB2	1.75	0.68
1:F:68:MET:N	1:F:69:PRO:CD	2.53	0.68
1:G:157:ALA:O	1:G:159:ASN:N	2.27	0.68
1:G:337:ARG:HG3	1:G:338:ASN:N	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:19:LEU:HD11	1:H:20:ARG:HB2	1.75	0.68
1:H:20:ARG:HH12	1:H:86:ILE:CG2	2.07	0.68
1:H:291:SER:O	1:H:292:GLU:C	2.37	0.68
1:H:337:ARG:HG3	1:H:338:ASN:N	2.09	0.68
1:J:351:PRO:HG2	1:J:352:LYS:N	2.07	0.68
1:K:182:VAL:HG13	1:L:28:GLU:HG3	1.75	0.68
1:A:20:ARG:HH12	1:A:86:ILE:CG2	2.07	0.68
1:A:157:ALA:O	1:A:159:ASN:N	2.27	0.68
1:A:272:MET:HE2	1:A:297:TYR:CE2	2.28	0.68
1:A:337:ARG:HG3	1:A:338:ASN:N	2.09	0.68
1:B:351:PRO:HG2	1:B:352:LYS:N	2.07	0.68
1:C:14:VAL:HA	1:C:81:ALA:CB	2.23	0.68
1:C:39:ASN:O	1:C:40:ALA:HB3	1.93	0.68
1:C:40:ALA:HA	1:C:43:PHE:HB2	1.74	0.68
1:C:67:LEU:O	1:C:86:ILE:HD13	1.93	0.68
1:C:315:THR:CG2	1:I:465:TYR:HD2	1.61	0.68
1:D:27:LYS:HZ2	1:D:239:LYS:NZ	1.88	0.68
1:D:28:GLU:HG3	1:E:182:VAL:HG13	1.74	0.68
1:D:40:ALA:HA	1:D:43:PHE:HB2	1.74	0.68
1:D:390:GLU:HB3	1:D:391:PRO:HD2	1.76	0.68
1:E:3:GLU:C	1:E:6:LEU:HB2	2.18	0.68
1:E:16:PHE:HD1	1:E:79:PHE:HE1	1.42	0.68
1:E:157:ALA:O	1:E:159:ASN:N	2.27	0.68
1:F:14:VAL:HA	1:F:81:ALA:CB	2.24	0.68
1:F:24:THR:HB	1:F:26:GLY:H	1.59	0.68
1:F:436:ASP:O	1:F:439:ILE:HB	1.93	0.68
1:G:19:LEU:HD11	1:G:20:ARG:HB2	1.75	0.68
1:G:33:ILE:HD13	1:G:34:PRO:HD2	1.75	0.68
1:H:33:ILE:HD13	1:H:34:PRO:HD2	1.75	0.68
1:I:157:ALA:O	1:I:159:ASN:N	2.27	0.68
1:J:398:ASP:O	1:J:399:LEU:O	2.12	0.68
1:K:40:ALA:HA	1:K:43:PHE:HB2	1.74	0.68
1:K:75:VAL:CG2	1:K:84:THR:CG2	2.71	0.68
1:L:68:MET:C	1:L:70:ASP:OD2	2.37	0.68
1:L:436:ASP:O	1:L:439:ILE:HB	1.94	0.68
1:B:14:VAL:HA	1:B:81:ALA:CB	2.24	0.68
1:C:337:ARG:HG3	1:C:338:ASN:N	2.08	0.68
1:C:390:GLU:HB3	1:C:391:PRO:HD2	1.76	0.68
1:D:338:ASN:ND2	1:D:395:ASN:N	2.37	0.68
1:F:19:LEU:CD2	1:F:75:VAL:HG22	2.19	0.68
1:F:291:SER:O	1:F:292:GLU:C	2.37	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:79:PHE:HB2	1:G:80:PHE:CD1	2.29	0.68
1:H:19:LEU:CD2	1:H:75:VAL:HG22	2.19	0.68
1:H:68:MET:N	1:H:69:PRO:CD	2.54	0.68
1:H:407:ILE:CD1	1:H:408:PRO:HD2	2.16	0.68
1:H:436:ASP:O	1:H:439:ILE:HB	1.93	0.68
1:I:40:ALA:HA	1:I:43:PHE:HB2	1.74	0.68
1:J:19:LEU:HD11	1:J:20:ARG:HB2	1.75	0.68
1:K:67:LEU:O	1:K:86:ILE:HD13	1.93	0.68
1:L:14:VAL:HA	1:L:81:ALA:CB	2.24	0.68
1:L:27:LYS:NZ	1:L:239:LYS:CE	2.50	0.68
1:L:376:MET:HE3	1:L:433:VAL:HG13	1.74	0.68
1:L:379:LEU:HD12	1:L:379:LEU:C	2.19	0.68
1:B:68:MET:N	1:B:69:PRO:CD	2.53	0.68
1:B:186:ASP:C	1:B:188:ALA:N	2.52	0.68
1:B:243:HIS:HB3	1:C:184:PRO:HG3	1.75	0.68
1:B:379:LEU:HD12	1:B:379:LEU:C	2.19	0.68
1:B:384:ASN:O	1:B:385:LYS:HG3	1.93	0.68
1:D:14:VAL:HA	1:D:81:ALA:CB	2.24	0.68
1:D:92:LEU:HG	1:D:93:GLU:N	2.09	0.68
1:E:75:VAL:CG2	1:E:84:THR:CG2	2.71	0.68
1:E:291:SER:O	1:E:292:GLU:C	2.37	0.68
1:E:379:LEU:HD12	1:E:379:LEU:C	2.19	0.68
1:G:20:ARG:HH12	1:G:86:ILE:CG2	2.07	0.68
1:G:272:MET:HE2	1:G:297:TYR:CE2	2.28	0.68
1:H:75:VAL:CG2	1:H:84:THR:CG2	2.71	0.68
1:H:398:ASP:O	1:H:399:LEU:O	2.12	0.68
1:I:16:PHE:HD1	1:I:79:PHE:HE1	1.42	0.68
1:I:75:VAL:HG11	1:I:78:PRO:CD	2.24	0.68
1:J:19:LEU:HD22	1:J:240:TYR:HH	1.59	0.68
1:J:68:MET:C	1:J:70:ASP:OD2	2.37	0.68
1:J:376:MET:HE3	1:J:433:VAL:HG13	1.74	0.68
1:K:19:LEU:HD11	1:K:20:ARG:HB2	1.75	0.68
1:K:351:PRO:HG2	1:K:352:LYS:N	2.07	0.68
1:L:54:ILE:CG1	1:L:102:ARG:NE	2.47	0.68
1:L:399:LEU:O	1:L:401:PRO:C	2.37	0.68
1:A:3:GLU:C	1:A:6:LEU:HB2	2.18	0.68
1:A:19:LEU:O	1:A:20:ARG:HB3	1.93	0.68
1:A:79:PHE:HB2	1:A:80:PHE:CD1	2.29	0.68
1:A:184:PRO:HG3	1:F:243:HIS:HB3	1.75	0.68
1:B:348:VAL:CG1	1:B:354:ARG:HD3	2.20	0.68
1:C:28:GLU:HG3	1:D:182:VAL:HG13	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:399:LEU:O	1:C:401:PRO:C	2.37	0.68
1:D:19:LEU:HD11	1:D:20:ARG:HB2	1.75	0.68
1:D:68:MET:C	1:D:70:ASP:OD2	2.37	0.68
1:D:376:MET:HE3	1:D:433:VAL:HG13	1.74	0.68
1:F:33:ILE:HD13	1:F:34:PRO:HD2	1.75	0.68
1:F:92:LEU:HG	1:F:93:GLU:N	2.09	0.68
1:G:3:GLU:C	1:G:6:LEU:HB2	2.18	0.68
1:G:184:PRO:HG3	1:H:243:HIS:HB3	1.75	0.68
1:G:403:GLU:C	1:G:406:GLU:H	2.03	0.68
1:I:24:THR:HB	1:I:26:GLY:H	1.58	0.68
1:I:39:ASN:O	1:I:40:ALA:HB3	1.94	0.68
1:I:182:VAL:HG13	1:J:28:GLU:HG3	1.75	0.68
1:I:379:LEU:HD12	1:I:379:LEU:C	2.19	0.68
1:J:14:VAL:HA	1:J:81:ALA:CB	2.24	0.68
1:J:33:ILE:HD13	1:J:34:PRO:HD2	1.75	0.68
1:K:14:VAL:HA	1:K:81:ALA:CB	2.24	0.68
1:K:157:ALA:O	1:K:159:ASN:N	2.27	0.68
1:K:399:LEU:O	1:K:401:PRO:C	2.37	0.68
1:L:40:ALA:HA	1:L:43:PHE:HB2	1.74	0.68
1:L:186:ASP:C	1:L:188:ALA:N	2.52	0.68
1:L:384:ASN:O	1:L:385:LYS:HG3	1.93	0.68
1:A:14:VAL:HA	1:A:81:ALA:CB	2.24	0.67
1:A:403:GLU:C	1:A:406:GLU:H	2.03	0.67
1:B:19:LEU:HD11	1:B:20:ARG:HB2	1.75	0.67
1:B:399:LEU:O	1:B:401:PRO:C	2.37	0.67
1:C:157:ALA:O	1:C:159:ASN:N	2.27	0.67
1:D:19:LEU:HD22	1:D:240:TYR:HH	1.59	0.67
1:D:180:PHE:N	1:D:181:PRO:CD	2.54	0.67
1:E:40:ALA:HA	1:E:43:PHE:HB2	1.74	0.67
1:E:75:VAL:HG11	1:E:78:PRO:CD	2.24	0.67
1:F:19:LEU:O	1:F:20:ARG:HB3	1.93	0.67
1:F:68:MET:C	1:F:70:ASP:OD2	2.37	0.67
1:F:398:ASP:O	1:F:399:LEU:O	2.12	0.67
1:F:403:GLU:C	1:F:406:GLU:H	2.03	0.67
1:G:35:ALA:O	1:G:36:HIS:O	2.12	0.67
1:G:399:LEU:O	1:G:401:PRO:C	2.37	0.67
1:H:19:LEU:O	1:H:20:ARG:HB3	1.93	0.67
1:H:39:ASN:O	1:H:40:ALA:HB3	1.94	0.67
1:H:67:LEU:HA	1:H:69:PRO:HG3	1.75	0.67
1:I:3:GLU:C	1:I:6:LEU:HB2	2.18	0.67
1:I:75:VAL:CG2	1:I:84:THR:CG2	2.71	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:291:SER:O	1:I:292:GLU:C	2.37	0.67
1:J:338:ASN:ND2	1:J:395:ASN:N	2.38	0.67
1:K:39:ASN:O	1:K:40:ALA:HB3	1.94	0.67
1:K:184:PRO:HG3	1:L:243:HIS:HB3	1.75	0.67
1:K:337:ARG:HG3	1:K:338:ASN:N	2.09	0.67
1:K:390:GLU:HB3	1:K:391:PRO:HD2	1.76	0.67
1:L:19:LEU:HD11	1:L:20:ARG:HB2	1.75	0.67
1:L:68:MET:N	1:L:69:PRO:CD	2.53	0.67
1:A:35:ALA:O	1:A:36:HIS:O	2.13	0.67
1:A:399:LEU:O	1:A:401:PRO:C	2.37	0.67
1:B:19:LEU:CD2	1:B:75:VAL:HG22	2.19	0.67
1:B:157:ALA:O	1:B:159:ASN:N	2.27	0.67
1:C:16:PHE:HD1	1:C:79:PHE:HE1	1.42	0.67
1:C:19:LEU:HD11	1:C:20:ARG:HB2	1.75	0.67
1:C:35:ALA:O	1:C:36:HIS:O	2.12	0.67
1:C:228:MET:HE1	1:C:372:ALA:N	2.07	0.67
1:C:340:SER:CB	1:C:395:ASN:OD1	2.42	0.67
1:C:398:ASP:O	1:C:399:LEU:O	2.12	0.67
1:D:399:LEU:O	1:D:401:PRO:C	2.37	0.67
1:E:24:THR:HB	1:E:26:GLY:H	1.58	0.67
1:F:39:ASN:O	1:F:40:ALA:HB3	1.93	0.67
1:F:68:MET:HE2	1:F:88:ARG:CZ	2.25	0.67
1:F:75:VAL:CG2	1:F:84:THR:CG2	2.71	0.67
1:G:14:VAL:HA	1:G:81:ALA:CB	2.24	0.67
1:G:24:THR:HB	1:G:26:GLY:H	1.58	0.67
1:H:20:ARG:CG	1:H:28:GLU:CD	2.60	0.67
1:H:66:VAL:HA	1:H:87:ILE:HD13	1.77	0.67
1:H:68:MET:C	1:H:70:ASP:OD2	2.37	0.67
1:H:68:MET:HE2	1:H:88:ARG:CZ	2.25	0.67
1:H:272:MET:HE2	1:H:297:TYR:CE2	2.28	0.67
1:H:403:GLU:C	1:H:406:GLU:H	2.03	0.67
1:I:20:ARG:CG	1:I:28:GLU:CD	2.60	0.67
1:I:346:PRO:C	1:I:347:VAL:O	2.36	0.67
1:I:348:VAL:CG1	1:I:354:ARG:HD3	2.20	0.67
1:J:182:VAL:HG13	1:K:28:GLU:HG3	1.74	0.67
1:K:228:MET:HE1	1:K:372:ALA:N	2.08	0.67
1:K:340:SER:CB	1:K:395:ASN:OD1	2.41	0.67
1:A:291:SER:O	1:A:292:GLU:C	2.37	0.67
1:B:40:ALA:HA	1:B:43:PHE:HB2	1.74	0.67
1:B:54:ILE:CG1	1:B:102:ARG:NE	2.47	0.67
1:B:403:GLU:C	1:B:406:GLU:H	2.02	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:67:LEU:HA	1:C:69:PRO:HG3	1.75	0.67
1:C:346:PRO:C	1:C:347:VAL:O	2.36	0.67
1:C:348:VAL:CG1	1:C:354:ARG:HD3	2.20	0.67
1:C:351:PRO:HG2	1:C:352:LYS:N	2.07	0.67
1:C:464:LEU:HD23	1:C:465:TYR:N	2.09	0.67
1:D:67:LEU:O	1:D:86:ILE:HD13	1.93	0.67
1:E:346:PRO:C	1:E:347:VAL:O	2.35	0.67
1:E:399:LEU:O	1:E:401:PRO:C	2.37	0.67
1:E:464:LEU:HD23	1:E:465:TYR:N	2.10	0.67
1:F:35:ALA:O	1:F:36:HIS:O	2.13	0.67
1:F:66:VAL:HA	1:F:87:ILE:HD13	1.77	0.67
1:F:67:LEU:O	1:F:86:ILE:HD13	1.93	0.67
1:F:407:ILE:CD1	1:F:408:PRO:HD2	2.16	0.67
1:G:79:PHE:HD1	1:G:80:PHE:CB	2.05	0.67
1:G:92:LEU:HG	1:G:93:GLU:N	2.08	0.67
1:G:291:SER:O	1:G:292:GLU:C	2.37	0.67
1:I:79:PHE:HD1	1:I:80:PHE:CB	2.05	0.67
1:I:390:GLU:HB3	1:I:391:PRO:HD2	1.76	0.67
1:I:464:LEU:HD23	1:I:465:TYR:N	2.09	0.67
1:J:35:ALA:O	1:J:36:HIS:O	2.12	0.67
1:K:24:THR:HB	1:K:26:GLY:H	1.58	0.67
1:K:35:ALA:O	1:K:36:HIS:O	2.12	0.67
1:K:346:PRO:C	1:K:347:VAL:O	2.36	0.67
1:K:348:VAL:CG1	1:K:354:ARG:HD3	2.20	0.67
1:K:398:ASP:O	1:K:399:LEU:O	2.12	0.67
1:L:19:LEU:CD2	1:L:75:VAL:HG22	2.19	0.67
1:L:157:ALA:O	1:L:159:ASN:N	2.27	0.67
1:A:68:MET:C	1:A:70:ASP:OD2	2.37	0.67
1:A:79:PHE:HD1	1:A:80:PHE:CB	2.05	0.67
1:A:92:LEU:HG	1:A:93:GLU:N	2.09	0.67
1:A:462:PHE:CE1	1:G:149:VAL:HG21	2.30	0.67
1:D:35:ALA:O	1:D:36:HIS:O	2.12	0.67
1:D:67:LEU:HA	1:D:69:PRO:HG3	1.75	0.67
1:E:68:MET:C	1:E:70:ASP:OD2	2.37	0.67
1:E:376:MET:HE3	1:E:433:VAL:HG13	1.74	0.67
1:E:465:TYR:HD2	1:K:315:THR:CG2	1.61	0.67
1:F:67:LEU:HA	1:F:69:PRO:HG3	1.75	0.67
1:F:223:THR:HG22	1:F:231:LYS:HZ3	1.57	0.67
1:F:340:SER:CB	1:F:395:ASN:OD1	2.42	0.67
1:H:35:ALA:O	1:H:36:HIS:O	2.13	0.67
1:H:75:VAL:HG11	1:H:78:PRO:CD	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:92:LEU:HG	1:H:93:GLU:N	2.09	0.67
1:H:119:GLY:C	1:H:121:ALA:N	2.51	0.67
1:H:159:ASN:HB3	1:H:172:ARG:HH21	1.60	0.67
1:I:19:LEU:O	1:I:20:ARG:HB3	1.93	0.67
1:I:399:LEU:O	1:I:401:PRO:C	2.37	0.67
1:J:67:LEU:HA	1:J:69:PRO:HG3	1.75	0.67
1:J:180:PHE:N	1:J:181:PRO:CD	2.54	0.67
1:J:399:LEU:O	1:J:401:PRO:C	2.37	0.67
1:K:16:PHE:HD1	1:K:79:PHE:HE1	1.42	0.67
1:K:186:ASP:C	1:K:188:ALA:N	2.51	0.67
1:A:24:THR:HB	1:A:26:GLY:H	1.58	0.67
1:A:149:VAL:HG21	1:G:462:PHE:CE1	2.30	0.67
1:B:20:ARG:HH12	1:B:86:ILE:CG2	2.07	0.67
1:B:149:VAL:HG21	1:H:462:PHE:CE1	2.30	0.67
1:C:186:ASP:C	1:C:188:ALA:N	2.52	0.67
1:D:33:ILE:HD13	1:D:34:PRO:HD2	1.75	0.67
1:D:462:PHE:CE1	1:J:149:VAL:HG21	2.30	0.67
1:E:19:LEU:HD11	1:E:20:ARG:HB2	1.75	0.67
1:E:39:ASN:O	1:E:40:ALA:HB3	1.93	0.67
1:E:79:PHE:HD1	1:E:80:PHE:CB	2.06	0.67
1:F:24:THR:HG22	1:F:25:LYS:H	1.56	0.67
1:F:272:MET:HE2	1:F:297:TYR:CE2	2.28	0.67
1:F:399:LEU:O	1:F:401:PRO:C	2.37	0.67
1:F:462:PHE:CE1	1:L:149:VAL:HG21	2.30	0.67
1:G:19:LEU:O	1:G:20:ARG:HB3	1.93	0.67
1:G:68:MET:C	1:G:70:ASP:OD2	2.37	0.67
1:G:243:HIS:HB3	1:L:184:PRO:HG3	1.75	0.67
1:H:157:ALA:O	1:H:159:ASN:N	2.27	0.67
1:J:67:LEU:O	1:J:86:ILE:HD13	1.93	0.67
1:J:68:MET:HE2	1:J:88:ARG:CZ	2.24	0.67
1:K:67:LEU:HA	1:K:69:PRO:HG3	1.75	0.67
1:K:464:LEU:HD23	1:K:465:TYR:N	2.10	0.67
1:A:398:ASP:O	1:A:399:LEU:O	2.12	0.67
1:B:398:ASP:O	1:B:399:LEU:O	2.12	0.67
1:C:24:THR:HB	1:C:26:GLY:H	1.59	0.67
1:C:291:SER:O	1:C:292:GLU:C	2.37	0.67
1:D:66:VAL:HA	1:D:87:ILE:HD13	1.77	0.67
1:D:68:MET:HE2	1:D:88:ARG:CZ	2.25	0.67
1:D:228:MET:CE	1:D:371:PHE:C	2.65	0.67
1:D:233:ASP:HB2	1:D:368:TYR:OH	1.95	0.67
1:D:337:ARG:HG3	1:D:338:ASN:N	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:19:LEU:O	1:E:20:ARG:HB3	1.93	0.67
1:E:20:ARG:NH1	1:E:86:ILE:CG2	2.51	0.67
1:E:28:GLU:HG3	1:F:182:VAL:HG13	1.75	0.67
1:E:66:VAL:HA	1:E:87:ILE:HD13	1.77	0.67
1:E:67:LEU:O	1:E:86:ILE:HD13	1.93	0.67
1:E:348:VAL:CG1	1:E:354:ARG:HD3	2.20	0.67
1:F:79:PHE:HD1	1:F:80:PHE:CB	2.05	0.67
1:F:119:GLY:C	1:F:121:ALA:N	2.51	0.67
1:F:159:ASN:HB3	1:F:172:ARG:HH21	1.60	0.67
1:F:214:ALA:O	1:F:215:THR:C	2.34	0.67
1:G:398:ASP:O	1:G:399:LEU:O	2.12	0.67
1:H:67:LEU:O	1:H:86:ILE:HD13	1.93	0.67
1:H:79:PHE:HD1	1:H:80:PHE:CB	2.05	0.67
1:H:340:SER:CB	1:H:395:ASN:OD1	2.42	0.67
1:I:66:VAL:HA	1:I:87:ILE:HD13	1.77	0.67
1:I:68:MET:C	1:I:70:ASP:OD2	2.37	0.67
1:K:159:ASN:HB3	1:K:172:ARG:HH21	1.60	0.67
1:L:79:PHE:HB2	1:L:80:PHE:CD1	2.29	0.67
1:L:233:ASP:HB2	1:L:368:TYR:OH	1.95	0.67
1:A:75:VAL:HG11	1:A:78:PRO:CD	2.24	0.67
1:A:233:ASP:HB2	1:A:368:TYR:OH	1.95	0.67
1:A:243:HIS:HB3	1:B:184:PRO:HG3	1.75	0.67
1:B:291:SER:O	1:B:292:GLU:C	2.37	0.67
1:B:346:PRO:C	1:B:347:VAL:O	2.36	0.67
1:C:149:VAL:HG21	1:I:462:PHE:CE1	2.30	0.67
1:C:159:ASN:HB3	1:C:172:ARG:HH21	1.60	0.67
1:E:462:PHE:CE1	1:K:149:VAL:HG21	2.30	0.67
1:F:79:PHE:HB2	1:F:80:PHE:CD1	2.29	0.67
1:G:75:VAL:HG11	1:G:78:PRO:CD	2.24	0.67
1:H:182:VAL:HG13	1:I:28:GLU:HG3	1.75	0.67
1:I:19:LEU:HD11	1:I:20:ARG:HB2	1.75	0.67
1:I:67:LEU:O	1:I:86:ILE:HD13	1.93	0.67
1:I:337:ARG:HG3	1:I:338:ASN:N	2.09	0.67
1:J:66:VAL:HA	1:J:87:ILE:HD13	1.77	0.67
1:J:75:VAL:HG11	1:J:78:PRO:CD	2.24	0.67
1:J:233:ASP:HB2	1:J:368:TYR:OH	1.95	0.67
1:J:337:ARG:HG3	1:J:338:ASN:N	2.09	0.67
1:L:66:VAL:HA	1:L:87:ILE:HD13	1.77	0.67
1:L:291:SER:O	1:L:292:GLU:C	2.37	0.67
1:L:337:ARG:HG3	1:L:338:ASN:N	2.09	0.67
1:L:346:PRO:C	1:L:347:VAL:O	2.36	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:403:GLU:C	1:L:406:GLU:H	2.03	0.67
1:B:20:ARG:HH22	1:B:86:ILE:CG2	2.06	0.67
1:B:79:PHE:HB2	1:B:80:PHE:CD1	2.29	0.67
1:D:75:VAL:HG11	1:D:78:PRO:CD	2.24	0.67
1:D:149:VAL:HG21	1:J:462:PHE:CE1	2.30	0.67
1:D:436:ASP:O	1:D:439:ILE:HB	1.94	0.67
1:E:337:ARG:HG3	1:E:338:ASN:N	2.08	0.67
1:F:75:VAL:HG11	1:F:78:PRO:CD	2.24	0.67
1:F:149:VAL:HG21	1:L:462:PHE:CE1	2.30	0.67
1:F:157:ALA:O	1:F:159:ASN:N	2.27	0.67
1:H:24:THR:HG22	1:H:25:LYS:H	1.56	0.67
1:H:233:ASP:HB2	1:H:368:TYR:OH	1.95	0.67
1:H:399:LEU:O	1:H:401:PRO:C	2.37	0.67
1:J:436:ASP:O	1:J:439:ILE:HB	1.94	0.67
1:K:71:ALA:HB1	1:K:86:ILE:HG13	1.77	0.67
1:K:403:GLU:C	1:K:406:GLU:H	2.03	0.67
1:L:40:ALA:O	1:L:41:GLU:CB	2.43	0.67
1:L:398:ASP:O	1:L:399:LEU:O	2.12	0.67
1:A:16:PHE:HD1	1:A:79:PHE:HE1	1.42	0.67
1:A:63:SER:HG	1:A:91:ILE:HG22	1.59	0.67
1:A:390:GLU:HB3	1:A:391:PRO:HD2	1.76	0.67
1:B:40:ALA:O	1:B:41:GLU:CB	2.43	0.67
1:B:66:VAL:HA	1:B:87:ILE:HD13	1.77	0.67
1:B:75:VAL:HG11	1:B:78:PRO:CD	2.24	0.67
1:B:159:ASN:HB3	1:B:172:ARG:HH21	1.60	0.67
1:B:233:ASP:HB2	1:B:368:TYR:OH	1.95	0.67
1:B:390:GLU:HB3	1:B:391:PRO:HD2	1.76	0.67
1:B:462:PHE:CE1	1:H:149:VAL:HG21	2.30	0.67
1:C:403:GLU:C	1:C:406:GLU:H	2.03	0.67
1:D:159:ASN:HB3	1:D:172:ARG:HH21	1.60	0.67
1:D:464:LEU:HD23	1:D:465:TYR:N	2.09	0.67
1:F:27:LYS:HZ2	1:F:239:LYS:NZ	1.89	0.67
1:G:16:PHE:HD1	1:G:79:PHE:HE1	1.42	0.67
1:G:40:ALA:O	1:G:41:GLU:CB	2.43	0.67
1:G:233:ASP:HB2	1:G:368:TYR:OH	1.95	0.67
1:H:15:LYS:O	1:H:16:PHE:CB	2.37	0.67
1:I:20:ARG:NH1	1:I:86:ILE:CG2	2.51	0.67
1:I:131:GLU:HB2	1:I:266:SER:HB3	1.77	0.67
1:I:376:MET:HE3	1:I:433:VAL:HG13	1.74	0.67
1:J:119:GLY:C	1:J:121:ALA:N	2.51	0.67
1:J:403:GLU:C	1:J:406:GLU:H	2.03	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:464:LEU:HD23	1:J:465:TYR:N	2.09	0.67
1:K:131:GLU:HB2	1:K:266:SER:HB3	1.77	0.67
1:K:291:SER:O	1:K:292:GLU:C	2.37	0.67
1:L:20:ARG:HH12	1:L:86:ILE:CG2	2.07	0.67
1:L:20:ARG:HH22	1:L:86:ILE:CG2	2.05	0.67
1:A:67:LEU:HA	1:A:69:PRO:HG3	1.75	0.67
1:A:247:HIS:HA	1:A:251:LYS:O	1.95	0.67
1:B:247:HIS:HA	1:B:251:LYS:O	1.95	0.67
1:C:79:PHE:HB2	1:C:80:PHE:CD1	2.29	0.67
1:D:105:ARG:O	1:D:108:ALA:HB3	1.95	0.67
1:D:119:GLY:C	1:D:121:ALA:N	2.51	0.67
1:E:131:GLU:HB2	1:E:266:SER:HB3	1.78	0.67
1:E:390:GLU:HB3	1:E:391:PRO:HD2	1.76	0.67
1:F:464:LEU:HD23	1:F:465:TYR:N	2.09	0.67
1:G:247:HIS:HA	1:G:251:LYS:O	1.95	0.67
1:H:19:LEU:O	1:H:19:LEU:CD1	2.43	0.67
1:H:379:LEU:HD12	1:H:379:LEU:C	2.19	0.67
1:K:19:LEU:HD22	1:K:240:TYR:HH	1.59	0.67
1:L:20:ARG:CG	1:L:28:GLU:CD	2.60	0.67
1:L:67:LEU:HA	1:L:69:PRO:HG3	1.75	0.67
1:B:20:ARG:CG	1:B:28:GLU:CD	2.60	0.66
1:C:131:GLU:HB2	1:C:266:SER:HB3	1.78	0.66
1:F:233:ASP:HB2	1:F:368:TYR:OH	1.95	0.66
1:F:379:LEU:HD12	1:F:379:LEU:C	2.19	0.66
1:G:390:GLU:HB3	1:G:391:PRO:HD2	1.76	0.66
1:H:79:PHE:HB2	1:H:80:PHE:CD1	2.30	0.66
1:I:79:PHE:HB2	1:I:80:PHE:CD1	2.29	0.66
1:J:157:ALA:O	1:J:159:ASN:N	2.27	0.66
1:J:159:ASN:HB3	1:J:172:ARG:HH21	1.60	0.66
1:K:79:PHE:HB2	1:K:80:PHE:CD1	2.29	0.66
1:L:75:VAL:HG11	1:L:78:PRO:CD	2.24	0.66
1:L:247:HIS:HA	1:L:251:LYS:O	1.95	0.66
1:B:35:ALA:O	1:B:36:HIS:O	2.12	0.66
1:C:71:ALA:HB1	1:C:86:ILE:HG13	1.77	0.66
1:D:27:LYS:NZ	1:D:239:LYS:HZ2	1.89	0.66
1:D:157:ALA:O	1:D:159:ASN:N	2.27	0.66
1:D:338:ASN:C	1:D:339:ARG:NH1	2.54	0.66
1:D:403:GLU:C	1:D:406:GLU:H	2.03	0.66
1:F:19:LEU:O	1:F:19:LEU:CD1	2.44	0.66
1:F:20:ARG:NH1	1:F:86:ILE:CG2	2.51	0.66
1:F:338:ASN:ND2	1:F:395:ASN:N	2.37	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:16:PHE:HD1	1:H:79:PHE:HE1	1.42	0.66
1:I:71:ALA:HB1	1:I:86:ILE:HG13	1.77	0.66
1:I:86:ILE:N	1:I:86:ILE:CD1	2.44	0.66
1:J:19:LEU:O	1:J:19:LEU:CD1	2.44	0.66
1:J:105:ARG:O	1:J:108:ALA:HB3	1.95	0.66
1:K:68:MET:HE2	1:K:88:ARG:CZ	2.24	0.66
1:K:379:LEU:HD12	1:K:379:LEU:C	2.19	0.66
1:L:35:ALA:O	1:L:36:HIS:O	2.12	0.66
1:L:159:ASN:HB3	1:L:172:ARG:HH21	1.60	0.66
1:L:390:GLU:HB3	1:L:391:PRO:HD2	1.76	0.66
1:A:106:SER:O	1:A:107:ILE:C	2.38	0.66
1:B:464:LEU:HD23	1:B:465:TYR:N	2.10	0.66
1:C:379:LEU:HD12	1:C:379:LEU:C	2.20	0.66
1:C:436:ASP:O	1:C:439:ILE:HB	1.93	0.66
1:E:79:PHE:HB2	1:E:80:PHE:CD1	2.30	0.66
1:E:149:VAL:HG21	1:K:462:PHE:CE1	2.30	0.66
1:E:403:GLU:C	1:E:406:GLU:H	2.03	0.66
1:G:67:LEU:HA	1:G:69:PRO:HG3	1.75	0.66
1:G:106:SER:O	1:G:107:ILE:C	2.38	0.66
1:G:159:ASN:HB3	1:G:172:ARG:HH21	1.60	0.66
1:G:379:LEU:HD12	1:G:379:LEU:C	2.19	0.66
1:H:390:GLU:HB3	1:H:391:PRO:HD2	1.76	0.66
1:H:464:LEU:HD23	1:H:465:TYR:N	2.10	0.66
1:I:403:GLU:C	1:I:406:GLU:H	2.03	0.66
1:K:105:ARG:O	1:K:108:ALA:HB3	1.95	0.66
1:L:68:MET:HE2	1:L:88:ARG:CZ	2.25	0.66
1:L:464:LEU:HD23	1:L:465:TYR:N	2.09	0.66
1:A:338:ASN:C	1:A:339:ARG:NH1	2.54	0.66
1:A:379:LEU:HD12	1:A:379:LEU:C	2.20	0.66
1:B:68:MET:HE2	1:B:88:ARG:CZ	2.25	0.66
1:C:68:MET:HE2	1:C:88:ARG:CZ	2.25	0.66
1:C:92:LEU:H	1:C:97:LEU:N	1.94	0.66
1:C:172:ARG:HB2	1:C:173:PRO:CD	2.25	0.66
1:C:462:PHE:CE1	1:I:149:VAL:HG21	2.30	0.66
1:D:19:LEU:O	1:D:19:LEU:CD1	2.44	0.66
1:E:338:ASN:C	1:E:339:ARG:NH1	2.54	0.66
1:H:168:ASN:C	1:H:169:LYS:HG2	2.20	0.66
1:H:338:ASN:ND2	1:H:395:ASN:N	2.38	0.66
1:I:338:ASN:C	1:I:339:ARG:NH1	2.54	0.66
1:J:71:ALA:HB1	1:J:86:ILE:HG13	1.77	0.66
1:J:179:TYR:C	1:J:181:PRO:CD	2.66	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:338:ASN:C	1:J:339:ARG:NH1	2.54	0.66
1:K:92:LEU:HG	1:K:93:GLU:N	2.08	0.66
1:K:436:ASP:O	1:K:439:ILE:HB	1.94	0.66
1:A:159:ASN:HB3	1:A:172:ARG:HH21	1.60	0.66
1:B:71:ALA:HB1	1:B:86:ILE:HG13	1.77	0.66
1:C:105:ARG:O	1:C:108:ALA:HB3	1.95	0.66
1:C:233:ASP:HB2	1:C:368:TYR:OH	1.95	0.66
1:D:179:TYR:C	1:D:181:PRO:CD	2.66	0.66
1:D:315:THR:HG23	1:J:465:TYR:HE2	1.48	0.66
1:E:19:LEU:O	1:E:19:LEU:CD1	2.44	0.66
1:E:71:ALA:HB1	1:E:86:ILE:HG13	1.77	0.66
1:F:16:PHE:HD1	1:F:79:PHE:HE1	1.42	0.66
1:F:27:LYS:NZ	1:F:239:LYS:HZ2	1.87	0.66
1:F:168:ASN:C	1:F:169:LYS:HG2	2.21	0.66
1:G:338:ASN:C	1:G:339:ARG:NH1	2.54	0.66
1:H:20:ARG:NH1	1:H:86:ILE:CG2	2.51	0.66
1:I:19:LEU:O	1:I:19:LEU:CD1	2.44	0.66
1:I:27:LYS:NZ	1:I:239:LYS:HZ2	1.90	0.66
1:J:20:ARG:HH12	1:J:86:ILE:CG2	2.07	0.66
1:A:19:LEU:O	1:A:19:LEU:CD1	2.44	0.66
1:B:167:GLY:O	1:B:169:LYS:HD3	1.96	0.66
1:C:92:LEU:HG	1:C:93:GLU:N	2.09	0.66
1:D:71:ALA:HB1	1:D:86:ILE:HG13	1.77	0.66
1:E:20:ARG:HH12	1:E:86:ILE:CG2	2.07	0.66
1:E:86:ILE:N	1:E:86:ILE:CD1	2.44	0.66
1:F:390:GLU:HB3	1:F:391:PRO:HD2	1.76	0.66
1:G:19:LEU:O	1:G:19:LEU:CD1	2.44	0.66
1:G:172:ARG:HB2	1:G:173:PRO:CD	2.25	0.66
1:H:172:ARG:HB2	1:H:173:PRO:CD	2.25	0.66
1:I:159:ASN:HB3	1:I:172:ARG:HH21	1.60	0.66
1:K:233:ASP:HB2	1:K:368:TYR:OH	1.96	0.66
1:A:167:GLY:O	1:A:169:LYS:HD3	1.96	0.66
1:A:172:ARG:HB2	1:A:173:PRO:CD	2.25	0.66
1:B:67:LEU:HA	1:B:69:PRO:HG3	1.76	0.66
1:B:131:GLU:HB2	1:B:266:SER:HB3	1.77	0.66
1:C:34:PRO:HG3	1:D:206:VAL:HG12	1.78	0.66
1:D:186:ASP:C	1:D:188:ALA:N	2.52	0.66
1:E:186:ASP:C	1:E:188:ALA:N	2.52	0.66
1:F:19:LEU:HD22	1:F:240:TYR:CE2	2.25	0.66
1:G:34:PRO:HG3	1:L:206:VAL:HG12	1.78	0.66
1:G:168:ASN:C	1:G:169:LYS:HG2	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:35:ALA:O	1:I:36:HIS:O	2.13	0.66
1:I:105:ARG:O	1:I:108:ALA:HB3	1.95	0.66
1:J:186:ASP:C	1:J:188:ALA:N	2.52	0.66
1:J:206:VAL:HG12	1:K:34:PRO:HG3	1.78	0.66
1:K:92:LEU:H	1:K:97:LEU:N	1.94	0.66
1:L:71:ALA:HB1	1:L:86:ILE:HG13	1.77	0.66
1:L:92:LEU:H	1:L:97:LEU:N	1.94	0.66
1:L:167:GLY:O	1:L:169:LYS:HD3	1.96	0.66
1:A:168:ASN:C	1:A:169:LYS:HG2	2.20	0.66
1:C:115:LEU:O	1:C:118:THR:HG23	1.96	0.66
1:D:20:ARG:HH12	1:D:86:ILE:CG2	2.07	0.66
1:D:115:LEU:O	1:D:118:THR:HG23	1.96	0.66
1:E:35:ALA:O	1:E:36:HIS:O	2.12	0.66
1:E:68:MET:HE2	1:E:88:ARG:CZ	2.25	0.66
1:E:159:ASN:HB3	1:E:172:ARG:HH21	1.60	0.66
1:E:172:ARG:HB2	1:E:173:PRO:CD	2.25	0.66
1:E:338:ASN:ND2	1:E:395:ASN:N	2.38	0.66
1:F:106:SER:O	1:F:107:ILE:C	2.39	0.66
1:H:106:SER:O	1:H:107:ILE:C	2.38	0.66
1:I:20:ARG:HH12	1:I:86:ILE:CG2	2.07	0.66
1:I:186:ASP:C	1:I:188:ALA:N	2.52	0.66
1:I:338:ASN:ND2	1:I:395:ASN:N	2.37	0.66
1:I:436:ASP:O	1:I:439:ILE:HB	1.94	0.66
1:J:79:PHE:HB2	1:J:80:PHE:CD1	2.29	0.66
1:K:66:VAL:HA	1:K:87:ILE:HD13	1.77	0.66
1:A:34:PRO:HG3	1:B:206:VAL:HG12	1.78	0.66
1:A:68:MET:HE2	1:A:88:ARG:CZ	2.25	0.66
1:B:92:LEU:H	1:B:97:LEU:N	1.94	0.66
1:B:105:ARG:O	1:B:108:ALA:HB3	1.95	0.66
1:B:465:TYR:O	1:B:468:VAL:HG12	1.96	0.66
1:C:66:VAL:HA	1:C:87:ILE:HD13	1.77	0.66
1:C:186:ASP:O	1:C:187:SER:C	2.39	0.66
1:D:247:HIS:HA	1:D:251:LYS:O	1.95	0.66
1:D:465:TYR:HE2	1:J:315:THR:HG23	1.48	0.66
1:E:22:THR:HB	1:E:29:GLN:HB2	1.78	0.66
1:E:436:ASP:O	1:E:439:ILE:HB	1.94	0.66
1:F:22:THR:HB	1:F:29:GLN:HB2	1.77	0.66
1:F:172:ARG:HB2	1:F:173:PRO:CD	2.26	0.66
1:G:17:VAL:HG11	1:G:33:ILE:HG22	1.78	0.66
1:G:68:MET:HE2	1:G:88:ARG:CZ	2.25	0.66
1:G:167:GLY:O	1:G:169:LYS:HD3	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:223:THR:HG22	1:G:231:LYS:HZ3	1.59	0.66
1:H:346:PRO:C	1:H:347:VAL:O	2.36	0.66
1:I:22:THR:HB	1:I:29:GLN:HB2	1.77	0.66
1:J:247:HIS:HA	1:J:251:LYS:O	1.95	0.66
1:K:172:ARG:HB2	1:K:173:PRO:CD	2.26	0.66
1:K:186:ASP:O	1:K:187:SER:C	2.39	0.66
1:L:131:GLU:HB2	1:L:266:SER:HB3	1.77	0.66
1:B:345:ILE:CD1	1:B:345:ILE:N	2.31	0.66
1:C:247:HIS:HA	1:C:251:LYS:O	1.95	0.66
1:D:79:PHE:HB2	1:D:80:PHE:CD1	2.29	0.66
1:D:168:ASN:C	1:D:169:LYS:HG2	2.21	0.66
1:E:186:ASP:O	1:E:187:SER:C	2.39	0.66
1:E:247:HIS:HA	1:E:251:LYS:O	1.95	0.66
1:G:119:GLY:C	1:G:121:ALA:N	2.51	0.66
1:G:464:LEU:HD23	1:G:465:TYR:N	2.09	0.66
1:H:22:THR:HB	1:H:29:GLN:HB2	1.77	0.66
1:I:119:GLY:C	1:I:121:ALA:N	2.51	0.66
1:I:172:ARG:HB2	1:I:173:PRO:CD	2.26	0.66
1:J:27:LYS:HZ2	1:J:239:LYS:NZ	1.91	0.66
1:J:67:LEU:CD2	1:J:88:ARG:HB3	2.26	0.66
1:J:115:LEU:O	1:J:118:THR:HG23	1.96	0.66
1:J:168:ASN:C	1:J:169:LYS:HG2	2.21	0.66
1:K:338:ASN:C	1:K:339:ARG:NH1	2.54	0.66
1:L:22:THR:HB	1:L:29:GLN:HB2	1.78	0.66
1:L:92:LEU:HG	1:L:93:GLU:N	2.09	0.66
1:L:465:TYR:O	1:L:468:VAL:HG12	1.96	0.66
1:A:20:ARG:NH1	1:A:86:ILE:CG2	2.51	0.65
1:A:66:VAL:HA	1:A:87:ILE:HD13	1.77	0.65
1:A:115:LEU:O	1:A:118:THR:HG23	1.96	0.65
1:B:22:THR:HB	1:B:29:GLN:HB2	1.78	0.65
1:D:22:THR:HB	1:D:29:GLN:HB2	1.78	0.65
1:D:67:LEU:CD2	1:D:88:ARG:HB3	2.26	0.65
1:E:19:LEU:CD2	1:E:75:VAL:HG22	2.19	0.65
1:E:119:GLY:C	1:E:121:ALA:N	2.52	0.65
1:I:19:LEU:CD2	1:I:75:VAL:HG22	2.19	0.65
1:I:68:MET:HE2	1:I:88:ARG:CZ	2.25	0.65
1:I:233:ASP:HB2	1:I:368:TYR:OH	1.95	0.65
1:I:247:HIS:HA	1:I:251:LYS:O	1.95	0.65
1:J:22:THR:HB	1:J:29:GLN:HB2	1.77	0.65
1:K:75:VAL:HG11	1:K:78:PRO:CD	2.24	0.65
1:K:115:LEU:O	1:K:118:THR:HG23	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:17:VAL:HG11	1:A:33:ILE:HG22	1.79	0.65
1:A:119:GLY:C	1:A:121:ALA:N	2.51	0.65
1:B:36:HIS:C	1:B:38:VAL:H	1.99	0.65
1:B:92:LEU:HG	1:B:93:GLU:N	2.09	0.65
1:B:115:LEU:O	1:B:118:THR:HG23	1.96	0.65
1:B:172:ARG:HB2	1:B:173:PRO:CD	2.25	0.65
1:B:461:GLU:OE1	1:H:316:THR:CG2	2.36	0.65
1:C:281:LEU:HD23	1:C:293:GLN:NE2	2.12	0.65
1:D:131:GLU:HB2	1:D:266:SER:HB3	1.77	0.65
1:F:122:ASP:HB2	1:F:276:LYS:HD3	1.78	0.65
1:F:131:GLU:HB2	1:F:266:SER:HB3	1.77	0.65
1:F:247:HIS:HA	1:F:251:LYS:O	1.95	0.65
1:F:338:ASN:C	1:F:339:ARG:NH1	2.53	0.65
1:G:115:LEU:O	1:G:118:THR:HG23	1.96	0.65
1:G:465:TYR:O	1:G:468:VAL:HG12	1.96	0.65
1:H:131:GLU:HB2	1:H:266:SER:HB3	1.78	0.65
1:I:167:GLY:O	1:I:169:LYS:HD3	1.96	0.65
1:I:186:ASP:O	1:I:187:SER:C	2.40	0.65
1:J:92:LEU:H	1:J:97:LEU:N	1.94	0.65
1:J:172:ARG:HB2	1:J:173:PRO:CD	2.25	0.65
1:L:105:ARG:O	1:L:108:ALA:HB3	1.96	0.65
1:B:281:LEU:HD23	1:B:293:GLN:NE2	2.12	0.65
1:C:19:LEU:HD22	1:C:240:TYR:HH	1.60	0.65
1:C:20:ARG:HH12	1:C:86:ILE:CG2	2.07	0.65
1:C:75:VAL:HG11	1:C:78:PRO:CD	2.24	0.65
1:C:168:ASN:C	1:C:169:LYS:HG2	2.21	0.65
1:C:338:ASN:C	1:C:339:ARG:NH1	2.54	0.65
1:C:424:ASP:O	1:C:426:GLU:N	2.30	0.65
1:E:105:ARG:O	1:E:108:ALA:HB3	1.96	0.65
1:E:167:GLY:O	1:E:169:LYS:HD3	1.96	0.65
1:E:233:ASP:HB2	1:E:368:TYR:OH	1.95	0.65
1:F:17:VAL:HG11	1:F:33:ILE:HG22	1.79	0.65
1:F:316:THR:CG2	1:L:461:GLU:OE1	2.36	0.65
1:F:346:PRO:C	1:F:347:VAL:O	2.36	0.65
1:G:66:VAL:HA	1:G:87:ILE:HD13	1.76	0.65
1:G:340:SER:CB	1:G:395:ASN:OD1	2.41	0.65
1:G:424:ASP:O	1:G:426:GLU:N	2.30	0.65
1:H:17:VAL:HG11	1:H:33:ILE:HG22	1.78	0.65
1:H:122:ASP:HB2	1:H:276:LYS:HD3	1.78	0.65
1:I:206:VAL:HG12	1:J:34:PRO:HG3	1.78	0.65
1:J:40:ALA:O	1:J:41:GLU:CB	2.43	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:168:ASN:C	1:K:169:LYS:HG2	2.21	0.65
1:K:281:LEU:HD23	1:K:293:GLN:NE2	2.12	0.65
1:L:115:LEU:O	1:L:118:THR:HG23	1.96	0.65
1:L:281:LEU:HD23	1:L:293:GLN:NE2	2.12	0.65
1:A:92:LEU:H	1:A:97:LEU:N	1.94	0.65
1:A:105:ARG:O	1:A:108:ALA:HB3	1.95	0.65
1:A:340:SER:CB	1:A:395:ASN:OD1	2.41	0.65
1:A:424:ASP:O	1:A:426:GLU:N	2.30	0.65
1:A:464:LEU:HD23	1:A:465:TYR:N	2.09	0.65
1:A:465:TYR:O	1:A:468:VAL:HG12	1.96	0.65
1:B:340:SER:CB	1:B:395:ASN:OD1	2.41	0.65
1:B:403:GLU:O	1:B:406:GLU:HB3	1.96	0.65
1:B:424:ASP:O	1:B:426:GLU:N	2.30	0.65
1:D:40:ALA:O	1:D:41:GLU:CB	2.43	0.65
1:D:172:ARG:HB2	1:D:173:PRO:CD	2.26	0.65
1:F:424:ASP:O	1:F:426:GLU:N	2.30	0.65
1:G:71:ALA:HB1	1:G:86:ILE:HG13	1.77	0.65
1:G:92:LEU:H	1:G:97:LEU:N	1.94	0.65
1:G:186:ASP:C	1:G:188:ALA:N	2.52	0.65
1:I:403:GLU:O	1:I:406:GLU:HB3	1.96	0.65
1:J:112:GLU:O	1:J:115:LEU:HB3	1.97	0.65
1:J:131:GLU:HB2	1:J:266:SER:HB3	1.77	0.65
1:J:403:GLU:O	1:J:406:GLU:HB3	1.96	0.65
1:K:67:LEU:CD2	1:K:88:ARG:HB3	2.26	0.65
1:K:125:LEU:N	1:K:125:LEU:CD2	2.60	0.65
1:K:247:HIS:HA	1:K:251:LYS:O	1.95	0.65
1:K:424:ASP:O	1:K:426:GLU:N	2.30	0.65
1:L:17:VAL:HG11	1:L:33:ILE:HG22	1.79	0.65
1:L:403:GLU:O	1:L:406:GLU:HB3	1.96	0.65
1:A:71:ALA:HB1	1:A:86:ILE:HG13	1.77	0.65
1:A:179:TYR:C	1:A:181:PRO:CD	2.66	0.65
1:B:17:VAL:HG11	1:B:33:ILE:HG22	1.79	0.65
1:C:67:LEU:CD2	1:C:88:ARG:HB3	2.26	0.65
1:C:122:ASP:HB2	1:C:276:LYS:HD3	1.78	0.65
1:C:125:LEU:N	1:C:125:LEU:CD2	2.60	0.65
1:C:280:ASN:HD22	1:C:280:ASN:N	1.95	0.65
1:C:425:ARG:NH2	1:C:440:ASP:OD1	2.30	0.65
1:D:68:MET:N	1:D:69:PRO:CD	2.53	0.65
1:D:112:GLU:O	1:D:115:LEU:HB3	1.97	0.65
1:D:167:GLY:O	1:D:169:LYS:HD3	1.96	0.65
1:D:403:GLU:O	1:D:406:GLU:HB3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:425:ARG:NH2	1:D:440:ASP:OD1	2.30	0.65
1:E:67:LEU:CD2	1:E:88:ARG:HB3	2.26	0.65
1:E:403:GLU:O	1:E:406:GLU:HB3	1.96	0.65
1:F:71:ALA:HB1	1:F:86:ILE:HG13	1.77	0.65
1:F:99:GLY:N	1:F:103:ASP:HB2	2.12	0.65
1:F:167:GLY:O	1:F:169:LYS:HD3	1.96	0.65
1:G:20:ARG:NH1	1:G:86:ILE:CG2	2.51	0.65
1:G:99:GLY:N	1:G:103:ASP:HB2	2.12	0.65
1:G:105:ARG:O	1:G:108:ALA:HB3	1.95	0.65
1:H:86:ILE:C	1:H:87:ILE:HG12	2.21	0.65
1:H:99:GLY:N	1:H:103:ASP:HB2	2.12	0.65
1:H:247:HIS:HA	1:H:251:LYS:O	1.95	0.65
1:H:338:ASN:C	1:H:339:ARG:NH1	2.54	0.65
1:I:79:PHE:CG	1:I:80:PHE:CD1	2.84	0.65
1:I:115:LEU:O	1:I:118:THR:HG23	1.96	0.65
1:J:54:ILE:CG1	1:J:102:ARG:NE	2.47	0.65
1:J:167:GLY:O	1:J:169:LYS:HD3	1.96	0.65
1:K:20:ARG:HH12	1:K:86:ILE:CG2	2.07	0.65
1:K:425:ARG:NH2	1:K:440:ASP:OD1	2.30	0.65
1:L:179:TYR:C	1:L:181:PRO:CD	2.66	0.65
1:L:345:ILE:CD1	1:L:345:ILE:N	2.31	0.65
1:A:68:MET:N	1:A:69:PRO:CD	2.53	0.65
1:A:99:GLY:N	1:A:103:ASP:HB2	2.12	0.65
1:B:425:ARG:NH2	1:B:440:ASP:OD1	2.30	0.65
1:C:465:TYR:O	1:C:468:VAL:HG12	1.96	0.65
1:D:34:PRO:HG3	1:E:206:VAL:HG12	1.78	0.65
1:D:465:TYR:O	1:D:468:VAL:HG12	1.96	0.65
1:E:168:ASN:C	1:E:169:LYS:HG2	2.20	0.65
1:F:86:ILE:C	1:F:87:ILE:HG12	2.21	0.65
1:H:71:ALA:HB1	1:H:86:ILE:HG13	1.77	0.65
1:H:424:ASP:O	1:H:426:GLU:N	2.30	0.65
1:I:168:ASN:C	1:I:169:LYS:HG2	2.20	0.65
1:J:425:ARG:NH2	1:J:440:ASP:OD1	2.30	0.65
1:J:465:TYR:O	1:J:468:VAL:HG12	1.96	0.65
1:K:119:GLY:C	1:K:121:ALA:N	2.51	0.65
1:K:122:ASP:HB2	1:K:276:LYS:HD3	1.78	0.65
1:K:280:ASN:HD22	1:K:280:ASN:N	1.95	0.65
1:K:465:TYR:O	1:K:468:VAL:HG12	1.96	0.65
1:L:172:ARG:HB2	1:L:173:PRO:CD	2.26	0.65
1:L:340:SER:CB	1:L:395:ASN:OD1	2.41	0.65
1:L:424:ASP:O	1:L:426:GLU:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:19:LEU:CD2	1:C:75:VAL:HG22	2.19	0.65
1:C:280:ASN:C	1:C:282:PHE:N	2.51	0.65
1:D:16:PHE:HD1	1:D:79:PHE:HE1	1.42	0.65
1:D:92:LEU:H	1:D:97:LEU:N	1.94	0.65
1:D:186:ASP:O	1:D:187:SER:C	2.39	0.65
1:E:17:VAL:HG11	1:E:33:ILE:HG22	1.79	0.65
1:F:338:ASN:O	1:F:339:ARG:O	2.15	0.65
1:G:179:TYR:C	1:G:181:PRO:CD	2.66	0.65
1:G:407:ILE:CD1	1:G:408:PRO:HD2	2.16	0.65
1:H:338:ASN:O	1:H:339:ARG:O	2.15	0.65
1:J:280:ASN:C	1:J:282:PHE:N	2.51	0.65
1:K:280:ASN:C	1:K:282:PHE:N	2.51	0.65
1:L:106:SER:O	1:L:107:ILE:C	2.38	0.65
1:L:425:ARG:NH2	1:L:440:ASP:OD1	2.30	0.65
1:A:125:LEU:N	1:A:125:LEU:CD2	2.60	0.65
1:A:338:ASN:O	1:A:339:ARG:O	2.15	0.65
1:B:79:PHE:CG	1:B:80:PHE:CD1	2.84	0.65
1:B:106:SER:O	1:B:107:ILE:C	2.38	0.65
1:B:338:ASN:C	1:B:339:ARG:NH1	2.54	0.65
1:C:119:GLY:C	1:C:121:ALA:N	2.51	0.65
1:D:20:ARG:CG	1:D:28:GLU:CD	2.60	0.65
1:E:115:LEU:O	1:E:118:THR:HG23	1.96	0.65
1:E:338:ASN:O	1:E:339:ARG:O	2.15	0.65
1:E:340:SER:CB	1:E:395:ASN:OD1	2.41	0.65
1:G:338:ASN:O	1:G:339:ARG:O	2.15	0.65
1:G:348:VAL:CG1	1:G:354:ARG:HD3	2.20	0.65
1:H:167:GLY:O	1:H:169:LYS:HD3	1.96	0.65
1:I:17:VAL:HG11	1:I:33:ILE:HG22	1.79	0.65
1:I:67:LEU:CD2	1:I:88:ARG:HB3	2.27	0.65
1:I:122:ASP:HB2	1:I:276:LYS:HD3	1.78	0.65
1:I:338:ASN:O	1:I:339:ARG:O	2.15	0.65
1:J:16:PHE:HD1	1:J:79:PHE:HE1	1.42	0.65
1:J:174:GLY:C	1:J:175:VAL:O	2.40	0.65
1:K:19:LEU:CD2	1:K:75:VAL:HG22	2.19	0.65
1:K:206:VAL:HG12	1:L:34:PRO:HG3	1.78	0.65
1:L:47:LYS:O	1:L:64:ASP:N	2.30	0.65
1:A:27:LYS:NZ	1:A:239:LYS:HZ2	1.83	0.65
1:A:186:ASP:O	1:A:187:SER:C	2.39	0.65
1:A:206:VAL:HG12	1:F:34:PRO:HG3	1.78	0.65
1:A:348:VAL:CG1	1:A:354:ARG:HD3	2.20	0.65
1:B:34:PRO:HG3	1:C:206:VAL:HG12	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:70:ASP:OD2	1:B:70:ASP:N	2.30	0.65
1:B:179:TYR:C	1:B:181:PRO:CD	2.66	0.65
1:C:60:ILE:HG22	1:C:100:TYR:CD2	2.32	0.65
1:C:105:ARG:NH2	1:C:233:ASP:CG	2.55	0.65
1:C:167:GLY:O	1:C:169:LYS:HD3	1.96	0.65
1:C:174:GLY:C	1:C:175:VAL:O	2.40	0.65
1:D:65:MET:CE	1:D:65:MET:CA	2.75	0.65
1:D:174:GLY:C	1:D:175:VAL:O	2.40	0.65
1:D:280:ASN:C	1:D:282:PHE:N	2.51	0.65
1:E:92:LEU:HG	1:E:93:GLU:N	2.09	0.65
1:F:381:GLY:O	1:F:385:LYS:O	2.15	0.65
1:G:67:LEU:CD2	1:G:88:ARG:HB3	2.26	0.65
1:G:186:ASP:O	1:G:187:SER:C	2.39	0.65
1:H:65:MET:CE	1:H:65:MET:CA	2.75	0.65
1:I:179:TYR:C	1:I:181:PRO:CD	2.66	0.65
1:I:424:ASP:O	1:I:426:GLU:N	2.30	0.65
1:J:47:LYS:O	1:J:64:ASP:N	2.30	0.65
1:J:122:ASP:HB2	1:J:276:LYS:HD3	1.78	0.65
1:K:105:ARG:NH2	1:K:233:ASP:CG	2.55	0.65
1:K:174:GLY:C	1:K:175:VAL:O	2.40	0.65
1:L:36:HIS:C	1:L:38:VAL:H	2.00	0.65
1:L:125:LEU:N	1:L:125:LEU:CD2	2.59	0.65
1:A:67:LEU:CD2	1:A:88:ARG:HB3	2.26	0.65
1:A:122:ASP:HB2	1:A:276:LYS:HD3	1.78	0.65
1:B:47:LYS:O	1:B:64:ASP:N	2.30	0.65
1:B:99:GLY:N	1:B:103:ASP:HB2	2.12	0.65
1:B:125:LEU:N	1:B:125:LEU:CD2	2.60	0.65
1:D:47:LYS:O	1:D:64:ASP:N	2.30	0.65
1:D:54:ILE:CG1	1:D:102:ARG:NE	2.47	0.65
1:D:122:ASP:HB2	1:D:276:LYS:HD3	1.78	0.65
1:D:379:LEU:HD12	1:D:379:LEU:C	2.20	0.65
1:E:122:ASP:HB2	1:E:276:LYS:HD3	1.78	0.65
1:E:381:GLY:O	1:E:385:LYS:O	2.15	0.65
1:F:67:LEU:CD2	1:F:88:ARG:HB3	2.26	0.65
1:F:70:ASP:OD2	1:F:70:ASP:N	2.29	0.65
1:F:350:SER:C	1:F:352:LYS:N	2.55	0.65
1:G:68:MET:N	1:G:69:PRO:CD	2.54	0.65
1:G:122:ASP:HB2	1:G:276:LYS:HD3	1.78	0.65
1:G:125:LEU:N	1:G:125:LEU:CD2	2.60	0.65
1:I:381:GLY:O	1:I:385:LYS:O	2.15	0.65
1:J:65:MET:CE	1:J:65:MET:CA	2.75	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:186:ASP:O	1:J:187:SER:C	2.39	0.65
1:K:167:GLY:O	1:K:169:LYS:HD3	1.96	0.65
1:L:70:ASP:OD2	1:L:70:ASP:N	2.29	0.65
1:L:174:GLY:C	1:L:175:VAL:O	2.40	0.65
1:L:338:ASN:C	1:L:339:ARG:NH1	2.54	0.65
1:A:182:VAL:HG13	1:F:28:GLU:HG3	1.75	0.64
1:A:381:GLY:O	1:A:385:LYS:O	2.16	0.64
1:B:174:GLY:C	1:B:175:VAL:O	2.40	0.64
1:C:112:GLU:O	1:C:115:LEU:HB3	1.97	0.64
1:C:258:LYS:HB3	1:C:317:ASN:ND2	2.12	0.64
1:E:34:PRO:HG3	1:F:206:VAL:HG12	1.78	0.64
1:E:179:TYR:C	1:E:181:PRO:CD	2.66	0.64
1:E:281:LEU:HD23	1:E:293:GLN:NE2	2.12	0.64
1:E:424:ASP:O	1:E:426:GLU:N	2.30	0.64
1:F:47:LYS:O	1:F:64:ASP:N	2.30	0.64
1:F:65:MET:CE	1:F:65:MET:CA	2.75	0.64
1:F:105:ARG:O	1:F:108:ALA:HB3	1.95	0.64
1:G:206:VAL:HG12	1:H:34:PRO:HG3	1.78	0.64
1:G:381:GLY:O	1:G:385:LYS:O	2.15	0.64
1:H:47:LYS:O	1:H:64:ASP:N	2.30	0.64
1:H:67:LEU:CD2	1:H:88:ARG:HB3	2.26	0.64
1:H:70:ASP:OD2	1:H:70:ASP:N	2.29	0.64
1:H:92:LEU:H	1:H:97:LEU:N	1.94	0.64
1:H:350:SER:C	1:H:352:LYS:N	2.55	0.64
1:H:381:GLY:O	1:H:385:LYS:O	2.16	0.64
1:H:465:TYR:O	1:H:468:VAL:HG12	1.96	0.64
1:J:86:ILE:N	1:J:86:ILE:CD1	2.44	0.64
1:J:379:LEU:HD12	1:J:379:LEU:C	2.20	0.64
1:K:258:LYS:HB3	1:K:317:ASN:ND2	2.12	0.64
1:K:350:SER:C	1:K:352:LYS:N	2.55	0.64
1:L:19:LEU:O	1:L:19:LEU:CD1	2.44	0.64
1:L:79:PHE:CG	1:L:80:PHE:CD1	2.84	0.64
1:A:281:LEU:HD23	1:A:293:GLN:NE2	2.12	0.64
1:B:19:LEU:O	1:B:19:LEU:CD1	2.44	0.64
1:B:216:ALA:HB3	1:B:260:MET:HE1	1.80	0.64
1:C:17:VAL:HG11	1:C:33:ILE:HG22	1.79	0.64
1:C:350:SER:C	1:C:352:LYS:N	2.55	0.64
1:D:60:ILE:HG22	1:D:100:TYR:CD2	2.33	0.64
1:E:99:GLY:N	1:E:103:ASP:HB2	2.12	0.64
1:E:176:LYS:N	1:E:263:ASP:OD1	2.30	0.64
1:F:36:HIS:C	1:F:38:VAL:H	1.99	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:131:GLU:HB2	1:G:266:SER:HB3	1.77	0.64
1:G:418:LEU:HD12	1:G:447:ARG:HD3	1.79	0.64
1:H:258:LYS:HB3	1:H:317:ASN:ND2	2.13	0.64
1:I:40:ALA:O	1:I:41:GLU:CB	2.43	0.64
1:I:340:SER:CB	1:I:395:ASN:OD1	2.42	0.64
1:J:60:ILE:HG22	1:J:100:TYR:CD2	2.33	0.64
1:J:71:ALA:CB	1:J:86:ILE:HG13	2.28	0.64
1:J:105:ARG:NH2	1:J:233:ASP:CG	2.55	0.64
1:K:71:ALA:CB	1:K:86:ILE:HG13	2.28	0.64
1:K:86:ILE:N	1:K:86:ILE:CD1	2.44	0.64
1:L:99:GLY:N	1:L:103:ASP:HB2	2.12	0.64
1:L:176:LYS:N	1:L:263:ASP:OD1	2.30	0.64
1:A:174:GLY:C	1:A:175:VAL:O	2.40	0.64
1:B:71:ALA:HB1	1:B:86:ILE:CG1	2.27	0.64
1:B:176:LYS:N	1:B:263:ASP:OD1	2.30	0.64
1:C:176:LYS:N	1:C:263:ASP:OD1	2.30	0.64
1:D:105:ARG:NH2	1:D:233:ASP:CG	2.55	0.64
1:D:125:LEU:N	1:D:125:LEU:CD2	2.60	0.64
1:D:316:THR:HG21	1:J:461:GLU:CG	2.28	0.64
1:D:461:GLU:CG	1:J:316:THR:HG21	2.28	0.64
1:E:112:GLU:O	1:E:115:LEU:HB3	1.97	0.64
1:E:425:ARG:NH2	1:E:440:ASP:OD1	2.30	0.64
1:F:258:LYS:HB3	1:F:317:ASN:ND2	2.13	0.64
1:F:275:ALA:HA	1:F:281:LEU:HD12	1.79	0.64
1:G:86:ILE:C	1:G:87:ILE:HG12	2.21	0.64
1:G:174:GLY:C	1:G:175:VAL:O	2.40	0.64
1:H:206:VAL:HG12	1:I:34:PRO:HG3	1.78	0.64
1:H:348:VAL:CG1	1:H:354:ARG:HD3	2.20	0.64
1:H:418:LEU:HD12	1:H:447:ARG:HD3	1.79	0.64
1:I:92:LEU:HG	1:I:93:GLU:N	2.09	0.64
1:I:99:GLY:N	1:I:103:ASP:HB2	2.12	0.64
1:I:112:GLU:O	1:I:115:LEU:HB3	1.97	0.64
1:I:281:LEU:HD23	1:I:293:GLN:NE2	2.12	0.64
1:I:465:TYR:O	1:I:468:VAL:HG12	1.96	0.64
1:J:17:VAL:HG11	1:J:33:ILE:HG22	1.79	0.64
1:J:106:SER:O	1:J:107:ILE:C	2.38	0.64
1:J:125:LEU:N	1:J:125:LEU:CD2	2.60	0.64
1:K:60:ILE:HG22	1:K:100:TYR:CD2	2.33	0.64
1:K:65:MET:CE	1:K:65:MET:CA	2.75	0.64
1:K:79:PHE:CD2	1:K:79:PHE:N	2.65	0.64
1:L:216:ALA:HB3	1:L:260:MET:HE1	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:75:VAL:HG23	1:A:84:THR:CB	2.28	0.64
1:A:86:ILE:C	1:A:87:ILE:HG12	2.21	0.64
1:B:105:ARG:NH2	1:B:233:ASP:CG	2.55	0.64
1:C:71:ALA:CB	1:C:86:ILE:HG13	2.28	0.64
1:D:17:VAL:HG11	1:D:33:ILE:HG22	1.79	0.64
1:D:163:LYS:NZ	1:D:163:LYS:HB2	2.12	0.64
1:D:176:LYS:N	1:D:263:ASP:OD1	2.30	0.64
1:D:424:ASP:O	1:D:426:GLU:N	2.30	0.64
1:E:40:ALA:O	1:E:41:GLU:CB	2.43	0.64
1:E:86:ILE:C	1:E:87:ILE:HG12	2.22	0.64
1:E:465:TYR:O	1:E:468:VAL:HG12	1.96	0.64
1:F:71:ALA:HB1	1:F:86:ILE:CG1	2.27	0.64
1:F:115:LEU:O	1:F:118:THR:HG23	1.96	0.64
1:F:165:GLU:C	1:F:167:GLY:N	2.55	0.64
1:F:418:LEU:HD12	1:F:447:ARG:HD3	1.79	0.64
1:G:165:GLU:C	1:G:167:GLY:N	2.55	0.64
1:H:105:ARG:O	1:H:108:ALA:HB3	1.95	0.64
1:H:115:LEU:O	1:H:118:THR:HG23	1.96	0.64
1:H:165:GLU:C	1:H:167:GLY:N	2.55	0.64
1:H:275:ALA:HA	1:H:281:LEU:HD12	1.79	0.64
1:I:86:ILE:C	1:I:87:ILE:HG12	2.22	0.64
1:I:176:LYS:N	1:I:263:ASP:OD1	2.30	0.64
1:J:20:ARG:CG	1:J:28:GLU:CD	2.60	0.64
1:J:176:LYS:N	1:J:263:ASP:OD1	2.30	0.64
1:K:112:GLU:O	1:K:115:LEU:HB3	1.97	0.64
1:K:223:THR:HG22	1:K:231:LYS:HZ3	1.61	0.64
1:L:105:ARG:NH2	1:L:233:ASP:CG	2.55	0.64
1:L:119:GLY:C	1:L:121:ALA:N	2.51	0.64
1:A:79:PHE:CG	1:A:80:PHE:CD1	2.84	0.64
1:A:131:GLU:HB2	1:A:266:SER:HB3	1.77	0.64
1:A:165:GLU:C	1:A:167:GLY:N	2.55	0.64
1:A:176:LYS:N	1:A:263:ASP:OD1	2.30	0.64
1:A:425:ARG:NH2	1:A:440:ASP:OD1	2.30	0.64
1:B:8:MET:HA	1:B:11:GLU:HB2	1.80	0.64
1:B:27:LYS:NZ	1:B:239:LYS:HZ2	1.83	0.64
1:B:75:VAL:HG23	1:B:84:THR:CB	2.27	0.64
1:B:186:ASP:O	1:B:187:SER:C	2.39	0.64
1:B:258:LYS:HB3	1:B:317:ASN:ND2	2.12	0.64
1:C:65:MET:CE	1:C:65:MET:CA	2.75	0.64
1:C:79:PHE:CD2	1:C:79:PHE:N	2.66	0.64
1:F:79:PHE:CG	1:F:80:PHE:CD1	2.84	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:186:ASP:O	1:F:187:SER:C	2.39	0.64
1:F:465:TYR:O	1:F:468:VAL:HG12	1.96	0.64
1:G:75:VAL:HG23	1:G:84:THR:CB	2.28	0.64
1:G:79:PHE:CG	1:G:80:PHE:CD1	2.84	0.64
1:G:258:LYS:HB3	1:G:317:ASN:ND2	2.12	0.64
1:G:275:ALA:HA	1:G:281:LEU:HD12	1.79	0.64
1:G:281:LEU:HD23	1:G:293:GLN:NE2	2.12	0.64
1:G:425:ARG:NH2	1:G:440:ASP:OD1	2.30	0.64
1:I:425:ARG:NH2	1:I:440:ASP:OD1	2.30	0.64
1:J:20:ARG:CZ	1:J:86:ILE:CG2	2.76	0.64
1:J:79:PHE:CD2	1:J:79:PHE:N	2.66	0.64
1:J:163:LYS:HB2	1:J:163:LYS:NZ	2.12	0.64
1:J:424:ASP:O	1:J:426:GLU:N	2.30	0.64
1:L:16:PHE:HD1	1:L:79:PHE:HE1	1.42	0.64
1:L:71:ALA:HB1	1:L:86:ILE:CG1	2.28	0.64
1:L:86:ILE:C	1:L:87:ILE:HG12	2.21	0.64
1:L:186:ASP:O	1:L:187:SER:C	2.39	0.64
1:A:316:THR:HG21	1:G:461:GLU:CG	2.28	0.64
1:A:337:ARG:O	1:A:338:ASN:C	2.41	0.64
1:A:418:LEU:HD12	1:A:447:ARG:HD3	1.79	0.64
1:B:67:LEU:CD2	1:B:88:ARG:HB3	2.26	0.64
1:B:86:ILE:C	1:B:87:ILE:HG12	2.21	0.64
1:B:119:GLY:C	1:B:121:ALA:N	2.51	0.64
1:B:172:ARG:HB2	1:B:173:PRO:HD2	1.80	0.64
1:B:381:GLY:O	1:B:385:LYS:O	2.16	0.64
1:B:461:GLU:CG	1:H:316:THR:HG21	2.28	0.64
1:C:418:LEU:HD12	1:C:447:ARG:HD3	1.79	0.64
1:D:20:ARG:CZ	1:D:86:ILE:CG2	2.76	0.64
1:D:79:PHE:CD2	1:D:79:PHE:N	2.66	0.64
1:D:86:ILE:N	1:D:86:ILE:CD1	2.44	0.64
1:D:216:ALA:HB3	1:D:260:MET:HE1	1.80	0.64
1:D:280:ASN:N	1:D:280:ASN:HD22	1.95	0.64
1:D:418:LEU:HD12	1:D:447:ARG:HD3	1.79	0.64
1:E:8:MET:HA	1:E:11:GLU:HB2	1.80	0.64
1:E:20:ARG:CZ	1:E:86:ILE:CG2	2.76	0.64
1:E:106:SER:O	1:E:107:ILE:C	2.39	0.64
1:F:125:LEU:N	1:F:125:LEU:CD2	2.60	0.64
1:F:176:LYS:N	1:F:263:ASP:OD1	2.30	0.64
1:F:337:ARG:O	1:F:338:ASN:C	2.41	0.64
1:F:348:VAL:CG1	1:F:354:ARG:HD3	2.20	0.64
1:G:337:ARG:O	1:G:338:ASN:C	2.41	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:71:ALA:HB1	1:H:86:ILE:CG1	2.28	0.64
1:H:186:ASP:O	1:H:187:SER:C	2.39	0.64
1:H:334:TYR:HA	1:H:343:ILE:O	1.98	0.64
1:H:403:GLU:O	1:H:406:GLU:HB3	1.96	0.64
1:I:106:SER:O	1:I:107:ILE:C	2.38	0.64
1:I:339:ARG:C	1:I:341:ALA:N	2.35	0.64
1:J:19:LEU:CD2	1:J:75:VAL:HG22	2.19	0.64
1:J:99:GLY:N	1:J:103:ASP:HB2	2.12	0.64
1:K:17:VAL:HG11	1:K:33:ILE:HG22	1.79	0.64
1:K:176:LYS:N	1:K:263:ASP:OD1	2.30	0.64
1:L:8:MET:HA	1:L:11:GLU:HB2	1.80	0.64
1:L:67:LEU:CD2	1:L:88:ARG:HB3	2.26	0.64
1:L:75:VAL:HG23	1:L:84:THR:CB	2.28	0.64
1:L:168:ASN:C	1:L:169:LYS:HG2	2.20	0.64
1:L:338:ASN:O	1:L:339:ARG:O	2.15	0.64
1:L:381:GLY:O	1:L:385:LYS:O	2.16	0.64
1:A:8:MET:HA	1:A:11:GLU:HB2	1.80	0.64
1:A:258:LYS:HB3	1:A:317:ASN:ND2	2.13	0.64
1:A:275:ALA:HA	1:A:281:LEU:HD12	1.79	0.64
1:A:403:GLU:O	1:A:406:GLU:HB3	1.96	0.64
1:A:461:GLU:CG	1:G:316:THR:HG21	2.28	0.64
1:B:20:ARG:NH1	1:B:86:ILE:CG2	2.51	0.64
1:B:60:ILE:HG22	1:B:100:TYR:CD2	2.33	0.64
1:B:338:ASN:O	1:B:339:ARG:O	2.15	0.64
1:C:40:ALA:O	1:C:41:GLU:CB	2.43	0.64
1:C:461:GLU:CG	1:I:316:THR:HG21	2.28	0.64
1:D:71:ALA:CB	1:D:86:ILE:HG13	2.28	0.64
1:D:99:GLY:N	1:D:103:ASP:HB2	2.12	0.64
1:D:281:LEU:HD23	1:D:293:GLN:NE2	2.12	0.64
1:E:60:ILE:HG22	1:E:100:TYR:CD2	2.33	0.64
1:E:275:ALA:HA	1:E:281:LEU:HD12	1.79	0.64
1:F:79:PHE:CD2	1:F:79:PHE:N	2.65	0.64
1:F:92:LEU:H	1:F:97:LEU:N	1.94	0.64
1:F:112:GLU:O	1:F:115:LEU:HB3	1.97	0.64
1:F:316:THR:HG21	1:L:461:GLU:CG	2.28	0.64
1:F:334:TYR:HA	1:F:343:ILE:O	1.98	0.64
1:F:403:GLU:O	1:F:406:GLU:HB3	1.96	0.64
1:G:176:LYS:N	1:G:263:ASP:OD1	2.30	0.64
1:H:79:PHE:CG	1:H:80:PHE:CD1	2.84	0.64
1:H:112:GLU:O	1:H:115:LEU:HB3	1.97	0.64
1:H:125:LEU:N	1:H:125:LEU:CD2	2.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:163:LYS:HB2	1:H:163:LYS:NZ	2.12	0.64
1:H:176:LYS:N	1:H:263:ASP:OD1	2.31	0.64
1:I:20:ARG:CZ	1:I:86:ILE:CG2	2.76	0.64
1:I:92:LEU:H	1:I:97:LEU:N	1.94	0.64
1:J:216:ALA:HB3	1:J:260:MET:HE1	1.80	0.64
1:J:280:ASN:N	1:J:280:ASN:HD22	1.95	0.64
1:J:338:ASN:O	1:J:339:ARG:O	2.15	0.64
1:K:15:LYS:O	1:K:16:PHE:CB	2.37	0.64
1:K:418:LEU:HD12	1:K:447:ARG:HD3	1.79	0.64
1:L:258:LYS:HB3	1:L:317:ASN:ND2	2.13	0.64
1:L:280:ASN:N	1:L:280:ASN:HD22	1.95	0.64
1:A:6:LEU:O	1:A:7:THR:C	2.41	0.64
1:A:19:LEU:HD12	1:A:20:ARG:HB2	1.80	0.64
1:A:22:THR:HB	1:A:29:GLN:HB2	1.78	0.64
1:B:122:ASP:HB2	1:B:276:LYS:HD3	1.78	0.64
1:B:168:ASN:C	1:B:169:LYS:HG2	2.20	0.64
1:C:381:GLY:O	1:C:385:LYS:O	2.16	0.64
1:C:403:GLU:O	1:C:406:GLU:HB3	1.96	0.64
1:D:19:LEU:CD2	1:D:75:VAL:HG22	2.20	0.64
1:E:316:THR:HG21	1:K:461:GLU:CG	2.28	0.64
1:F:50:ASP:N	1:F:50:ASP:OD2	2.30	0.64
1:F:163:LYS:HB2	1:F:163:LYS:NZ	2.12	0.64
1:G:6:LEU:O	1:G:7:THR:C	2.40	0.64
1:G:8:MET:HA	1:G:11:GLU:HB2	1.80	0.64
1:G:22:THR:HB	1:G:29:GLN:HB2	1.77	0.64
1:G:163:LYS:HB2	1:G:163:LYS:NZ	2.12	0.64
1:H:36:HIS:C	1:H:38:VAL:H	1.99	0.64
1:H:296:TYR:HD1	1:H:385:LYS:C	2.06	0.64
1:H:337:ARG:O	1:H:338:ASN:C	2.41	0.64
1:I:60:ILE:HG22	1:I:100:TYR:CD2	2.33	0.64
1:I:125:LEU:N	1:I:125:LEU:CD2	2.60	0.64
1:J:418:LEU:HD12	1:J:447:ARG:HD3	1.79	0.64
1:K:20:ARG:CG	1:K:28:GLU:CD	2.60	0.64
1:K:22:THR:HB	1:K:29:GLN:HB2	1.77	0.64
1:K:40:ALA:O	1:K:41:GLU:CB	2.43	0.64
1:K:216:ALA:HB3	1:K:260:MET:HE1	1.80	0.64
1:K:381:GLY:O	1:K:385:LYS:O	2.15	0.64
1:K:403:GLU:O	1:K:406:GLU:HB3	1.97	0.64
1:L:60:ILE:HG22	1:L:100:TYR:CD2	2.33	0.64
1:L:112:GLU:O	1:L:115:LEU:HB3	1.97	0.64
1:L:334:TYR:HA	1:L:343:ILE:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:334:TYR:HA	1:A:343:ILE:O	1.98	0.64
1:B:350:SER:C	1:B:352:LYS:N	2.55	0.64
1:C:20:ARG:CZ	1:C:86:ILE:CG2	2.76	0.64
1:C:20:ARG:CG	1:C:28:GLU:CD	2.60	0.64
1:C:22:THR:HB	1:C:29:GLN:HB2	1.77	0.64
1:C:86:ILE:N	1:C:86:ILE:CD1	2.44	0.64
1:E:296:TYR:HD1	1:E:385:LYS:C	2.06	0.64
1:E:334:TYR:HA	1:E:343:ILE:O	1.98	0.64
1:F:296:TYR:HD1	1:F:385:LYS:C	2.06	0.64
1:I:8:MET:HA	1:I:11:GLU:HB2	1.80	0.64
1:I:47:LYS:O	1:I:64:ASP:N	2.30	0.64
1:I:275:ALA:HA	1:I:281:LEU:HD12	1.80	0.64
1:I:280:ASN:N	1:I:280:ASN:HD22	1.95	0.64
1:I:334:TYR:HA	1:I:343:ILE:O	1.98	0.64
1:J:281:LEU:HD23	1:J:293:GLN:NE2	2.12	0.64
1:K:8:MET:HA	1:K:11:GLU:HB2	1.80	0.64
1:K:20:ARG:CZ	1:K:86:ILE:CG2	2.76	0.64
1:K:27:LYS:NZ	1:K:239:LYS:HZ2	1.88	0.64
1:K:179:TYR:C	1:K:181:PRO:CD	2.66	0.64
1:L:88:ARG:CZ	1:L:109:LYS:HE3	2.28	0.64
1:L:172:ARG:HB2	1:L:173:PRO:HD2	1.80	0.64
1:A:47:LYS:O	1:A:64:ASP:N	2.30	0.64
1:A:112:GLU:O	1:A:115:LEU:HB3	1.97	0.64
1:A:163:LYS:HB2	1:A:163:LYS:NZ	2.12	0.64
1:A:350:SER:C	1:A:352:LYS:N	2.55	0.64
1:B:16:PHE:HD1	1:B:79:PHE:HE1	1.43	0.64
1:B:280:ASN:N	1:B:280:ASN:HD22	1.95	0.64
1:B:334:TYR:HA	1:B:343:ILE:O	1.98	0.64
1:C:8:MET:HA	1:C:11:GLU:HB2	1.80	0.64
1:C:15:LYS:O	1:C:16:PHE:CB	2.37	0.64
1:C:216:ALA:HB3	1:C:260:MET:HE1	1.80	0.64
1:D:70:ASP:OD2	1:D:70:ASP:N	2.30	0.64
1:D:338:ASN:O	1:D:339:ARG:O	2.15	0.64
1:D:381:GLY:O	1:D:385:LYS:O	2.16	0.64
1:E:27:LYS:NZ	1:E:239:LYS:HZ2	1.92	0.64
1:E:125:LEU:N	1:E:125:LEU:CD2	2.60	0.64
1:E:461:GLU:CG	1:K:316:THR:HG21	2.28	0.64
1:F:40:ALA:O	1:F:41:GLU:CB	2.43	0.64
1:F:75:VAL:HG23	1:F:84:THR:CB	2.28	0.64
1:F:345:ILE:CD1	1:F:345:ILE:N	2.31	0.64
1:G:350:SER:C	1:G:352:LYS:N	2.55	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:403:GLU:O	1:G:406:GLU:HB3	1.97	0.64
1:H:50:ASP:N	1:H:50:ASP:OD2	2.30	0.64
1:H:75:VAL:HG23	1:H:84:THR:CB	2.28	0.64
1:H:79:PHE:CD2	1:H:79:PHE:N	2.66	0.64
1:I:19:LEU:HD22	1:I:240:TYR:HH	1.63	0.64
1:I:296:TYR:HD1	1:I:385:LYS:C	2.06	0.64
1:J:334:TYR:HA	1:J:343:ILE:O	1.98	0.64
1:J:381:GLY:O	1:J:385:LYS:O	2.16	0.64
1:L:71:ALA:CB	1:L:86:ILE:HG13	2.28	0.64
1:L:350:SER:C	1:L:352:LYS:N	2.55	0.64
1:A:50:ASP:N	1:A:50:ASP:OD2	2.30	0.63
1:A:105:ARG:NH2	1:A:233:ASP:CG	2.55	0.63
1:B:71:ALA:CB	1:B:86:ILE:HG13	2.28	0.63
1:B:88:ARG:CZ	1:B:109:LYS:HE3	2.28	0.63
1:B:112:GLU:O	1:B:115:LEU:HB3	1.97	0.63
1:C:172:ARG:HB2	1:C:173:PRO:HD2	1.80	0.63
1:D:334:TYR:HA	1:D:343:ILE:O	1.98	0.63
1:E:50:ASP:N	1:E:50:ASP:OD2	2.30	0.63
1:E:92:LEU:H	1:E:97:LEU:N	1.94	0.63
1:E:163:LYS:HB2	1:E:163:LYS:NZ	2.12	0.63
1:F:315:THR:CG2	1:L:465:TYR:HE2	2.04	0.63
1:G:47:LYS:O	1:G:64:ASP:N	2.30	0.63
1:G:54:ILE:CG1	1:G:102:ARG:NE	2.47	0.63
1:G:112:GLU:O	1:G:115:LEU:HB3	1.97	0.63
1:G:178:GLY:O	1:G:212:GLU:O	2.17	0.63
1:G:334:TYR:HA	1:G:343:ILE:O	1.98	0.63
1:H:40:ALA:O	1:H:41:GLU:CB	2.43	0.63
1:H:280:ASN:N	1:H:280:ASN:HD22	1.95	0.63
1:J:70:ASP:OD2	1:J:70:ASP:N	2.29	0.63
1:L:122:ASP:HB2	1:L:276:LYS:HD3	1.78	0.63
1:A:178:GLY:O	1:A:212:GLU:O	2.17	0.63
1:B:465:TYR:HE2	1:H:315:THR:CG2	2.04	0.63
1:C:79:PHE:CG	1:C:80:PHE:CD1	2.84	0.63
1:C:99:GLY:N	1:C:103:ASP:HB2	2.12	0.63
1:C:179:TYR:C	1:C:181:PRO:CD	2.66	0.63
1:C:316:THR:HG21	1:I:461:GLU:CG	2.28	0.63
1:D:461:GLU:OE1	1:J:316:THR:CG2	2.36	0.63
1:D:467:SER:OG	1:I:171:HIS:ND1	2.31	0.63
1:E:47:LYS:O	1:E:64:ASP:N	2.30	0.63
1:E:171:HIS:ND1	1:J:467:SER:OG	2.31	0.63
1:E:280:ASN:N	1:E:280:ASN:HD22	1.95	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:19:LEU:HD12	1:F:20:ARG:HB2	1.80	0.63
1:F:425:ARG:NH2	1:F:440:ASP:OD1	2.30	0.63
1:G:19:LEU:HD12	1:G:20:ARG:HB2	1.80	0.63
1:H:19:LEU:HD12	1:H:20:ARG:HB2	1.80	0.63
1:H:281:LEU:HD23	1:H:293:GLN:NE2	2.12	0.63
1:H:425:ARG:NH2	1:H:440:ASP:OD1	2.30	0.63
1:I:50:ASP:N	1:I:50:ASP:OD2	2.30	0.63
1:K:99:GLY:N	1:K:103:ASP:HB2	2.12	0.63
1:K:296:TYR:HD1	1:K:385:LYS:C	2.06	0.63
1:L:178:GLY:O	1:L:212:GLU:O	2.16	0.63
1:L:337:ARG:O	1:L:338:ASN:C	2.41	0.63
1:A:172:ARG:HB2	1:A:173:PRO:HD2	1.80	0.63
1:A:296:TYR:HD1	1:A:385:LYS:C	2.06	0.63
1:C:106:SER:O	1:C:107:ILE:C	2.38	0.63
1:C:345:ILE:CD1	1:C:345:ILE:N	2.31	0.63
1:D:86:ILE:C	1:D:87:ILE:HG12	2.21	0.63
1:E:19:LEU:HD21	1:E:240:TYR:CE2	2.34	0.63
1:E:79:PHE:CD2	1:E:79:PHE:N	2.66	0.63
1:F:105:ARG:NH2	1:F:233:ASP:CG	2.55	0.63
1:F:281:LEU:HD23	1:F:293:GLN:NE2	2.12	0.63
1:G:50:ASP:N	1:G:50:ASP:OD2	2.30	0.63
1:G:60:ILE:HG22	1:G:100:TYR:CD2	2.33	0.63
1:G:79:PHE:CD2	1:G:79:PHE:N	2.65	0.63
1:G:105:ARG:NH2	1:G:233:ASP:CG	2.55	0.63
1:G:296:TYR:HD1	1:G:385:LYS:C	2.06	0.63
1:H:60:ILE:HG22	1:H:100:TYR:CD2	2.33	0.63
1:H:179:TYR:C	1:H:181:PRO:CD	2.66	0.63
1:I:19:LEU:HD21	1:I:240:TYR:CE2	2.34	0.63
1:I:79:PHE:CD2	1:I:79:PHE:N	2.65	0.63
1:J:86:ILE:C	1:J:87:ILE:HG12	2.21	0.63
1:K:75:VAL:HG23	1:K:84:THR:CB	2.28	0.63
1:L:20:ARG:NH1	1:L:86:ILE:CG2	2.51	0.63
1:A:54:ILE:CD1	1:A:102:ARG:CD	2.73	0.63
1:A:79:PHE:CD2	1:A:79:PHE:N	2.66	0.63
1:A:216:ALA:HB3	1:A:260:MET:HE1	1.80	0.63
1:B:50:ASP:N	1:B:50:ASP:OD2	2.30	0.63
1:B:79:PHE:CD2	1:B:79:PHE:N	2.65	0.63
1:B:296:TYR:HD1	1:B:385:LYS:C	2.06	0.63
1:B:316:THR:HG21	1:H:461:GLU:CG	2.28	0.63
1:B:337:ARG:O	1:B:338:ASN:C	2.41	0.63
1:C:47:LYS:O	1:C:64:ASP:N	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:75:VAL:HG23	1:C:84:THR:CB	2.28	0.63
1:C:88:ARG:CZ	1:C:109:LYS:HE3	2.28	0.63
1:C:275:ALA:HA	1:C:281:LEU:HD12	1.80	0.63
1:C:296:TYR:HD1	1:C:385:LYS:C	2.06	0.63
1:E:258:LYS:HB3	1:E:317:ASN:ND2	2.12	0.63
1:E:337:ARG:O	1:E:338:ASN:C	2.41	0.63
1:F:179:TYR:C	1:F:181:PRO:CD	2.66	0.63
1:F:280:ASN:N	1:F:280:ASN:HD22	1.95	0.63
1:G:172:ARG:HB2	1:G:173:PRO:HD2	1.80	0.63
1:G:216:ALA:HB3	1:G:260:MET:HE1	1.80	0.63
1:H:174:GLY:C	1:H:175:VAL:O	2.40	0.63
1:H:178:GLY:O	1:H:212:GLU:O	2.16	0.63
1:I:337:ARG:O	1:I:338:ASN:C	2.41	0.63
1:I:418:LEU:HD12	1:I:447:ARG:HD3	1.79	0.63
1:J:50:ASP:OD2	1:J:50:ASP:N	2.30	0.63
1:J:258:LYS:HB3	1:J:317:ASN:ND2	2.12	0.63
1:K:47:LYS:O	1:K:64:ASP:N	2.30	0.63
1:K:79:PHE:CG	1:K:80:PHE:CD1	2.84	0.63
1:K:88:ARG:CZ	1:K:109:LYS:HE3	2.28	0.63
1:K:275:ALA:HA	1:K:281:LEU:HD12	1.80	0.63
1:K:338:ASN:O	1:K:339:ARG:O	2.15	0.63
1:L:79:PHE:CD2	1:L:79:PHE:N	2.65	0.63
1:L:296:TYR:HD1	1:L:385:LYS:C	2.06	0.63
1:A:54:ILE:CG1	1:A:102:ARG:NE	2.47	0.63
1:A:60:ILE:HG22	1:A:100:TYR:CD2	2.33	0.63
1:A:88:ARG:CZ	1:A:109:LYS:HE3	2.28	0.63
1:B:178:GLY:O	1:B:212:GLU:O	2.17	0.63
1:C:163:LYS:HB2	1:C:163:LYS:NZ	2.12	0.63
1:C:338:ASN:O	1:C:339:ARG:O	2.15	0.63
1:D:50:ASP:OD2	1:D:50:ASP:N	2.30	0.63
1:D:163:LYS:HB2	1:D:163:LYS:HZ2	1.64	0.63
1:E:325:GLY:C	1:E:326:TYR:HD2	2.07	0.63
1:F:60:ILE:HG22	1:F:100:TYR:CD2	2.33	0.63
1:F:178:GLY:O	1:F:212:GLU:O	2.17	0.63
1:H:8:MET:HA	1:H:11:GLU:HB2	1.80	0.63
1:I:325:GLY:C	1:I:326:TYR:HD2	2.07	0.63
1:K:163:LYS:HB2	1:K:163:LYS:NZ	2.12	0.63
1:A:451:ASP:O	1:A:452:ARG:C	2.42	0.63
1:B:163:LYS:HB2	1:B:163:LYS:NZ	2.12	0.63
1:D:296:TYR:HD1	1:D:385:LYS:C	2.06	0.63
1:D:316:THR:CG2	1:J:461:GLU:OE1	2.36	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:65:MET:HB3	1:E:67:LEU:CD2	2.10	0.63
1:E:75:VAL:HG23	1:E:84:THR:CB	2.27	0.63
1:F:174:GLY:C	1:F:175:VAL:O	2.40	0.63
1:F:461:GLU:CG	1:L:316:THR:HG21	2.28	0.63
1:G:88:ARG:CZ	1:G:109:LYS:HE3	2.28	0.63
1:G:451:ASP:O	1:G:452:ARG:C	2.42	0.63
1:H:454:ARG:HH11	1:H:454:ARG:HG2	1.63	0.63
1:I:75:VAL:HG23	1:I:84:THR:CB	2.27	0.63
1:I:216:ALA:HB3	1:I:260:MET:HE1	1.80	0.63
1:I:258:LYS:HB3	1:I:317:ASN:ND2	2.13	0.63
1:K:172:ARG:HB2	1:K:173:PRO:HD2	1.81	0.63
1:B:418:LEU:HD12	1:B:447:ARG:HD3	1.79	0.63
1:C:50:ASP:N	1:C:50:ASP:OD2	2.30	0.63
1:C:71:ALA:HB1	1:C:86:ILE:CG1	2.27	0.63
1:C:337:ARG:O	1:C:338:ASN:C	2.41	0.63
1:C:403:GLU:H	1:C:405:LYS:HG2	1.64	0.63
1:D:106:SER:O	1:D:107:ILE:C	2.38	0.63
1:D:258:LYS:HB3	1:D:317:ASN:ND2	2.13	0.63
1:D:275:ALA:HA	1:D:281:LEU:HD12	1.79	0.63
1:D:418:LEU:HD13	1:D:443:ILE:HG23	1.81	0.63
1:E:70:ASP:OD2	1:E:70:ASP:N	2.30	0.63
1:F:8:MET:HA	1:F:11:GLU:HB2	1.80	0.63
1:G:399:LEU:HB3	1:G:402:GLU:HB2	1.81	0.63
1:I:163:LYS:HB2	1:I:163:LYS:NZ	2.13	0.63
1:I:454:ARG:HH11	1:I:454:ARG:HG2	1.64	0.63
1:J:75:VAL:HG23	1:J:84:THR:CB	2.28	0.63
1:J:172:ARG:HB2	1:J:173:PRO:HD2	1.80	0.63
1:J:418:LEU:HD13	1:J:443:ILE:HG23	1.81	0.63
1:J:454:ARG:HH11	1:J:454:ARG:HG2	1.63	0.63
1:K:71:ALA:HB1	1:K:86:ILE:CG1	2.28	0.63
1:K:106:SER:O	1:K:107:ILE:C	2.39	0.63
1:K:403:GLU:H	1:K:405:LYS:HG2	1.64	0.63
1:L:50:ASP:N	1:L:50:ASP:OD2	2.30	0.63
1:L:163:LYS:HB2	1:L:163:LYS:NZ	2.12	0.63
1:A:399:LEU:HB3	1:A:402:GLU:HB2	1.81	0.63
1:C:86:ILE:C	1:C:87:ILE:HG12	2.21	0.63
1:C:296:TYR:HB3	1:C:381:GLY:C	2.24	0.63
1:D:54:ILE:CD1	1:D:102:ARG:CD	2.73	0.63
1:D:75:VAL:HG23	1:D:84:THR:CB	2.28	0.63
1:D:451:ASP:O	1:D:452:ARG:C	2.42	0.63
1:E:216:ALA:HB3	1:E:260:MET:HE1	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:418:LEU:HD12	1:E:447:ARG:HD3	1.79	0.63
1:E:418:LEU:HD13	1:E:443:ILE:HG23	1.81	0.63
1:G:54:ILE:CD1	1:G:102:ARG:CD	2.73	0.63
1:H:296:TYR:HB3	1:H:381:GLY:C	2.24	0.63
1:H:325:GLY:C	1:H:326:TYR:HD2	2.07	0.63
1:H:345:ILE:CD1	1:H:345:ILE:N	2.31	0.63
1:I:296:TYR:HB3	1:I:381:GLY:C	2.24	0.63
1:I:418:LEU:HD13	1:I:443:ILE:HG23	1.81	0.63
1:I:437:GLU:O	1:I:438:ALA:C	2.42	0.63
1:J:325:GLY:C	1:J:326:TYR:HD2	2.07	0.63
1:J:437:GLU:O	1:J:438:ALA:C	2.42	0.63
1:K:50:ASP:N	1:K:50:ASP:OD2	2.30	0.63
1:A:233:ASP:CB	1:A:368:TYR:OH	2.47	0.63
1:B:296:TYR:HB3	1:B:381:GLY:C	2.24	0.63
1:C:36:HIS:C	1:C:38:VAL:H	1.99	0.63
1:D:172:ARG:HB2	1:D:173:PRO:HD2	1.80	0.63
1:D:337:ARG:O	1:D:338:ASN:C	2.41	0.63
1:D:437:GLU:O	1:D:438:ALA:C	2.42	0.63
1:D:454:ARG:HH11	1:D:454:ARG:HG2	1.63	0.63
1:E:296:TYR:HB3	1:E:381:GLY:C	2.24	0.63
1:E:437:GLU:O	1:E:438:ALA:C	2.42	0.63
1:E:454:ARG:HH11	1:E:454:ARG:HG2	1.64	0.63
1:F:216:ALA:HB3	1:F:260:MET:HE1	1.80	0.63
1:F:325:GLY:C	1:F:326:TYR:HD2	2.07	0.63
1:F:403:GLU:H	1:F:405:LYS:HG2	1.64	0.63
1:F:454:ARG:HH11	1:F:454:ARG:HG2	1.63	0.63
1:G:280:ASN:HD22	1:G:280:ASN:N	1.95	0.63
1:I:70:ASP:OD2	1:I:70:ASP:N	2.29	0.63
1:J:19:LEU:HD12	1:J:20:ARG:HB2	1.80	0.63
1:J:296:TYR:HD1	1:J:385:LYS:C	2.06	0.63
1:K:334:TYR:HA	1:K:343:ILE:O	1.98	0.63
1:K:337:ARG:O	1:K:338:ASN:C	2.41	0.63
1:L:296:TYR:HB3	1:L:381:GLY:C	2.24	0.63
1:D:19:LEU:HD12	1:D:20:ARG:HB2	1.80	0.62
1:D:19:LEU:HD21	1:D:240:TYR:CE2	2.34	0.62
1:F:19:LEU:HD21	1:F:240:TYR:CE2	2.34	0.62
1:F:296:TYR:HB3	1:F:381:GLY:C	2.24	0.62
1:G:169:LYS:O	1:H:252:THR:OG1	2.17	0.62
1:G:233:ASP:CB	1:G:368:TYR:OH	2.47	0.62
1:H:105:ARG:NH2	1:H:233:ASP:CG	2.56	0.62
1:H:403:GLU:H	1:H:405:LYS:HG2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:19:LEU:HD21	1:J:240:TYR:CE2	2.34	0.62
1:J:54:ILE:CD1	1:J:102:ARG:CD	2.73	0.62
1:J:275:ALA:HA	1:J:281:LEU:HD12	1.80	0.62
1:J:296:TYR:HB3	1:J:381:GLY:C	2.24	0.62
1:J:337:ARG:O	1:J:338:ASN:C	2.41	0.62
1:J:451:ASP:O	1:J:452:ARG:C	2.42	0.62
1:K:19:LEU:O	1:K:19:LEU:CD1	2.44	0.62
1:K:86:ILE:C	1:K:87:ILE:HG12	2.21	0.62
1:L:11:GLU:HA	1:L:11:GLU:OE1	1.99	0.62
1:L:65:MET:CE	1:L:65:MET:CA	2.75	0.62
1:L:418:LEU:HD12	1:L:447:ARG:HD3	1.79	0.62
1:A:169:LYS:O	1:F:252:THR:OG1	2.17	0.62
1:A:252:THR:OG1	1:B:169:LYS:O	2.17	0.62
1:A:280:ASN:N	1:A:280:ASN:HD22	1.95	0.62
1:B:65:MET:CE	1:B:65:MET:CA	2.75	0.62
1:C:178:GLY:O	1:C:212:GLU:O	2.16	0.62
1:C:334:TYR:HA	1:C:343:ILE:O	1.98	0.62
1:D:8:MET:HA	1:D:11:GLU:HB2	1.80	0.62
1:D:88:ARG:CZ	1:D:109:LYS:HE3	2.28	0.62
1:G:296:TYR:HB3	1:G:381:GLY:C	2.24	0.62
1:G:403:GLU:H	1:G:405:LYS:HG2	1.64	0.62
1:H:88:ARG:CZ	1:H:109:LYS:HE3	2.28	0.62
1:H:216:ALA:HB3	1:H:260:MET:HE1	1.80	0.62
1:H:451:ASP:O	1:H:452:ARG:C	2.42	0.62
1:J:71:ALA:HB1	1:J:86:ILE:CG1	2.27	0.62
1:K:296:TYR:HB3	1:K:381:GLY:C	2.24	0.62
1:L:5:VAL:HG11	1:L:43:PHE:CZ	2.34	0.62
1:L:27:LYS:NZ	1:L:239:LYS:HZ1	1.67	0.62
1:L:126:PHE:HD1	1:L:228:MET:HB3	1.64	0.62
1:L:275:ALA:HA	1:L:281:LEU:HD12	1.79	0.62
1:A:126:PHE:HD1	1:A:228:MET:HB3	1.65	0.62
1:B:233:ASP:CB	1:B:368:TYR:OH	2.47	0.62
1:B:275:ALA:HA	1:B:281:LEU:HD12	1.79	0.62
1:B:280:ASN:C	1:B:282:PHE:N	2.51	0.62
1:C:16:PHE:HB2	1:C:82:ASP:HB3	1.82	0.62
1:C:19:LEU:O	1:C:19:LEU:CD1	2.44	0.62
1:C:314:PRO:O	1:C:315:THR:C	2.42	0.62
1:D:16:PHE:HB2	1:D:82:ASP:HB3	1.82	0.62
1:D:71:ALA:HB1	1:D:86:ILE:CG1	2.27	0.62
1:D:296:TYR:HB3	1:D:381:GLY:C	2.24	0.62
1:D:325:GLY:C	1:D:326:TYR:HD2	2.07	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:403:GLU:H	1:E:405:LYS:HG2	1.64	0.62
1:E:451:ASP:O	1:E:452:ARG:C	2.42	0.62
1:F:88:ARG:CZ	1:F:109:LYS:HE3	2.28	0.62
1:F:418:LEU:HD13	1:F:443:ILE:HG23	1.81	0.62
1:F:451:ASP:O	1:F:452:ARG:C	2.42	0.62
1:G:454:ARG:HG2	1:G:454:ARG:HH11	1.63	0.62
1:I:19:LEU:HD12	1:I:20:ARG:HB2	1.80	0.62
1:I:71:ALA:HB1	1:I:86:ILE:CG1	2.27	0.62
1:I:88:ARG:CZ	1:I:109:LYS:HE3	2.28	0.62
1:I:451:ASP:O	1:I:452:ARG:C	2.42	0.62
1:J:8:MET:HA	1:J:11:GLU:HB2	1.80	0.62
1:J:88:ARG:CZ	1:J:109:LYS:HE3	2.28	0.62
1:K:5:VAL:HG11	1:K:43:PHE:CZ	2.34	0.62
1:K:16:PHE:HB2	1:K:82:ASP:HB3	1.82	0.62
1:K:314:PRO:O	1:K:315:THR:C	2.42	0.62
1:L:233:ASP:CB	1:L:368:TYR:OH	2.48	0.62
1:L:280:ASN:C	1:L:282:PHE:N	2.51	0.62
1:L:399:LEU:HB3	1:L:402:GLU:HB2	1.81	0.62
1:A:11:GLU:HA	1:A:11:GLU:OE1	1.99	0.62
1:A:287:TYR:O	1:A:290:LEU:HD12	2.00	0.62
1:A:296:TYR:HB3	1:A:381:GLY:C	2.24	0.62
1:A:403:GLU:H	1:A:405:LYS:HG2	1.64	0.62
1:B:11:GLU:HA	1:B:11:GLU:OE1	2.00	0.62
1:B:63:SER:OG	1:B:90:ASP:O	2.16	0.62
1:B:126:PHE:HD1	1:B:228:MET:HB3	1.65	0.62
1:B:252:THR:OG1	1:C:169:LYS:O	2.17	0.62
1:B:314:PRO:O	1:B:315:THR:C	2.42	0.62
1:C:202:MET:HG2	1:C:237:ILE:HG21	1.82	0.62
1:E:11:GLU:HA	1:E:11:GLU:OE1	1.99	0.62
1:E:71:ALA:CB	1:E:86:ILE:HG13	2.28	0.62
1:E:71:ALA:HB1	1:E:86:ILE:CG1	2.28	0.62
1:F:71:ALA:CB	1:F:86:ILE:HG13	2.28	0.62
1:G:75:VAL:CG1	1:G:78:PRO:CD	2.70	0.62
1:G:126:PHE:HD1	1:G:228:MET:HB3	1.65	0.62
1:G:252:THR:OG1	1:L:169:LYS:O	2.17	0.62
1:H:19:LEU:HD21	1:H:240:TYR:CE2	2.34	0.62
1:H:71:ALA:CB	1:H:86:ILE:HG13	2.28	0.62
1:H:233:ASP:CB	1:H:368:TYR:OH	2.47	0.62
1:H:287:TYR:O	1:H:290:LEU:HD12	2.00	0.62
1:H:418:LEU:HD13	1:H:443:ILE:HG23	1.81	0.62
1:I:287:TYR:O	1:I:290:LEU:HD12	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:16:PHE:HB2	1:J:82:ASP:HB3	1.82	0.62
1:J:403:GLU:H	1:J:405:LYS:HG2	1.64	0.62
1:K:36:HIS:C	1:K:38:VAL:H	1.99	0.62
1:K:169:LYS:O	1:L:252:THR:OG1	2.17	0.62
1:L:314:PRO:O	1:L:315:THR:C	2.42	0.62
1:C:5:VAL:HG11	1:C:43:PHE:CZ	2.34	0.62
1:C:68:MET:N	1:C:69:PRO:CD	2.53	0.62
1:D:403:GLU:H	1:D:405:LYS:HG2	1.64	0.62
1:F:233:ASP:CB	1:F:368:TYR:OH	2.47	0.62
1:F:287:TYR:O	1:F:290:LEU:HD12	2.00	0.62
1:G:287:TYR:O	1:G:290:LEU:HD12	2.00	0.62
1:I:11:GLU:HA	1:I:11:GLU:OE1	1.99	0.62
1:I:172:ARG:HB2	1:I:173:PRO:HD2	1.80	0.62
1:I:202:MET:HG2	1:I:237:ILE:HG21	1.82	0.62
1:J:202:MET:HG2	1:J:237:ILE:HG21	1.82	0.62
1:K:178:GLY:O	1:K:212:GLU:O	2.17	0.62
1:K:202:MET:HG2	1:K:237:ILE:HG21	1.82	0.62
1:K:399:LEU:HB3	1:K:402:GLU:HB2	1.81	0.62
1:K:451:ASP:O	1:K:452:ARG:C	2.42	0.62
1:L:63:SER:OG	1:L:90:ASP:O	2.16	0.62
1:L:202:MET:HG2	1:L:237:ILE:HG21	1.82	0.62
1:A:36:HIS:C	1:A:38:VAL:H	1.99	0.62
1:A:75:VAL:CG1	1:A:78:PRO:CD	2.70	0.62
1:A:86:ILE:N	1:A:86:ILE:CD1	2.44	0.62
1:A:454:ARG:HH11	1:A:454:ARG:HG2	1.63	0.62
1:B:5:VAL:HG11	1:B:43:PHE:CZ	2.34	0.62
1:B:437:GLU:O	1:B:438:ALA:C	2.42	0.62
1:C:19:LEU:HD13	1:C:240:TYR:CD1	2.34	0.62
1:C:202:MET:HG2	1:C:237:ILE:CG2	2.30	0.62
1:C:399:LEU:HB3	1:C:402:GLU:HB2	1.81	0.62
1:D:5:VAL:HG11	1:D:43:PHE:CZ	2.34	0.62
1:D:178:GLY:O	1:D:212:GLU:O	2.17	0.62
1:E:165:GLU:C	1:E:167:GLY:N	2.55	0.62
1:E:178:GLY:O	1:E:212:GLU:O	2.17	0.62
1:E:202:MET:HG2	1:E:237:ILE:HG21	1.82	0.62
1:E:287:TYR:O	1:E:290:LEU:HD12	2.00	0.62
1:F:20:ARG:CZ	1:F:86:ILE:CG2	2.75	0.62
1:F:63:SER:OG	1:F:90:ASP:O	2.16	0.62
1:G:19:LEU:HD13	1:G:240:TYR:CD1	2.34	0.62
1:J:178:GLY:O	1:J:212:GLU:O	2.17	0.62
1:K:68:MET:N	1:K:69:PRO:CD	2.54	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:202:MET:HG2	1:K:237:ILE:CG2	2.30	0.62
1:L:202:MET:HG2	1:L:237:ILE:CG2	2.30	0.62
1:A:40:ALA:O	1:A:41:GLU:CB	2.43	0.62
1:A:325:GLY:C	1:A:326:TYR:HD2	2.07	0.62
1:B:202:MET:HG2	1:B:237:ILE:CG2	2.30	0.62
1:B:399:LEU:HB3	1:B:402:GLU:HB2	1.81	0.62
1:C:223:THR:HG22	1:C:231:LYS:HZ3	1.64	0.62
1:C:418:LEU:HD13	1:C:443:ILE:HG23	1.81	0.62
1:C:451:ASP:O	1:C:452:ARG:C	2.42	0.62
1:D:202:MET:HG2	1:D:237:ILE:CG2	2.30	0.62
1:D:233:ASP:CB	1:D:368:TYR:OH	2.47	0.62
1:E:19:LEU:HD12	1:E:20:ARG:HB2	1.80	0.62
1:E:88:ARG:CZ	1:E:109:LYS:HE3	2.29	0.62
1:E:172:ARG:HB2	1:E:173:PRO:HD2	1.80	0.62
1:G:11:GLU:OE1	1:G:11:GLU:HA	2.00	0.62
1:G:418:LEU:HD13	1:G:443:ILE:HG23	1.81	0.62
1:H:63:SER:OG	1:H:90:ASP:O	2.16	0.62
1:I:178:GLY:O	1:I:212:GLU:O	2.17	0.62
1:I:202:MET:HG2	1:I:237:ILE:CG2	2.30	0.62
1:J:202:MET:HG2	1:J:237:ILE:CG2	2.30	0.62
1:L:16:PHE:HB2	1:L:82:ASP:HB3	1.81	0.62
1:L:437:GLU:O	1:L:438:ALA:C	2.42	0.62
1:A:19:LEU:HD13	1:A:240:TYR:CD1	2.34	0.62
1:B:223:THR:HG22	1:B:231:LYS:HZ3	1.64	0.62
1:C:454:ARG:HH11	1:C:454:ARG:HG2	1.63	0.62
1:D:11:GLU:HA	1:D:11:GLU:OE1	1.99	0.62
1:D:202:MET:HG2	1:D:237:ILE:HG21	1.82	0.62
1:E:105:ARG:NH2	1:E:233:ASP:CG	2.55	0.62
1:E:252:THR:OG1	1:F:169:LYS:O	2.17	0.62
1:F:6:LEU:O	1:F:7:THR:C	2.40	0.62
1:F:39:ASN:ND2	1:F:42:PHE:CB	2.63	0.62
1:F:65:MET:HA	1:F:65:MET:HE3	1.82	0.62
1:F:399:LEU:HB3	1:F:402:GLU:HB2	1.81	0.62
1:G:39:ASN:ND2	1:G:42:PHE:CB	2.63	0.62
1:G:325:GLY:C	1:G:326:TYR:HD2	2.07	0.62
1:H:39:ASN:ND2	1:H:42:PHE:CB	2.63	0.62
1:H:65:MET:HA	1:H:65:MET:HE3	1.82	0.62
1:H:402:GLU:C	1:H:404:ALA:H	2.08	0.62
1:J:5:VAL:HG11	1:J:43:PHE:CZ	2.34	0.62
1:J:11:GLU:HA	1:J:11:GLU:OE1	1.99	0.62
1:J:92:LEU:HB3	1:J:97:LEU:N	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:233:ASP:CB	1:J:368:TYR:OH	2.47	0.62
1:K:418:LEU:HD13	1:K:443:ILE:HG23	1.81	0.62
1:L:454:ARG:HH11	1:L:454:ARG:HG2	1.63	0.62
1:A:71:ALA:CB	1:A:86:ILE:HG13	2.28	0.62
1:A:186:ASP:C	1:A:188:ALA:N	2.52	0.62
1:A:402:GLU:C	1:A:404:ALA:H	2.08	0.62
1:A:418:LEU:HD13	1:A:443:ILE:HG23	1.81	0.62
1:B:202:MET:HG2	1:B:237:ILE:HG21	1.82	0.62
1:D:465:TYR:HH	1:J:449:GLU:CD	2.04	0.62
1:E:16:PHE:HB2	1:E:82:ASP:HB3	1.82	0.62
1:E:202:MET:HG2	1:E:237:ILE:CG2	2.30	0.62
1:F:437:GLU:O	1:F:438:ALA:C	2.42	0.62
1:G:36:HIS:C	1:G:38:VAL:H	1.99	0.62
1:G:71:ALA:HB1	1:G:86:ILE:CG1	2.28	0.62
1:H:11:GLU:HA	1:H:11:GLU:OE1	1.99	0.62
1:H:20:ARG:CZ	1:H:86:ILE:CG2	2.76	0.62
1:H:169:LYS:O	1:I:252:THR:OG1	2.17	0.62
1:H:202:MET:HG2	1:H:237:ILE:HG21	1.82	0.62
1:H:437:GLU:O	1:H:438:ALA:C	2.42	0.62
1:I:16:PHE:HB2	1:I:82:ASP:HB3	1.81	0.62
1:I:403:GLU:H	1:I:405:LYS:HG2	1.64	0.62
1:K:454:ARG:HG2	1:K:454:ARG:HH11	1.64	0.62
1:A:39:ASN:ND2	1:A:42:PHE:CB	2.63	0.62
1:A:120:ILE:CD1	1:A:382:ILE:HG22	2.30	0.62
1:A:449:GLU:OE1	1:G:465:TYR:CE2	2.53	0.62
1:B:16:PHE:HB2	1:B:82:ASP:HB3	1.82	0.62
1:B:454:ARG:HH11	1:B:454:ARG:HG2	1.63	0.62
1:C:63:SER:OG	1:C:90:ASP:O	2.16	0.62
1:C:437:GLU:O	1:C:438:ALA:C	2.42	0.62
1:D:465:TYR:CE2	1:J:449:GLU:OE1	2.53	0.62
1:F:11:GLU:HA	1:F:11:GLU:OE1	1.99	0.62
1:F:314:PRO:O	1:F:315:THR:C	2.42	0.62
1:F:402:GLU:C	1:F:404:ALA:H	2.08	0.62
1:F:449:GLU:OE1	1:L:465:TYR:CE2	2.53	0.62
1:G:86:ILE:N	1:G:86:ILE:CD1	2.44	0.62
1:G:120:ILE:CD1	1:G:382:ILE:HG22	2.30	0.62
1:I:165:GLU:C	1:I:167:GLY:N	2.55	0.62
1:I:174:GLY:C	1:I:175:VAL:O	2.40	0.62
1:K:19:LEU:HD21	1:K:240:TYR:CE2	2.34	0.62
1:K:325:GLY:C	1:K:326:TYR:HD2	2.07	0.62
1:A:71:ALA:HB1	1:A:86:ILE:CG1	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:202:MET:HG2	1:A:237:ILE:HG21	1.82	0.61
1:A:465:TYR:CE2	1:G:449:GLU:OE1	2.53	0.61
1:B:39:ASN:ND2	1:B:42:PHE:CB	2.63	0.61
1:B:403:GLU:H	1:B:405:LYS:HG2	1.64	0.61
1:C:19:LEU:HD21	1:C:240:TYR:CE2	2.34	0.61
1:C:70:ASP:OD2	1:C:70:ASP:N	2.29	0.61
1:C:252:THR:OG1	1:D:169:LYS:O	2.17	0.61
1:C:325:GLY:C	1:C:326:TYR:HD2	2.07	0.61
1:C:449:GLU:OE1	1:I:465:TYR:CE2	2.53	0.61
1:E:5:VAL:HG11	1:E:43:PHE:CZ	2.34	0.61
1:F:85:LEU:C	1:F:85:LEU:HD12	2.25	0.61
1:G:65:MET:HA	1:G:65:MET:HE3	1.82	0.61
1:G:71:ALA:CB	1:G:86:ILE:HG13	2.28	0.61
1:G:402:GLU:C	1:G:404:ALA:H	2.08	0.61
1:H:6:LEU:O	1:H:7:THR:C	2.40	0.61
1:H:172:ARG:HB2	1:H:173:PRO:HD2	1.80	0.61
1:H:399:LEU:HB3	1:H:402:GLU:HB2	1.81	0.61
1:I:5:VAL:HG11	1:I:43:PHE:CZ	2.34	0.61
1:I:92:LEU:HB3	1:I:97:LEU:N	2.15	0.61
1:J:169:LYS:O	1:K:252:THR:OG1	2.17	0.61
1:K:11:GLU:HA	1:K:11:GLU:OE1	1.99	0.61
1:L:39:ASN:ND2	1:L:42:PHE:CB	2.63	0.61
1:A:65:MET:HA	1:A:65:MET:HE3	1.82	0.61
1:A:315:THR:CG2	1:G:465:TYR:HE2	2.04	0.61
1:A:437:GLU:O	1:A:438:ALA:C	2.42	0.61
1:B:19:LEU:HD12	1:B:20:ARG:HB2	1.80	0.61
1:B:465:TYR:CE2	1:H:449:GLU:OE1	2.53	0.61
1:D:399:LEU:CD2	1:D:402:GLU:HB2	2.30	0.61
1:E:39:ASN:ND2	1:E:42:PHE:CB	2.63	0.61
1:E:399:LEU:HB3	1:E:402:GLU:HB2	1.81	0.61
1:F:126:PHE:HD1	1:F:228:MET:HB3	1.65	0.61
1:F:172:ARG:HB2	1:F:173:PRO:HD2	1.80	0.61
1:F:202:MET:HG2	1:F:237:ILE:HG21	1.82	0.61
1:G:202:MET:HG2	1:G:237:ILE:HG21	1.82	0.61
1:H:314:PRO:O	1:H:315:THR:C	2.42	0.61
1:I:39:ASN:ND2	1:I:42:PHE:CB	2.63	0.61
1:I:85:LEU:C	1:I:85:LEU:HD12	2.25	0.61
1:I:105:ARG:NH2	1:I:233:ASP:CG	2.55	0.61
1:I:179:TYR:CA	1:I:181:PRO:HD3	2.30	0.61
1:I:233:ASP:CB	1:I:368:TYR:OH	2.47	0.61
1:J:399:LEU:CD2	1:J:402:GLU:HB2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:425:ARG:CD	1:K:439:ILE:HG21	2.31	0.61
1:K:437:GLU:O	1:K:438:ALA:C	2.42	0.61
1:L:19:LEU:HD12	1:L:20:ARG:HB2	1.80	0.61
1:L:120:ILE:CD1	1:L:382:ILE:HG22	2.30	0.61
1:A:65:MET:CE	1:A:65:MET:CA	2.75	0.61
1:A:179:TYR:CA	1:A:181:PRO:HD3	2.31	0.61
1:B:120:ILE:CD1	1:B:382:ILE:HG22	2.30	0.61
1:C:20:ARG:NH1	1:C:86:ILE:CG2	2.51	0.61
1:C:399:LEU:CD2	1:C:402:GLU:HB2	2.30	0.61
1:D:39:ASN:ND2	1:D:42:PHE:CB	2.63	0.61
1:D:92:LEU:HB3	1:D:97:LEU:N	2.15	0.61
1:D:449:GLU:OE1	1:J:465:TYR:CE2	2.54	0.61
1:E:85:LEU:C	1:E:85:LEU:HD12	2.26	0.61
1:E:92:LEU:HB3	1:E:97:LEU:N	2.15	0.61
1:E:179:TYR:CA	1:E:181:PRO:HD3	2.31	0.61
1:E:233:ASP:CB	1:E:368:TYR:OH	2.47	0.61
1:E:449:GLU:OE1	1:K:465:TYR:CE2	2.53	0.61
1:G:65:MET:CE	1:G:65:MET:CA	2.75	0.61
1:G:179:TYR:CA	1:G:181:PRO:HD3	2.31	0.61
1:H:126:PHE:HD1	1:H:228:MET:HB3	1.65	0.61
1:J:39:ASN:ND2	1:J:42:PHE:CB	2.63	0.61
1:J:85:LEU:C	1:J:85:LEU:HD12	2.25	0.61
1:J:163:LYS:HB2	1:J:163:LYS:HZ2	1.65	0.61
1:J:314:PRO:O	1:J:315:THR:C	2.42	0.61
1:K:63:SER:OG	1:K:90:ASP:O	2.16	0.61
1:K:70:ASP:OD2	1:K:70:ASP:N	2.30	0.61
1:K:287:TYR:O	1:K:290:LEU:HD12	2.00	0.61
1:A:16:PHE:HB2	1:A:82:ASP:HB3	1.82	0.61
1:B:128:PRO:HD2	1:B:231:LYS:HD3	1.83	0.61
1:B:179:TYR:CA	1:B:181:PRO:HD3	2.30	0.61
1:C:92:LEU:HD23	1:C:96:THR:H	1.65	0.61
1:C:233:ASP:CB	1:C:368:TYR:OH	2.48	0.61
1:C:287:TYR:O	1:C:290:LEU:HD12	2.00	0.61
1:C:425:ARG:CD	1:C:439:ILE:HG21	2.31	0.61
1:C:465:TYR:CE2	1:I:449:GLU:OE1	2.53	0.61
1:D:85:LEU:C	1:D:85:LEU:HD12	2.25	0.61
1:D:252:THR:OG1	1:E:169:LYS:O	2.17	0.61
1:E:314:PRO:O	1:E:315:THR:C	2.42	0.61
1:E:465:TYR:CE2	1:K:449:GLU:OE1	2.53	0.61
1:E:467:SER:OG	1:J:171:HIS:ND1	2.31	0.61
1:F:120:ILE:CD1	1:F:382:ILE:HG22	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:280:ASN:H	1:G:280:ASN:HD22	1.49	0.61
1:G:437:GLU:O	1:G:438:ALA:C	2.42	0.61
1:H:76:ILE:CG1	1:H:202:MET:HE1	2.30	0.61
1:I:314:PRO:O	1:I:315:THR:C	2.42	0.61
1:I:399:LEU:HB3	1:I:402:GLU:HB2	1.81	0.61
1:J:359:ARG:HH22	1:K:58:LYS:HE3	1.66	0.61
1:K:233:ASP:CB	1:K:368:TYR:OH	2.48	0.61
1:L:85:LEU:C	1:L:85:LEU:HD12	2.25	0.61
1:L:418:LEU:HD13	1:L:443:ILE:HG23	1.81	0.61
1:A:5:VAL:HG11	1:A:43:PHE:CZ	2.34	0.61
1:A:198:VAL:HA	1:A:201:GLN:HB3	1.83	0.61
1:A:280:ASN:H	1:A:280:ASN:HD22	1.49	0.61
1:A:314:PRO:O	1:A:315:THR:C	2.42	0.61
1:B:19:LEU:HD21	1:B:240:TYR:CE2	2.34	0.61
1:B:85:LEU:C	1:B:85:LEU:HD12	2.26	0.61
1:C:11:GLU:OE1	1:C:11:GLU:HA	2.00	0.61
1:C:19:LEU:HD12	1:C:20:ARG:HB2	1.80	0.61
1:C:58:LYS:HE3	1:D:359:ARG:HH22	1.66	0.61
1:D:79:PHE:CD1	1:D:80:PHE:HB2	2.36	0.61
1:D:179:TYR:CA	1:D:181:PRO:HD3	2.30	0.61
1:D:314:PRO:O	1:D:315:THR:C	2.42	0.61
1:F:5:VAL:HG11	1:F:43:PHE:CZ	2.34	0.61
1:F:16:PHE:HB2	1:F:82:ASP:HB3	1.82	0.61
1:G:5:VAL:HG11	1:G:43:PHE:CZ	2.34	0.61
1:G:16:PHE:HB2	1:G:82:ASP:HB3	1.82	0.61
1:G:198:VAL:HA	1:G:201:GLN:HB3	1.83	0.61
1:G:314:PRO:O	1:G:315:THR:C	2.42	0.61
1:G:407:ILE:HD13	1:G:408:PRO:N	2.15	0.61
1:H:85:LEU:C	1:H:85:LEU:HD12	2.26	0.61
1:I:169:LYS:O	1:J:252:THR:OG1	2.17	0.61
1:K:20:ARG:NH1	1:K:86:ILE:CG2	2.51	0.61
1:K:92:LEU:HD23	1:K:96:THR:H	1.66	0.61
1:K:380:ASP:HA	1:K:383:LYS:HB2	1.82	0.61
1:K:399:LEU:CD2	1:K:402:GLU:HB2	2.30	0.61
1:L:128:PRO:HD2	1:L:231:LYS:HD3	1.83	0.61
1:L:198:VAL:HA	1:L:201:GLN:HB3	1.83	0.61
1:A:20:ARG:CZ	1:A:86:ILE:CG2	2.76	0.61
1:A:128:PRO:HD2	1:A:231:LYS:HD3	1.83	0.61
1:A:202:MET:HG2	1:A:237:ILE:CG2	2.30	0.61
1:A:407:ILE:HD13	1:A:408:PRO:N	2.15	0.61
1:A:465:TYR:HE2	1:G:315:THR:CG2	2.04	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:287:TYR:O	1:B:290:LEU:HD12	2.00	0.61
1:B:315:THR:CG2	1:H:465:TYR:HE2	2.04	0.61
1:B:402:GLU:C	1:B:404:ALA:H	2.08	0.61
1:C:92:LEU:HB3	1:C:97:LEU:N	2.15	0.61
1:D:4:HIS:O	1:D:7:THR:N	2.34	0.61
1:D:407:ILE:HD13	1:D:408:PRO:N	2.15	0.61
1:E:42:PHE:CD2	1:E:66:VAL:HG21	2.36	0.61
1:F:1:SER:OG	1:F:2:ALA:N	2.34	0.61
1:F:76:ILE:CG1	1:F:202:MET:HE1	2.30	0.61
1:F:407:ILE:HD13	1:F:408:PRO:N	2.14	0.61
1:G:20:ARG:CZ	1:G:86:ILE:CG2	2.76	0.61
1:G:128:PRO:HD2	1:G:231:LYS:HD3	1.83	0.61
1:G:202:MET:HG2	1:G:237:ILE:CG2	2.30	0.61
1:H:120:ILE:CD1	1:H:382:ILE:HG22	2.30	0.61
1:H:128:PRO:HD2	1:H:231:LYS:HD3	1.83	0.61
1:H:202:MET:HG2	1:H:237:ILE:CG2	2.30	0.61
1:K:4:HIS:O	1:K:7:THR:N	2.34	0.61
1:K:19:LEU:HD12	1:K:20:ARG:HB2	1.80	0.61
1:K:79:PHE:CD1	1:K:80:PHE:HB2	2.36	0.61
1:K:92:LEU:HB3	1:K:97:LEU:N	2.15	0.61
1:K:126:PHE:HD1	1:K:228:MET:HB3	1.65	0.61
1:L:19:LEU:HD21	1:L:240:TYR:CE2	2.34	0.61
1:L:92:LEU:HD23	1:L:96:THR:H	1.65	0.61
1:L:179:TYR:CA	1:L:181:PRO:HD3	2.31	0.61
1:L:403:GLU:H	1:L:405:LYS:HG2	1.64	0.61
1:B:54:ILE:CD1	1:B:102:ARG:CD	2.73	0.61
1:B:92:LEU:HD23	1:B:96:THR:H	1.65	0.61
1:B:425:ARG:CD	1:B:439:ILE:HG21	2.31	0.61
1:C:4:HIS:O	1:C:7:THR:N	2.34	0.61
1:C:126:PHE:HD1	1:C:228:MET:HB3	1.64	0.61
1:C:407:ILE:HD13	1:C:408:PRO:N	2.15	0.61
1:D:425:ARG:CD	1:D:439:ILE:HG21	2.31	0.61
1:E:4:HIS:O	1:E:7:THR:N	2.34	0.61
1:F:128:PRO:HD2	1:F:231:LYS:HD3	1.83	0.61
1:F:198:VAL:HA	1:F:201:GLN:HB3	1.83	0.61
1:F:202:MET:HG2	1:F:237:ILE:CG2	2.30	0.61
1:G:339:ARG:O	1:G:340:SER:HB2	1.99	0.61
1:H:5:VAL:HG11	1:H:43:PHE:CZ	2.35	0.61
1:H:16:PHE:HB2	1:H:82:ASP:HB3	1.82	0.61
1:I:4:HIS:O	1:I:7:THR:N	2.34	0.61
1:I:42:PHE:CD2	1:I:66:VAL:HG21	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:71:ALA:CB	1:I:86:ILE:HG13	2.28	0.61
1:J:4:HIS:O	1:J:7:THR:N	2.34	0.61
1:J:79:PHE:CD1	1:J:80:PHE:HB2	2.36	0.61
1:J:399:LEU:HB3	1:J:402:GLU:HB2	1.81	0.61
1:J:407:ILE:HD13	1:J:408:PRO:N	2.14	0.61
1:K:407:ILE:HD13	1:K:408:PRO:N	2.14	0.61
1:L:287:TYR:O	1:L:290:LEU:HD12	2.00	0.61
1:L:402:GLU:C	1:L:404:ALA:H	2.08	0.61
1:A:339:ARG:O	1:A:340:SER:HB2	1.99	0.61
1:B:418:LEU:HD13	1:B:443:ILE:HG23	1.81	0.61
1:C:39:ASN:ND2	1:C:42:PHE:CB	2.63	0.61
1:C:380:ASP:HA	1:C:383:LYS:HB2	1.83	0.61
1:D:6:LEU:O	1:D:7:THR:C	2.41	0.61
1:D:19:LEU:HD13	1:D:240:TYR:CD1	2.34	0.61
1:D:42:PHE:CD2	1:D:66:VAL:HG21	2.36	0.61
1:E:174:GLY:C	1:E:175:VAL:O	2.40	0.61
1:F:20:ARG:CG	1:F:28:GLU:CD	2.60	0.61
1:F:425:ARG:CD	1:F:439:ILE:HG21	2.31	0.61
1:F:465:TYR:HE2	1:L:315:THR:CG2	2.04	0.61
1:H:1:SER:OG	1:H:2:ALA:N	2.34	0.61
1:H:380:ASP:HA	1:H:383:LYS:HB2	1.82	0.61
1:H:425:ARG:CD	1:H:439:ILE:HG21	2.31	0.61
1:I:128:PRO:HD2	1:I:231:LYS:HD3	1.83	0.61
1:I:425:ARG:CD	1:I:439:ILE:HG21	2.31	0.61
1:J:42:PHE:CD2	1:J:66:VAL:HG21	2.36	0.61
1:J:179:TYR:CA	1:J:181:PRO:HD3	2.31	0.61
1:J:377:ALA:O	1:J:380:ASP:N	2.34	0.61
1:J:425:ARG:CD	1:J:439:ILE:HG21	2.31	0.61
1:K:39:ASN:ND2	1:K:42:PHE:CB	2.63	0.61
1:K:198:VAL:HA	1:K:201:GLN:HB3	1.83	0.61
1:L:425:ARG:CD	1:L:439:ILE:HG21	2.31	0.61
1:A:42:PHE:CD2	1:A:66:VAL:HG21	2.36	0.61
1:B:198:VAL:HA	1:B:201:GLN:HB3	1.83	0.61
1:B:325:GLY:C	1:B:326:TYR:HD2	2.07	0.61
1:C:54:ILE:CD1	1:C:102:ARG:CD	2.73	0.61
1:C:191:ILE:H	1:C:191:ILE:HD12	1.66	0.61
1:C:198:VAL:HA	1:C:201:GLN:HB3	1.83	0.61
1:D:58:LYS:HE3	1:E:359:ARG:HH22	1.66	0.61
1:D:377:ALA:O	1:D:380:ASP:N	2.34	0.61
1:D:380:ASP:HA	1:D:383:LYS:HB2	1.82	0.61
1:E:128:PRO:HD2	1:E:231:LYS:HD3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:377:ALA:O	1:E:380:ASP:N	2.34	0.61
1:E:399:LEU:CD2	1:E:402:GLU:HB2	2.30	0.61
1:E:425:ARG:CD	1:E:439:ILE:HG21	2.31	0.61
1:F:196:CYS:O	1:F:197:LEU:C	2.44	0.61
1:G:42:PHE:CD2	1:G:66:VAL:HG21	2.36	0.61
1:H:42:PHE:CD2	1:H:66:VAL:HG21	2.36	0.61
1:H:198:VAL:HA	1:H:201:GLN:HB3	1.83	0.61
1:H:317:ASN:O	1:H:318:SER:C	2.44	0.61
1:H:407:ILE:HD13	1:H:408:PRO:N	2.15	0.61
1:J:19:LEU:HD13	1:J:240:TYR:CD1	2.35	0.61
1:J:120:ILE:CD1	1:J:382:ILE:HG22	2.30	0.61
1:L:325:GLY:C	1:L:326:TYR:HD2	2.07	0.61
1:A:4:HIS:O	1:A:7:THR:N	2.34	0.61
1:A:70:ASP:OD2	1:A:70:ASP:N	2.29	0.61
1:C:79:PHE:CD1	1:C:80:PHE:HB2	2.36	0.61
1:C:128:PRO:HD2	1:C:231:LYS:HD3	1.83	0.61
1:D:79:PHE:CG	1:D:80:PHE:CD1	2.84	0.61
1:D:120:ILE:CD1	1:D:382:ILE:HG22	2.30	0.61
1:D:287:TYR:O	1:D:290:LEU:HD12	2.00	0.61
1:D:399:LEU:HB3	1:D:402:GLU:HB2	1.81	0.61
1:E:317:ASN:O	1:E:318:SER:C	2.44	0.61
1:E:407:ILE:HD13	1:E:408:PRO:N	2.14	0.61
1:F:377:ALA:O	1:F:380:ASP:N	2.34	0.61
1:F:380:ASP:HA	1:F:383:LYS:HB2	1.82	0.61
1:I:359:ARG:HH22	1:J:58:LYS:HE3	1.66	0.61
1:I:399:LEU:CD2	1:I:402:GLU:HB2	2.30	0.61
1:J:6:LEU:O	1:J:7:THR:C	2.40	0.61
1:J:198:VAL:HA	1:J:201:GLN:HB3	1.83	0.61
1:L:54:ILE:CD1	1:L:102:ARG:CD	2.73	0.61
1:A:19:LEU:HD21	1:A:240:TYR:CE2	2.34	0.60
1:A:147:SER:O	1:A:148:HIS:HB3	2.01	0.60
1:B:4:HIS:O	1:B:7:THR:N	2.34	0.60
1:B:6:LEU:O	1:B:7:THR:C	2.41	0.60
1:B:96:THR:O	1:B:97:LEU:CG	2.46	0.60
1:C:120:ILE:CD1	1:C:382:ILE:HG22	2.30	0.60
1:C:402:GLU:C	1:C:404:ALA:H	2.08	0.60
1:D:345:ILE:CD1	1:D:345:ILE:N	2.31	0.60
1:E:20:ARG:HD2	1:E:237:ILE:HD13	1.83	0.60
1:E:283:SER:O	1:E:291:SER:CB	2.45	0.60
1:F:42:PHE:CD2	1:F:66:VAL:HG21	2.36	0.60
1:I:27:LYS:HZ3	1:I:239:LYS:HZ2	1.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:198:VAL:HA	1:I:201:GLN:HB3	1.83	0.60
1:I:283:SER:O	1:I:291:SER:CB	2.45	0.60
1:I:377:ALA:O	1:I:380:ASP:N	2.34	0.60
1:I:407:ILE:HD13	1:I:408:PRO:N	2.15	0.60
1:J:92:LEU:HD23	1:J:96:THR:H	1.65	0.60
1:J:287:TYR:O	1:J:290:LEU:HD12	2.00	0.60
1:K:20:ARG:HD2	1:K:237:ILE:HD13	1.84	0.60
1:K:54:ILE:CD1	1:K:102:ARG:CD	2.73	0.60
1:K:128:PRO:HD2	1:K:231:LYS:HD3	1.83	0.60
1:K:165:GLU:C	1:K:167:GLY:N	2.55	0.60
1:K:402:GLU:C	1:K:404:ALA:H	2.08	0.60
1:L:4:HIS:O	1:L:7:THR:N	2.34	0.60
1:L:20:ARG:CZ	1:L:86:ILE:CG2	2.75	0.60
1:L:223:THR:HG22	1:L:231:LYS:HZ3	1.65	0.60
1:A:85:LEU:C	1:A:85:LEU:HD12	2.25	0.60
1:A:425:ARG:CD	1:A:439:ILE:HG21	2.31	0.60
1:B:407:ILE:HD13	1:B:408:PRO:N	2.15	0.60
1:C:20:ARG:HD2	1:C:237:ILE:HD13	1.84	0.60
1:C:85:LEU:C	1:C:85:LEU:HD12	2.25	0.60
1:C:196:CYS:O	1:C:197:LEU:C	2.44	0.60
1:D:92:LEU:HD23	1:D:96:THR:H	1.65	0.60
1:D:96:THR:O	1:D:97:LEU:CG	2.46	0.60
1:D:147:SER:O	1:D:148:HIS:HB3	2.01	0.60
1:D:198:VAL:HA	1:D:201:GLN:HB3	1.83	0.60
1:D:402:GLU:C	1:D:404:ALA:H	2.08	0.60
1:E:198:VAL:HA	1:E:201:GLN:HB3	1.83	0.60
1:F:92:LEU:HB3	1:F:97:LEU:N	2.15	0.60
1:G:4:HIS:O	1:G:7:THR:N	2.34	0.60
1:G:19:LEU:HD21	1:G:240:TYR:CE2	2.34	0.60
1:G:70:ASP:OD2	1:G:70:ASP:N	2.29	0.60
1:G:103:ASP:CB	1:G:106:SER:HB2	2.32	0.60
1:G:147:SER:O	1:G:148:HIS:HB3	2.01	0.60
1:G:425:ARG:CD	1:G:439:ILE:HG21	2.31	0.60
1:H:92:LEU:HB3	1:H:97:LEU:N	2.15	0.60
1:H:196:CYS:O	1:H:197:LEU:C	2.44	0.60
1:J:79:PHE:CG	1:J:80:PHE:CD1	2.84	0.60
1:J:380:ASP:HA	1:J:383:LYS:HB2	1.83	0.60
1:K:120:ILE:CD1	1:K:382:ILE:HG22	2.30	0.60
1:K:196:CYS:O	1:K:197:LEU:C	2.44	0.60
1:L:407:ILE:HD13	1:L:408:PRO:N	2.14	0.60
1:L:451:ASP:O	1:L:452:ARG:C	2.42	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1:SER:OG	1:A:2:ALA:N	2.34	0.60
1:B:380:ASP:HA	1:B:383:LYS:HB2	1.82	0.60
1:C:165:GLU:C	1:C:167:GLY:N	2.55	0.60
1:C:179:TYR:CA	1:C:181:PRO:HD3	2.30	0.60
1:C:268:MET:N	1:C:363:PRO:HD3	2.17	0.60
1:E:65:MET:HA	1:E:65:MET:HE3	1.82	0.60
1:G:1:SER:OG	1:G:2:ALA:N	2.34	0.60
1:G:27:LYS:NZ	1:G:239:LYS:HZ2	1.87	0.60
1:H:54:ILE:CG1	1:H:102:ARG:NE	2.47	0.60
1:H:179:TYR:CA	1:H:181:PRO:HD3	2.30	0.60
1:H:339:ARG:O	1:H:340:SER:HB2	1.99	0.60
1:I:1:SER:OG	1:I:2:ALA:N	2.34	0.60
1:I:20:ARG:HD2	1:I:237:ILE:HD13	1.83	0.60
1:I:79:PHE:CD1	1:I:80:PHE:HB2	2.36	0.60
1:I:317:ASN:O	1:I:318:SER:C	2.44	0.60
1:J:96:THR:O	1:J:97:LEU:CG	2.46	0.60
1:J:223:THR:HG22	1:J:231:LYS:NZ	2.16	0.60
1:K:85:LEU:C	1:K:85:LEU:HD12	2.25	0.60
1:K:179:TYR:CA	1:K:181:PRO:HD3	2.31	0.60
1:K:268:MET:N	1:K:363:PRO:HD3	2.17	0.60
1:K:359:ARG:HH22	1:L:58:LYS:HE3	1.66	0.60
1:L:6:LEU:O	1:L:7:THR:C	2.41	0.60
1:L:96:THR:O	1:L:97:LEU:CG	2.46	0.60
1:L:191:ILE:HD12	1:L:191:ILE:H	1.66	0.60
1:L:380:ASP:HA	1:L:383:LYS:HB2	1.82	0.60
1:L:399:LEU:CD2	1:L:402:GLU:HB2	2.30	0.60
1:A:103:ASP:CB	1:A:106:SER:HB2	2.32	0.60
1:A:223:THR:HG22	1:A:231:LYS:NZ	2.16	0.60
1:B:42:PHE:CD2	1:B:66:VAL:HG21	2.36	0.60
1:B:58:LYS:HE3	1:C:359:ARG:HH22	1.66	0.60
1:B:76:ILE:CG1	1:B:202:MET:HE1	2.30	0.60
1:B:92:LEU:HB3	1:B:97:LEU:N	2.15	0.60
1:B:191:ILE:H	1:B:191:ILE:HD12	1.66	0.60
1:B:399:LEU:CD2	1:B:402:GLU:HB2	2.30	0.60
1:B:449:GLU:OE1	1:H:465:TYR:CE2	2.53	0.60
1:B:451:ASP:O	1:B:452:ARG:C	2.42	0.60
1:C:42:PHE:CD2	1:C:66:VAL:HG21	2.36	0.60
1:D:128:PRO:HD2	1:D:231:LYS:HD3	1.83	0.60
1:D:223:THR:HG22	1:D:231:LYS:NZ	2.16	0.60
1:E:79:PHE:CD1	1:E:80:PHE:HB2	2.36	0.60
1:E:402:GLU:C	1:E:404:ALA:H	2.08	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:178:GLY:O	1:F:179:TYR:CD1	2.54	0.60
1:G:85:LEU:C	1:G:85:LEU:HD12	2.25	0.60
1:G:92:LEU:HD23	1:G:96:THR:H	1.65	0.60
1:G:223:THR:HG22	1:G:231:LYS:NZ	2.16	0.60
1:H:20:ARG:HD2	1:H:237:ILE:HD13	1.83	0.60
1:H:79:PHE:CG	1:H:80:PHE:N	2.53	0.60
1:H:223:THR:HG22	1:H:231:LYS:NZ	2.16	0.60
1:H:377:ALA:O	1:H:380:ASP:N	2.34	0.60
1:I:6:LEU:O	1:I:7:THR:C	2.40	0.60
1:J:128:PRO:HD2	1:J:231:LYS:HD3	1.83	0.60
1:J:147:SER:O	1:J:148:HIS:HB3	2.02	0.60
1:J:264:ASN:O	1:J:265:GLY:C	2.44	0.60
1:K:191:ILE:H	1:K:191:ILE:HD12	1.66	0.60
1:L:79:PHE:CD1	1:L:80:PHE:HB2	2.36	0.60
1:L:92:LEU:HB3	1:L:97:LEU:N	2.15	0.60
1:L:120:ILE:HD13	1:L:382:ILE:CG2	2.32	0.60
1:L:280:ASN:H	1:L:280:ASN:HD22	1.49	0.60
1:A:196:CYS:O	1:A:197:LEU:C	2.44	0.60
1:B:20:ARG:CZ	1:B:86:ILE:CG2	2.76	0.60
1:B:120:ILE:HD13	1:B:382:ILE:CG2	2.32	0.60
1:B:280:ASN:H	1:B:280:ASN:HD22	1.49	0.60
1:B:377:ALA:O	1:B:380:ASP:N	2.34	0.60
1:D:196:CYS:O	1:D:197:LEU:C	2.44	0.60
1:E:6:LEU:O	1:E:7:THR:C	2.41	0.60
1:E:120:ILE:CD1	1:E:382:ILE:HG22	2.30	0.60
1:F:20:ARG:HD2	1:F:237:ILE:HD13	1.83	0.60
1:F:103:ASP:CB	1:F:106:SER:HB2	2.32	0.60
1:F:339:ARG:O	1:F:340:SER:HB2	1.99	0.60
1:F:465:TYR:CE2	1:L:449:GLU:OE1	2.53	0.60
1:F:467:SER:OG	1:K:171:HIS:ND1	2.31	0.60
1:H:103:ASP:CB	1:H:106:SER:HB2	2.32	0.60
1:H:157:ALA:H	1:H:215:THR:CG2	2.08	0.60
1:H:178:GLY:O	1:H:179:TYR:CD1	2.54	0.60
1:I:65:MET:HA	1:I:65:MET:HE3	1.82	0.60
1:I:178:GLY:O	1:I:179:TYR:CD1	2.54	0.60
1:I:196:CYS:O	1:I:197:LEU:C	2.44	0.60
1:J:196:CYS:O	1:J:197:LEU:C	2.44	0.60
1:J:402:GLU:C	1:J:404:ALA:H	2.08	0.60
1:K:42:PHE:CD2	1:K:66:VAL:HG21	2.36	0.60
1:L:42:PHE:CD2	1:L:66:VAL:HG21	2.36	0.60
1:L:76:ILE:CG1	1:L:202:MET:HE1	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:268:MET:N	1:L:363:PRO:HD3	2.17	0.60
1:A:178:GLY:O	1:A:179:TYR:CD1	2.54	0.60
1:B:79:PHE:CD1	1:B:80:PHE:HB2	2.36	0.60
1:B:268:MET:N	1:B:363:PRO:HD3	2.17	0.60
1:C:178:GLY:O	1:C:179:TYR:CD1	2.54	0.60
1:C:377:ALA:O	1:C:380:ASP:N	2.34	0.60
1:D:191:ILE:HD12	1:D:191:ILE:H	1.66	0.60
1:D:264:ASN:O	1:D:265:GLY:C	2.45	0.60
1:E:1:SER:OG	1:E:2:ALA:N	2.34	0.60
1:F:92:LEU:HD23	1:F:96:THR:H	1.65	0.60
1:G:65:MET:HB3	1:G:67:LEU:CD2	2.10	0.60
1:G:196:CYS:O	1:G:197:LEU:C	2.44	0.60
1:I:120:ILE:CD1	1:I:382:ILE:HG22	2.30	0.60
1:J:268:MET:N	1:J:363:PRO:HD3	2.17	0.60
1:L:92:LEU:CG	1:L:93:GLU:N	2.63	0.60
1:L:223:THR:HG22	1:L:231:LYS:NZ	2.16	0.60
1:A:92:LEU:HD23	1:A:96:THR:H	1.65	0.60
1:A:264:ASN:O	1:A:265:GLY:C	2.44	0.60
1:B:178:GLY:O	1:B:179:TYR:CD1	2.54	0.60
1:B:223:THR:HG22	1:B:231:LYS:NZ	2.16	0.60
1:C:2:ALA:O	1:C:6:LEU:CB	2.49	0.60
1:C:76:ILE:CG1	1:C:202:MET:HE1	2.30	0.60
1:D:36:HIS:C	1:D:38:VAL:H	1.99	0.60
1:D:178:GLY:O	1:D:179:TYR:CD1	2.54	0.60
1:D:268:MET:N	1:D:363:PRO:HD3	2.17	0.60
1:E:178:GLY:O	1:E:179:TYR:CD1	2.54	0.60
1:E:196:CYS:O	1:E:197:LEU:C	2.44	0.60
1:E:280:ASN:ND2	1:E:280:ASN:N	2.49	0.60
1:E:380:ASP:HA	1:E:383:LYS:HB2	1.82	0.60
1:H:68:MET:CE	1:H:88:ARG:CB	2.72	0.60
1:I:19:LEU:HD13	1:I:240:TYR:CD1	2.34	0.60
1:I:280:ASN:ND2	1:I:280:ASN:N	2.49	0.60
1:J:178:GLY:O	1:J:179:TYR:CD1	2.54	0.60
1:J:191:ILE:H	1:J:191:ILE:HD12	1.66	0.60
1:K:76:ILE:CG1	1:K:202:MET:HE1	2.30	0.60
1:K:178:GLY:O	1:K:179:TYR:CD1	2.54	0.60
1:K:377:ALA:O	1:K:380:ASP:N	2.34	0.60
1:L:65:MET:HB3	1:L:67:LEU:CD2	2.10	0.60
1:L:178:GLY:O	1:L:179:TYR:CD1	2.54	0.60
1:L:377:ALA:O	1:L:380:ASP:N	2.34	0.60
1:A:94:PRO:O	1:A:96:THR:HG23	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:103:ASP:CB	1:D:106:SER:HB2	2.32	0.60
1:E:126:PHE:HD1	1:E:228:MET:HB3	1.64	0.60
1:E:147:SER:O	1:E:148:HIS:HB3	2.02	0.60
1:F:27:LYS:HZ2	1:F:239:LYS:CE	2.14	0.60
1:F:157:ALA:H	1:F:215:THR:CG2	2.09	0.60
1:F:179:TYR:CA	1:F:181:PRO:HD3	2.31	0.60
1:G:76:ILE:CG1	1:G:202:MET:HE1	2.30	0.60
1:G:92:LEU:HB3	1:G:97:LEU:N	2.15	0.60
1:G:178:GLY:O	1:G:179:TYR:CD1	2.54	0.60
1:H:399:LEU:CD2	1:H:402:GLU:HB2	2.30	0.60
1:I:147:SER:O	1:I:148:HIS:HB3	2.01	0.60
1:I:380:ASP:HA	1:I:383:LYS:HB2	1.83	0.60
1:J:175:VAL:O	1:J:176:LYS:C	2.45	0.60
1:K:2:ALA:O	1:K:6:LEU:CB	2.49	0.60
1:L:20:ARG:H	1:L:30:HIS:HB3	1.67	0.60
1:L:20:ARG:HD2	1:L:237:ILE:HD13	1.83	0.60
1:A:92:LEU:HB3	1:A:97:LEU:N	2.15	0.60
1:B:65:MET:HA	1:B:65:MET:HE3	1.82	0.60
1:B:92:LEU:CG	1:B:93:GLU:N	2.63	0.60
1:B:103:ASP:CB	1:B:106:SER:HB2	2.32	0.60
1:C:103:ASP:CB	1:C:106:SER:HB2	2.32	0.60
1:D:13:GLU:C	1:D:14:VAL:HG13	2.27	0.60
1:D:175:VAL:O	1:D:176:LYS:C	2.45	0.60
1:F:4:HIS:O	1:F:7:THR:N	2.34	0.60
1:F:68:MET:CE	1:F:88:ARG:CB	2.72	0.60
1:F:280:ASN:H	1:F:280:ASN:HD22	1.49	0.60
1:F:399:LEU:CD2	1:F:402:GLU:HB2	2.30	0.60
1:G:264:ASN:O	1:G:265:GLY:C	2.45	0.60
1:G:399:LEU:CD2	1:G:402:GLU:HB2	2.30	0.60
1:H:4:HIS:O	1:H:7:THR:N	2.34	0.60
1:H:359:ARG:HH22	1:I:58:LYS:HE3	1.66	0.60
1:I:126:PHE:HD1	1:I:228:MET:HB3	1.64	0.60
1:I:223:THR:HG22	1:I:231:LYS:NZ	2.16	0.60
1:J:103:ASP:CB	1:J:106:SER:HB2	2.32	0.60
1:J:345:ILE:CD1	1:J:345:ILE:N	2.31	0.60
1:K:13:GLU:C	1:K:14:VAL:HG13	2.27	0.60
1:L:103:ASP:CB	1:L:106:SER:HB2	2.32	0.60
1:A:76:ILE:CG1	1:A:202:MET:HE1	2.30	0.60
1:A:191:ILE:H	1:A:191:ILE:HD12	1.66	0.60
1:A:399:LEU:CD2	1:A:402:GLU:HB2	2.30	0.60
1:B:20:ARG:HD2	1:B:237:ILE:HD13	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:63:SER:OG	1:D:90:ASP:O	2.16	0.60
1:E:58:LYS:HE3	1:F:359:ARG:HH22	1.66	0.60
1:E:223:THR:HG22	1:E:231:LYS:NZ	2.16	0.60
1:F:54:ILE:CG1	1:F:102:ARG:NE	2.47	0.60
1:G:20:ARG:H	1:G:30:HIS:HB3	1.67	0.60
1:G:79:PHE:CG	1:G:80:PHE:N	2.53	0.60
1:G:94:PRO:O	1:G:96:THR:HG23	2.02	0.60
1:G:175:VAL:O	1:G:176:LYS:C	2.45	0.60
1:H:92:LEU:HD23	1:H:96:THR:H	1.66	0.60
1:H:280:ASN:H	1:H:280:ASN:HD22	1.49	0.60
1:I:92:LEU:HD23	1:I:96:THR:H	1.65	0.60
1:I:402:GLU:C	1:I:404:ALA:H	2.08	0.60
1:J:13:GLU:C	1:J:14:VAL:HG13	2.27	0.60
1:K:6:LEU:O	1:K:7:THR:C	2.41	0.60
1:K:103:ASP:CB	1:K:106:SER:HB2	2.32	0.60
1:A:20:ARG:H	1:A:30:HIS:HB3	1.67	0.59
1:A:120:ILE:HD13	1:A:382:ILE:CG2	2.32	0.59
1:A:175:VAL:O	1:A:176:LYS:C	2.45	0.59
1:A:268:MET:N	1:A:363:PRO:HD3	2.17	0.59
1:A:377:ALA:O	1:A:380:ASP:N	2.34	0.59
1:B:20:ARG:H	1:B:30:HIS:HB3	1.67	0.59
1:B:65:MET:HB3	1:B:67:LEU:CD2	2.10	0.59
1:B:214:ALA:HA	1:B:263:ASP:OD2	2.02	0.59
1:C:6:LEU:O	1:C:7:THR:C	2.40	0.59
1:C:13:GLU:C	1:C:14:VAL:HG13	2.27	0.59
1:C:147:SER:O	1:C:148:HIS:HB3	2.01	0.59
1:C:175:VAL:O	1:C:176:LYS:C	2.45	0.59
1:D:20:ARG:H	1:D:30:HIS:HB3	1.67	0.59
1:E:92:LEU:HD23	1:E:96:THR:H	1.66	0.59
1:E:103:ASP:CB	1:E:106:SER:HB2	2.32	0.59
1:F:79:PHE:CG	1:F:80:PHE:N	2.53	0.59
1:G:280:ASN:C	1:G:282:PHE:N	2.51	0.59
1:G:377:ALA:O	1:G:380:ASP:N	2.34	0.59
1:H:147:SER:O	1:H:148:HIS:HB3	2.01	0.59
1:I:13:GLU:C	1:I:14:VAL:HG13	2.27	0.59
1:J:280:ASN:ND2	1:J:280:ASN:N	2.49	0.59
1:K:65:MET:HA	1:K:65:MET:HE3	1.82	0.59
1:K:175:VAL:O	1:K:176:LYS:C	2.45	0.59
1:K:296:TYR:CD2	1:K:296:TYR:N	2.70	0.59
1:L:65:MET:HA	1:L:65:MET:HE3	1.82	0.59
1:L:296:TYR:N	1:L:296:TYR:CD2	2.70	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:339:ARG:O	1:L:340:SER:HB2	1.99	0.59
1:A:65:MET:HB3	1:A:67:LEU:CD2	2.10	0.59
1:A:79:PHE:CD1	1:A:80:PHE:HB2	2.36	0.59
1:A:280:ASN:C	1:A:282:PHE:N	2.51	0.59
1:A:317:ASN:O	1:A:318:SER:C	2.44	0.59
1:B:28:GLU:C	1:B:29:GLN:HG2	2.27	0.59
1:B:94:PRO:O	1:B:96:THR:HG23	2.02	0.59
1:B:165:GLU:C	1:B:167:GLY:H	2.08	0.59
1:B:175:VAL:O	1:B:176:LYS:C	2.45	0.59
1:B:296:TYR:CD2	1:B:296:TYR:N	2.70	0.59
1:C:65:MET:HA	1:C:65:MET:HE3	1.82	0.59
1:C:171:HIS:ND1	1:H:467:SER:OG	2.31	0.59
1:C:214:ALA:HA	1:C:263:ASP:OD2	2.02	0.59
1:C:264:ASN:O	1:C:265:GLY:C	2.44	0.59
1:C:296:TYR:CD2	1:C:296:TYR:N	2.70	0.59
1:D:214:ALA:HA	1:D:263:ASP:OD2	2.03	0.59
1:D:350:SER:C	1:D:352:LYS:N	2.55	0.59
1:E:19:LEU:HD13	1:E:240:TYR:CD1	2.35	0.59
1:F:79:PHE:CD1	1:F:80:PHE:HB2	2.36	0.59
1:F:223:THR:HG22	1:F:231:LYS:NZ	2.16	0.59
1:G:79:PHE:CD1	1:G:80:PHE:HB2	2.36	0.59
1:G:191:ILE:H	1:G:191:ILE:HD12	1.66	0.59
1:H:20:ARG:H	1:H:30:HIS:HB3	1.67	0.59
1:H:79:PHE:CD1	1:H:80:PHE:HB2	2.36	0.59
1:I:103:ASP:CB	1:I:106:SER:HB2	2.32	0.59
1:I:379:LEU:HD12	1:I:380:ASP:H	1.68	0.59
1:J:20:ARG:H	1:J:30:HIS:HB3	1.67	0.59
1:J:36:HIS:C	1:J:38:VAL:H	2.00	0.59
1:K:102:ARG:HB2	1:K:104:PRO:CD	2.11	0.59
1:K:147:SER:O	1:K:148:HIS:HB3	2.01	0.59
1:L:19:LEU:HD13	1:L:240:TYR:CD1	2.35	0.59
1:L:94:PRO:O	1:L:96:THR:HG23	2.02	0.59
1:B:147:SER:O	1:B:148:HIS:HB3	2.01	0.59
1:C:94:PRO:O	1:C:96:THR:HG23	2.02	0.59
1:D:126:PHE:HD1	1:D:228:MET:HB3	1.64	0.59
1:E:13:GLU:C	1:E:14:VAL:HG13	2.27	0.59
1:E:379:LEU:HD12	1:E:380:ASP:H	1.68	0.59
1:F:20:ARG:H	1:F:30:HIS:HB3	1.67	0.59
1:G:268:MET:N	1:G:363:PRO:HD3	2.17	0.59
1:G:359:ARG:HH22	1:H:58:LYS:HE3	1.66	0.59
1:I:268:MET:N	1:I:363:PRO:HD3	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:63:SER:OG	1:J:90:ASP:O	2.16	0.59
1:J:126:PHE:HD1	1:J:228:MET:HB3	1.65	0.59
1:K:94:PRO:O	1:K:96:THR:HG23	2.02	0.59
1:L:175:VAL:O	1:L:176:LYS:C	2.45	0.59
1:A:63:SER:OG	1:A:90:ASP:O	2.16	0.59
1:A:359:ARG:HH22	1:F:58:LYS:HE3	1.66	0.59
1:B:19:LEU:HD13	1:B:240:TYR:CD1	2.34	0.59
1:B:165:GLU:C	1:B:167:GLY:N	2.55	0.59
1:D:1:SER:OG	1:D:2:ALA:N	2.34	0.59
1:D:2:ALA:O	1:D:6:LEU:CB	2.49	0.59
1:D:280:ASN:ND2	1:D:280:ASN:N	2.49	0.59
1:E:18:ASP:O	1:E:20:ARG:O	2.21	0.59
1:F:120:ILE:HD13	1:F:382:ILE:CG2	2.32	0.59
1:G:120:ILE:HD13	1:G:382:ILE:CG2	2.32	0.59
1:G:317:ASN:O	1:G:318:SER:C	2.44	0.59
1:G:380:ASP:HA	1:G:383:LYS:HB2	1.83	0.59
1:I:18:ASP:O	1:I:20:ARG:O	2.21	0.59
1:J:2:ALA:O	1:J:6:LEU:CB	2.49	0.59
1:J:155:GLU:O	1:J:156:GLY:C	2.46	0.59
1:J:214:ALA:HA	1:J:263:ASP:OD2	2.03	0.59
1:J:350:SER:C	1:J:352:LYS:N	2.55	0.59
1:J:359:ARG:O	1:J:360:PHE:HB3	2.02	0.59
1:K:28:GLU:C	1:K:29:GLN:HG2	2.27	0.59
1:K:365:ALA:O	1:K:367:PRO:HD3	2.03	0.59
1:L:28:GLU:C	1:L:29:GLN:HG2	2.27	0.59
1:L:147:SER:O	1:L:148:HIS:HB3	2.01	0.59
1:L:214:ALA:HA	1:L:263:ASP:OD2	2.03	0.59
1:A:380:ASP:HA	1:A:383:LYS:HB2	1.83	0.59
1:B:13:GLU:C	1:B:14:VAL:HG13	2.27	0.59
1:B:339:ARG:O	1:B:340:SER:HB2	1.99	0.59
1:C:365:ALA:O	1:C:367:PRO:HD3	2.03	0.59
1:D:171:HIS:ND1	1:I:467:SER:OG	2.31	0.59
1:D:296:TYR:N	1:D:296:TYR:CD2	2.70	0.59
1:E:268:MET:N	1:E:363:PRO:HD3	2.17	0.59
1:F:147:SER:O	1:F:148:HIS:HB3	2.02	0.59
1:F:280:ASN:C	1:F:282:PHE:N	2.51	0.59
1:H:13:GLU:C	1:H:14:VAL:HG13	2.27	0.59
1:H:120:ILE:HD13	1:H:382:ILE:CG2	2.32	0.59
1:H:379:LEU:HD12	1:H:380:ASP:H	1.67	0.59
1:I:120:ILE:HD13	1:I:382:ILE:CG2	2.31	0.59
1:I:350:SER:C	1:I:352:LYS:N	2.55	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1:SER:OG	1:J:2:ALA:N	2.34	0.59
1:J:65:MET:HB3	1:J:67:LEU:CD2	2.10	0.59
1:J:296:TYR:CD2	1:J:296:TYR:N	2.70	0.59
1:K:20:ARG:H	1:K:30:HIS:HB3	1.67	0.59
1:K:264:ASN:O	1:K:265:GLY:C	2.45	0.59
1:A:79:PHE:CG	1:A:80:PHE:N	2.53	0.59
1:A:223:THR:HG22	1:A:231:LYS:HZ3	1.65	0.59
1:B:18:ASP:O	1:B:20:ARG:O	2.21	0.59
1:C:280:ASN:ND2	1:C:280:ASN:N	2.49	0.59
1:C:317:ASN:O	1:C:318:SER:C	2.44	0.59
1:C:366:ASN:C	1:C:368:TYR:N	2.57	0.59
1:C:465:TYR:CD2	1:I:315:THR:HG23	1.94	0.59
1:D:155:GLU:O	1:D:156:GLY:C	2.46	0.59
1:D:359:ARG:O	1:D:360:PHE:HB3	2.02	0.59
1:D:379:LEU:HD12	1:D:380:ASP:H	1.68	0.59
1:D:465:TYR:CE2	1:J:449:GLU:CD	2.81	0.59
1:E:350:SER:C	1:E:352:LYS:N	2.55	0.59
1:E:464:LEU:HD23	1:E:465:TYR:H	1.67	0.59
1:F:414:LEU:C	1:F:414:LEU:CD2	2.76	0.59
1:G:18:ASP:O	1:G:20:ARG:O	2.21	0.59
1:G:36:HIS:C	1:G:38:VAL:N	2.60	0.59
1:G:398:ASP:O	1:G:402:GLU:HB3	2.03	0.59
1:G:414:LEU:C	1:G:414:LEU:CD2	2.76	0.59
1:H:92:LEU:CG	1:H:93:GLU:N	2.63	0.59
1:H:414:LEU:C	1:H:414:LEU:CD2	2.76	0.59
1:I:191:ILE:H	1:I:191:ILE:HD12	1.66	0.59
1:J:379:LEU:HD12	1:J:380:ASP:H	1.68	0.59
1:K:280:ASN:ND2	1:K:280:ASN:N	2.49	0.59
1:L:18:ASP:O	1:L:20:ARG:O	2.21	0.59
1:A:18:ASP:O	1:A:20:ARG:O	2.21	0.59
1:A:214:ALA:HA	1:A:263:ASP:OD2	2.03	0.59
1:A:398:ASP:O	1:A:402:GLU:HB3	2.03	0.59
1:A:414:LEU:C	1:A:414:LEU:CD2	2.76	0.59
1:C:28:GLU:C	1:C:29:GLN:HG2	2.27	0.59
1:C:223:THR:HG22	1:C:231:LYS:NZ	2.16	0.59
1:D:18:ASP:O	1:D:20:ARG:O	2.21	0.59
1:D:65:MET:HB3	1:D:67:LEU:CD2	2.10	0.59
1:D:65:MET:HA	1:D:65:MET:HE3	1.82	0.59
1:D:299:GLY:HA3	1:D:386:ILE:HG23	1.85	0.59
1:D:365:ALA:O	1:D:367:PRO:HD3	2.03	0.59
1:D:449:GLU:CD	1:J:465:TYR:CE2	2.81	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:454:ARG:HG2	1:D:454:ARG:NH1	2.18	0.59
1:E:191:ILE:H	1:E:191:ILE:HD12	1.66	0.59
1:E:264:ASN:O	1:E:265:GLY:C	2.44	0.59
1:F:18:ASP:O	1:F:20:ARG:O	2.21	0.59
1:F:125:LEU:HD12	1:F:225:PHE:CD2	2.38	0.59
1:F:191:ILE:H	1:F:191:ILE:HD12	1.66	0.59
1:G:63:SER:OG	1:G:90:ASP:O	2.16	0.59
1:G:365:ALA:O	1:G:367:PRO:HD3	2.03	0.59
1:H:27:LYS:HZ3	1:H:239:LYS:HZ1	0.74	0.59
1:H:283:SER:O	1:H:291:SER:CB	2.45	0.59
1:I:299:GLY:HA3	1:I:386:ILE:HG23	1.85	0.59
1:I:427:PHE:CE2	1:I:428:LEU:HD22	2.38	0.59
1:I:464:LEU:HD23	1:I:465:TYR:H	1.67	0.59
1:J:379:LEU:O	1:J:383:LYS:N	2.20	0.59
1:J:454:ARG:HG2	1:J:454:ARG:NH1	2.18	0.59
1:K:317:ASN:O	1:K:318:SER:C	2.44	0.59
1:K:366:ASN:C	1:K:368:TYR:N	2.57	0.59
1:L:13:GLU:C	1:L:14:VAL:HG13	2.27	0.59
1:A:96:THR:O	1:A:97:LEU:CG	2.46	0.59
1:A:296:TYR:N	1:A:296:TYR:CD2	2.70	0.59
1:A:365:ALA:O	1:A:367:PRO:HD3	2.03	0.59
1:B:196:CYS:O	1:B:197:LEU:C	2.44	0.59
1:B:359:ARG:O	1:B:360:PHE:HB3	2.02	0.59
1:B:366:ASN:C	1:B:368:TYR:N	2.57	0.59
1:C:20:ARG:H	1:C:30:HIS:HB3	1.67	0.59
1:C:57:TRP:CD1	1:C:57:TRP:C	2.81	0.59
1:D:20:ARG:HD2	1:D:237:ILE:HD13	1.83	0.59
1:D:165:GLU:C	1:D:167:GLY:N	2.55	0.59
1:E:299:GLY:HA3	1:E:386:ILE:HG23	1.85	0.59
1:E:427:PHE:CE2	1:E:428:LEU:HD22	2.38	0.59
1:F:92:LEU:CG	1:F:93:GLU:N	2.63	0.59
1:F:175:VAL:O	1:F:176:LYS:C	2.45	0.59
1:F:283:SER:O	1:F:291:SER:CB	2.45	0.59
1:F:365:ALA:O	1:F:367:PRO:HD3	2.03	0.59
1:G:214:ALA:HA	1:G:263:ASP:OD2	2.03	0.59
1:G:296:TYR:CD2	1:G:296:TYR:N	2.70	0.59
1:G:454:ARG:HG2	1:G:454:ARG:NH1	2.18	0.59
1:H:18:ASP:O	1:H:20:ARG:O	2.21	0.59
1:H:57:TRP:CD1	1:H:57:TRP:C	2.81	0.59
1:H:191:ILE:HD12	1:H:191:ILE:H	1.66	0.59
1:I:20:ARG:H	1:I:30:HIS:HB3	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:214:ALA:HA	1:I:263:ASP:OD2	2.02	0.59
1:I:264:ASN:O	1:I:265:GLY:C	2.44	0.59
1:I:359:ARG:O	1:I:360:PHE:HB3	2.02	0.59
1:J:18:ASP:O	1:J:20:ARG:O	2.21	0.59
1:J:20:ARG:HD2	1:J:237:ILE:HD13	1.84	0.59
1:J:398:ASP:O	1:J:402:GLU:HB3	2.03	0.59
1:K:57:TRP:CD1	1:K:57:TRP:C	2.81	0.59
1:K:214:ALA:HA	1:K:263:ASP:OD2	2.03	0.59
1:K:223:THR:HG22	1:K:231:LYS:NZ	2.16	0.59
1:K:398:ASP:O	1:K:402:GLU:HB3	2.03	0.59
1:K:454:ARG:HG2	1:K:454:ARG:NH1	2.18	0.59
1:L:359:ARG:O	1:L:360:PHE:HB3	2.02	0.59
1:A:359:ARG:O	1:A:360:PHE:HB3	2.02	0.59
1:B:1:SER:OG	1:B:2:ALA:N	2.34	0.59
1:B:264:ASN:O	1:B:265:GLY:C	2.44	0.59
1:C:359:ARG:O	1:C:360:PHE:HB3	2.03	0.59
1:D:28:GLU:C	1:D:29:GLN:HG2	2.27	0.59
1:E:20:ARG:H	1:E:30:HIS:HB3	1.67	0.59
1:E:120:ILE:HD13	1:E:382:ILE:CG2	2.32	0.59
1:E:125:LEU:HD12	1:E:225:PHE:CD2	2.38	0.59
1:E:359:ARG:O	1:E:360:PHE:HB3	2.03	0.59
1:F:13:GLU:C	1:F:14:VAL:HG13	2.27	0.59
1:F:268:MET:N	1:F:363:PRO:HD3	2.17	0.59
1:H:365:ALA:O	1:H:367:PRO:HD3	2.03	0.59
1:I:125:LEU:HD12	1:I:225:PHE:CD2	2.38	0.59
1:I:309:ASN:HB2	1:I:313:ASN:ND2	2.18	0.59
1:J:28:GLU:C	1:J:29:GLN:HG2	2.27	0.59
1:J:165:GLU:C	1:J:167:GLY:N	2.55	0.59
1:J:365:ALA:O	1:J:367:PRO:HD3	2.03	0.59
1:K:120:ILE:HD13	1:K:382:ILE:CG2	2.32	0.59
1:L:1:SER:OG	1:L:2:ALA:N	2.34	0.59
1:L:165:GLU:C	1:L:167:GLY:N	2.55	0.59
1:L:264:ASN:O	1:L:265:GLY:C	2.44	0.59
1:L:317:ASN:O	1:L:318:SER:C	2.44	0.59
1:A:376:MET:CE	1:A:433:VAL:HG21	2.33	0.59
1:A:449:GLU:CD	1:G:465:TYR:CE2	2.81	0.59
1:A:465:TYR:CE2	1:G:449:GLU:CD	2.81	0.59
1:B:171:HIS:ND1	1:G:467:SER:OG	2.31	0.59
1:B:317:ASN:O	1:B:318:SER:C	2.44	0.59
1:B:398:ASP:O	1:B:402:GLU:HB3	2.03	0.59
1:B:465:TYR:CE2	1:H:449:GLU:CD	2.81	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:63:SER:HG	1:C:91:ILE:HG22	1.67	0.59
1:C:120:ILE:HD13	1:C:382:ILE:CG2	2.32	0.59
1:C:398:ASP:O	1:C:402:GLU:HB3	2.03	0.59
1:D:309:ASN:HB2	1:D:313:ASN:ND2	2.18	0.59
1:D:376:MET:CE	1:D:433:VAL:HG21	2.33	0.59
1:D:398:ASP:O	1:D:402:GLU:HB3	2.03	0.59
1:E:315:THR:HG23	1:K:465:TYR:CD2	1.94	0.59
1:F:57:TRP:CD1	1:F:57:TRP:C	2.81	0.59
1:F:299:GLY:HA3	1:F:386:ILE:HG23	1.85	0.59
1:F:379:LEU:HD12	1:F:380:ASP:H	1.68	0.59
1:F:449:GLU:CD	1:L:465:TYR:CE2	2.81	0.59
1:H:125:LEU:HD12	1:H:225:PHE:CD2	2.38	0.59
1:H:175:VAL:O	1:H:176:LYS:C	2.45	0.59
1:H:296:TYR:CD2	1:H:296:TYR:N	2.70	0.59
1:H:399:LEU:O	1:H:402:GLU:HB3	2.03	0.59
1:I:280:ASN:H	1:I:280:ASN:HD22	1.49	0.59
1:J:309:ASN:HB2	1:J:313:ASN:ND2	2.18	0.59
1:L:309:ASN:HB2	1:L:313:ASN:ND2	2.18	0.59
1:L:398:ASP:O	1:L:402:GLU:HB3	2.03	0.59
1:A:454:ARG:HG2	1:A:454:ARG:NH1	2.18	0.58
1:A:467:SER:OG	1:L:171:HIS:ND1	2.31	0.58
1:B:309:ASN:HB2	1:B:313:ASN:ND2	2.18	0.58
1:C:18:ASP:O	1:C:20:ARG:O	2.21	0.58
1:C:280:ASN:H	1:C:280:ASN:HD22	1.48	0.58
1:D:283:SER:O	1:D:291:SER:CB	2.45	0.58
1:E:309:ASN:HB2	1:E:313:ASN:ND2	2.18	0.58
1:F:214:ALA:HA	1:F:263:ASP:OD2	2.03	0.58
1:F:264:ASN:O	1:F:265:GLY:C	2.44	0.58
1:F:296:TYR:CD2	1:F:296:TYR:N	2.70	0.58
1:F:338:ASN:ND2	1:F:395:ASN:H	1.98	0.58
1:F:359:ARG:O	1:F:360:PHE:HB3	2.02	0.58
1:F:366:ASN:C	1:F:368:TYR:N	2.57	0.58
1:G:58:LYS:HE3	1:L:359:ARG:HH22	1.66	0.58
1:G:338:ASN:ND2	1:G:395:ASN:H	1.99	0.58
1:G:359:ARG:O	1:G:360:PHE:HB3	2.02	0.58
1:G:376:MET:CE	1:G:433:VAL:HG21	2.33	0.58
1:H:19:LEU:HD13	1:H:240:TYR:CD1	2.34	0.58
1:H:28:GLU:C	1:H:29:GLN:HG2	2.27	0.58
1:H:214:ALA:HA	1:H:263:ASP:OD2	2.02	0.58
1:H:268:MET:N	1:H:363:PRO:HD3	2.17	0.58
1:H:299:GLY:HA3	1:H:386:ILE:HG23	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:366:ASN:C	1:H:368:TYR:N	2.57	0.58
1:J:65:MET:HA	1:J:65:MET:HE3	1.82	0.58
1:J:283:SER:O	1:J:291:SER:CB	2.45	0.58
1:K:280:ASN:H	1:K:280:ASN:HD22	1.49	0.58
1:K:359:ARG:O	1:K:360:PHE:HB3	2.03	0.58
1:L:57:TRP:CD1	1:L:57:TRP:C	2.81	0.58
1:L:165:GLU:C	1:L:167:GLY:H	2.09	0.58
1:L:196:CYS:O	1:L:197:LEU:C	2.44	0.58
1:L:365:ALA:O	1:L:367:PRO:HD3	2.03	0.58
1:A:58:LYS:HE3	1:B:359:ARG:HH22	1.66	0.58
1:A:338:ASN:ND2	1:A:395:ASN:H	1.99	0.58
1:B:57:TRP:CD1	1:B:57:TRP:C	2.81	0.58
1:D:27:LYS:HZ2	1:D:239:LYS:CE	2.13	0.58
1:D:120:ILE:HD13	1:D:382:ILE:CG2	2.32	0.58
1:D:379:LEU:O	1:D:383:LYS:N	2.20	0.58
1:D:427:PHE:CE2	1:D:428:LEU:HD22	2.38	0.58
1:E:94:PRO:O	1:E:96:THR:HG23	2.02	0.58
1:F:28:GLU:C	1:F:29:GLN:HG2	2.27	0.58
1:F:94:PRO:O	1:F:96:THR:HG23	2.02	0.58
1:F:167:GLY:O	1:F:169:LYS:CD	2.52	0.58
1:G:20:ARG:HD2	1:G:237:ILE:HD13	1.83	0.58
1:G:96:THR:O	1:G:97:LEU:CG	2.46	0.58
1:H:167:GLY:O	1:H:169:LYS:CD	2.52	0.58
1:H:414:LEU:O	1:H:417:ALA:N	2.36	0.58
1:H:435:THR:HG22	1:H:436:ASP:N	2.19	0.58
1:I:157:ALA:H	1:I:215:THR:CG2	2.08	0.58
1:I:366:ASN:C	1:I:368:TYR:N	2.57	0.58
1:J:299:GLY:HA3	1:J:386:ILE:HG23	1.85	0.58
1:K:18:ASP:O	1:K:20:ARG:O	2.21	0.58
1:K:65:MET:HB3	1:K:67:LEU:CD2	2.10	0.58
1:K:376:MET:CE	1:K:433:VAL:HG21	2.33	0.58
1:L:155:GLU:O	1:L:156:GLY:C	2.46	0.58
1:L:427:PHE:CE2	1:L:428:LEU:HD22	2.38	0.58
1:A:92:LEU:CG	1:A:93:GLU:N	2.63	0.58
1:A:163:LYS:HA	1:F:139:ARG:HD2	1.85	0.58
1:A:461:GLU:OE1	1:G:317:ASN:HA	2.04	0.58
1:B:36:HIS:C	1:B:38:VAL:N	2.60	0.58
1:B:427:PHE:CE2	1:B:428:LEU:HD22	2.38	0.58
1:C:36:HIS:C	1:C:38:VAL:N	2.60	0.58
1:C:376:MET:CE	1:C:433:VAL:HG21	2.33	0.58
1:C:449:GLU:CD	1:I:465:TYR:CE2	2.81	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:465:TYR:CE2	1:I:449:GLU:CD	2.81	0.58
1:D:125:LEU:HD12	1:D:225:PHE:CD2	2.38	0.58
1:E:28:GLU:C	1:E:29:GLN:HG2	2.27	0.58
1:E:167:GLY:O	1:E:169:LYS:CD	2.52	0.58
1:E:280:ASN:H	1:E:280:ASN:HD22	1.49	0.58
1:E:449:GLU:CD	1:K:465:TYR:CE2	2.81	0.58
1:F:19:LEU:HD13	1:F:240:TYR:CD1	2.35	0.58
1:F:228:MET:O	1:F:229:THR:C	2.46	0.58
1:F:399:LEU:O	1:F:402:GLU:HB3	2.04	0.58
1:F:414:LEU:O	1:F:417:ALA:N	2.37	0.58
1:F:449:GLU:CD	1:L:465:TYR:HH	2.02	0.58
1:F:461:GLU:OE1	1:L:317:ASN:HA	2.04	0.58
1:G:28:GLU:C	1:G:29:GLN:HG2	2.27	0.58
1:G:163:LYS:HA	1:H:139:ARG:HD2	1.85	0.58
1:G:379:LEU:HD12	1:G:380:ASP:H	1.67	0.58
1:H:19:LEU:HD22	1:H:240:TYR:HH	1.67	0.58
1:H:94:PRO:O	1:H:96:THR:HG23	2.02	0.58
1:H:228:MET:O	1:H:229:THR:C	2.46	0.58
1:H:264:ASN:O	1:H:265:GLY:C	2.45	0.58
1:H:338:ASN:ND2	1:H:395:ASN:H	1.99	0.58
1:H:359:ARG:O	1:H:360:PHE:HB3	2.03	0.58
1:I:28:GLU:C	1:I:29:GLN:HG2	2.27	0.58
1:I:94:PRO:O	1:I:96:THR:HG23	2.02	0.58
1:I:167:GLY:O	1:I:169:LYS:CD	2.52	0.58
1:I:339:ARG:O	1:I:340:SER:HB2	1.99	0.58
1:J:120:ILE:HD13	1:J:382:ILE:CG2	2.32	0.58
1:J:376:MET:CE	1:J:433:VAL:HG21	2.34	0.58
1:J:427:PHE:CE2	1:J:428:LEU:HD22	2.38	0.58
1:K:379:LEU:HD12	1:K:380:ASP:H	1.67	0.58
1:L:63:SER:HG	1:L:91:ILE:HG22	1.68	0.58
1:A:13:GLU:C	1:A:14:VAL:HG13	2.27	0.58
1:A:20:ARG:HD2	1:A:237:ILE:HD13	1.83	0.58
1:A:28:GLU:C	1:A:29:GLN:HG2	2.27	0.58
1:A:299:GLY:HA3	1:A:386:ILE:HG23	1.85	0.58
1:A:414:LEU:O	1:A:417:ALA:N	2.37	0.58
1:B:365:ALA:O	1:B:367:PRO:HD3	2.03	0.58
1:C:39:ASN:HD22	1:C:40:ALA:N	2.01	0.58
1:D:199:MET:HB3	1:D:204:LEU:HD12	1.86	0.58
1:D:321:ARG:C	1:D:323:VAL:H	2.11	0.58
1:E:57:TRP:HD1	1:E:58:LYS:H	1.51	0.58
1:E:214:ALA:HA	1:E:263:ASP:OD2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:339:ARG:O	1:E:340:SER:HB2	1.99	0.58
1:E:365:ALA:O	1:E:367:PRO:HD3	2.03	0.58
1:E:366:ASN:C	1:E:368:TYR:N	2.57	0.58
1:E:376:MET:CE	1:E:433:VAL:HG21	2.33	0.58
1:F:54:ILE:CD1	1:F:102:ARG:CD	2.73	0.58
1:F:317:ASN:HA	1:L:461:GLU:OE1	2.04	0.58
1:F:379:LEU:O	1:F:383:LYS:N	2.20	0.58
1:F:398:ASP:O	1:F:402:GLU:HB3	2.03	0.58
1:G:92:LEU:CG	1:G:93:GLU:N	2.63	0.58
1:G:102:ARG:HB2	1:G:104:PRO:CD	2.11	0.58
1:G:299:GLY:HA3	1:G:386:ILE:HG23	1.85	0.58
1:G:414:LEU:O	1:G:417:ALA:N	2.37	0.58
1:G:464:LEU:HD23	1:G:465:TYR:H	1.67	0.58
1:H:72:SER:O	1:H:73:THR:HG22	2.04	0.58
1:H:228:MET:HE1	1:H:372:ALA:CA	2.34	0.58
1:H:398:ASP:O	1:H:402:GLU:HB3	2.03	0.58
1:I:57:TRP:HD1	1:I:58:LYS:H	1.51	0.58
1:I:321:ARG:C	1:I:323:VAL:H	2.11	0.58
1:I:376:MET:CE	1:I:433:VAL:HG21	2.33	0.58
1:J:75:VAL:CG1	1:J:78:PRO:CD	2.70	0.58
1:J:125:LEU:HD12	1:J:225:PHE:CD2	2.38	0.58
1:J:280:ASN:H	1:J:280:ASN:HD22	1.49	0.58
1:K:36:HIS:C	1:K:38:VAL:N	2.60	0.58
1:K:39:ASN:HD22	1:K:40:ALA:N	2.01	0.58
1:L:414:LEU:C	1:L:414:LEU:CD2	2.75	0.58
1:A:102:ARG:HB2	1:A:104:PRO:CD	2.11	0.58
1:A:183:PRO:C	1:A:185:VAL:N	2.62	0.58
1:A:317:ASN:HA	1:G:461:GLU:OE1	2.04	0.58
1:A:464:LEU:HD23	1:A:465:TYR:H	1.67	0.58
1:B:317:ASN:HA	1:H:461:GLU:OE1	2.04	0.58
1:B:464:LEU:HD23	1:B:465:TYR:H	1.67	0.58
1:C:65:MET:HB3	1:C:67:LEU:CD2	2.10	0.58
1:C:71:ALA:HB3	1:C:86:ILE:CD1	2.33	0.58
1:D:57:TRP:CD1	1:D:57:TRP:C	2.81	0.58
1:D:464:LEU:HD23	1:D:465:TYR:H	1.67	0.58
1:D:465:TYR:HE2	1:J:449:GLU:CD	2.12	0.58
1:E:23:ASP:CB	1:E:28:GLU:HA	2.34	0.58
1:E:72:SER:O	1:E:73:THR:HG22	2.04	0.58
1:E:321:ARG:C	1:E:323:VAL:H	2.12	0.58
1:E:398:ASP:O	1:E:402:GLU:HB3	2.03	0.58
1:E:414:LEU:O	1:E:417:ALA:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:465:TYR:CE2	1:K:449:GLU:CD	2.81	0.58
1:F:19:LEU:CD1	1:F:240:TYR:CD1	2.87	0.58
1:F:228:MET:HE1	1:F:372:ALA:CA	2.34	0.58
1:G:183:PRO:C	1:G:185:VAL:N	2.62	0.58
1:H:19:LEU:CD1	1:H:240:TYR:CD1	2.87	0.58
1:H:54:ILE:CD1	1:H:102:ARG:CD	2.73	0.58
1:H:379:LEU:O	1:H:383:LYS:N	2.20	0.58
1:I:19:LEU:CD1	1:I:240:TYR:CD1	2.87	0.58
1:I:72:SER:O	1:I:73:THR:HG22	2.04	0.58
1:I:398:ASP:O	1:I:402:GLU:HB3	2.03	0.58
1:K:71:ALA:HB3	1:K:86:ILE:CD1	2.33	0.58
1:L:335:SER:N	1:L:345:ILE:HD11	2.19	0.58
1:L:379:LEU:HD12	1:L:380:ASP:H	1.67	0.58
1:A:139:ARG:HD2	1:B:163:LYS:HA	1.85	0.58
1:B:414:LEU:C	1:B:414:LEU:CD2	2.76	0.58
1:B:461:GLU:OE1	1:H:317:ASN:HA	2.04	0.58
1:C:1:SER:OG	1:C:2:ALA:N	2.34	0.58
1:C:339:ARG:O	1:C:340:SER:HB2	1.99	0.58
1:C:427:PHE:CE2	1:C:428:LEU:HD22	2.38	0.58
1:C:432:GLY:O	1:C:434:PHE:N	2.37	0.58
1:C:449:GLU:CD	1:I:465:TYR:HE2	2.12	0.58
1:C:461:GLU:CG	1:I:316:THR:CG2	2.82	0.58
1:D:39:ASN:HD22	1:D:40:ALA:N	2.01	0.58
1:D:68:MET:CE	1:D:88:ARG:CB	2.72	0.58
1:D:75:VAL:CG1	1:D:78:PRO:CD	2.71	0.58
1:D:228:MET:HE1	1:D:372:ALA:CA	2.34	0.58
1:E:19:LEU:CD1	1:E:240:TYR:CD1	2.87	0.58
1:E:317:ASN:HA	1:K:461:GLU:OE1	2.04	0.58
1:E:414:LEU:C	1:E:414:LEU:CD2	2.76	0.58
1:F:72:SER:O	1:F:73:THR:HG22	2.04	0.58
1:F:376:MET:CE	1:F:433:VAL:HG21	2.33	0.58
1:F:435:THR:HG22	1:F:436:ASP:N	2.19	0.58
1:G:13:GLU:C	1:G:14:VAL:HG13	2.27	0.58
1:G:321:ARG:C	1:G:323:VAL:H	2.11	0.58
1:H:432:GLY:O	1:H:434:PHE:N	2.37	0.58
1:I:23:ASP:CB	1:I:28:GLU:HA	2.34	0.58
1:I:57:TRP:CD1	1:I:57:TRP:C	2.81	0.58
1:I:365:ALA:O	1:I:367:PRO:HD3	2.03	0.58
1:I:414:LEU:C	1:I:414:LEU:CD2	2.76	0.58
1:I:414:LEU:O	1:I:417:ALA:N	2.37	0.58
1:J:57:TRP:CD1	1:J:57:TRP:C	2.81	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:228:MET:HE1	1:J:372:ALA:CA	2.34	0.58
1:J:317:ASN:O	1:J:318:SER:C	2.44	0.58
1:J:321:ARG:C	1:J:323:VAL:H	2.12	0.58
1:J:335:SER:N	1:J:345:ILE:HD11	2.19	0.58
1:J:464:LEU:HD23	1:J:465:TYR:H	1.67	0.58
1:K:427:PHE:CE2	1:K:428:LEU:HD22	2.38	0.58
1:L:464:LEU:HD23	1:L:465:TYR:H	1.67	0.58
1:A:167:GLY:O	1:A:169:LYS:CD	2.52	0.58
1:A:335:SER:N	1:A:345:ILE:HD11	2.19	0.58
1:A:366:ASN:C	1:A:368:TYR:N	2.57	0.58
1:B:449:GLU:CD	1:H:465:TYR:CE2	2.81	0.58
1:C:19:LEU:CD1	1:C:240:TYR:CD1	2.87	0.58
1:C:228:MET:HE1	1:C:372:ALA:CA	2.34	0.58
1:C:299:GLY:HA3	1:C:386:ILE:HG23	1.85	0.58
1:C:379:LEU:HD12	1:C:380:ASP:H	1.68	0.58
1:C:396:LEU:HD23	1:C:397:TYR:H	1.69	0.58
1:D:167:GLY:O	1:D:169:LYS:CD	2.52	0.58
1:D:209:HIS:ND1	1:D:209:HIS:C	2.62	0.58
1:D:280:ASN:H	1:D:280:ASN:HD22	1.49	0.58
1:D:317:ASN:O	1:D:318:SER:C	2.44	0.58
1:D:335:SER:N	1:D:345:ILE:HD11	2.19	0.58
1:E:57:TRP:CD1	1:E:57:TRP:C	2.81	0.58
1:E:157:ALA:H	1:E:215:THR:CG2	2.09	0.58
1:E:316:THR:CG2	1:K:461:GLU:CG	2.82	0.58
1:E:396:LEU:HD23	1:E:397:TYR:H	1.69	0.58
1:F:321:ARG:C	1:F:323:VAL:H	2.11	0.58
1:F:464:LEU:HD23	1:F:465:TYR:H	1.67	0.58
1:G:209:HIS:C	1:G:209:HIS:ND1	2.61	0.58
1:G:366:ASN:C	1:G:368:TYR:N	2.57	0.58
1:H:427:PHE:CE2	1:H:428:LEU:HD22	2.38	0.58
1:H:454:ARG:HG2	1:H:454:ARG:NH1	2.18	0.58
1:I:335:SER:N	1:I:345:ILE:HD11	2.19	0.58
1:I:454:ARG:HG2	1:I:454:ARG:NH1	2.18	0.58
1:J:68:MET:CE	1:J:88:ARG:CB	2.72	0.58
1:J:167:GLY:O	1:J:169:LYS:CD	2.52	0.58
1:J:199:MET:HB3	1:J:204:LEU:HD12	1.86	0.58
1:J:209:HIS:C	1:J:209:HIS:ND1	2.62	0.58
1:J:223:THR:HG22	1:J:231:LYS:HZ3	1.68	0.58
1:K:432:GLY:O	1:K:434:PHE:N	2.37	0.58
1:K:435:THR:HG22	1:K:436:ASP:N	2.19	0.58
1:L:36:HIS:C	1:L:38:VAL:N	2.60	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:183:PRO:C	1:L:185:VAL:N	2.62	0.58
1:L:209:HIS:ND1	1:L:209:HIS:C	2.62	0.58
1:A:19:LEU:CD2	1:A:75:VAL:HG22	2.19	0.58
1:A:228:MET:HE1	1:A:372:ALA:CA	2.34	0.58
1:A:379:LEU:HD12	1:A:380:ASP:H	1.68	0.58
1:B:67:LEU:HD11	1:B:88:ARG:HB2	1.86	0.58
1:B:183:PRO:C	1:B:185:VAL:N	2.62	0.58
1:B:335:SER:N	1:B:345:ILE:HD11	2.19	0.58
1:C:167:GLY:O	1:C:169:LYS:CD	2.52	0.58
1:D:19:LEU:CD1	1:D:240:TYR:CD1	2.87	0.58
1:D:94:PRO:O	1:D:96:THR:HG23	2.02	0.58
1:D:449:GLU:CD	1:J:465:TYR:HE2	2.12	0.58
1:E:454:ARG:HG2	1:E:454:ARG:NH1	2.18	0.58
1:F:427:PHE:CE2	1:F:428:LEU:HD22	2.38	0.58
1:F:432:GLY:O	1:F:434:PHE:N	2.37	0.58
1:F:454:ARG:HG2	1:F:454:ARG:NH1	2.18	0.58
1:F:465:TYR:CE2	1:L:449:GLU:CD	2.81	0.58
1:G:19:LEU:CD1	1:G:240:TYR:CD1	2.87	0.58
1:G:139:ARG:HD2	1:L:163:LYS:HA	1.86	0.58
1:G:167:GLY:O	1:G:169:LYS:CD	2.52	0.58
1:G:228:MET:HE1	1:G:372:ALA:CA	2.34	0.58
1:G:335:SER:N	1:G:345:ILE:HD11	2.19	0.58
1:H:321:ARG:C	1:H:323:VAL:H	2.12	0.58
1:H:464:LEU:HD23	1:H:465:TYR:H	1.67	0.58
1:I:396:LEU:HD23	1:I:397:TYR:H	1.69	0.58
1:J:19:LEU:CD1	1:J:240:TYR:CD1	2.87	0.58
1:J:94:PRO:O	1:J:96:THR:HG23	2.02	0.58
1:J:128:PRO:CD	1:J:231:LYS:HD3	2.34	0.58
1:K:1:SER:OG	1:K:2:ALA:N	2.34	0.58
1:K:19:LEU:CD1	1:K:240:TYR:CD1	2.87	0.58
1:K:299:GLY:HA3	1:K:386:ILE:HG23	1.85	0.58
1:K:339:ARG:O	1:K:340:SER:HB2	1.99	0.58
1:L:67:LEU:HD11	1:L:88:ARG:HB2	1.86	0.58
1:L:125:LEU:HD12	1:L:225:PHE:CD2	2.38	0.58
1:L:228:MET:O	1:L:229:THR:C	2.46	0.58
1:L:321:ARG:C	1:L:323:VAL:H	2.11	0.58
1:L:414:LEU:O	1:L:417:ALA:N	2.36	0.58
1:L:435:THR:HG22	1:L:436:ASP:N	2.19	0.58
1:A:19:LEU:CD1	1:A:240:TYR:CD1	2.87	0.58
1:A:209:HIS:ND1	1:A:209:HIS:C	2.62	0.58
1:A:316:THR:CG2	1:G:461:GLU:CG	2.82	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:461:GLU:CG	1:G:316:THR:CG2	2.82	0.58
1:B:228:MET:O	1:B:229:THR:C	2.46	0.58
1:B:299:GLY:HA3	1:B:386:ILE:HG23	1.85	0.58
1:C:139:ARG:HG3	1:D:168:ASN:HB2	1.86	0.58
1:C:317:ASN:HA	1:I:461:GLU:OE1	2.04	0.58
1:D:128:PRO:CD	1:D:231:LYS:HD3	2.34	0.58
1:D:223:THR:HG22	1:D:231:LYS:HZ3	1.68	0.58
1:E:63:SER:HG	1:E:91:ILE:HG22	1.69	0.58
1:E:79:PHE:CG	1:E:80:PHE:CD1	2.84	0.58
1:E:228:MET:HE1	1:E:372:ALA:CA	2.34	0.58
1:E:465:TYR:HE2	1:K:449:GLU:CD	2.12	0.58
1:F:63:SER:HG	1:F:91:ILE:HG22	1.67	0.58
1:F:171:HIS:ND1	1:K:467:SER:OG	2.31	0.58
1:G:460:VAL:O	1:G:463:GLU:N	2.37	0.58
1:H:27:LYS:HZ2	1:H:239:LYS:HZ1	1.42	0.58
1:J:39:ASN:HD22	1:J:40:ALA:N	2.02	0.58
1:K:167:GLY:O	1:K:169:LYS:CD	2.52	0.58
1:K:228:MET:HE1	1:K:372:ALA:CA	2.34	0.58
1:K:309:ASN:HB2	1:K:313:ASN:ND2	2.18	0.58
1:K:321:ARG:C	1:K:323:VAL:H	2.11	0.58
1:K:460:VAL:O	1:K:463:GLU:N	2.37	0.58
1:L:19:LEU:CD1	1:L:240:TYR:CD1	2.87	0.58
1:L:102:ARG:HB2	1:L:104:PRO:CD	2.11	0.58
1:L:299:GLY:HA3	1:L:386:ILE:HG23	1.85	0.58
1:A:125:LEU:HD12	1:A:225:PHE:CD2	2.38	0.58
1:A:309:ASN:HB2	1:A:313:ASN:ND2	2.18	0.58
1:A:321:ARG:C	1:A:323:VAL:H	2.12	0.58
1:A:396:LEU:HD23	1:A:397:TYR:H	1.69	0.58
1:A:427:PHE:CE2	1:A:428:LEU:HD22	2.38	0.58
1:A:460:VAL:O	1:A:463:GLU:N	2.37	0.58
1:B:19:LEU:CD1	1:B:240:TYR:CD1	2.87	0.58
1:B:125:LEU:HD12	1:B:225:PHE:CD2	2.38	0.58
1:B:167:GLY:O	1:B:169:LYS:CD	2.52	0.58
1:B:209:HIS:C	1:B:209:HIS:ND1	2.62	0.58
1:B:214:ALA:CA	1:B:263:ASP:OD2	2.52	0.58
1:B:321:ARG:C	1:B:323:VAL:H	2.11	0.58
1:B:379:LEU:HD12	1:B:380:ASP:H	1.67	0.58
1:B:435:THR:HG22	1:B:436:ASP:N	2.19	0.58
1:D:399:LEU:O	1:D:402:GLU:HB3	2.03	0.58
1:E:335:SER:N	1:E:345:ILE:HD11	2.19	0.58
1:E:449:GLU:CD	1:K:465:TYR:HE2	2.12	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:465:TYR:HE2	1:L:449:GLU:CD	2.12	0.58
1:G:19:LEU:CD2	1:G:75:VAL:HG22	2.19	0.58
1:G:68:MET:CE	1:G:88:ARG:CB	2.72	0.58
1:G:214:ALA:CA	1:G:263:ASP:OD2	2.52	0.58
1:G:309:ASN:HB2	1:G:313:ASN:ND2	2.18	0.58
1:H:214:ALA:CA	1:H:263:ASP:OD2	2.52	0.58
1:I:103:ASP:N	1:I:104:PRO:CD	2.60	0.58
1:I:168:ASN:HB2	1:J:139:ARG:HG3	1.86	0.58
1:I:228:MET:HE1	1:I:372:ALA:CA	2.34	0.58
1:L:39:ASN:HD21	1:L:42:PHE:H	1.52	0.58
1:L:283:SER:O	1:L:291:SER:CB	2.45	0.58
1:L:376:MET:CE	1:L:433:VAL:HG21	2.33	0.58
1:A:17:VAL:HG13	1:A:33:ILE:HB	1.86	0.57
1:A:432:GLY:O	1:A:434:PHE:N	2.37	0.57
1:B:39:ASN:HD21	1:B:42:PHE:H	1.52	0.57
1:B:71:ALA:HB3	1:B:86:ILE:CD1	2.33	0.57
1:C:125:LEU:HD12	1:C:225:PHE:CD2	2.38	0.57
1:C:214:ALA:CA	1:C:263:ASP:OD2	2.52	0.57
1:C:309:ASN:HB2	1:C:313:ASN:ND2	2.18	0.57
1:C:321:ARG:C	1:C:323:VAL:H	2.12	0.57
1:C:435:THR:HG22	1:C:436:ASP:N	2.19	0.57
1:C:461:GLU:OE1	1:I:317:ASN:HA	2.04	0.57
1:C:465:TYR:HE2	1:I:449:GLU:CD	2.12	0.57
1:D:139:ARG:HG3	1:E:168:ASN:HB2	1.86	0.57
1:D:427:PHE:CZ	1:D:428:LEU:HD22	2.39	0.57
1:D:458:HIS:HE1	1:J:456:THR:O	1.87	0.57
1:D:461:GLU:OE1	1:J:317:ASN:HA	2.04	0.57
1:F:456:THR:O	1:L:458:HIS:HE1	1.87	0.57
1:G:125:LEU:HD12	1:G:225:PHE:CD2	2.38	0.57
1:G:399:LEU:O	1:G:402:GLU:HB3	2.03	0.57
1:H:168:ASN:HB2	1:I:139:ARG:HG3	1.86	0.57
1:H:376:MET:CE	1:H:433:VAL:HG21	2.33	0.57
1:I:435:THR:HG22	1:I:436:ASP:N	2.18	0.57
1:J:71:ALA:HB3	1:J:86:ILE:CD1	2.33	0.57
1:J:168:ASN:HB2	1:K:139:ARG:HG3	1.86	0.57
1:K:39:ASN:HD21	1:K:42:PHE:H	1.52	0.57
1:K:125:LEU:HD12	1:K:225:PHE:CD2	2.38	0.57
1:K:128:PRO:CD	1:K:231:LYS:HD3	2.34	0.57
1:K:396:LEU:HD23	1:K:397:TYR:H	1.69	0.57
1:L:167:GLY:O	1:L:169:LYS:CD	2.52	0.57
1:A:57:TRP:CD1	1:A:57:TRP:C	2.81	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:71:ALA:HB3	1:A:86:ILE:CD1	2.33	0.57
1:A:72:SER:O	1:A:73:THR:HG22	2.03	0.57
1:A:214:ALA:CA	1:A:263:ASP:OD2	2.52	0.57
1:A:348:VAL:HB	1:A:354:ARG:NH1	2.19	0.57
1:B:139:ARG:HG3	1:C:168:ASN:HB2	1.86	0.57
1:B:228:MET:HE1	1:B:372:ALA:CA	2.34	0.57
1:B:348:VAL:HB	1:B:354:ARG:NH1	2.19	0.57
1:B:414:LEU:O	1:B:417:ALA:N	2.37	0.57
1:B:449:GLU:CD	1:H:465:TYR:HE2	2.12	0.57
1:C:39:ASN:HD21	1:C:42:PHE:H	1.52	0.57
1:C:128:PRO:CD	1:C:231:LYS:HD3	2.34	0.57
1:C:139:ARG:HD2	1:D:163:LYS:HA	1.85	0.57
1:C:209:HIS:C	1:C:209:HIS:ND1	2.62	0.57
1:C:460:VAL:O	1:C:463:GLU:N	2.37	0.57
1:D:65:MET:HE2	1:D:65:MET:HA	1.84	0.57
1:D:316:THR:CG2	1:J:461:GLU:CG	2.82	0.57
1:D:432:GLY:O	1:D:434:PHE:N	2.37	0.57
1:D:456:THR:O	1:J:458:HIS:HE1	1.87	0.57
1:E:139:ARG:HD2	1:F:163:LYS:HA	1.85	0.57
1:E:139:ARG:HG3	1:F:168:ASN:HB2	1.86	0.57
1:E:461:GLU:OE1	1:K:317:ASN:HA	2.04	0.57
1:F:199:MET:HB3	1:F:204:LEU:HD12	1.86	0.57
1:F:209:HIS:C	1:F:209:HIS:ND1	2.62	0.57
1:F:214:ALA:CA	1:F:263:ASP:OD2	2.52	0.57
1:F:460:VAL:O	1:F:463:GLU:N	2.37	0.57
1:G:17:VAL:HG13	1:G:33:ILE:HB	1.86	0.57
1:G:396:LEU:HD23	1:G:397:TYR:H	1.69	0.57
1:H:163:LYS:HA	1:I:139:ARG:HD2	1.85	0.57
1:H:209:HIS:ND1	1:H:209:HIS:C	2.62	0.57
1:I:199:MET:HB3	1:I:204:LEU:HD12	1.86	0.57
1:J:72:SER:O	1:J:73:THR:HG22	2.04	0.57
1:J:157:ALA:H	1:J:215:THR:CG2	2.09	0.57
1:J:399:LEU:O	1:J:402:GLU:HB3	2.04	0.57
1:J:414:LEU:O	1:J:417:ALA:N	2.36	0.57
1:J:427:PHE:CZ	1:J:428:LEU:HD22	2.40	0.57
1:K:168:ASN:HB2	1:L:139:ARG:HG3	1.86	0.57
1:K:199:MET:HB3	1:K:204:LEU:HD12	1.86	0.57
1:K:335:SER:N	1:K:345:ILE:HD11	2.19	0.57
1:L:214:ALA:CA	1:L:263:ASP:OD2	2.52	0.57
1:L:228:MET:HE1	1:L:372:ALA:CA	2.34	0.57
1:B:102:ARG:HB2	1:B:104:PRO:CD	2.11	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:283:SER:O	1:B:291:SER:CB	2.45	0.57
1:B:396:LEU:HD23	1:B:397:TYR:H	1.69	0.57
1:C:335:SER:N	1:C:345:ILE:HD11	2.19	0.57
1:C:456:THR:O	1:I:458:HIS:HE1	1.87	0.57
1:C:458:HIS:HE1	1:I:456:THR:O	1.87	0.57
1:D:36:HIS:C	1:D:38:VAL:N	2.60	0.57
1:D:71:ALA:HB3	1:D:86:ILE:CD1	2.33	0.57
1:E:214:ALA:CA	1:E:263:ASP:OD2	2.52	0.57
1:E:432:GLY:O	1:E:434:PHE:N	2.37	0.57
1:E:435:THR:HG22	1:E:436:ASP:N	2.19	0.57
1:E:458:HIS:HE1	1:K:456:THR:O	1.87	0.57
1:E:460:VAL:O	1:E:463:GLU:N	2.37	0.57
1:G:67:LEU:HD11	1:G:88:ARG:HB2	1.86	0.57
1:G:71:ALA:HB3	1:G:86:ILE:CD1	2.33	0.57
1:G:427:PHE:CE2	1:G:428:LEU:HD22	2.38	0.57
1:G:435:THR:HG22	1:G:436:ASP:N	2.19	0.57
1:H:283:SER:C	1:H:291:SER:HB3	2.30	0.57
1:H:348:VAL:HB	1:H:354:ARG:NH1	2.19	0.57
1:H:460:VAL:O	1:H:463:GLU:N	2.37	0.57
1:I:214:ALA:CA	1:I:263:ASP:OD2	2.52	0.57
1:J:76:ILE:CG1	1:J:202:MET:HE1	2.30	0.57
1:J:163:LYS:HA	1:K:139:ARG:HD2	1.85	0.57
1:J:432:GLY:O	1:J:434:PHE:N	2.37	0.57
1:K:67:LEU:HD11	1:K:88:ARG:HB2	1.86	0.57
1:K:92:LEU:CG	1:K:93:GLU:N	2.63	0.57
1:K:209:HIS:C	1:K:209:HIS:ND1	2.62	0.57
1:K:214:ALA:CA	1:K:263:ASP:OD2	2.52	0.57
1:K:414:LEU:C	1:K:414:LEU:CD2	2.76	0.57
1:L:17:VAL:HG13	1:L:33:ILE:HB	1.86	0.57
1:A:68:MET:CE	1:A:88:ARG:CB	2.72	0.57
1:A:325:GLY:CA	1:A:328:ALA:HB3	2.34	0.57
1:A:399:LEU:O	1:A:402:GLU:HB3	2.04	0.57
1:A:435:THR:HG22	1:A:436:ASP:N	2.19	0.57
1:A:449:GLU:CD	1:G:465:TYR:HE2	2.12	0.57
1:B:17:VAL:HG13	1:B:33:ILE:HB	1.86	0.57
1:B:19:LEU:HD22	1:B:240:TYR:HH	1.66	0.57
1:B:257:PRO:O	1:B:265:GLY:CA	2.53	0.57
1:B:376:MET:CE	1:B:433:VAL:HG21	2.33	0.57
1:B:399:LEU:O	1:B:402:GLU:HB3	2.04	0.57
1:B:427:PHE:CZ	1:B:428:LEU:HD22	2.40	0.57
1:C:348:VAL:HB	1:C:354:ARG:NH1	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:467:SER:OG	1:H:171:HIS:ND1	2.31	0.57
1:D:49:PHE:N	1:D:49:PHE:CD2	2.71	0.57
1:D:72:SER:O	1:D:73:THR:HG22	2.04	0.57
1:D:92:LEU:CG	1:D:93:GLU:N	2.63	0.57
1:D:214:ALA:CA	1:D:263:ASP:OD2	2.52	0.57
1:D:461:GLU:CG	1:J:316:THR:CG2	2.82	0.57
1:E:96:THR:O	1:E:97:LEU:CG	2.46	0.57
1:E:199:MET:HB3	1:E:204:LEU:HD12	1.86	0.57
1:E:209:HIS:ND1	1:E:209:HIS:C	2.62	0.57
1:E:456:THR:O	1:K:458:HIS:HE1	1.87	0.57
1:F:183:PRO:C	1:F:185:VAL:N	2.62	0.57
1:F:283:SER:C	1:F:291:SER:HB3	2.30	0.57
1:F:335:SER:N	1:F:345:ILE:HD11	2.19	0.57
1:F:348:VAL:HB	1:F:354:ARG:NH1	2.19	0.57
1:G:39:ASN:HD22	1:G:40:ALA:N	2.01	0.57
1:G:72:SER:O	1:G:73:THR:HG22	2.04	0.57
1:G:199:MET:HB3	1:G:204:LEU:HD12	1.86	0.57
1:G:325:GLY:CA	1:G:328:ALA:HB3	2.34	0.57
1:G:348:VAL:HB	1:G:354:ARG:NH1	2.19	0.57
1:G:432:GLY:O	1:G:434:PHE:N	2.37	0.57
1:H:183:PRO:C	1:H:185:VAL:N	2.62	0.57
1:I:16:PHE:CD1	1:I:79:PHE:CE1	2.92	0.57
1:I:39:ASN:HD22	1:I:40:ALA:N	2.01	0.57
1:I:209:HIS:ND1	1:I:209:HIS:C	2.62	0.57
1:K:348:VAL:HB	1:K:354:ARG:NH1	2.19	0.57
1:L:68:MET:CE	1:L:88:ARG:CB	2.72	0.57
1:L:71:ALA:HB3	1:L:86:ILE:CD1	2.34	0.57
1:L:396:LEU:HD23	1:L:397:TYR:H	1.69	0.57
1:L:432:GLY:O	1:L:434:PHE:N	2.37	0.57
1:A:67:LEU:HD11	1:A:88:ARG:HB2	1.86	0.57
1:B:316:THR:CG2	1:H:461:GLU:CG	2.82	0.57
1:B:432:GLY:O	1:B:434:PHE:N	2.37	0.57
1:B:461:GLU:CG	1:H:316:THR:CG2	2.82	0.57
1:C:67:LEU:HD11	1:C:88:ARG:HB2	1.86	0.57
1:C:183:PRO:C	1:C:185:VAL:N	2.62	0.57
1:C:414:LEU:C	1:C:414:LEU:CD2	2.75	0.57
1:C:427:PHE:CZ	1:C:428:LEU:HD22	2.40	0.57
1:D:283:SER:C	1:D:291:SER:HB3	2.30	0.57
1:D:414:LEU:O	1:D:417:ALA:N	2.37	0.57
1:D:460:VAL:O	1:D:463:GLU:N	2.37	0.57
1:E:16:PHE:CD1	1:E:79:PHE:CE1	2.92	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:17:VAL:HG13	1:E:33:ILE:HB	1.86	0.57
1:E:76:ILE:CG1	1:E:202:MET:HE1	2.30	0.57
1:E:175:VAL:O	1:E:176:LYS:C	2.45	0.57
1:G:63:SER:HG	1:G:91:ILE:HG22	1.67	0.57
1:H:238:TYR:O	1:H:242:VAL:HG23	2.05	0.57
1:H:335:SER:N	1:H:345:ILE:HD11	2.19	0.57
1:I:17:VAL:HG13	1:I:33:ILE:HB	1.86	0.57
1:I:432:GLY:O	1:I:434:PHE:N	2.37	0.57
1:J:36:HIS:C	1:J:38:VAL:N	2.60	0.57
1:J:49:PHE:N	1:J:49:PHE:CD2	2.71	0.57
1:J:283:SER:C	1:J:291:SER:HB3	2.30	0.57
1:K:68:MET:CE	1:K:88:ARG:CB	2.72	0.57
1:K:156:GLY:HA2	1:K:215:THR:HB	1.86	0.57
1:K:267:GLY:HA2	1:K:363:PRO:HD2	1.87	0.57
1:K:427:PHE:CZ	1:K:428:LEU:HD22	2.40	0.57
1:L:257:PRO:O	1:L:265:GLY:CA	2.53	0.57
1:L:348:VAL:HB	1:L:354:ARG:NH1	2.19	0.57
1:A:199:MET:HB3	1:A:204:LEU:HD12	1.86	0.57
1:A:283:SER:O	1:A:291:SER:CB	2.45	0.57
1:A:465:TYR:HE2	1:G:449:GLU:CD	2.12	0.57
1:B:39:ASN:HD22	1:B:40:ALA:N	2.01	0.57
1:B:335:SER:CA	1:B:345:ILE:HD11	2.35	0.57
1:B:418:LEU:HD11	1:B:446:ARG:HB2	1.87	0.57
1:B:454:ARG:HG2	1:B:454:ARG:NH1	2.18	0.57
1:B:458:HIS:HE1	1:H:456:THR:O	1.87	0.57
1:C:92:LEU:CG	1:C:93:GLU:N	2.63	0.57
1:C:199:MET:HB3	1:C:204:LEU:HD12	1.86	0.57
1:C:414:LEU:O	1:C:417:ALA:N	2.37	0.57
1:D:76:ILE:CG1	1:D:202:MET:HE1	2.30	0.57
1:E:103:ASP:N	1:E:104:PRO:CD	2.60	0.57
1:E:315:THR:CG2	1:K:465:TYR:HE2	2.04	0.57
1:F:71:ALA:HB3	1:F:86:ILE:CD1	2.33	0.57
1:F:238:TYR:O	1:F:242:VAL:HG23	2.05	0.57
1:F:317:ASN:O	1:F:318:SER:C	2.44	0.57
1:F:461:GLU:CG	1:L:316:THR:CG2	2.82	0.57
1:G:283:SER:O	1:G:291:SER:CB	2.45	0.57
1:H:17:VAL:HG13	1:H:33:ILE:HB	1.86	0.57
1:I:71:ALA:HB3	1:I:86:ILE:CD1	2.33	0.57
1:I:76:ILE:CG1	1:I:202:MET:HE1	2.30	0.57
1:I:399:LEU:O	1:I:402:GLU:HB3	2.03	0.57
1:I:427:PHE:CZ	1:I:428:LEU:HD22	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:460:VAL:O	1:I:463:GLU:N	2.37	0.57
1:J:92:LEU:CG	1:J:93:GLU:N	2.63	0.57
1:J:103:ASP:N	1:J:104:PRO:CD	2.60	0.57
1:J:339:ARG:O	1:J:340:SER:HB2	1.99	0.57
1:J:460:VAL:O	1:J:463:GLU:N	2.37	0.57
1:L:427:PHE:CZ	1:L:428:LEU:HD22	2.40	0.57
1:A:39:ASN:HD22	1:A:40:ALA:N	2.02	0.57
1:A:39:ASN:HD21	1:A:42:PHE:H	1.52	0.57
1:A:168:ASN:HB2	1:F:139:ARG:HG3	1.86	0.57
1:A:376:MET:HE1	1:A:433:VAL:CG1	2.22	0.57
1:B:63:SER:HG	1:B:91:ILE:HG22	1.70	0.57
1:C:16:PHE:CD1	1:C:79:PHE:CE1	2.92	0.57
1:C:72:SER:O	1:C:73:THR:HG22	2.04	0.57
1:C:95:GLY:C	1:C:97:LEU:HD11	2.30	0.57
1:C:156:GLY:HA2	1:C:215:THR:HB	1.87	0.57
1:C:238:TYR:O	1:C:242:VAL:HG23	2.05	0.57
1:D:20:ARG:NH1	1:D:86:ILE:CG2	2.51	0.57
1:D:157:ALA:H	1:D:215:THR:CG2	2.09	0.57
1:D:317:ASN:HA	1:J:461:GLU:OE1	2.04	0.57
1:E:39:ASN:HD22	1:E:40:ALA:N	2.01	0.57
1:E:71:ALA:HB3	1:E:86:ILE:CD1	2.33	0.57
1:E:295:LEU:H	1:E:295:LEU:HD12	1.70	0.57
1:E:399:LEU:O	1:E:402:GLU:HB3	2.04	0.57
1:E:427:PHE:CZ	1:E:428:LEU:HD22	2.40	0.57
1:F:227:THR:O	1:F:228:MET:C	2.47	0.57
1:F:316:THR:CG2	1:L:461:GLU:CG	2.82	0.57
1:G:39:ASN:HD21	1:G:42:PHE:H	1.52	0.57
1:G:115:LEU:C	1:G:115:LEU:HD22	2.30	0.57
1:H:71:ALA:HB3	1:H:86:ILE:CD1	2.34	0.57
1:H:409:GLN:C	1:H:411:ALA:H	2.13	0.57
1:I:67:LEU:CD1	1:I:88:ARG:HH11	2.18	0.57
1:J:65:MET:HE2	1:J:65:MET:HA	1.85	0.57
1:J:109:LYS:O	1:J:110:ARG:O	2.23	0.57
1:J:214:ALA:CA	1:J:263:ASP:OD2	2.52	0.57
1:J:348:VAL:HB	1:J:354:ARG:NH1	2.19	0.57
1:K:67:LEU:CD1	1:K:88:ARG:HH11	2.18	0.57
1:K:238:TYR:O	1:K:242:VAL:HG23	2.05	0.57
1:K:414:LEU:O	1:K:417:ALA:N	2.37	0.57
1:L:72:SER:O	1:L:73:THR:HG22	2.03	0.57
1:L:335:SER:CA	1:L:345:ILE:HD11	2.35	0.57
1:L:399:LEU:O	1:L:402:GLU:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:418:LEU:HD11	1:L:446:ARG:HB2	1.87	0.57
1:A:115:LEU:HD22	1:A:115:LEU:C	2.30	0.57
1:B:68:MET:CE	1:B:88:ARG:CB	2.72	0.57
1:C:335:SER:CA	1:C:345:ILE:HD11	2.35	0.57
1:C:465:TYR:HE2	1:I:315:THR:CG2	2.04	0.57
1:D:139:ARG:HD2	1:E:163:LYS:HA	1.85	0.57
1:E:27:LYS:HZ3	1:E:239:LYS:HZ2	1.34	0.57
1:E:67:LEU:CD1	1:E:88:ARG:HH11	2.18	0.57
1:E:68:MET:CE	1:E:88:ARG:CB	2.72	0.57
1:F:17:VAL:HG13	1:F:33:ILE:HB	1.86	0.57
1:F:95:GLY:C	1:F:97:LEU:HD11	2.30	0.57
1:G:168:ASN:HB2	1:H:139:ARG:HG3	1.86	0.57
1:H:42:PHE:CE2	1:H:66:VAL:HG21	2.40	0.57
1:H:227:THR:O	1:H:228:MET:C	2.48	0.57
1:H:396:LEU:HD23	1:H:397:TYR:H	1.69	0.57
1:I:68:MET:CE	1:I:88:ARG:CB	2.72	0.57
1:I:96:THR:O	1:I:97:LEU:CG	2.46	0.57
1:I:295:LEU:H	1:I:295:LEU:HD12	1.70	0.57
1:I:435:THR:HG21	1:I:437:GLU:HG2	1.87	0.57
1:J:39:ASN:HD21	1:J:42:PHE:H	1.52	0.57
1:J:95:GLY:C	1:J:97:LEU:HD11	2.30	0.57
1:J:325:GLY:CA	1:J:328:ALA:HB3	2.34	0.57
1:K:95:GLY:C	1:K:97:LEU:HD11	2.30	0.57
1:K:183:PRO:C	1:K:185:VAL:N	2.62	0.57
1:K:227:THR:O	1:K:228:MET:C	2.47	0.57
1:K:335:SER:CA	1:K:345:ILE:HD11	2.35	0.57
1:C:57:TRP:HD1	1:C:58:LYS:H	1.51	0.57
1:C:67:LEU:CD1	1:C:88:ARG:HH11	2.18	0.57
1:C:227:THR:O	1:C:228:MET:C	2.47	0.57
1:C:283:SER:C	1:C:291:SER:HB3	2.30	0.57
1:D:95:GLY:C	1:D:97:LEU:HD11	2.30	0.57
1:D:325:GLY:CA	1:D:328:ALA:HB3	2.34	0.57
1:D:339:ARG:O	1:D:340:SER:HB2	1.99	0.57
1:D:348:VAL:HB	1:D:354:ARG:NH1	2.20	0.57
1:D:442:TYR:O	1:D:443:ILE:C	2.48	0.57
1:E:92:LEU:CG	1:E:93:GLU:N	2.63	0.57
1:E:325:GLY:CA	1:E:328:ALA:HB3	2.34	0.57
1:E:376:MET:HE1	1:E:433:VAL:CG1	2.22	0.57
1:F:67:LEU:C	1:F:69:PRO:CD	2.78	0.57
1:F:109:LYS:O	1:F:110:ARG:O	2.23	0.57
1:F:257:PRO:O	1:F:265:GLY:CA	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:409:GLN:C	1:F:411:ALA:H	2.13	0.57
1:G:67:LEU:C	1:G:69:PRO:CD	2.78	0.57
1:H:95:GLY:C	1:H:97:LEU:HD11	2.30	0.57
1:H:109:LYS:O	1:H:110:ARG:O	2.23	0.57
1:H:115:LEU:C	1:H:115:LEU:HD22	2.30	0.57
1:H:156:GLY:HA2	1:H:215:THR:HB	1.86	0.57
1:H:223:THR:HG22	1:H:231:LYS:HZ3	1.68	0.57
1:H:257:PRO:O	1:H:265:GLY:CA	2.53	0.57
1:I:163:LYS:HA	1:J:139:ARG:HD2	1.86	0.57
1:I:325:GLY:CA	1:I:328:ALA:HB3	2.34	0.57
1:J:295:LEU:H	1:J:295:LEU:HD12	1.70	0.57
1:K:16:PHE:CD1	1:K:79:PHE:CE1	2.92	0.57
1:K:57:TRP:HD1	1:K:58:LYS:H	1.51	0.57
1:K:72:SER:O	1:K:73:THR:HG22	2.04	0.57
1:K:399:LEU:O	1:K:402:GLU:HB3	2.04	0.57
1:L:39:ASN:HD22	1:L:40:ALA:N	2.02	0.57
1:L:454:ARG:HG2	1:L:454:ARG:NH1	2.18	0.57
1:A:67:LEU:C	1:A:69:PRO:CD	2.78	0.57
1:A:128:PRO:CD	1:A:231:LYS:HD3	2.34	0.57
1:A:409:GLN:C	1:A:411:ALA:H	2.13	0.57
1:B:67:LEU:CD1	1:B:88:ARG:HH11	2.18	0.57
1:B:465:TYR:HE2	1:H:449:GLU:CD	2.12	0.57
1:C:68:MET:CE	1:C:88:ARG:CB	2.72	0.57
1:C:267:GLY:HA2	1:C:363:PRO:HD2	1.87	0.57
1:C:399:LEU:O	1:C:402:GLU:HB3	2.04	0.57
1:C:418:LEU:HD11	1:C:446:ARG:HB2	1.86	0.57
1:D:39:ASN:HD21	1:D:42:PHE:H	1.53	0.57
1:D:67:LEU:CD1	1:D:88:ARG:HH11	2.18	0.57
1:D:103:ASP:N	1:D:104:PRO:CD	2.60	0.57
1:E:128:PRO:CD	1:E:231:LYS:HD3	2.34	0.57
1:E:435:THR:HG21	1:E:437:GLU:HG2	1.87	0.57
1:F:42:PHE:CE2	1:F:66:VAL:HG21	2.40	0.57
1:F:156:GLY:HA2	1:F:215:THR:HB	1.86	0.57
1:G:128:PRO:CD	1:G:231:LYS:HD3	2.34	0.57
1:G:409:GLN:C	1:G:411:ALA:H	2.13	0.57
1:H:16:PHE:CD1	1:H:79:PHE:CE1	2.92	0.57
1:H:102:ARG:HB2	1:H:104:PRO:CD	2.11	0.57
1:I:92:LEU:CG	1:I:93:GLU:N	2.63	0.57
1:I:95:GLY:C	1:I:97:LEU:HD11	2.30	0.57
1:I:128:PRO:CD	1:I:231:LYS:HD3	2.34	0.57
1:I:175:VAL:O	1:I:176:LYS:C	2.45	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:228:MET:O	1:I:229:THR:C	2.46	0.57
1:I:315:THR:O	1:I:318:SER:N	2.37	0.57
1:J:435:THR:HG22	1:J:436:ASP:N	2.19	0.57
1:K:19:LEU:HD13	1:K:240:TYR:CD1	2.35	0.57
1:K:283:SER:C	1:K:291:SER:HB3	2.30	0.57
1:K:418:LEU:HD11	1:K:446:ARG:HB2	1.87	0.57
1:L:19:LEU:HD22	1:L:240:TYR:HH	1.66	0.57
1:A:238:TYR:O	1:A:242:VAL:HG23	2.05	0.56
1:A:315:THR:O	1:A:318:SER:N	2.37	0.56
1:B:67:LEU:C	1:B:69:PRO:HD3	2.30	0.56
1:B:72:SER:O	1:B:73:THR:HG22	2.04	0.56
1:B:128:PRO:CD	1:B:231:LYS:HD3	2.34	0.56
1:C:464:LEU:HD23	1:C:465:TYR:H	1.67	0.56
1:D:109:LYS:O	1:D:110:ARG:O	2.23	0.56
1:D:156:GLY:HA2	1:D:215:THR:HB	1.86	0.56
1:D:295:LEU:H	1:D:295:LEU:HD12	1.70	0.56
1:D:331:MET:HE3	1:D:396:LEU:CB	2.35	0.56
1:D:366:ASN:C	1:D:368:TYR:N	2.57	0.56
1:E:109:LYS:O	1:E:110:ARG:O	2.23	0.56
1:E:228:MET:O	1:E:229:THR:C	2.46	0.56
1:E:348:VAL:HB	1:E:354:ARG:NH1	2.19	0.56
1:E:442:TYR:O	1:E:443:ILE:C	2.48	0.56
1:F:16:PHE:CD1	1:F:79:PHE:CE1	2.92	0.56
1:F:115:LEU:HD22	1:F:115:LEU:C	2.30	0.56
1:F:449:GLU:CD	1:L:465:TYR:HE2	2.12	0.56
1:G:67:LEU:CD1	1:G:88:ARG:HH11	2.17	0.56
1:G:315:THR:O	1:G:318:SER:N	2.37	0.56
1:H:67:LEU:C	1:H:69:PRO:CD	2.78	0.56
1:I:63:SER:HG	1:I:91:ILE:HG22	1.70	0.56
1:I:79:PHE:CE1	1:I:80:PHE:HB2	2.40	0.56
1:I:156:GLY:HA2	1:I:215:THR:HB	1.86	0.56
1:I:296:TYR:N	1:I:296:TYR:CD2	2.70	0.56
1:I:442:TYR:O	1:I:443:ILE:C	2.48	0.56
1:J:20:ARG:NH1	1:J:86:ILE:CG2	2.51	0.56
1:J:67:LEU:CD1	1:J:88:ARG:HH11	2.18	0.56
1:J:156:GLY:HA2	1:J:215:THR:HB	1.86	0.56
1:J:165:GLU:C	1:J:167:GLY:H	2.09	0.56
1:J:442:TYR:O	1:J:443:ILE:C	2.48	0.56
1:K:17:VAL:HG13	1:K:33:ILE:HB	1.86	0.56
1:K:163:LYS:HA	1:L:139:ARG:HD2	1.85	0.56
1:L:67:LEU:CD1	1:L:88:ARG:HH11	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:409:GLN:C	1:L:411:ALA:H	2.13	0.56
1:L:460:VAL:O	1:L:463:GLU:N	2.37	0.56
1:A:114:TYR:CD1	1:A:115:LEU:N	2.74	0.56
1:A:139:ARG:HG3	1:B:168:ASN:HB2	1.86	0.56
1:A:427:PHE:CZ	1:A:428:LEU:HD22	2.40	0.56
1:B:224:ARG:O	1:B:231:LYS:NZ	2.39	0.56
1:B:238:TYR:O	1:B:242:VAL:HG23	2.05	0.56
1:B:409:GLN:C	1:B:411:ALA:H	2.13	0.56
1:C:103:ASP:HB3	1:C:106:SER:HB2	1.88	0.56
1:C:295:LEU:HD12	1:C:295:LEU:H	1.70	0.56
1:C:316:THR:CG2	1:I:461:GLU:CG	2.82	0.56
1:D:17:VAL:HG13	1:D:33:ILE:HB	1.86	0.56
1:D:414:LEU:C	1:D:414:LEU:CD2	2.76	0.56
1:D:435:THR:HG22	1:D:436:ASP:N	2.19	0.56
1:E:315:THR:O	1:E:318:SER:N	2.37	0.56
1:F:2:ALA:O	1:F:6:LEU:CB	2.49	0.56
1:F:39:ASN:HD22	1:F:40:ALA:N	2.01	0.56
1:F:67:LEU:C	1:F:69:PRO:HD3	2.30	0.56
1:F:126:PHE:CE1	1:F:228:MET:HE2	2.40	0.56
1:G:114:TYR:CD1	1:G:115:LEU:N	2.74	0.56
1:G:139:ARG:HG3	1:L:168:ASN:HB2	1.86	0.56
1:G:427:PHE:CZ	1:G:428:LEU:HD22	2.40	0.56
1:H:126:PHE:CE1	1:H:228:MET:HE2	2.40	0.56
1:H:128:PRO:CD	1:H:231:LYS:HD3	2.34	0.56
1:H:199:MET:HB3	1:H:204:LEU:HD12	1.86	0.56
1:H:309:ASN:HB2	1:H:313:ASN:ND2	2.18	0.56
1:I:89:CYS:HB2	1:I:103:ASP:OD1	2.05	0.56
1:I:348:VAL:HB	1:I:354:ARG:NH1	2.20	0.56
1:J:17:VAL:HG13	1:J:33:ILE:HB	1.86	0.56
1:J:67:LEU:HD11	1:J:88:ARG:HB2	1.86	0.56
1:J:267:GLY:HA2	1:J:363:PRO:HD2	1.87	0.56
1:J:331:MET:HE3	1:J:396:LEU:CB	2.35	0.56
1:K:126:PHE:CE1	1:K:228:MET:HE2	2.40	0.56
1:L:114:TYR:HD1	1:L:115:LEU:N	2.04	0.56
1:L:238:TYR:O	1:L:242:VAL:HG23	2.05	0.56
1:L:366:ASN:C	1:L:368:TYR:N	2.57	0.56
1:L:399:LEU:CB	1:L:402:GLU:HB2	2.36	0.56
1:A:57:TRP:HD1	1:A:58:LYS:H	1.51	0.56
1:A:109:LYS:O	1:A:110:ARG:O	2.23	0.56
1:A:171:HIS:ND1	1:L:467:SER:OG	2.31	0.56
1:A:257:PRO:O	1:A:265:GLY:CA	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:335:SER:CA	1:A:345:ILE:HD11	2.35	0.56
1:B:139:ARG:HD2	1:C:163:LYS:HA	1.86	0.56
1:B:156:GLY:HA2	1:B:215:THR:HB	1.86	0.56
1:B:267:GLY:HA2	1:B:363:PRO:HD2	1.87	0.56
1:B:314:PRO:C	1:B:315:THR:O	2.49	0.56
1:B:399:LEU:CB	1:B:402:GLU:HB2	2.36	0.56
1:B:456:THR:O	1:H:458:HIS:HE1	1.87	0.56
1:B:460:VAL:O	1:B:463:GLU:N	2.37	0.56
1:C:17:VAL:HG13	1:C:33:ILE:HB	1.86	0.56
1:C:114:TYR:HD1	1:C:115:LEU:N	2.04	0.56
1:C:126:PHE:CE1	1:C:228:MET:HE2	2.41	0.56
1:C:192:ARG:O	1:C:195:MET:N	2.38	0.56
1:C:409:GLN:C	1:C:411:ALA:H	2.13	0.56
1:D:67:LEU:HD11	1:D:88:ARG:HB2	1.86	0.56
1:D:103:ASP:HB3	1:D:106:SER:HB2	1.88	0.56
1:D:165:GLU:C	1:D:167:GLY:H	2.09	0.56
1:D:192:ARG:O	1:D:195:MET:N	2.38	0.56
1:D:305:ALA:HA	1:D:308:ILE:HG13	1.88	0.56
1:D:335:SER:CA	1:D:345:ILE:HD11	2.35	0.56
1:E:42:PHE:CE2	1:E:66:VAL:HG21	2.40	0.56
1:E:63:SER:OG	1:E:90:ASP:O	2.16	0.56
1:E:79:PHE:CE1	1:E:80:PHE:HB2	2.40	0.56
1:E:89:CYS:HB2	1:E:103:ASP:OD1	2.05	0.56
1:E:156:GLY:HA2	1:E:215:THR:HB	1.86	0.56
1:E:296:TYR:N	1:E:296:TYR:CD2	2.70	0.56
1:E:461:GLU:CG	1:K:316:THR:CG2	2.82	0.56
1:F:102:ARG:HB2	1:F:104:PRO:CD	2.11	0.56
1:F:114:TYR:HD1	1:F:115:LEU:N	2.04	0.56
1:F:295:LEU:H	1:F:295:LEU:HD12	1.70	0.56
1:G:68:MET:CE	1:G:105:ARG:HD3	2.27	0.56
1:G:79:PHE:CE1	1:G:80:PHE:HB2	2.40	0.56
1:G:109:LYS:O	1:G:110:ARG:O	2.23	0.56
1:G:238:TYR:O	1:G:242:VAL:HG23	2.05	0.56
1:G:257:PRO:O	1:G:265:GLY:CA	2.53	0.56
1:G:335:SER:CA	1:G:345:ILE:HD11	2.35	0.56
1:G:376:MET:HE1	1:G:433:VAL:CG1	2.22	0.56
1:H:2:ALA:O	1:H:6:LEU:CB	2.49	0.56
1:H:39:ASN:HD22	1:H:40:ALA:N	2.02	0.56
1:H:65:MET:HB3	1:H:67:LEU:CD2	2.10	0.56
1:H:79:PHE:CE1	1:H:80:PHE:HB2	2.40	0.56
1:H:435:THR:HG21	1:H:437:GLU:HG2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:442:TYR:O	1:H:443:ILE:C	2.48	0.56
1:I:42:PHE:CE2	1:I:66:VAL:HG21	2.40	0.56
1:I:90:ASP:OD2	1:I:99:GLY:HA3	2.05	0.56
1:I:109:LYS:O	1:I:110:ARG:O	2.23	0.56
1:I:126:PHE:CE1	1:I:228:MET:HE2	2.40	0.56
1:I:224:ARG:O	1:I:231:LYS:NZ	2.39	0.56
1:I:238:TYR:O	1:I:242:VAL:HG23	2.05	0.56
1:I:403:GLU:HB3	1:I:406:GLU:HB2	1.87	0.56
1:I:409:GLN:C	1:I:411:ALA:H	2.13	0.56
1:J:366:ASN:C	1:J:368:TYR:N	2.57	0.56
1:J:396:LEU:HD23	1:J:397:TYR:H	1.69	0.56
1:J:414:LEU:C	1:J:414:LEU:CD2	2.76	0.56
1:K:103:ASP:HB3	1:K:106:SER:HB2	1.88	0.56
1:K:114:TYR:HD1	1:K:115:LEU:N	2.03	0.56
1:K:192:ARG:O	1:K:195:MET:N	2.38	0.56
1:K:295:LEU:HD12	1:K:295:LEU:H	1.70	0.56
1:K:409:GLN:C	1:K:411:ALA:H	2.13	0.56
1:L:95:GLY:C	1:L:97:LEU:HD11	2.30	0.56
1:L:128:PRO:CD	1:L:231:LYS:HD3	2.34	0.56
1:L:224:ARG:O	1:L:231:LYS:NZ	2.39	0.56
1:A:67:LEU:CD1	1:A:88:ARG:HH11	2.18	0.56
1:A:79:PHE:CE1	1:A:80:PHE:HB2	2.40	0.56
1:A:458:HIS:HE1	1:G:456:THR:O	1.87	0.56
1:B:95:GLY:C	1:B:97:LEU:HD11	2.30	0.56
1:B:126:PHE:CE1	1:B:228:MET:HE2	2.41	0.56
1:B:331:MET:HE3	1:B:396:LEU:CB	2.35	0.56
1:C:257:PRO:O	1:C:265:GLY:CA	2.53	0.56
1:C:305:ALA:HA	1:C:308:ILE:HG13	1.88	0.56
1:C:331:MET:HE3	1:C:396:LEU:CB	2.35	0.56
1:C:442:TYR:O	1:C:443:ILE:C	2.48	0.56
1:D:79:PHE:CE1	1:D:80:PHE:HB2	2.40	0.56
1:E:67:LEU:C	1:E:69:PRO:HD3	2.30	0.56
1:E:90:ASP:OD2	1:E:99:GLY:HA3	2.05	0.56
1:E:95:GLY:C	1:E:97:LEU:HD11	2.30	0.56
1:E:103:ASP:HB3	1:E:106:SER:HB2	1.88	0.56
1:E:126:PHE:CE1	1:E:228:MET:HE2	2.41	0.56
1:E:224:ARG:O	1:E:231:LYS:NZ	2.39	0.56
1:E:238:TYR:O	1:E:242:VAL:HG23	2.05	0.56
1:E:267:GLY:HA2	1:E:363:PRO:HD2	1.87	0.56
1:E:335:SER:CA	1:E:345:ILE:HD11	2.35	0.56
1:F:128:PRO:CD	1:F:231:LYS:HD3	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:309:ASN:HB2	1:F:313:ASN:ND2	2.18	0.56
1:F:435:THR:HG21	1:F:437:GLU:HG2	1.87	0.56
1:F:458:HIS:HE1	1:L:456:THR:O	1.87	0.56
1:G:173:PRO:O	1:G:215:THR:HA	2.06	0.56
1:H:67:LEU:HD11	1:H:88:ARG:HB2	1.86	0.56
1:H:114:TYR:HD1	1:H:115:LEU:N	2.04	0.56
1:I:103:ASP:HB3	1:I:106:SER:HB2	1.88	0.56
1:I:418:LEU:HD11	1:I:446:ARG:HB2	1.87	0.56
1:J:27:LYS:HZ2	1:J:239:LYS:CE	2.16	0.56
1:J:192:ARG:O	1:J:195:MET:N	2.38	0.56
1:J:305:ALA:HA	1:J:308:ILE:HG13	1.88	0.56
1:J:335:SER:CA	1:J:345:ILE:HD11	2.35	0.56
1:K:305:ALA:HA	1:K:308:ILE:HG13	1.88	0.56
1:K:331:MET:HE3	1:K:396:LEU:CB	2.35	0.56
1:K:440:ASP:O	1:K:441:ALA:C	2.49	0.56
1:K:442:TYR:O	1:K:443:ILE:C	2.48	0.56
1:L:114:TYR:CD1	1:L:115:LEU:N	2.73	0.56
1:L:156:GLY:HA2	1:L:215:THR:HB	1.86	0.56
1:L:314:PRO:C	1:L:315:THR:O	2.49	0.56
1:A:58:LYS:HG3	1:B:339:ARG:CB	2.35	0.56
1:A:173:PRO:O	1:A:215:THR:HA	2.06	0.56
1:B:9:LEU:CD1	1:B:14:VAL:HG21	2.34	0.56
1:B:114:TYR:CD1	1:B:115:LEU:N	2.74	0.56
1:B:114:TYR:HD1	1:B:115:LEU:N	2.04	0.56
1:B:115:LEU:HD22	1:B:115:LEU:C	2.30	0.56
1:B:403:GLU:HA	1:B:405:LYS:HE3	1.88	0.56
1:B:467:SER:OG	1:G:171:HIS:ND1	2.31	0.56
1:C:67:LEU:C	1:C:69:PRO:CD	2.78	0.56
1:C:115:LEU:C	1:C:115:LEU:HD22	2.30	0.56
1:C:125:LEU:HA	1:C:226:ASN:O	2.06	0.56
1:C:325:GLY:CA	1:C:328:ALA:HB3	2.34	0.56
1:C:440:ASP:O	1:C:441:ALA:C	2.49	0.56
1:D:115:LEU:C	1:D:115:LEU:HD22	2.30	0.56
1:D:126:PHE:CE1	1:D:228:MET:HE2	2.41	0.56
1:D:183:PRO:C	1:D:185:VAL:N	2.62	0.56
1:D:267:GLY:HA2	1:D:363:PRO:HD2	1.87	0.56
1:D:418:LEU:HD11	1:D:446:ARG:HB2	1.86	0.56
1:E:114:TYR:HD1	1:E:115:LEU:N	2.04	0.56
1:E:183:PRO:C	1:E:185:VAL:N	2.62	0.56
1:E:403:GLU:HB3	1:E:406:GLU:HB2	1.87	0.56
1:E:418:LEU:HD11	1:E:446:ARG:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:79:PHE:CE1	1:F:80:PHE:HB2	2.40	0.56
1:F:114:TYR:CD1	1:F:115:LEU:N	2.73	0.56
1:F:173:PRO:O	1:F:215:THR:HA	2.06	0.56
1:F:325:GLY:CA	1:F:328:ALA:HB3	2.34	0.56
1:F:442:TYR:O	1:F:443:ILE:C	2.48	0.56
1:G:58:LYS:HG3	1:L:339:ARG:CB	2.35	0.56
1:G:331:MET:HE3	1:G:396:LEU:CB	2.35	0.56
1:G:418:LEU:HD11	1:G:446:ARG:HB2	1.87	0.56
1:H:67:LEU:C	1:H:69:PRO:HD3	2.30	0.56
1:H:89:CYS:HB2	1:H:103:ASP:OD1	2.05	0.56
1:H:295:LEU:H	1:H:295:LEU:HD12	1.70	0.56
1:I:63:SER:OG	1:I:90:ASP:O	2.16	0.56
1:I:67:LEU:C	1:I:69:PRO:HD3	2.30	0.56
1:I:183:PRO:C	1:I:185:VAL:N	2.62	0.56
1:I:305:ALA:HA	1:I:308:ILE:HG13	1.87	0.56
1:I:335:SER:CA	1:I:345:ILE:HD11	2.35	0.56
1:I:376:MET:HE1	1:I:433:VAL:CG1	2.22	0.56
1:J:79:PHE:CE1	1:J:80:PHE:HB2	2.40	0.56
1:J:103:ASP:HB3	1:J:106:SER:HB2	1.88	0.56
1:J:126:PHE:CE1	1:J:228:MET:HE2	2.40	0.56
1:K:67:LEU:C	1:K:69:PRO:CD	2.78	0.56
1:K:257:PRO:O	1:K:265:GLY:CA	2.53	0.56
1:K:350:SER:C	1:K:352:LYS:H	2.13	0.56
1:K:464:LEU:HD23	1:K:465:TYR:H	1.67	0.56
1:L:9:LEU:CD1	1:L:14:VAL:HG21	2.34	0.56
1:L:67:LEU:C	1:L:69:PRO:HD3	2.30	0.56
1:L:115:LEU:C	1:L:115:LEU:HD22	2.30	0.56
1:L:126:PHE:CE1	1:L:228:MET:HE2	2.41	0.56
1:A:114:TYR:HD1	1:A:115:LEU:N	2.04	0.56
1:A:418:LEU:HD11	1:A:446:ARG:HB2	1.87	0.56
1:A:456:THR:O	1:G:458:HIS:HE1	1.87	0.56
1:B:283:SER:C	1:B:291:SER:HB3	2.30	0.56
1:B:305:ALA:HA	1:B:308:ILE:HG13	1.88	0.56
1:C:157:ALA:H	1:C:215:THR:CG2	2.08	0.56
1:C:350:SER:C	1:C:352:LYS:H	2.13	0.56
1:D:224:ARG:O	1:D:231:LYS:NZ	2.39	0.56
1:D:396:LEU:HD23	1:D:397:TYR:H	1.69	0.56
1:E:114:TYR:CD1	1:E:115:LEU:N	2.73	0.56
1:E:115:LEU:HD22	1:E:115:LEU:C	2.30	0.56
1:E:125:LEU:HA	1:E:226:ASN:O	2.06	0.56
1:E:315:THR:HG23	1:E:449:GLU:OE1	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:351:PRO:CG	1:E:352:LYS:N	2.69	0.56
1:E:409:GLN:C	1:E:411:ALA:H	2.13	0.56
1:E:465:TYR:HE2	1:K:315:THR:CG2	2.04	0.56
1:E:466:TYR:N	1:K:256:MET:HE3	2.21	0.56
1:F:67:LEU:HD11	1:F:88:ARG:HB2	1.86	0.56
1:F:89:CYS:HB2	1:F:103:ASP:OD1	2.05	0.56
1:F:331:MET:HE3	1:F:396:LEU:CB	2.35	0.56
1:F:427:PHE:CZ	1:F:428:LEU:HD22	2.40	0.56
1:G:57:TRP:HD1	1:G:58:LYS:H	1.52	0.56
1:G:114:TYR:HD1	1:G:115:LEU:N	2.04	0.56
1:G:126:PHE:CE1	1:G:228:MET:HE2	2.40	0.56
1:G:192:ARG:O	1:G:195:MET:N	2.38	0.56
1:G:283:SER:C	1:G:291:SER:HB3	2.30	0.56
1:G:399:LEU:CB	1:G:402:GLU:HB2	2.35	0.56
1:H:114:TYR:CD1	1:H:115:LEU:N	2.74	0.56
1:H:173:PRO:O	1:H:215:THR:HA	2.06	0.56
1:H:403:GLU:HA	1:H:405:LYS:HE3	1.88	0.56
1:I:114:TYR:CD1	1:I:115:LEU:N	2.74	0.56
1:I:125:LEU:HA	1:I:226:ASN:O	2.06	0.56
1:J:16:PHE:CD1	1:J:79:PHE:CE1	2.93	0.56
1:J:183:PRO:C	1:J:185:VAL:N	2.62	0.56
1:J:224:ARG:O	1:J:231:LYS:NZ	2.39	0.56
1:K:125:LEU:HA	1:K:226:ASN:O	2.06	0.56
1:K:399:LEU:CB	1:K:402:GLU:HB2	2.35	0.56
1:L:305:ALA:HA	1:L:308:ILE:HG13	1.88	0.56
1:L:331:MET:HE3	1:L:396:LEU:CB	2.35	0.56
1:A:165:GLU:C	1:A:167:GLY:H	2.09	0.56
1:A:192:ARG:O	1:A:195:MET:N	2.38	0.56
1:A:331:MET:HE3	1:A:396:LEU:CB	2.36	0.56
1:A:399:LEU:CB	1:A:402:GLU:HB2	2.36	0.56
1:B:2:ALA:O	1:B:6:LEU:CB	2.50	0.56
1:B:440:ASP:O	1:B:441:ALA:C	2.49	0.56
1:C:173:PRO:O	1:C:215:THR:HA	2.06	0.56
1:D:16:PHE:CD1	1:D:79:PHE:CE1	2.93	0.56
1:D:257:PRO:O	1:D:265:GLY:CA	2.53	0.56
1:D:350:SER:C	1:D:352:LYS:H	2.13	0.56
1:D:409:GLN:C	1:D:411:ALA:H	2.13	0.56
1:D:435:THR:HG21	1:D:437:GLU:HG2	1.87	0.56
1:E:305:ALA:HA	1:E:308:ILE:HG13	1.88	0.56
1:F:335:SER:CA	1:F:345:ILE:HD11	2.35	0.56
1:F:396:LEU:HD23	1:F:397:TYR:H	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:399:LEU:CB	1:F:402:GLU:HB2	2.35	0.56
1:F:403:GLU:HA	1:F:405:LYS:HE3	1.88	0.56
1:H:90:ASP:OD2	1:H:99:GLY:HA3	2.05	0.56
1:H:325:GLY:CA	1:H:328:ALA:HB3	2.34	0.56
1:I:67:LEU:HD11	1:I:88:ARG:HB2	1.86	0.56
1:I:227:THR:O	1:I:228:MET:C	2.48	0.56
1:J:67:LEU:C	1:J:69:PRO:CD	2.78	0.56
1:J:114:TYR:CD1	1:J:115:LEU:N	2.73	0.56
1:J:115:LEU:C	1:J:115:LEU:HD22	2.30	0.56
1:J:435:THR:HG21	1:J:437:GLU:HG2	1.87	0.56
1:K:49:PHE:N	1:K:49:PHE:CD2	2.71	0.56
1:K:67:LEU:C	1:K:69:PRO:N	2.62	0.56
1:K:90:ASP:OD2	1:K:99:GLY:HA3	2.05	0.56
1:K:157:ALA:H	1:K:215:THR:CG2	2.08	0.56
1:K:325:GLY:CA	1:K:328:ALA:HB3	2.34	0.56
1:K:379:LEU:O	1:K:383:LYS:N	2.20	0.56
1:L:345:ILE:HG12	1:L:345:ILE:O	2.06	0.56
1:L:403:GLU:HA	1:L:405:LYS:HE3	1.88	0.56
1:L:440:ASP:O	1:L:441:ALA:C	2.49	0.56
1:A:126:PHE:CE1	1:A:228:MET:HE2	2.41	0.56
1:A:156:GLY:HA2	1:A:215:THR:HB	1.86	0.56
1:A:283:SER:C	1:A:291:SER:HB3	2.30	0.56
1:A:442:TYR:O	1:A:443:ILE:C	2.48	0.56
1:B:67:LEU:C	1:B:69:PRO:CD	2.78	0.56
1:B:157:ALA:H	1:B:215:THR:CG2	2.08	0.56
1:B:173:PRO:O	1:B:215:THR:HA	2.06	0.56
1:B:345:ILE:O	1:B:345:ILE:HG12	2.06	0.56
1:C:256:MET:HE3	1:I:466:TYR:N	2.21	0.56
1:C:399:LEU:CB	1:C:402:GLU:HB2	2.36	0.56
1:C:403:GLU:HA	1:C:405:LYS:HE3	1.88	0.56
1:D:67:LEU:C	1:D:69:PRO:CD	2.78	0.56
1:D:90:ASP:OD2	1:D:99:GLY:HA3	2.06	0.56
1:D:114:TYR:CD1	1:D:115:LEU:N	2.74	0.56
1:D:114:TYR:HD1	1:D:115:LEU:N	2.03	0.56
1:D:256:MET:HE3	1:J:466:TYR:N	2.21	0.56
1:D:351:PRO:CG	1:D:352:LYS:N	2.69	0.56
1:D:425:ARG:O	1:D:428:LEU:HB2	2.06	0.56
1:D:466:TYR:N	1:J:256:MET:HE3	2.21	0.56
1:E:67:LEU:HD11	1:E:88:ARG:HB2	1.86	0.56
1:E:173:PRO:O	1:E:215:THR:HA	2.06	0.56
1:E:227:THR:O	1:E:228:MET:C	2.48	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:336:ALA:N	1:E:345:ILE:CD1	2.69	0.56
1:F:65:MET:HB3	1:F:67:LEU:CD2	2.10	0.56
1:F:67:LEU:CD1	1:F:88:ARG:HH11	2.18	0.56
1:F:113:ASP:OD2	1:F:113:ASP:C	2.49	0.56
1:G:156:GLY:HA2	1:G:215:THR:HB	1.86	0.56
1:G:165:GLU:C	1:G:167:GLY:H	2.09	0.56
1:G:403:GLU:HA	1:G:405:LYS:HE3	1.88	0.56
1:G:442:TYR:O	1:G:443:ILE:C	2.48	0.56
1:H:39:ASN:HD21	1:H:42:PHE:H	1.52	0.56
1:H:427:PHE:CZ	1:H:428:LEU:HD22	2.40	0.56
1:I:39:ASN:HD21	1:I:42:PHE:H	1.52	0.56
1:I:54:ILE:CD1	1:I:102:ARG:CD	2.73	0.56
1:I:115:LEU:HD22	1:I:115:LEU:C	2.30	0.56
1:I:173:PRO:O	1:I:215:THR:HA	2.06	0.56
1:I:209:HIS:CE1	1:J:32:THR:HB	2.41	0.56
1:I:315:THR:HG23	1:I:449:GLU:OE1	2.06	0.56
1:I:331:MET:HE3	1:I:396:LEU:CB	2.36	0.56
1:I:336:ALA:N	1:I:345:ILE:CD1	2.69	0.56
1:I:351:PRO:CG	1:I:352:LYS:N	2.69	0.56
1:J:238:TYR:O	1:J:242:VAL:HG23	2.05	0.56
1:J:257:PRO:O	1:J:265:GLY:CA	2.53	0.56
1:J:336:ALA:N	1:J:345:ILE:CD1	2.69	0.56
1:J:418:LEU:HD11	1:J:446:ARG:HB2	1.87	0.56
1:J:425:ARG:O	1:J:428:LEU:HB2	2.06	0.56
1:K:67:LEU:C	1:K:69:PRO:HD3	2.30	0.56
1:K:115:LEU:C	1:K:115:LEU:HD22	2.30	0.56
1:K:173:PRO:O	1:K:215:THR:HA	2.06	0.56
1:L:157:ALA:H	1:L:215:THR:CG2	2.09	0.56
1:L:199:MET:HB3	1:L:204:LEU:HD12	1.86	0.56
1:L:267:GLY:HA2	1:L:363:PRO:HD2	1.87	0.56
1:L:283:SER:C	1:L:291:SER:HB3	2.30	0.56
1:B:199:MET:HB3	1:B:204:LEU:HD12	1.86	0.56
1:B:325:GLY:CA	1:B:328:ALA:HB3	2.34	0.56
1:C:42:PHE:CE2	1:C:66:VAL:HG21	2.40	0.56
1:C:315:THR:CG2	1:I:465:TYR:HE2	2.04	0.56
1:D:32:THR:HB	1:E:209:HIS:CE1	2.41	0.56
1:D:57:TRP:HD1	1:D:58:LYS:H	1.51	0.56
1:D:336:ALA:N	1:D:345:ILE:CD1	2.69	0.56
1:E:39:ASN:HD21	1:E:42:PHE:H	1.52	0.56
1:E:42:PHE:CE1	1:E:66:VAL:CG1	2.89	0.56
1:F:39:ASN:HD21	1:F:42:PHE:H	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:90:ASP:OD2	1:F:99:GLY:HA3	2.05	0.56
1:F:256:MET:HE3	1:L:466:TYR:N	2.21	0.56
1:F:314:PRO:C	1:F:315:THR:O	2.49	0.56
1:F:418:LEU:HD11	1:F:446:ARG:HB2	1.87	0.56
1:G:224:ARG:O	1:G:231:LYS:NZ	2.39	0.56
1:G:314:PRO:C	1:G:315:THR:O	2.49	0.56
1:H:67:LEU:CD1	1:H:88:ARG:HH11	2.18	0.56
1:H:314:PRO:C	1:H:315:THR:O	2.49	0.56
1:H:331:MET:HE3	1:H:396:LEU:CB	2.36	0.56
1:H:399:LEU:CB	1:H:402:GLU:HB2	2.36	0.56
1:I:114:TYR:HD1	1:I:115:LEU:N	2.04	0.56
1:I:192:ARG:O	1:I:195:MET:N	2.39	0.56
1:J:90:ASP:OD2	1:J:99:GLY:HA3	2.06	0.56
1:J:350:SER:C	1:J:352:LYS:H	2.13	0.56
1:J:396:LEU:HD23	1:J:397:TYR:N	2.21	0.56
1:K:79:PHE:CE1	1:K:80:PHE:HB2	2.40	0.56
1:K:403:GLU:HA	1:K:405:LYS:HE3	1.88	0.56
1:K:425:ARG:O	1:K:428:LEU:HB2	2.06	0.56
1:L:2:ALA:O	1:L:6:LEU:CB	2.49	0.56
1:L:86:ILE:N	1:L:86:ILE:CD1	2.44	0.56
1:L:90:ASP:OD2	1:L:99:GLY:HA3	2.05	0.56
1:L:173:PRO:O	1:L:215:THR:HA	2.06	0.56
1:L:325:GLY:CA	1:L:328:ALA:HB3	2.34	0.56
1:L:442:TYR:O	1:L:443:ILE:C	2.48	0.56
1:A:95:GLY:C	1:A:97:LEU:HD11	2.30	0.56
1:A:224:ARG:O	1:A:231:LYS:NZ	2.39	0.56
1:A:314:PRO:C	1:A:315:THR:O	2.49	0.56
1:A:348:VAL:HB	1:A:354:ARG:HH11	1.71	0.56
1:A:351:PRO:CG	1:A:352:LYS:N	2.69	0.56
1:A:403:GLU:HA	1:A:405:LYS:HE3	1.88	0.56
1:B:89:CYS:HB2	1:B:103:ASP:OD1	2.05	0.56
1:B:90:ASP:OD2	1:B:99:GLY:HA3	2.06	0.56
1:B:125:LEU:HA	1:B:226:ASN:O	2.06	0.56
1:B:351:PRO:CG	1:B:352:LYS:N	2.69	0.56
1:B:396:LEU:HD23	1:B:397:TYR:N	2.21	0.56
1:B:442:TYR:O	1:B:443:ILE:C	2.48	0.56
1:C:49:PHE:N	1:C:49:PHE:CD2	2.71	0.56
1:C:67:LEU:C	1:C:69:PRO:HD3	2.30	0.56
1:C:67:LEU:C	1:C:69:PRO:N	2.63	0.56
1:C:79:PHE:CE1	1:C:80:PHE:HB2	2.40	0.56
1:C:90:ASP:OD2	1:C:99:GLY:HA3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:165:GLU:C	1:C:167:GLY:H	2.09	0.56
1:C:314:PRO:C	1:C:315:THR:O	2.49	0.56
1:D:214:ALA:HB1	1:D:263:ASP:OD2	2.06	0.56
1:D:396:LEU:HD23	1:D:397:TYR:N	2.21	0.56
1:D:425:ARG:HB3	1:D:429:LYS:HD3	1.88	0.56
1:E:54:ILE:CD1	1:E:102:ARG:CD	2.73	0.56
1:E:67:LEU:O	1:E:69:PRO:N	2.39	0.56
1:E:67:LEU:C	1:E:69:PRO:CD	2.78	0.56
1:E:118:THR:OG1	1:E:119:GLY:N	2.39	0.56
1:E:331:MET:HE3	1:E:396:LEU:CB	2.36	0.56
1:E:399:LEU:CB	1:E:402:GLU:HB2	2.36	0.56
1:E:425:ARG:O	1:E:428:LEU:HB2	2.06	0.56
1:F:224:ARG:O	1:F:231:LYS:NZ	2.38	0.56
1:G:209:HIS:CE1	1:H:32:THR:HB	2.41	0.56
1:G:351:PRO:CG	1:G:352:LYS:N	2.69	0.56
1:H:96:THR:O	1:H:97:LEU:CG	2.46	0.56
1:H:267:GLY:HA2	1:H:363:PRO:HD2	1.87	0.56
1:H:418:LEU:HD11	1:H:446:ARG:HB2	1.87	0.56
1:H:425:ARG:O	1:H:428:LEU:HB2	2.06	0.56
1:I:36:HIS:C	1:I:38:VAL:N	2.60	0.56
1:I:54:ILE:CB	1:I:101:ASP:HB2	2.34	0.56
1:I:67:LEU:O	1:I:69:PRO:N	2.39	0.56
1:I:118:THR:OG1	1:I:119:GLY:N	2.39	0.56
1:I:267:GLY:HA2	1:I:363:PRO:HD2	1.87	0.56
1:J:114:TYR:HD1	1:J:115:LEU:N	2.04	0.56
1:J:351:PRO:CG	1:J:352:LYS:N	2.69	0.56
1:J:409:GLN:C	1:J:411:ALA:H	2.13	0.56
1:K:42:PHE:CE2	1:K:66:VAL:HG21	2.40	0.56
1:L:16:PHE:CD1	1:L:79:PHE:CE1	2.93	0.56
1:L:351:PRO:CG	1:L:352:LYS:N	2.69	0.56
1:L:396:LEU:HD23	1:L:397:TYR:N	2.21	0.56
1:A:16:PHE:CD1	1:A:79:PHE:CE1	2.92	0.55
1:A:209:HIS:CE1	1:F:32:THR:HB	2.41	0.55
1:A:315:THR:HG23	1:A:449:GLU:OE1	2.06	0.55
1:A:396:LEU:HD23	1:A:397:TYR:N	2.21	0.55
1:B:16:PHE:CD1	1:B:79:PHE:CE1	2.93	0.55
1:B:466:TYR:N	1:H:256:MET:HE3	2.21	0.55
1:C:17:VAL:HA	1:C:83:SER:O	2.07	0.55
1:C:114:TYR:CD1	1:C:115:LEU:N	2.74	0.55
1:C:376:MET:HE3	1:C:433:VAL:CB	2.37	0.55
1:C:425:ARG:O	1:C:428:LEU:HB2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:66:VAL:N	1:D:87:ILE:HG23	2.21	0.55
1:D:89:CYS:HB2	1:D:103:ASP:OD1	2.05	0.55
1:D:345:ILE:HG12	1:D:345:ILE:O	2.06	0.55
1:E:17:VAL:HA	1:E:83:SER:O	2.06	0.55
1:E:36:HIS:C	1:E:38:VAL:N	2.60	0.55
1:E:192:ARG:O	1:E:195:MET:N	2.39	0.55
1:F:96:THR:O	1:F:97:LEU:CG	2.46	0.55
1:F:351:PRO:CG	1:F:352:LYS:N	2.69	0.55
1:G:16:PHE:CD1	1:G:79:PHE:CE1	2.92	0.55
1:G:67:LEU:C	1:G:69:PRO:HD3	2.30	0.55
1:G:315:THR:HG23	1:G:449:GLU:OE1	2.06	0.55
1:H:113:ASP:C	1:H:113:ASP:OD2	2.50	0.55
1:H:224:ARG:O	1:H:231:LYS:NZ	2.39	0.55
1:H:335:SER:CA	1:H:345:ILE:HD11	2.35	0.55
1:H:336:ALA:N	1:H:345:ILE:CD1	2.69	0.55
1:H:351:PRO:CG	1:H:352:LYS:N	2.69	0.55
1:I:42:PHE:CE1	1:I:66:VAL:CG1	2.90	0.55
1:I:67:LEU:C	1:I:69:PRO:CD	2.78	0.55
1:I:283:SER:C	1:I:291:SER:HB3	2.29	0.55
1:J:66:VAL:N	1:J:87:ILE:HG23	2.21	0.55
1:J:125:LEU:HA	1:J:226:ASN:O	2.06	0.55
1:J:399:LEU:CB	1:J:402:GLU:HB2	2.35	0.55
1:K:114:TYR:CD1	1:K:115:LEU:N	2.73	0.55
1:K:283:SER:O	1:K:291:SER:CB	2.45	0.55
1:K:376:MET:HE3	1:K:433:VAL:CB	2.36	0.55
1:L:67:LEU:C	1:L:69:PRO:CD	2.78	0.55
1:L:89:CYS:HB2	1:L:103:ASP:OD1	2.05	0.55
1:L:109:LYS:O	1:L:110:ARG:O	2.23	0.55
1:A:67:LEU:C	1:A:69:PRO:HD3	2.30	0.55
1:A:295:LEU:H	1:A:295:LEU:HD12	1.70	0.55
1:A:435:THR:HG21	1:A:437:GLU:HG2	1.87	0.55
1:B:256:MET:HE3	1:H:466:TYR:N	2.21	0.55
1:B:336:ALA:N	1:B:345:ILE:CD1	2.69	0.55
1:C:283:SER:O	1:C:291:SER:CB	2.45	0.55
1:C:351:PRO:CG	1:C:352:LYS:N	2.69	0.55
1:D:42:PHE:CE2	1:D:66:VAL:HG21	2.40	0.55
1:D:42:PHE:CE1	1:D:66:VAL:CG1	2.89	0.55
1:D:125:LEU:HA	1:D:226:ASN:O	2.06	0.55
1:E:54:ILE:CB	1:E:101:ASP:HB2	2.34	0.55
1:E:392:MET:CE	1:E:392:MET:HA	2.23	0.55
1:F:125:LEU:HA	1:F:226:ASN:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:267:GLY:HA2	1:F:363:PRO:HD2	1.87	0.55
1:F:348:VAL:HB	1:F:354:ARG:HH11	1.71	0.55
1:F:466:TYR:N	1:L:256:MET:HE3	2.21	0.55
1:G:125:LEU:HA	1:G:226:ASN:O	2.06	0.55
1:G:348:VAL:HB	1:G:354:ARG:HH11	1.72	0.55
1:I:392:MET:CE	1:I:392:MET:HA	2.23	0.55
1:I:399:LEU:CB	1:I:402:GLU:HB2	2.36	0.55
1:I:425:ARG:O	1:I:428:LEU:HB2	2.06	0.55
1:J:42:PHE:CE1	1:J:66:VAL:CG1	2.89	0.55
1:J:214:ALA:HB1	1:J:263:ASP:OD2	2.06	0.55
1:J:403:GLU:HA	1:J:405:LYS:HE3	1.88	0.55
1:J:425:ARG:HB3	1:J:429:LYS:HD3	1.89	0.55
1:K:17:VAL:HA	1:K:83:SER:O	2.07	0.55
1:K:209:HIS:CE1	1:L:32:THR:HB	2.41	0.55
1:L:125:LEU:HA	1:L:226:ASN:O	2.06	0.55
1:L:288:ALA:HB3	1:L:290:LEU:HD12	1.88	0.55
1:L:315:THR:O	1:L:318:SER:N	2.37	0.55
1:A:90:ASP:OD2	1:A:99:GLY:HA3	2.05	0.55
1:A:288:ALA:HB3	1:A:290:LEU:HD12	1.89	0.55
1:B:32:THR:HB	1:C:209:HIS:CE1	2.41	0.55
1:B:79:PHE:CE1	1:B:80:PHE:HB2	2.40	0.55
1:B:109:LYS:O	1:B:110:ARG:O	2.23	0.55
1:C:96:THR:O	1:C:97:LEU:CG	2.46	0.55
1:C:379:LEU:O	1:C:383:LYS:N	2.20	0.55
1:C:425:ARG:HB3	1:C:429:LYS:HD3	1.88	0.55
1:D:376:MET:HE3	1:D:433:VAL:CB	2.36	0.55
1:D:399:LEU:CB	1:D:402:GLU:HB2	2.36	0.55
1:E:396:LEU:HD23	1:E:397:TYR:N	2.21	0.55
1:E:403:GLU:HA	1:E:405:LYS:HE3	1.88	0.55
1:F:336:ALA:N	1:F:345:ILE:CD1	2.69	0.55
1:F:425:ARG:O	1:F:428:LEU:HB2	2.06	0.55
1:G:95:GLY:C	1:G:97:LEU:HD11	2.30	0.55
1:G:288:ALA:HB3	1:G:290:LEU:HD12	1.89	0.55
1:G:396:LEU:HD23	1:G:397:TYR:N	2.21	0.55
1:G:435:THR:HG21	1:G:437:GLU:HG2	1.87	0.55
1:H:348:VAL:HB	1:H:354:ARG:HH11	1.72	0.55
1:I:2:ALA:O	1:I:6:LEU:CB	2.49	0.55
1:I:257:PRO:O	1:I:265:GLY:CA	2.53	0.55
1:I:362:ASP:C	1:I:364:ALA:N	2.61	0.55
1:I:396:LEU:HD23	1:I:397:TYR:N	2.21	0.55
1:J:42:PHE:CE2	1:J:66:VAL:HG21	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:57:TRP:HD1	1:J:58:LYS:H	1.52	0.55
1:J:89:CYS:HB2	1:J:103:ASP:OD1	2.05	0.55
1:J:107:ILE:O	1:J:108:ALA:C	2.49	0.55
1:J:314:PRO:C	1:J:315:THR:O	2.49	0.55
1:J:345:ILE:O	1:J:345:ILE:HG12	2.06	0.55
1:J:376:MET:HE3	1:J:433:VAL:CB	2.37	0.55
1:J:403:GLU:HB3	1:J:406:GLU:HB2	1.87	0.55
1:K:113:ASP:C	1:K:113:ASP:OD2	2.49	0.55
1:K:165:GLU:C	1:K:167:GLY:H	2.08	0.55
1:K:351:PRO:CG	1:K:352:LYS:N	2.69	0.55
1:K:425:ARG:HB3	1:K:429:LYS:HD3	1.88	0.55
1:L:79:PHE:CE1	1:L:80:PHE:HB2	2.40	0.55
1:L:336:ALA:N	1:L:345:ILE:CD1	2.69	0.55
1:L:379:LEU:O	1:L:383:LYS:N	2.20	0.55
1:L:435:THR:HG21	1:L:437:GLU:HG2	1.87	0.55
1:A:42:PHE:CE2	1:A:66:VAL:HG21	2.40	0.55
1:A:89:CYS:HB2	1:A:103:ASP:OD1	2.05	0.55
1:A:425:ARG:O	1:A:428:LEU:HB2	2.06	0.55
1:B:42:PHE:CE1	1:B:66:VAL:CG1	2.89	0.55
1:B:57:TRP:HD1	1:B:58:LYS:H	1.52	0.55
1:B:103:ASP:HB3	1:B:106:SER:HB2	1.88	0.55
1:B:107:ILE:O	1:B:108:ALA:C	2.49	0.55
1:C:89:CYS:HB2	1:C:103:ASP:OD1	2.05	0.55
1:C:113:ASP:C	1:C:113:ASP:OD2	2.49	0.55
1:C:118:THR:OG1	1:C:119:GLY:N	2.39	0.55
1:C:224:ARG:O	1:C:231:LYS:NZ	2.39	0.55
1:C:315:THR:HG23	1:C:449:GLU:OE1	2.06	0.55
1:C:348:VAL:HB	1:C:354:ARG:HH11	1.72	0.55
1:C:396:LEU:HD23	1:C:397:TYR:N	2.21	0.55
1:D:67:LEU:C	1:D:69:PRO:HD3	2.30	0.55
1:D:107:ILE:O	1:D:108:ALA:C	2.49	0.55
1:E:2:ALA:O	1:E:6:LEU:CB	2.49	0.55
1:E:21:PHE:CE1	1:E:31:VAL:O	2.60	0.55
1:F:30:HIS:ND1	1:F:30:HIS:C	2.65	0.55
1:F:118:THR:OG1	1:F:119:GLY:N	2.39	0.55
1:G:295:LEU:HD12	1:G:295:LEU:H	1.70	0.55
1:G:440:ASP:O	1:G:441:ALA:C	2.49	0.55
1:H:67:LEU:O	1:H:69:PRO:N	2.39	0.55
1:H:118:THR:OG1	1:H:119:GLY:N	2.39	0.55
1:I:403:GLU:HA	1:I:405:LYS:HE3	1.88	0.55
1:I:440:ASP:O	1:I:441:ALA:C	2.49	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:103:ASP:N	1:K:104:PRO:CD	2.60	0.55
1:K:109:LYS:O	1:K:110:ARG:O	2.23	0.55
1:K:118:THR:OG1	1:K:119:GLY:N	2.39	0.55
1:K:224:ARG:O	1:K:231:LYS:NZ	2.39	0.55
1:K:314:PRO:C	1:K:315:THR:O	2.49	0.55
1:K:348:VAL:HB	1:K:354:ARG:HH11	1.72	0.55
1:L:42:PHE:CE1	1:L:66:VAL:CG1	2.89	0.55
1:L:57:TRP:HD1	1:L:58:LYS:H	1.52	0.55
1:L:192:ARG:O	1:L:195:MET:N	2.38	0.55
1:L:315:THR:HG23	1:L:449:GLU:OE1	2.06	0.55
1:L:348:VAL:HB	1:L:354:ARG:HH11	1.72	0.55
1:A:103:ASP:N	1:A:104:PRO:CD	2.60	0.55
1:A:440:ASP:O	1:A:441:ALA:C	2.49	0.55
1:B:76:ILE:HD11	1:B:202:MET:SD	2.47	0.55
1:B:118:THR:OG1	1:B:119:GLY:N	2.39	0.55
1:B:288:ALA:HB3	1:B:290:LEU:HD12	1.89	0.55
1:B:315:THR:HG23	1:B:449:GLU:OE1	2.06	0.55
1:B:315:THR:O	1:B:318:SER:N	2.37	0.55
1:B:348:VAL:HB	1:B:354:ARG:HH11	1.72	0.55
1:B:379:LEU:O	1:B:383:LYS:N	2.20	0.55
1:C:109:LYS:O	1:C:110:ARG:O	2.23	0.55
1:D:238:TYR:O	1:D:242:VAL:HG23	2.05	0.55
1:D:314:PRO:C	1:D:315:THR:O	2.49	0.55
1:D:403:GLU:HB3	1:D:406:GLU:HB2	1.87	0.55
1:E:66:VAL:N	1:E:87:ILE:HG23	2.21	0.55
1:E:257:PRO:O	1:E:265:GLY:CA	2.53	0.55
1:E:403:GLU:HA	1:E:406:GLU:HB2	1.89	0.55
1:E:440:ASP:O	1:E:441:ALA:C	2.49	0.55
1:F:67:LEU:O	1:F:69:PRO:N	2.39	0.55
1:F:68:MET:CE	1:F:105:ARG:HD3	2.27	0.55
1:F:78:PRO:CB	1:F:79:PHE:CD2	2.89	0.55
1:G:42:PHE:CE2	1:G:66:VAL:HG21	2.40	0.55
1:G:228:MET:O	1:G:229:THR:C	2.46	0.55
1:G:305:ALA:HA	1:G:308:ILE:HG13	1.87	0.55
1:H:103:ASP:HB3	1:H:106:SER:HB2	1.88	0.55
1:H:125:LEU:HA	1:H:226:ASN:O	2.06	0.55
1:I:17:VAL:HA	1:I:83:SER:O	2.07	0.55
1:I:30:HIS:C	1:I:30:HIS:ND1	2.65	0.55
1:J:67:LEU:C	1:J:69:PRO:HD3	2.30	0.55
1:K:89:CYS:HB2	1:K:103:ASP:OD1	2.05	0.55
1:K:96:THR:O	1:K:97:LEU:CG	2.46	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:207:GLU:O	1:K:208:ALA:HB2	2.07	0.55
1:K:315:THR:HG23	1:K:449:GLU:OE1	2.06	0.55
1:L:42:PHE:CE2	1:L:66:VAL:HG21	2.40	0.55
1:L:76:ILE:HD11	1:L:202:MET:SD	2.47	0.55
1:A:125:LEU:HA	1:A:226:ASN:O	2.06	0.55
1:A:267:GLY:HA2	1:A:363:PRO:HD2	1.87	0.55
1:B:17:VAL:HA	1:B:83:SER:O	2.07	0.55
1:B:192:ARG:O	1:B:195:MET:N	2.38	0.55
1:C:21:PHE:CE1	1:C:31:VAL:O	2.60	0.55
1:C:42:PHE:CE1	1:C:66:VAL:CG1	2.89	0.55
1:C:76:ILE:HD11	1:C:202:MET:SD	2.47	0.55
1:C:207:GLU:O	1:C:208:ALA:HB2	2.07	0.55
1:D:298:ILE:HG12	1:D:356:ILE:HD11	1.89	0.55
1:D:315:THR:HG23	1:D:449:GLU:OE1	2.06	0.55
1:D:403:GLU:HA	1:D:405:LYS:HE3	1.88	0.55
1:E:30:HIS:C	1:E:30:HIS:ND1	2.65	0.55
1:E:283:SER:C	1:E:291:SER:HB3	2.30	0.55
1:E:362:ASP:C	1:E:364:ALA:N	2.61	0.55
1:F:296:TYR:CB	1:F:382:ILE:CA	2.84	0.55
1:G:89:CYS:HB2	1:G:103:ASP:OD1	2.05	0.55
1:G:90:ASP:OD2	1:G:99:GLY:HA3	2.06	0.55
1:G:107:ILE:O	1:G:108:ALA:C	2.49	0.55
1:G:227:THR:O	1:G:228:MET:C	2.48	0.55
1:G:267:GLY:HA2	1:G:363:PRO:HD2	1.87	0.55
1:G:379:LEU:O	1:G:383:LYS:N	2.20	0.55
1:G:425:ARG:O	1:G:428:LEU:HB2	2.06	0.55
1:H:17:VAL:HA	1:H:83:SER:O	2.06	0.55
1:H:30:HIS:C	1:H:30:HIS:ND1	2.65	0.55
1:H:78:PRO:CB	1:H:79:PHE:CD2	2.89	0.55
1:H:107:ILE:O	1:H:108:ALA:C	2.49	0.55
1:H:192:ARG:O	1:H:195:MET:N	2.38	0.55
1:I:21:PHE:CE1	1:I:31:VAL:O	2.60	0.55
1:I:425:ARG:HB3	1:I:429:LYS:HD3	1.88	0.55
1:J:348:VAL:HB	1:J:354:ARG:HH11	1.72	0.55
1:K:66:VAL:N	1:K:87:ILE:HG23	2.21	0.55
1:K:396:LEU:HD23	1:K:397:TYR:N	2.21	0.55
1:K:435:THR:HG21	1:K:437:GLU:HG2	1.87	0.55
1:L:17:VAL:HA	1:L:83:SER:O	2.06	0.55
1:L:103:ASP:HB3	1:L:106:SER:HB2	1.88	0.55
1:L:107:ILE:O	1:L:108:ALA:C	2.49	0.55
1:L:118:THR:OG1	1:L:119:GLY:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:78:PRO:CB	1:A:79:PHE:CD2	2.89	0.55
1:A:107:ILE:O	1:A:108:ALA:C	2.49	0.55
1:A:207:GLU:O	1:A:208:ALA:HB2	2.07	0.55
1:A:256:MET:HE3	1:G:466:TYR:N	2.21	0.55
1:A:466:TYR:N	1:G:256:MET:HE3	2.21	0.55
1:B:23:ASP:CB	1:B:28:GLU:HA	2.34	0.55
1:B:66:VAL:N	1:B:87:ILE:HG23	2.21	0.55
1:B:67:LEU:C	1:B:69:PRO:N	2.63	0.55
1:B:295:LEU:H	1:B:295:LEU:HD12	1.70	0.55
1:B:435:THR:HG21	1:B:437:GLU:HG2	1.87	0.55
1:C:66:VAL:N	1:C:87:ILE:HG23	2.21	0.55
1:C:403:GLU:HB3	1:C:406:GLU:HB2	1.87	0.55
1:C:435:THR:HG21	1:C:437:GLU:HG2	1.87	0.55
1:D:17:VAL:HA	1:D:83:SER:O	2.07	0.55
1:D:30:HIS:C	1:D:30:HIS:ND1	2.65	0.55
1:D:67:LEU:O	1:D:69:PRO:N	2.39	0.55
1:D:122:ASP:HB2	1:D:276:LYS:CD	2.37	0.55
1:E:38:VAL:HG22	1:E:42:PHE:CE1	2.42	0.55
1:E:47:LYS:O	1:E:64:ASP:HB2	2.07	0.55
1:E:425:ARG:HB3	1:E:429:LYS:HD3	1.89	0.55
1:F:17:VAL:HA	1:F:83:SER:O	2.07	0.55
1:F:103:ASP:HB3	1:F:106:SER:HB2	1.88	0.55
1:F:107:ILE:O	1:F:108:ALA:C	2.49	0.55
1:G:67:LEU:O	1:G:69:PRO:N	2.39	0.55
1:G:118:THR:OG1	1:G:119:GLY:N	2.39	0.55
1:H:36:HIS:C	1:H:38:VAL:N	2.60	0.55
1:H:42:PHE:CE1	1:H:66:VAL:CG1	2.90	0.55
1:H:296:TYR:CB	1:H:382:ILE:CA	2.84	0.55
1:H:403:GLU:HA	1:H:406:GLU:HB2	1.89	0.55
1:I:38:VAL:HG22	1:I:42:PHE:CE1	2.42	0.55
1:I:66:VAL:N	1:I:87:ILE:HG23	2.21	0.55
1:I:403:GLU:HA	1:I:406:GLU:HB2	1.89	0.55
1:J:67:LEU:O	1:J:69:PRO:N	2.39	0.55
1:J:209:HIS:CE1	1:K:32:THR:HB	2.41	0.55
1:J:298:ILE:HG12	1:J:356:ILE:HD11	1.89	0.55
1:J:315:THR:HG23	1:J:449:GLU:OE1	2.06	0.55
1:K:21:PHE:CE1	1:K:31:VAL:O	2.60	0.55
1:K:42:PHE:CE1	1:K:66:VAL:CG1	2.89	0.55
1:K:76:ILE:HD11	1:K:202:MET:SD	2.47	0.55
1:K:228:MET:O	1:K:229:THR:C	2.46	0.55
1:L:23:ASP:CB	1:L:28:GLU:HA	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:66:VAL:N	1:L:87:ILE:HG23	2.21	0.55
1:L:67:LEU:O	1:L:69:PRO:N	2.39	0.55
1:L:67:LEU:C	1:L:69:PRO:N	2.63	0.55
1:L:258:LYS:N	1:L:317:ASN:HD21	2.05	0.55
1:L:425:ARG:O	1:L:428:LEU:HB2	2.06	0.55
1:A:17:VAL:HA	1:A:83:SER:O	2.07	0.55
1:A:19:LEU:HD22	1:A:240:TYR:HH	1.69	0.55
1:A:32:THR:HB	1:B:209:HIS:CE1	2.41	0.55
1:A:40:ALA:H	1:A:43:PHE:HD1	1.54	0.55
1:A:42:PHE:CE1	1:A:66:VAL:CG1	2.89	0.55
1:A:47:LYS:O	1:A:64:ASP:HB2	2.07	0.55
1:A:113:ASP:C	1:A:113:ASP:OD2	2.49	0.55
1:A:118:THR:OG1	1:A:119:GLY:N	2.39	0.55
1:A:142:ALA:HA	1:A:147:SER:HA	1.89	0.55
1:A:227:THR:O	1:A:228:MET:C	2.48	0.55
1:A:228:MET:O	1:A:229:THR:C	2.46	0.55
1:A:258:LYS:N	1:A:317:ASN:HD21	2.05	0.55
1:A:336:ALA:N	1:A:345:ILE:CD1	2.69	0.55
1:B:46:GLY:HA2	1:B:66:VAL:HG23	1.89	0.55
1:B:67:LEU:O	1:B:69:PRO:N	2.39	0.55
1:B:207:GLU:O	1:B:208:ALA:HB2	2.07	0.55
1:B:258:LYS:N	1:B:317:ASN:HD21	2.05	0.55
1:C:32:THR:HB	1:D:209:HIS:CE1	2.41	0.55
1:C:78:PRO:CB	1:C:79:PHE:CD2	2.89	0.55
1:C:103:ASP:N	1:C:104:PRO:CD	2.60	0.55
1:E:32:THR:HB	1:F:209:HIS:CE1	2.41	0.55
1:E:122:ASP:HB2	1:E:276:LYS:CD	2.37	0.55
1:E:348:VAL:HB	1:E:354:ARG:HH11	1.72	0.55
1:E:379:LEU:O	1:E:383:LYS:N	2.20	0.55
1:F:21:PHE:CE1	1:F:31:VAL:O	2.60	0.55
1:F:42:PHE:CE1	1:F:66:VAL:CG1	2.89	0.55
1:F:192:ARG:O	1:F:195:MET:N	2.38	0.55
1:F:392:MET:HA	1:F:392:MET:CE	2.23	0.55
1:G:17:VAL:HA	1:G:83:SER:O	2.07	0.55
1:G:32:THR:HB	1:L:209:HIS:CE1	2.41	0.55
1:G:78:PRO:CB	1:G:79:PHE:CD2	2.89	0.55
1:G:103:ASP:N	1:G:104:PRO:CD	2.60	0.55
1:G:103:ASP:HB3	1:G:106:SER:HB2	1.87	0.55
1:G:113:ASP:C	1:G:113:ASP:OD2	2.49	0.55
1:G:207:GLU:O	1:G:208:ALA:HB2	2.07	0.55
1:H:21:PHE:CE1	1:H:31:VAL:O	2.60	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:66:VAL:N	1:H:87:ILE:HG23	2.21	0.55
1:H:396:LEU:HD23	1:H:397:TYR:N	2.21	0.55
1:I:47:LYS:O	1:I:64:ASP:HB2	2.07	0.55
1:I:122:ASP:HB2	1:I:276:LYS:CD	2.37	0.55
1:I:350:SER:C	1:I:352:LYS:H	2.13	0.55
1:I:379:LEU:O	1:I:383:LYS:N	2.20	0.55
1:J:67:LEU:C	1:J:69:PRO:N	2.62	0.55
1:J:122:ASP:HB2	1:J:276:LYS:CD	2.37	0.55
1:K:403:GLU:HB3	1:K:406:GLU:HB2	1.87	0.55
1:L:207:GLU:O	1:L:208:ALA:HB2	2.07	0.55
1:L:295:LEU:H	1:L:295:LEU:HD12	1.70	0.55
1:A:67:LEU:O	1:A:69:PRO:N	2.39	0.55
1:B:42:PHE:CE2	1:B:66:VAL:HG21	2.40	0.55
1:B:58:LYS:HG3	1:C:339:ARG:CB	2.35	0.55
1:C:435:THR:HB	1:C:437:GLU:HB2	1.89	0.55
1:C:466:TYR:N	1:I:256:MET:HE3	2.21	0.55
1:D:47:LYS:O	1:D:64:ASP:HB2	2.07	0.55
1:E:78:PRO:CB	1:E:79:PHE:CD2	2.89	0.55
1:E:214:ALA:HB1	1:E:263:ASP:OD2	2.06	0.55
1:E:350:SER:C	1:E:352:LYS:H	2.13	0.55
1:F:66:VAL:N	1:F:87:ILE:HG23	2.21	0.55
1:F:305:ALA:HA	1:F:308:ILE:HG13	1.88	0.55
1:F:403:GLU:HA	1:F:406:GLU:HB2	1.89	0.55
1:G:40:ALA:H	1:G:43:PHE:HD1	1.54	0.55
1:G:47:LYS:O	1:G:64:ASP:HB2	2.07	0.55
1:G:336:ALA:N	1:G:345:ILE:CD1	2.69	0.55
1:H:68:MET:CE	1:H:105:ARG:HD3	2.27	0.55
1:H:209:HIS:CE1	1:I:32:THR:HB	2.41	0.55
1:I:9:LEU:CD1	1:I:14:VAL:HG21	2.34	0.55
1:J:30:HIS:ND1	1:J:30:HIS:C	2.65	0.55
1:K:78:PRO:CB	1:K:79:PHE:CD2	2.89	0.55
1:K:339:ARG:CB	1:L:58:LYS:HG3	2.34	0.55
1:A:30:HIS:C	1:A:30:HIS:ND1	2.65	0.55
1:A:103:ASP:HB3	1:A:106:SER:HB2	1.88	0.55
1:A:214:ALA:HB1	1:A:263:ASP:OD2	2.06	0.55
1:A:298:ILE:HG12	1:A:356:ILE:HD11	1.89	0.55
1:A:305:ALA:HA	1:A:308:ILE:HG13	1.88	0.55
1:A:379:LEU:O	1:A:383:LYS:N	2.20	0.55
1:B:47:LYS:O	1:B:64:ASP:HB2	2.07	0.55
1:B:298:ILE:HG12	1:B:356:ILE:HD11	1.89	0.55
1:B:316:THR:CG2	1:H:461:GLU:OE1	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:425:ARG:O	1:B:428:LEU:HB2	2.06	0.55
1:C:228:MET:O	1:C:229:THR:C	2.46	0.55
1:E:90:ASP:O	1:E:91:ILE:O	2.21	0.55
1:E:256:MET:HE3	1:K:466:TYR:N	2.21	0.55
1:E:298:ILE:HG12	1:E:356:ILE:HD11	1.89	0.55
1:F:47:LYS:O	1:F:64:ASP:HB2	2.07	0.55
1:F:288:ALA:HB3	1:F:290:LEU:HD12	1.89	0.55
1:F:298:ILE:HG12	1:F:356:ILE:HD11	1.89	0.55
1:F:396:LEU:HD23	1:F:397:TYR:N	2.21	0.55
1:G:30:HIS:ND1	1:G:30:HIS:C	2.65	0.55
1:G:42:PHE:CE1	1:G:66:VAL:CG1	2.89	0.55
1:G:214:ALA:HB1	1:G:263:ASP:OD2	2.06	0.55
1:G:296:TYR:CB	1:G:382:ILE:CA	2.84	0.55
1:G:298:ILE:HG12	1:G:356:ILE:HD11	1.89	0.55
1:H:298:ILE:HG12	1:H:356:ILE:HD11	1.89	0.55
1:H:376:MET:HE3	1:H:433:VAL:CB	2.36	0.55
1:H:392:MET:HA	1:H:392:MET:CE	2.23	0.55
1:I:78:PRO:CB	1:I:79:PHE:CD2	2.89	0.55
1:I:90:ASP:O	1:I:91:ILE:O	2.21	0.55
1:I:107:ILE:O	1:I:108:ALA:C	2.49	0.55
1:I:113:ASP:C	1:I:113:ASP:OD2	2.49	0.55
1:I:298:ILE:HG12	1:I:356:ILE:HD11	1.89	0.55
1:K:75:VAL:CG1	1:K:78:PRO:CD	2.71	0.55
1:K:107:ILE:O	1:K:108:ALA:C	2.49	0.55
1:K:214:ALA:HB1	1:K:263:ASP:OD2	2.06	0.55
1:K:298:ILE:HG12	1:K:356:ILE:HD11	1.89	0.55
1:K:336:ALA:N	1:K:345:ILE:CD1	2.69	0.55
1:K:435:THR:HB	1:K:437:GLU:HB2	1.89	0.55
1:L:47:LYS:O	1:L:64:ASP:HB2	2.07	0.55
1:L:296:TYR:CB	1:L:382:ILE:CA	2.84	0.55
1:L:298:ILE:HG12	1:L:356:ILE:HD11	1.89	0.55
1:L:337:ARG:O	1:L:339:ARG:N	2.40	0.55
1:A:296:TYR:CB	1:A:382:ILE:CA	2.84	0.54
1:B:21:PHE:CE1	1:B:31:VAL:O	2.60	0.54
1:B:297:TYR:O	1:B:301:VAL:HG23	2.07	0.54
1:B:424:ASP:O	1:B:425:ARG:C	2.51	0.54
1:C:258:LYS:N	1:C:317:ASN:HD21	2.05	0.54
1:C:297:TYR:O	1:C:301:VAL:HG23	2.07	0.54
1:C:298:ILE:HG12	1:C:356:ILE:HD11	1.89	0.54
1:D:21:PHE:CE1	1:D:31:VAL:O	2.60	0.54
1:D:113:ASP:C	1:D:113:ASP:OD2	2.49	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:348:VAL:HB	1:D:354:ARG:HH11	1.72	0.54
1:E:9:LEU:CD1	1:E:14:VAL:HG21	2.34	0.54
1:E:165:GLU:C	1:E:167:GLY:H	2.08	0.54
1:F:376:MET:HE3	1:F:433:VAL:CB	2.36	0.54
1:F:461:GLU:OE1	1:L:316:THR:CG2	2.36	0.54
1:F:465:TYR:HD2	1:L:315:THR:OG1	1.81	0.54
1:G:2:ALA:O	1:G:6:LEU:CB	2.49	0.54
1:G:19:LEU:HD22	1:G:240:TYR:HH	1.69	0.54
1:G:49:PHE:HD2	1:G:49:PHE:N	2.02	0.54
1:G:142:ALA:HA	1:G:147:SER:HA	1.89	0.54
1:G:258:LYS:N	1:G:317:ASN:HD21	2.05	0.54
1:H:288:ALA:HB3	1:H:290:LEU:HD12	1.89	0.54
1:H:305:ALA:HA	1:H:308:ILE:HG13	1.88	0.54
1:I:214:ALA:HB1	1:I:263:ASP:OD2	2.06	0.54
1:I:348:VAL:HB	1:I:354:ARG:HH11	1.72	0.54
1:J:17:VAL:HA	1:J:83:SER:O	2.07	0.54
1:J:47:LYS:O	1:J:64:ASP:HB2	2.07	0.54
1:J:228:MET:O	1:J:229:THR:C	2.46	0.54
1:K:68:MET:HE2	1:K:88:ARG:NE	2.22	0.54
1:K:258:LYS:N	1:K:317:ASN:HD21	2.05	0.54
1:K:345:ILE:HG12	1:K:345:ILE:O	2.06	0.54
1:L:46:GLY:HA2	1:L:66:VAL:HG23	1.89	0.54
1:A:2:ALA:O	1:A:6:LEU:CB	2.49	0.54
1:A:89:CYS:HB3	1:A:103:ASP:OD2	2.07	0.54
1:A:297:TYR:O	1:A:301:VAL:HG23	2.08	0.54
1:A:435:THR:HB	1:A:437:GLU:HB2	1.89	0.54
1:B:68:MET:HE2	1:B:88:ARG:NE	2.23	0.54
1:B:296:TYR:CB	1:B:382:ILE:CA	2.84	0.54
1:B:403:GLU:HA	1:B:406:GLU:HB2	1.89	0.54
1:C:9:LEU:CD1	1:C:14:VAL:HG21	2.34	0.54
1:C:68:MET:HE2	1:C:88:ARG:NE	2.22	0.54
1:C:75:VAL:CG1	1:C:78:PRO:CD	2.70	0.54
1:C:122:ASP:HB2	1:C:276:LYS:CD	2.37	0.54
1:C:214:ALA:HB1	1:C:263:ASP:OD2	2.06	0.54
1:C:336:ALA:N	1:C:345:ILE:CD1	2.69	0.54
1:C:403:GLU:HA	1:C:406:GLU:HB2	1.89	0.54
1:D:173:PRO:O	1:D:215:THR:HA	2.06	0.54
1:D:228:MET:O	1:D:229:THR:C	2.46	0.54
1:E:107:ILE:O	1:E:108:ALA:C	2.49	0.54
1:E:297:TYR:O	1:E:301:VAL:HG23	2.08	0.54
1:E:435:THR:HB	1:E:437:GLU:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:16:PHE:H	1:F:35:ALA:N	2.06	0.54
1:F:121:ALA:HB1	1:F:275:ALA:O	2.08	0.54
1:F:315:THR:HG23	1:F:449:GLU:OE1	2.06	0.54
1:F:440:ASP:O	1:F:441:ALA:C	2.49	0.54
1:G:9:LEU:CD1	1:G:14:VAL:HG21	2.34	0.54
1:G:46:GLY:HA2	1:G:66:VAL:HG23	1.89	0.54
1:G:297:TYR:O	1:G:301:VAL:HG23	2.08	0.54
1:G:435:THR:HB	1:G:437:GLU:HB2	1.89	0.54
1:H:47:LYS:O	1:H:64:ASP:HB2	2.07	0.54
1:H:214:ALA:HB1	1:H:263:ASP:OD2	2.06	0.54
1:H:440:ASP:O	1:H:441:ALA:C	2.49	0.54
1:I:297:TYR:O	1:I:301:VAL:HG23	2.07	0.54
1:J:21:PHE:CE1	1:J:31:VAL:O	2.60	0.54
1:J:78:PRO:CB	1:J:79:PHE:CD2	2.89	0.54
1:K:38:VAL:HG22	1:K:42:PHE:CE1	2.42	0.54
1:K:403:GLU:HA	1:K:406:GLU:HB2	1.89	0.54
1:L:21:PHE:CE1	1:L:31:VAL:O	2.60	0.54
1:L:75:VAL:CG1	1:L:78:PRO:CD	2.71	0.54
1:L:122:ASP:HB2	1:L:276:LYS:CD	2.37	0.54
1:L:297:TYR:O	1:L:301:VAL:HG23	2.08	0.54
1:L:403:GLU:HA	1:L:406:GLU:HB2	1.89	0.54
1:L:425:ARG:HB3	1:L:429:LYS:HD3	1.88	0.54
1:A:9:LEU:CD1	1:A:14:VAL:HG21	2.34	0.54
1:A:46:GLY:HA2	1:A:66:VAL:HG23	1.89	0.54
1:B:38:VAL:HG22	1:B:42:PHE:CE1	2.42	0.54
1:B:122:ASP:HB2	1:B:276:LYS:CD	2.37	0.54
1:B:337:ARG:O	1:B:339:ARG:N	2.41	0.54
1:C:107:ILE:O	1:C:108:ALA:C	2.49	0.54
1:C:322:LEU:HD21	1:C:360:PHE:HB2	1.90	0.54
1:C:331:MET:HE3	1:C:396:LEU:HB2	1.89	0.54
1:D:40:ALA:H	1:D:43:PHE:HD1	1.54	0.54
1:D:67:LEU:C	1:D:69:PRO:N	2.63	0.54
1:D:78:PRO:CB	1:D:79:PHE:CD2	2.89	0.54
1:F:40:ALA:H	1:F:43:PHE:HD1	1.54	0.54
1:F:376:MET:HE3	1:F:433:VAL:HG21	1.90	0.54
1:G:89:CYS:HB3	1:G:103:ASP:OD2	2.07	0.54
1:G:122:ASP:HB2	1:G:276:LYS:CD	2.37	0.54
1:G:322:LEU:HD21	1:G:360:PHE:HB2	1.90	0.54
1:G:331:MET:HE3	1:G:396:LEU:HB2	1.90	0.54
1:H:40:ALA:H	1:H:43:PHE:HD1	1.54	0.54
1:H:121:ALA:HB1	1:H:275:ALA:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:345:ILE:HG12	1:H:345:ILE:O	2.06	0.54
1:I:16:PHE:H	1:I:35:ALA:N	2.06	0.54
1:I:57:TRP:CD1	1:I:58:LYS:H	2.21	0.54
1:J:118:THR:OG1	1:J:119:GLY:N	2.39	0.54
1:J:297:TYR:O	1:J:301:VAL:HG23	2.07	0.54
1:K:2:ALA:O	1:K:3:GLU:C	2.50	0.54
1:K:9:LEU:CD1	1:K:14:VAL:HG21	2.34	0.54
1:K:322:LEU:HD21	1:K:360:PHE:HB2	1.90	0.54
1:L:38:VAL:HG22	1:L:42:PHE:CE1	2.42	0.54
1:L:68:MET:HE2	1:L:88:ARG:NE	2.23	0.54
1:L:403:GLU:HB3	1:L:406:GLU:HB2	1.87	0.54
1:A:66:VAL:N	1:A:87:ILE:HG23	2.21	0.54
1:A:337:ARG:O	1:A:339:ARG:N	2.41	0.54
1:A:350:SER:C	1:A:352:LYS:H	2.13	0.54
1:B:75:VAL:CG1	1:B:78:PRO:CD	2.70	0.54
1:B:315:THR:OG1	1:H:465:TYR:HD2	1.81	0.54
1:B:322:LEU:HD21	1:B:360:PHE:HB2	1.90	0.54
1:B:399:LEU:C	1:B:401:PRO:CD	2.81	0.54
1:B:425:ARG:HB3	1:B:429:LYS:HD3	1.88	0.54
1:C:288:ALA:HB3	1:C:290:LEU:HD12	1.88	0.54
1:C:337:ARG:O	1:C:339:ARG:N	2.41	0.54
1:C:345:ILE:HG12	1:C:345:ILE:O	2.06	0.54
1:D:118:THR:OG1	1:D:119:GLY:N	2.39	0.54
1:D:121:ALA:HB1	1:D:275:ALA:O	2.08	0.54
1:D:297:TYR:O	1:D:301:VAL:HG23	2.08	0.54
1:E:65:MET:CE	1:E:65:MET:CA	2.75	0.54
1:F:214:ALA:HB1	1:F:263:ASP:OD2	2.06	0.54
1:F:425:ARG:HB3	1:F:429:LYS:HD3	1.88	0.54
1:F:435:THR:HB	1:F:437:GLU:HB2	1.89	0.54
1:G:424:ASP:O	1:G:425:ARG:C	2.51	0.54
1:H:38:VAL:HG22	1:H:42:PHE:CE1	2.42	0.54
1:H:54:ILE:CB	1:H:101:ASP:HB2	2.34	0.54
1:H:315:THR:HG23	1:H:449:GLU:OE1	2.06	0.54
1:H:424:ASP:O	1:H:425:ARG:C	2.51	0.54
1:H:435:THR:HB	1:H:437:GLU:HB2	1.89	0.54
1:I:435:THR:HB	1:I:437:GLU:HB2	1.89	0.54
1:J:40:ALA:H	1:J:43:PHE:HD1	1.54	0.54
1:J:142:ALA:HA	1:J:147:SER:HA	1.89	0.54
1:J:173:PRO:O	1:J:215:THR:HA	2.06	0.54
1:J:440:ASP:O	1:J:441:ALA:C	2.49	0.54
1:K:54:ILE:CB	1:K:101:ASP:HB2	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:297:TYR:O	1:K:301:VAL:HG23	2.08	0.54
1:K:331:MET:HE3	1:K:396:LEU:HB2	1.90	0.54
1:K:337:ARG:O	1:K:339:ARG:N	2.41	0.54
1:L:360:PHE:CG	1:L:361:PRO:HD3	2.43	0.54
1:L:424:ASP:O	1:L:425:ARG:C	2.51	0.54
1:A:23:ASP:CB	1:A:28:GLU:HA	2.34	0.54
1:A:38:VAL:O	1:A:39:ASN:CB	2.56	0.54
1:A:322:LEU:HD21	1:A:360:PHE:HB2	1.90	0.54
1:A:331:MET:HE3	1:A:396:LEU:HB2	1.90	0.54
1:A:345:ILE:HG12	1:A:345:ILE:O	2.06	0.54
1:A:376:MET:HE3	1:A:433:VAL:CB	2.36	0.54
1:A:424:ASP:O	1:A:425:ARG:C	2.51	0.54
1:B:113:ASP:OD2	1:B:113:ASP:C	2.49	0.54
1:B:360:PHE:CG	1:B:361:PRO:HD3	2.43	0.54
1:C:2:ALA:O	1:C:3:GLU:C	2.50	0.54
1:C:38:VAL:HG22	1:C:42:PHE:CE1	2.42	0.54
1:C:111:ALA:O	1:C:114:TYR:HB3	2.08	0.54
1:D:63:SER:HG	1:D:91:ILE:HG22	1.73	0.54
1:D:142:ALA:HA	1:D:147:SER:HA	1.89	0.54
1:D:337:ARG:O	1:D:339:ARG:N	2.40	0.54
1:D:440:ASP:O	1:D:441:ALA:C	2.49	0.54
1:E:16:PHE:H	1:E:35:ALA:N	2.06	0.54
1:E:46:GLY:HA2	1:E:66:VAL:HG23	1.89	0.54
1:E:57:TRP:CD1	1:E:58:LYS:H	2.21	0.54
1:F:38:VAL:HG22	1:F:42:PHE:CE1	2.42	0.54
1:F:54:ILE:CD1	1:F:102:ARG:HD3	2.35	0.54
1:F:103:ASP:N	1:F:104:PRO:CD	2.60	0.54
1:F:207:GLU:O	1:F:208:ALA:HB2	2.07	0.54
1:F:258:LYS:N	1:F:317:ASN:HD21	2.05	0.54
1:F:345:ILE:O	1:F:345:ILE:HG12	2.06	0.54
1:G:16:PHE:H	1:G:35:ALA:N	2.06	0.54
1:G:38:VAL:O	1:G:39:ASN:CB	2.56	0.54
1:G:57:TRP:CD1	1:G:57:TRP:C	2.81	0.54
1:G:345:ILE:HG12	1:G:345:ILE:O	2.06	0.54
1:G:376:MET:HE3	1:G:433:VAL:CB	2.37	0.54
1:H:16:PHE:H	1:H:35:ALA:N	2.06	0.54
1:J:16:PHE:H	1:J:35:ALA:N	2.06	0.54
1:J:113:ASP:OD2	1:J:113:ASP:C	2.49	0.54
1:K:47:LYS:O	1:K:64:ASP:HB2	2.07	0.54
1:K:122:ASP:HB2	1:K:276:LYS:CD	2.37	0.54
1:K:288:ALA:HB3	1:K:290:LEU:HD12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:338:ASN:HD21	1:L:395:ASN:CA	2.20	0.54
1:L:399:LEU:C	1:L:401:PRO:CD	2.81	0.54
1:A:122:ASP:HB2	1:A:276:LYS:CD	2.37	0.54
1:B:331:MET:HE3	1:B:396:LEU:HB2	1.90	0.54
1:C:40:ALA:H	1:C:43:PHE:HD1	1.54	0.54
1:C:46:GLY:HA2	1:C:66:VAL:HG23	1.89	0.54
1:C:54:ILE:CB	1:C:101:ASP:HB2	2.34	0.54
1:C:360:PHE:CG	1:C:361:PRO:HD3	2.43	0.54
1:D:58:LYS:HG3	1:E:339:ARG:CB	2.35	0.54
1:E:6:LEU:O	1:E:7:THR:O	2.25	0.54
1:F:36:HIS:C	1:F:38:VAL:N	2.60	0.54
1:F:67:LEU:HG	1:F:88:ARG:CB	2.38	0.54
1:F:122:ASP:HB2	1:F:276:LYS:CD	2.37	0.54
1:F:424:ASP:O	1:F:425:ARG:C	2.51	0.54
1:G:337:ARG:O	1:G:339:ARG:N	2.41	0.54
1:G:350:SER:C	1:G:352:LYS:H	2.13	0.54
1:H:103:ASP:N	1:H:104:PRO:CD	2.60	0.54
1:H:122:ASP:HB2	1:H:276:LYS:CD	2.37	0.54
1:H:425:ARG:HB3	1:H:429:LYS:HD3	1.88	0.54
1:I:2:ALA:O	1:I:3:GLU:C	2.50	0.54
1:I:46:GLY:HA2	1:I:66:VAL:HG23	1.89	0.54
1:I:339:ARG:CB	1:J:58:LYS:HG3	2.35	0.54
1:J:121:ALA:HB1	1:J:275:ALA:O	2.08	0.54
1:J:322:LEU:HD21	1:J:360:PHE:HB2	1.90	0.54
1:J:337:ARG:O	1:J:339:ARG:N	2.41	0.54
1:J:403:GLU:HA	1:J:406:GLU:HB2	1.89	0.54
1:K:16:PHE:H	1:K:35:ALA:N	2.06	0.54
1:K:46:GLY:HA2	1:K:66:VAL:HG23	1.89	0.54
1:K:337:ARG:HB2	1:L:57:TRP:HE1	1.73	0.54
1:L:2:ALA:O	1:L:3:GLU:C	2.50	0.54
1:L:16:PHE:H	1:L:35:ALA:N	2.06	0.54
1:L:113:ASP:C	1:L:113:ASP:OD2	2.49	0.54
1:L:121:ALA:HB1	1:L:275:ALA:O	2.08	0.54
1:L:322:LEU:HD21	1:L:360:PHE:HB2	1.90	0.54
1:L:331:MET:HE3	1:L:396:LEU:HB2	1.90	0.54
1:B:2:ALA:O	1:B:3:GLU:C	2.50	0.54
1:B:78:PRO:CB	1:B:79:PHE:CD2	2.89	0.54
1:B:111:ALA:O	1:B:114:TYR:HB3	2.08	0.54
1:B:121:ALA:HB1	1:B:275:ALA:O	2.08	0.54
1:B:338:ASN:HD21	1:B:395:ASN:CA	2.21	0.54
1:C:67:LEU:O	1:C:69:PRO:N	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:108:ALA:HB1	1:C:229:THR:OG1	2.08	0.54
1:D:322:LEU:HD21	1:D:360:PHE:HB2	1.90	0.54
1:D:435:THR:HB	1:D:437:GLU:HB2	1.89	0.54
1:E:2:ALA:O	1:E:3:GLU:C	2.51	0.54
1:E:58:LYS:HG3	1:F:339:ARG:CB	2.35	0.54
1:E:376:MET:HE3	1:E:433:VAL:CB	2.36	0.54
1:E:376:MET:HE3	1:E:433:VAL:HG21	1.90	0.54
1:E:424:ASP:O	1:E:425:ARG:C	2.51	0.54
1:F:46:GLY:HA2	1:F:66:VAL:HG23	1.89	0.54
1:F:54:ILE:CB	1:F:101:ASP:HB2	2.34	0.54
1:F:111:ALA:O	1:F:114:TYR:HB3	2.08	0.54
1:G:21:PHE:CE1	1:G:31:VAL:O	2.60	0.54
1:G:66:VAL:N	1:G:87:ILE:HG23	2.21	0.54
1:H:67:LEU:HG	1:H:88:ARG:CB	2.38	0.54
1:H:258:LYS:N	1:H:317:ASN:HD21	2.05	0.54
1:I:6:LEU:O	1:I:7:THR:O	2.25	0.54
1:I:65:MET:CE	1:I:65:MET:CA	2.75	0.54
1:I:424:ASP:O	1:I:425:ARG:C	2.51	0.54
1:J:9:LEU:CD1	1:J:14:VAL:HG21	2.34	0.54
1:J:46:GLY:HA2	1:J:66:VAL:HG23	1.89	0.54
1:K:30:HIS:ND1	1:K:30:HIS:C	2.65	0.54
1:K:40:ALA:H	1:K:43:PHE:HD1	1.54	0.54
1:K:111:ALA:O	1:K:114:TYR:HB3	2.08	0.54
1:A:16:PHE:H	1:A:35:ALA:N	2.06	0.54
1:A:21:PHE:CE1	1:A:31:VAL:O	2.60	0.54
1:A:38:VAL:HG22	1:A:42:PHE:CE1	2.42	0.54
1:A:68:MET:HE2	1:A:88:ARG:NE	2.23	0.54
1:A:321:ARG:HG3	1:A:322:LEU:N	2.23	0.54
1:B:142:ALA:HA	1:B:147:SER:HA	1.89	0.54
1:C:47:LYS:O	1:C:64:ASP:HB2	2.07	0.54
1:C:58:LYS:HG3	1:D:339:ARG:CB	2.35	0.54
1:C:67:LEU:HG	1:C:88:ARG:CB	2.38	0.54
1:D:16:PHE:H	1:D:35:ALA:N	2.06	0.54
1:E:142:ALA:HA	1:E:147:SER:HA	1.89	0.54
1:E:200:GLU:HA	1:E:204:LEU:O	2.08	0.54
1:E:288:ALA:HB3	1:E:290:LEU:HD12	1.89	0.54
1:F:6:LEU:O	1:F:7:THR:O	2.25	0.54
1:F:57:TRP:HD1	1:F:58:LYS:H	1.52	0.54
1:F:157:ALA:O	1:F:158:TRP:C	2.51	0.54
1:F:337:ARG:O	1:F:339:ARG:N	2.41	0.54
1:F:399:LEU:C	1:F:401:PRO:CD	2.81	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:23:ASP:CB	1:G:28:GLU:HA	2.34	0.54
1:G:68:MET:HE2	1:G:88:ARG:NE	2.22	0.54
1:G:111:ALA:O	1:G:114:TYR:HB3	2.08	0.54
1:G:157:ALA:O	1:G:158:TRP:C	2.51	0.54
1:G:399:LEU:C	1:G:401:PRO:CD	2.81	0.54
1:H:57:TRP:HD1	1:H:58:LYS:H	1.51	0.54
1:H:111:ALA:O	1:H:114:TYR:HB3	2.08	0.54
1:H:157:ALA:O	1:H:158:TRP:C	2.51	0.54
1:H:337:ARG:HB2	1:I:57:TRP:HE1	1.73	0.54
1:I:67:LEU:C	1:I:69:PRO:N	2.63	0.54
1:I:288:ALA:HB3	1:I:290:LEU:HD12	1.89	0.54
1:I:325:GLY:HA3	1:I:328:ALA:CB	2.38	0.54
1:I:376:MET:HE3	1:I:433:VAL:CB	2.37	0.54
1:J:435:THR:HB	1:J:437:GLU:HB2	1.89	0.54
1:K:67:LEU:O	1:K:69:PRO:N	2.39	0.54
1:K:67:LEU:HG	1:K:88:ARG:CB	2.38	0.54
1:K:108:ALA:HB1	1:K:229:THR:OG1	2.08	0.54
1:K:424:ASP:O	1:K:425:ARG:C	2.51	0.54
1:L:78:PRO:CB	1:L:79:PHE:CD2	2.89	0.54
1:L:111:ALA:O	1:L:114:TYR:HB3	2.08	0.54
1:L:142:ALA:HA	1:L:147:SER:HA	1.89	0.54
1:A:399:LEU:C	1:A:401:PRO:CD	2.81	0.54
1:B:16:PHE:H	1:B:35:ALA:N	2.06	0.54
1:B:57:TRP:HE1	1:C:337:ARG:HB2	1.73	0.54
1:C:16:PHE:H	1:C:35:ALA:N	2.06	0.54
1:C:121:ALA:HB1	1:C:275:ALA:O	2.08	0.54
1:C:424:ASP:O	1:C:425:ARG:C	2.51	0.54
1:E:67:LEU:C	1:E:69:PRO:N	2.63	0.54
1:E:466:TYR:CZ	1:K:252:THR:HG21	2.33	0.54
1:G:10:ASN:O	1:G:11:GLU:C	2.51	0.54
1:H:6:LEU:O	1:H:7:THR:O	2.26	0.54
1:H:54:ILE:CD1	1:H:102:ARG:HD3	2.35	0.54
1:H:207:GLU:O	1:H:208:ALA:HB2	2.07	0.54
1:H:337:ARG:O	1:H:339:ARG:N	2.41	0.54
1:H:399:LEU:C	1:H:401:PRO:CD	2.81	0.54
1:I:157:ALA:O	1:I:158:TRP:C	2.51	0.54
1:I:337:ARG:O	1:I:339:ARG:N	2.40	0.54
1:J:67:LEU:HG	1:J:88:ARG:CB	2.38	0.54
1:J:258:LYS:N	1:J:317:ASN:HD21	2.05	0.54
1:J:339:ARG:CB	1:K:58:LYS:HG3	2.35	0.54
1:K:23:ASP:CB	1:K:28:GLU:HA	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:121:ALA:HB1	1:K:275:ALA:O	2.07	0.54
1:K:360:PHE:CG	1:K:361:PRO:HD3	2.43	0.54
1:L:6:LEU:O	1:L:7:THR:O	2.25	0.54
1:A:10:ASN:O	1:A:11:GLU:C	2.51	0.54
1:A:157:ALA:O	1:A:158:TRP:C	2.51	0.54
1:B:6:LEU:O	1:B:7:THR:O	2.26	0.54
1:B:58:LYS:HB3	1:C:337:ARG:CA	2.38	0.54
1:B:214:ALA:HB1	1:B:263:ASP:OD2	2.06	0.54
1:B:465:TYR:HH	1:H:449:GLU:CD	2.07	0.54
1:C:30:HIS:ND1	1:C:30:HIS:C	2.65	0.54
1:D:6:LEU:O	1:D:7:THR:O	2.25	0.54
1:D:9:LEU:CD1	1:D:14:VAL:HG21	2.34	0.54
1:D:46:GLY:HA2	1:D:66:VAL:HG23	1.89	0.54
1:D:67:LEU:HG	1:D:88:ARG:CB	2.38	0.54
1:D:157:ALA:O	1:D:158:TRP:C	2.51	0.54
1:D:258:LYS:N	1:D:317:ASN:HD21	2.05	0.54
1:D:288:ALA:HB3	1:D:290:LEU:HD12	1.89	0.54
1:D:315:THR:CG2	1:J:465:TYR:HE2	2.04	0.54
1:E:57:TRP:HE1	1:F:337:ARG:HB2	1.73	0.54
1:E:76:ILE:HD11	1:E:202:MET:SD	2.47	0.54
1:E:157:ALA:O	1:E:158:TRP:C	2.51	0.54
1:E:258:LYS:N	1:E:317:ASN:HD21	2.05	0.54
1:G:6:LEU:O	1:G:7:THR:O	2.25	0.54
1:G:38:VAL:HG22	1:G:42:PHE:CE1	2.42	0.54
1:G:121:ALA:HB1	1:G:275:ALA:O	2.08	0.54
1:G:321:ARG:HG3	1:G:322:LEU:N	2.23	0.54
1:G:338:ASN:HD21	1:G:395:ASN:CA	2.21	0.54
1:G:425:ARG:HB3	1:G:429:LYS:HD3	1.89	0.54
1:H:46:GLY:HA2	1:H:66:VAL:HG23	1.89	0.54
1:H:322:LEU:HD21	1:H:360:PHE:HB2	1.90	0.54
1:I:99:GLY:H	1:I:103:ASP:HB2	1.73	0.54
1:I:142:ALA:HA	1:I:147:SER:HA	1.89	0.54
1:J:6:LEU:O	1:J:7:THR:O	2.26	0.54
1:J:108:ALA:HB1	1:J:229:THR:OG1	2.08	0.54
1:J:288:ALA:HB3	1:J:290:LEU:HD12	1.89	0.54
1:J:338:ASN:ND2	1:J:395:ASN:H	1.99	0.54
1:K:68:MET:HA	1:K:70:ASP:OD2	2.08	0.54
1:A:6:LEU:O	1:A:7:THR:O	2.25	0.53
1:A:111:ALA:O	1:A:114:TYR:HB3	2.08	0.53
1:A:425:ARG:HB3	1:A:429:LYS:HD3	1.89	0.53
1:B:40:ALA:H	1:B:43:PHE:HD1	1.54	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:67:LEU:HG	1:B:88:ARG:CB	2.38	0.53
1:B:325:GLY:HA3	1:B:328:ALA:CB	2.38	0.53
1:C:6:LEU:O	1:C:7:THR:O	2.25	0.53
1:C:39:ASN:ND2	1:C:42:PHE:HB3	2.23	0.53
1:C:252:THR:HG21	1:I:466:TYR:CZ	2.33	0.53
1:C:338:ASN:HD21	1:C:395:ASN:CA	2.21	0.53
1:D:2:ALA:O	1:D:3:GLU:C	2.50	0.53
1:D:57:TRP:HE1	1:E:337:ARG:HB2	1.73	0.53
1:D:376:MET:HE1	1:D:433:VAL:CG1	2.22	0.53
1:D:403:GLU:HA	1:D:406:GLU:HB2	1.89	0.53
1:E:99:GLY:H	1:E:103:ASP:HB2	1.73	0.53
1:E:337:ARG:O	1:E:339:ARG:N	2.41	0.53
1:F:200:GLU:HA	1:F:204:LEU:O	2.08	0.53
1:F:297:TYR:O	1:F:301:VAL:HG23	2.08	0.53
1:F:322:LEU:HD21	1:F:360:PHE:HB2	1.90	0.53
1:F:447:ARG:HH11	1:F:447:ARG:HG2	1.73	0.53
1:G:68:MET:HA	1:G:70:ASP:OD2	2.08	0.53
1:G:317:ASN:C	1:G:317:ASN:HD22	2.16	0.53
1:H:57:TRP:CD1	1:H:58:LYS:H	2.21	0.53
1:H:76:ILE:HD11	1:H:202:MET:SD	2.47	0.53
1:H:339:ARG:CB	1:I:58:LYS:HG3	2.35	0.53
1:I:76:ILE:HD11	1:I:202:MET:SD	2.47	0.53
1:I:258:LYS:N	1:I:317:ASN:HD21	2.05	0.53
1:J:39:ASN:ND2	1:J:42:PHE:HB3	2.23	0.53
1:K:6:LEU:O	1:K:7:THR:O	2.25	0.53
1:K:315:THR:O	1:K:318:SER:N	2.37	0.53
1:K:337:ARG:CA	1:L:58:LYS:HB3	2.38	0.53
1:L:40:ALA:H	1:L:43:PHE:HD1	1.54	0.53
1:L:214:ALA:HB1	1:L:263:ASP:OD2	2.06	0.53
1:A:108:ALA:HB1	1:A:229:THR:OG1	2.08	0.53
1:A:121:ALA:HB1	1:A:275:ALA:O	2.08	0.53
1:A:317:ASN:HD22	1:A:317:ASN:C	2.17	0.53
1:A:338:ASN:HD21	1:A:395:ASN:CA	2.21	0.53
1:A:360:PHE:CG	1:A:361:PRO:HD3	2.43	0.53
1:A:460:VAL:O	1:A:461:GLU:C	2.52	0.53
1:B:10:ASN:O	1:B:11:GLU:C	2.51	0.53
1:B:30:HIS:ND1	1:B:30:HIS:C	2.65	0.53
1:C:23:ASP:CB	1:C:28:GLU:HA	2.34	0.53
1:C:68:MET:HA	1:C:70:ASP:OD2	2.09	0.53
1:C:142:ALA:HA	1:C:147:SER:HA	1.89	0.53
1:D:68:MET:HE2	1:D:88:ARG:NE	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:133:PHE:CE2	1:D:260:MET:HE3	2.43	0.53
1:D:331:MET:HE3	1:D:396:LEU:HB2	1.89	0.53
1:D:465:TYR:HE2	1:J:315:THR:CG2	2.04	0.53
1:E:10:ASN:O	1:E:11:GLU:C	2.51	0.53
1:E:39:ASN:ND2	1:E:42:PHE:HB3	2.22	0.53
1:E:133:PHE:CE2	1:E:260:MET:HE3	2.43	0.53
1:E:322:LEU:HD21	1:E:360:PHE:HB2	1.90	0.53
1:E:325:GLY:HA3	1:E:328:ALA:CB	2.39	0.53
1:E:345:ILE:HG12	1:E:345:ILE:O	2.06	0.53
1:F:76:ILE:HD11	1:F:202:MET:SD	2.47	0.53
1:F:271:HIS:CD2	1:F:357:GLU:HB2	2.44	0.53
1:F:331:MET:HE3	1:F:396:LEU:HB2	1.90	0.53
1:G:67:LEU:HG	1:G:88:ARG:CB	2.38	0.53
1:G:108:ALA:HB1	1:G:229:THR:OG1	2.08	0.53
1:G:332:LEU:HD11	1:G:410:VAL:N	2.24	0.53
1:G:460:VAL:O	1:G:461:GLU:C	2.51	0.53
1:H:68:MET:HA	1:H:70:ASP:OD2	2.08	0.53
1:H:297:TYR:O	1:H:301:VAL:HG23	2.07	0.53
1:H:315:THR:O	1:H:318:SER:N	2.37	0.53
1:I:67:LEU:HG	1:I:88:ARG:CB	2.38	0.53
1:I:133:PHE:CE2	1:I:260:MET:HE3	2.43	0.53
1:I:165:GLU:C	1:I:167:GLY:H	2.09	0.53
1:I:345:ILE:HG12	1:I:345:ILE:O	2.06	0.53
1:J:68:MET:HE2	1:J:88:ARG:NE	2.22	0.53
1:J:133:PHE:CE2	1:J:260:MET:HE3	2.43	0.53
1:J:157:ALA:O	1:J:158:TRP:C	2.51	0.53
1:K:142:ALA:HA	1:K:147:SER:HA	1.89	0.53
1:K:338:ASN:HD21	1:K:395:ASN:CA	2.21	0.53
1:L:157:ALA:O	1:L:158:TRP:C	2.51	0.53
1:L:325:GLY:HA3	1:L:328:ALA:CB	2.39	0.53
1:A:67:LEU:HG	1:A:88:ARG:CB	2.38	0.53
1:A:332:LEU:HD11	1:A:410:VAL:N	2.24	0.53
1:B:68:MET:HA	1:B:70:ASP:OD2	2.09	0.53
1:B:157:ALA:O	1:B:158:TRP:C	2.51	0.53
1:D:39:ASN:ND2	1:D:42:PHE:HB3	2.23	0.53
1:D:108:ALA:HB1	1:D:229:THR:OG1	2.08	0.53
1:D:111:ALA:O	1:D:114:TYR:HB3	2.08	0.53
1:D:419:ASN:O	1:D:422:ASP:N	2.42	0.53
1:E:40:ALA:H	1:E:43:PHE:HD1	1.54	0.53
1:E:133:PHE:CZ	1:E:218:GLN:HG3	2.44	0.53
1:E:447:ARG:HH11	1:E:447:ARG:HG2	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2:ALA:O	1:F:3:GLU:C	2.50	0.53
1:F:10:ASN:O	1:F:11:GLU:C	2.51	0.53
1:G:157:ALA:H	1:G:215:THR:CG2	2.09	0.53
1:G:360:PHE:CG	1:G:361:PRO:HD3	2.43	0.53
1:H:200:GLU:HA	1:H:204:LEU:O	2.08	0.53
1:H:331:MET:HE3	1:H:396:LEU:HB2	1.90	0.53
1:H:447:ARG:HH11	1:H:447:ARG:HG2	1.74	0.53
1:I:10:ASN:O	1:I:11:GLU:C	2.51	0.53
1:I:68:MET:HA	1:I:70:ASP:OD2	2.09	0.53
1:I:121:ALA:HB1	1:I:275:ALA:O	2.08	0.53
1:I:133:PHE:CZ	1:I:218:GLN:HG3	2.44	0.53
1:I:200:GLU:HA	1:I:204:LEU:O	2.08	0.53
1:I:314:PRO:C	1:I:315:THR:O	2.49	0.53
1:I:337:ARG:HB2	1:J:57:TRP:HE1	1.73	0.53
1:J:2:ALA:O	1:J:3:GLU:C	2.50	0.53
1:J:49:PHE:HD2	1:J:49:PHE:N	2.03	0.53
1:J:227:THR:O	1:J:228:MET:C	2.48	0.53
1:J:295:LEU:O	1:J:388:PRO:HD3	2.08	0.53
1:L:30:HIS:C	1:L:30:HIS:ND1	2.65	0.53
1:L:39:ASN:ND2	1:L:42:PHE:HB3	2.22	0.53
1:L:67:LEU:HG	1:L:88:ARG:CB	2.38	0.53
1:L:68:MET:HA	1:L:70:ASP:OD2	2.09	0.53
1:L:435:THR:HB	1:L:437:GLU:HB2	1.89	0.53
1:A:57:TRP:HE1	1:B:337:ARG:HB2	1.73	0.53
1:A:58:LYS:HB3	1:B:337:ARG:CA	2.39	0.53
1:A:157:ALA:H	1:A:215:THR:CG2	2.09	0.53
1:A:200:GLU:HA	1:A:204:LEU:O	2.08	0.53
1:B:133:PHE:CZ	1:B:218:GLN:HG3	2.44	0.53
1:B:321:ARG:HG3	1:B:322:LEU:N	2.23	0.53
1:B:419:ASN:O	1:B:422:ASP:N	2.42	0.53
1:B:435:THR:HB	1:B:437:GLU:HB2	1.89	0.53
1:D:38:VAL:HG22	1:D:42:PHE:CE1	2.42	0.53
1:D:49:PHE:HD2	1:D:49:PHE:N	2.02	0.53
1:D:99:GLY:H	1:D:103:ASP:HB2	1.73	0.53
1:D:317:ASN:C	1:D:317:ASN:HD22	2.16	0.53
1:D:338:ASN:ND2	1:D:395:ASN:H	1.99	0.53
1:D:401:PRO:C	1:D:405:LYS:HG2	2.34	0.53
1:E:121:ALA:HB1	1:E:275:ALA:O	2.07	0.53
1:E:314:PRO:C	1:E:315:THR:O	2.49	0.53
1:E:315:THR:OG1	1:K:465:TYR:HD2	1.81	0.53
1:E:399:LEU:O	1:E:401:PRO:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:39:ASN:ND2	1:F:42:PHE:HB3	2.22	0.53
1:F:99:GLY:H	1:F:103:ASP:HB2	1.73	0.53
1:F:108:ALA:HB1	1:F:229:THR:OG1	2.08	0.53
1:F:325:GLY:HA3	1:F:328:ALA:CB	2.38	0.53
1:F:399:LEU:O	1:F:401:PRO:N	2.42	0.53
1:G:58:LYS:HB3	1:L:337:ARG:CA	2.39	0.53
1:G:67:LEU:C	1:G:69:PRO:N	2.63	0.53
1:H:108:ALA:HB1	1:H:229:THR:OG1	2.08	0.53
1:H:325:GLY:HA3	1:H:328:ALA:CB	2.39	0.53
1:H:399:LEU:O	1:H:401:PRO:N	2.42	0.53
1:I:40:ALA:H	1:I:43:PHE:HD1	1.54	0.53
1:I:54:ILE:CD1	1:I:102:ARG:HD3	2.35	0.53
1:I:322:LEU:HD21	1:I:360:PHE:HB2	1.90	0.53
1:I:401:PRO:C	1:I:405:LYS:HG2	2.34	0.53
1:J:76:ILE:HD11	1:J:202:MET:SD	2.47	0.53
1:J:331:MET:HE3	1:J:396:LEU:HB2	1.90	0.53
1:K:39:ASN:ND2	1:K:42:PHE:HB3	2.23	0.53
1:K:79:PHE:HB2	1:K:80:PHE:CE1	2.44	0.53
1:K:317:ASN:C	1:K:317:ASN:HD22	2.16	0.53
1:L:10:ASN:O	1:L:11:GLU:C	2.51	0.53
1:L:133:PHE:CZ	1:L:218:GLN:HG3	2.44	0.53
1:L:419:ASN:O	1:L:422:ASP:N	2.42	0.53
1:A:68:MET:HA	1:A:70:ASP:OD2	2.09	0.53
1:A:111:ALA:HA	1:A:376:MET:HE2	1.90	0.53
1:A:325:GLY:HA3	1:A:328:ALA:CB	2.38	0.53
1:A:399:LEU:O	1:A:401:PRO:N	2.42	0.53
1:A:401:PRO:C	1:A:405:LYS:HG2	2.34	0.53
1:C:79:PHE:HB2	1:C:80:PHE:CE1	2.43	0.53
1:C:89:CYS:HB3	1:C:103:ASP:OD2	2.07	0.53
1:C:454:ARG:HG2	1:C:454:ARG:NH1	2.18	0.53
1:D:58:LYS:CB	1:E:338:ASN:N	2.72	0.53
1:D:68:MET:HA	1:D:70:ASP:OD2	2.08	0.53
1:D:227:THR:O	1:D:228:MET:C	2.47	0.53
1:E:54:ILE:CD1	1:E:102:ARG:HD3	2.35	0.53
1:E:58:LYS:HB3	1:F:337:ARG:CA	2.39	0.53
1:E:67:LEU:HG	1:E:88:ARG:CB	2.38	0.53
1:E:68:MET:HA	1:E:70:ASP:OD2	2.09	0.53
1:E:296:TYR:CB	1:E:382:ILE:CA	2.84	0.53
1:E:401:PRO:C	1:E:405:LYS:HG2	2.34	0.53
1:E:419:ASN:O	1:E:422:ASP:N	2.42	0.53
1:G:57:TRP:HE1	1:L:337:ARG:HB2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:111:ALA:HA	1:G:376:MET:HE2	1.91	0.53
1:G:200:GLU:HA	1:G:204:LEU:O	2.08	0.53
1:H:2:ALA:O	1:H:3:GLU:C	2.50	0.53
1:H:99:GLY:H	1:H:103:ASP:HB2	1.73	0.53
1:H:271:HIS:CD2	1:H:357:GLU:HB2	2.44	0.53
1:I:111:ALA:HA	1:I:376:MET:HE2	1.90	0.53
1:I:111:ALA:O	1:I:114:TYR:HB3	2.08	0.53
1:I:338:ASN:N	1:J:58:LYS:CB	2.71	0.53
1:I:447:ARG:HG2	1:I:447:ARG:HH11	1.74	0.53
1:J:38:VAL:HG22	1:J:42:PHE:CE1	2.42	0.53
1:J:291:SER:O	1:J:291:SER:OG	2.27	0.53
1:J:392:MET:CE	1:J:392:MET:HA	2.23	0.53
1:J:401:PRO:C	1:J:405:LYS:HG2	2.34	0.53
1:J:419:ASN:O	1:J:422:ASP:N	2.42	0.53
1:K:89:CYS:HB3	1:K:103:ASP:OD2	2.07	0.53
1:L:108:ALA:HB1	1:L:229:THR:OG1	2.08	0.53
1:L:321:ARG:HG3	1:L:322:LEU:N	2.23	0.53
1:A:54:ILE:CD1	1:A:102:ARG:HD3	2.35	0.53
1:B:289:GLY:CA	1:B:354:ARG:HE	2.20	0.53
1:B:401:PRO:C	1:B:405:LYS:HG2	2.34	0.53
1:B:466:TYR:CZ	1:H:138:ILE:HG21	2.44	0.53
1:C:315:THR:O	1:C:318:SER:N	2.37	0.53
1:E:111:ALA:HA	1:E:376:MET:HE2	1.90	0.53
1:E:111:ALA:O	1:E:114:TYR:HB3	2.08	0.53
1:F:57:TRP:CD1	1:F:58:LYS:H	2.21	0.53
1:F:133:PHE:CZ	1:F:218:GLN:HG3	2.44	0.53
1:F:138:ILE:HG21	1:L:466:TYR:CZ	2.44	0.53
1:F:360:PHE:CG	1:F:361:PRO:HD3	2.43	0.53
1:G:39:ASN:ND2	1:G:42:PHE:HB2	2.24	0.53
1:G:133:PHE:CZ	1:G:218:GLN:HG3	2.44	0.53
1:G:189:GLN:C	1:G:191:ILE:N	2.67	0.53
1:G:399:LEU:O	1:G:401:PRO:N	2.42	0.53
1:G:401:PRO:C	1:G:405:LYS:HG2	2.34	0.53
1:H:321:ARG:HG3	1:H:322:LEU:N	2.23	0.53
1:H:337:ARG:CA	1:I:58:LYS:HB3	2.39	0.53
1:H:338:ASN:N	1:I:58:LYS:CB	2.72	0.53
1:H:360:PHE:CG	1:H:361:PRO:HD3	2.43	0.53
1:I:291:SER:O	1:I:291:SER:OG	2.27	0.53
1:I:296:TYR:CB	1:I:382:ILE:CA	2.84	0.53
1:I:399:LEU:O	1:I:401:PRO:N	2.42	0.53
1:I:419:ASN:O	1:I:422:ASP:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:425:ARG:HD2	1:I:439:ILE:HG21	1.91	0.53
1:J:99:GLY:H	1:J:103:ASP:HB2	1.73	0.53
1:J:111:ALA:O	1:J:114:TYR:HB3	2.08	0.53
1:J:335:SER:H	1:J:345:ILE:CD1	2.22	0.53
1:J:337:ARG:HB2	1:K:57:TRP:HE1	1.73	0.53
1:J:360:PHE:CG	1:J:361:PRO:HD3	2.43	0.53
1:K:49:PHE:HD2	1:K:49:PHE:N	2.03	0.53
1:K:335:SER:H	1:K:345:ILE:CD1	2.22	0.53
1:L:289:GLY:CA	1:L:354:ARG:HE	2.21	0.53
1:L:376:MET:HE3	1:L:433:VAL:CB	2.37	0.53
1:L:401:PRO:C	1:L:405:LYS:HG2	2.34	0.53
1:A:67:LEU:C	1:A:69:PRO:N	2.63	0.53
1:A:189:GLN:C	1:A:191:ILE:N	2.67	0.53
1:B:39:ASN:ND2	1:B:42:PHE:HB3	2.23	0.53
1:B:108:ALA:HB1	1:B:229:THR:OG1	2.08	0.53
1:B:119:GLY:O	1:B:121:ALA:N	2.42	0.53
1:B:376:MET:HE3	1:B:433:VAL:CB	2.36	0.53
1:C:317:ASN:C	1:C:317:ASN:HD22	2.17	0.53
1:C:401:PRO:O	1:C:402:GLU:C	2.52	0.53
1:D:76:ILE:HD11	1:D:202:MET:SD	2.47	0.53
1:D:295:LEU:O	1:D:388:PRO:HD3	2.09	0.53
1:D:335:SER:H	1:D:345:ILE:CD1	2.22	0.53
1:D:360:PHE:CG	1:D:361:PRO:HD3	2.43	0.53
1:D:419:ASN:O	1:D:420:ALA:C	2.52	0.53
1:E:58:LYS:CB	1:F:338:ASN:N	2.72	0.53
1:E:207:GLU:O	1:E:208:ALA:HB2	2.07	0.53
1:E:425:ARG:HD2	1:E:439:ILE:HG21	1.91	0.53
1:F:68:MET:HA	1:F:70:ASP:OD2	2.09	0.53
1:F:133:PHE:CE2	1:F:260:MET:HE3	2.43	0.53
1:F:315:THR:O	1:F:318:SER:N	2.37	0.53
1:F:321:ARG:HG3	1:F:322:LEU:N	2.23	0.53
1:G:2:ALA:O	1:G:3:GLU:C	2.50	0.53
1:G:58:LYS:CB	1:L:338:ASN:N	2.71	0.53
1:G:76:ILE:HD11	1:G:202:MET:HE1	0.65	0.53
1:G:88:ARG:CD	1:G:109:LYS:HE3	2.38	0.53
1:G:337:ARG:CA	1:H:58:LYS:HB3	2.39	0.53
1:H:10:ASN:O	1:H:11:GLU:C	2.51	0.53
1:H:133:PHE:CZ	1:H:218:GLN:HG3	2.44	0.53
1:H:165:GLU:C	1:H:167:GLY:H	2.09	0.53
1:H:179:TYR:N	1:H:181:PRO:HD3	2.24	0.53
1:H:189:GLN:C	1:H:191:ILE:N	2.67	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:335:SER:H	1:H:345:ILE:CD1	2.22	0.53
1:I:39:ASN:ND2	1:I:42:PHE:HB2	2.24	0.53
1:I:39:ASN:ND2	1:I:42:PHE:HB3	2.23	0.53
1:J:317:ASN:C	1:J:317:ASN:HD22	2.17	0.53
1:J:337:ARG:CA	1:K:58:LYS:HB3	2.39	0.53
1:J:419:ASN:O	1:J:420:ALA:C	2.52	0.53
1:L:119:GLY:O	1:L:121:ALA:N	2.42	0.53
1:A:2:ALA:O	1:A:3:GLU:C	2.50	0.53
1:A:39:ASN:ND2	1:A:42:PHE:HB2	2.24	0.53
1:A:39:ASN:ND2	1:A:42:PHE:HB3	2.23	0.53
1:A:58:LYS:CB	1:B:338:ASN:N	2.72	0.53
1:A:76:ILE:HD11	1:A:202:MET:HE1	0.65	0.53
1:A:88:ARG:CD	1:A:109:LYS:HE3	2.38	0.53
1:A:271:HIS:CD2	1:A:357:GLU:HB2	2.44	0.53
1:A:337:ARG:CA	1:F:58:LYS:HB3	2.39	0.53
1:B:332:LEU:HD11	1:B:410:VAL:N	2.23	0.53
1:B:399:LEU:O	1:B:401:PRO:N	2.42	0.53
1:C:57:TRP:HE1	1:D:337:ARG:HB2	1.73	0.53
1:C:133:PHE:CZ	1:C:218:GLN:HG3	2.44	0.53
1:C:335:SER:H	1:C:345:ILE:CD1	2.22	0.53
1:D:332:LEU:HD11	1:D:410:VAL:N	2.24	0.53
1:D:392:MET:CE	1:D:392:MET:HA	2.23	0.53
1:E:113:ASP:C	1:E:113:ASP:OD2	2.49	0.53
1:E:271:HIS:CD2	1:E:357:GLU:HB2	2.44	0.53
1:E:291:SER:O	1:E:291:SER:OG	2.27	0.53
1:E:295:LEU:O	1:E:388:PRO:HD3	2.09	0.53
1:F:119:GLY:O	1:F:121:ALA:N	2.42	0.53
1:F:189:GLN:C	1:F:191:ILE:N	2.67	0.53
1:F:401:PRO:C	1:F:405:LYS:HG2	2.34	0.53
1:F:465:TYR:HD2	1:L:315:THR:CB	2.01	0.53
1:G:76:ILE:HD11	1:G:202:MET:SD	2.47	0.53
1:G:271:HIS:CD2	1:G:357:GLU:HB2	2.44	0.53
1:H:119:GLY:O	1:H:121:ALA:N	2.42	0.53
1:H:401:PRO:C	1:H:405:LYS:HG2	2.34	0.53
1:I:304:HIS:O	1:I:308:ILE:CG1	2.53	0.53
1:J:140:PHE:HB3	1:J:149:VAL:HG23	1.91	0.53
1:J:376:MET:HE1	1:J:433:VAL:CG1	2.22	0.53
1:J:424:ASP:O	1:J:425:ARG:C	2.51	0.53
1:K:133:PHE:CZ	1:K:218:GLN:HG3	2.44	0.53
1:K:154:ILE:O	1:K:155:GLU:CB	2.50	0.53
1:K:401:PRO:O	1:K:402:GLU:C	2.52	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:419:ASN:O	1:K:422:ASP:N	2.42	0.53
1:L:227:THR:O	1:L:228:MET:C	2.48	0.53
1:L:399:LEU:O	1:L:401:PRO:N	2.42	0.53
1:L:460:VAL:O	1:L:461:GLU:C	2.51	0.53
1:A:133:PHE:CZ	1:A:218:GLN:HG3	2.44	0.53
1:A:335:SER:H	1:A:345:ILE:CD1	2.22	0.53
1:A:403:GLU:HA	1:A:406:GLU:HB2	1.89	0.53
1:A:425:ARG:HD2	1:A:439:ILE:HG21	1.91	0.53
1:B:79:PHE:HB2	1:B:80:PHE:CE1	2.44	0.53
1:B:461:GLU:HG3	1:H:316:THR:HG21	1.91	0.53
1:C:49:PHE:HD2	1:C:49:PHE:N	2.03	0.53
1:C:419:ASN:O	1:C:422:ASP:N	2.42	0.53
1:D:119:GLY:O	1:D:121:ALA:N	2.42	0.53
1:D:140:PHE:HB3	1:D:149:VAL:HG23	1.91	0.53
1:D:196:CYS:O	1:D:199:MET:N	2.42	0.53
1:D:207:GLU:O	1:D:208:ALA:HB2	2.07	0.53
1:D:321:ARG:HG3	1:D:322:LEU:N	2.23	0.53
1:D:338:ASN:HD21	1:D:395:ASN:CA	2.20	0.53
1:E:334:TYR:CE1	1:E:388:PRO:HB3	2.44	0.53
1:E:360:PHE:CG	1:E:361:PRO:HD3	2.43	0.53
1:F:165:GLU:C	1:F:167:GLY:H	2.09	0.53
1:F:295:LEU:O	1:F:388:PRO:HD3	2.09	0.53
1:F:335:SER:H	1:F:345:ILE:CD1	2.22	0.53
1:F:338:ASN:HD21	1:F:395:ASN:CA	2.20	0.53
1:G:39:ASN:ND2	1:G:42:PHE:HB3	2.23	0.53
1:G:297:TYR:HA	1:G:378:GLY:O	2.09	0.53
1:G:425:ARG:HD2	1:G:439:ILE:HG21	1.91	0.53
1:H:144:ILE:HG23	1:H:145:SER:H	1.74	0.53
1:H:332:LEU:HD11	1:H:410:VAL:N	2.24	0.53
1:H:338:ASN:HD21	1:H:395:ASN:CA	2.21	0.53
1:I:102:ARG:HB2	1:I:104:PRO:CD	2.11	0.53
1:I:271:HIS:CD2	1:I:357:GLU:HB2	2.44	0.53
1:I:295:LEU:O	1:I:388:PRO:HD3	2.09	0.53
1:I:334:TYR:CE1	1:I:388:PRO:HB3	2.44	0.53
1:I:419:ASN:O	1:I:420:ALA:C	2.52	0.53
1:J:68:MET:HA	1:J:70:ASP:OD2	2.09	0.53
1:J:133:PHE:CZ	1:J:218:GLN:HG3	2.44	0.53
1:J:179:TYR:N	1:J:181:PRO:HD3	2.24	0.53
1:J:321:ARG:HG3	1:J:322:LEU:N	2.23	0.53
1:K:200:GLU:HA	1:K:204:LEU:O	2.08	0.53
1:L:79:PHE:HB2	1:L:80:PHE:CE1	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:332:LEU:HD11	1:L:410:VAL:N	2.24	0.53
1:A:76:ILE:HD11	1:A:202:MET:SD	2.47	0.53
1:A:99:GLY:H	1:A:103:ASP:HB2	1.73	0.53
1:B:291:SER:O	1:B:291:SER:OG	2.27	0.53
1:C:140:PHE:HB3	1:C:149:VAL:HG23	1.91	0.53
1:C:200:GLU:HA	1:C:204:LEU:O	2.08	0.53
1:C:316:THR:HG21	1:I:461:GLU:HG3	1.91	0.53
1:D:133:PHE:CZ	1:D:218:GLN:HG3	2.44	0.53
1:D:179:TYR:N	1:D:181:PRO:HD3	2.24	0.53
1:D:424:ASP:O	1:D:425:ARG:C	2.51	0.53
1:E:39:ASN:ND2	1:E:42:PHE:HB2	2.24	0.53
1:E:179:TYR:N	1:E:181:PRO:HD3	2.24	0.53
1:E:304:HIS:O	1:E:308:ILE:CG1	2.53	0.53
1:E:419:ASN:O	1:E:420:ALA:C	2.52	0.53
1:F:179:TYR:N	1:F:181:PRO:HD3	2.24	0.53
1:F:425:ARG:HD2	1:F:439:ILE:HG21	1.91	0.53
1:G:54:ILE:CD1	1:G:102:ARG:HD3	2.35	0.53
1:G:133:PHE:CE2	1:G:260:MET:HE3	2.43	0.53
1:G:403:GLU:HA	1:G:406:GLU:HB2	1.89	0.53
1:H:39:ASN:ND2	1:H:42:PHE:HB3	2.23	0.53
1:H:98:GLN:O	1:H:98:GLN:CG	2.51	0.53
1:H:133:PHE:CE2	1:H:260:MET:HE3	2.44	0.53
1:H:419:ASN:O	1:H:422:ASP:N	2.42	0.53
1:I:207:GLU:O	1:I:208:ALA:HB2	2.07	0.53
1:I:321:ARG:HG3	1:I:322:LEU:N	2.23	0.53
1:J:63:SER:HG	1:J:91:ILE:HG22	1.74	0.53
1:J:79:PHE:HB2	1:J:80:PHE:CE1	2.44	0.53
1:J:196:CYS:O	1:J:199:MET:N	2.42	0.53
1:K:67:LEU:CG	1:K:88:ARG:HB3	2.39	0.53
1:L:49:PHE:CD2	1:L:49:PHE:N	2.71	0.53
1:A:338:ASN:N	1:F:58:LYS:CB	2.72	0.52
1:B:39:ASN:ND2	1:B:42:PHE:HB2	2.24	0.52
1:B:99:GLY:H	1:B:103:ASP:HB2	1.73	0.52
1:B:227:THR:O	1:B:228:MET:C	2.48	0.52
1:C:58:LYS:HB3	1:D:337:ARG:CA	2.39	0.52
1:C:401:PRO:C	1:C:405:LYS:HG2	2.34	0.52
1:C:460:VAL:O	1:C:461:GLU:C	2.51	0.52
1:D:58:LYS:HB3	1:E:337:ARG:CA	2.39	0.52
1:D:274:LEU:HD12	1:D:282:PHE:CE1	2.44	0.52
1:D:334:TYR:CE1	1:D:388:PRO:HB3	2.44	0.52
1:E:119:GLY:O	1:E:121:ALA:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:332:LEU:HD11	1:F:410:VAL:N	2.24	0.52
1:F:419:ASN:O	1:F:422:ASP:N	2.42	0.52
1:G:335:SER:H	1:G:345:ILE:CD1	2.22	0.52
1:G:338:ASN:N	1:H:58:LYS:CB	2.72	0.52
1:I:68:MET:HE2	1:I:88:ARG:NE	2.23	0.52
1:I:108:ALA:HB1	1:I:229:THR:OG1	2.08	0.52
1:I:119:GLY:O	1:I:121:ALA:N	2.42	0.52
1:I:179:TYR:N	1:I:181:PRO:HD3	2.24	0.52
1:I:337:ARG:CA	1:J:58:LYS:HB3	2.39	0.52
1:I:338:ASN:ND2	1:I:395:ASN:H	1.99	0.52
1:J:119:GLY:O	1:J:121:ALA:N	2.42	0.52
1:J:207:GLU:O	1:J:208:ALA:HB2	2.07	0.52
1:J:338:ASN:HD21	1:J:395:ASN:CA	2.21	0.52
1:K:133:PHE:CE2	1:K:260:MET:HE3	2.43	0.52
1:K:140:PHE:HB3	1:K:149:VAL:HG23	1.91	0.52
1:K:401:PRO:C	1:K:405:LYS:HG2	2.34	0.52
1:K:460:VAL:O	1:K:461:GLU:C	2.51	0.52
1:L:179:TYR:N	1:L:181:PRO:HD3	2.24	0.52
1:L:200:GLU:HA	1:L:204:LEU:O	2.08	0.52
1:L:291:SER:O	1:L:291:SER:OG	2.27	0.52
1:L:297:TYR:HA	1:L:378:GLY:O	2.09	0.52
1:L:379:LEU:C	1:L:379:LEU:CD1	2.82	0.52
1:A:281:LEU:HD23	1:A:293:GLN:HE21	1.74	0.52
1:A:291:SER:O	1:A:291:SER:OG	2.27	0.52
1:A:297:TYR:HA	1:A:378:GLY:O	2.09	0.52
1:B:58:LYS:CB	1:C:338:ASN:N	2.72	0.52
1:B:179:TYR:N	1:B:181:PRO:HD3	2.24	0.52
1:B:200:GLU:HA	1:B:204:LEU:O	2.08	0.52
1:B:297:TYR:HA	1:B:378:GLY:O	2.09	0.52
1:B:460:VAL:O	1:B:461:GLU:C	2.51	0.52
1:C:67:LEU:CG	1:C:88:ARG:HB3	2.40	0.52
1:C:133:PHE:CE2	1:C:260:MET:HE3	2.44	0.52
1:C:138:ILE:HG21	1:I:466:TYR:CZ	2.44	0.52
1:C:154:ILE:O	1:C:155:GLU:CB	2.50	0.52
1:C:295:LEU:O	1:C:388:PRO:HD3	2.08	0.52
1:D:79:PHE:HB2	1:D:80:PHE:CE1	2.44	0.52
1:D:316:THR:HG21	1:J:461:GLU:HG3	1.90	0.52
1:D:399:LEU:O	1:D:401:PRO:N	2.42	0.52
1:E:461:GLU:HG3	1:K:316:THR:HG21	1.91	0.52
1:F:142:ALA:HA	1:F:147:SER:HA	1.89	0.52
1:F:316:THR:HG21	1:L:461:GLU:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:99:GLY:H	1:G:103:ASP:HB2	1.73	0.52
1:H:9:LEU:CD1	1:H:14:VAL:HG21	2.34	0.52
1:H:68:MET:HE2	1:H:88:ARG:NE	2.23	0.52
1:H:88:ARG:CD	1:H:109:LYS:HE3	2.38	0.52
1:H:295:LEU:O	1:H:388:PRO:HD3	2.09	0.52
1:I:331:MET:HE3	1:I:396:LEU:HB2	1.90	0.52
1:I:360:PHE:CG	1:I:361:PRO:HD3	2.43	0.52
1:J:39:ASN:ND2	1:J:42:PHE:HB2	2.24	0.52
1:J:332:LEU:HD11	1:J:410:VAL:N	2.24	0.52
1:J:334:TYR:CE1	1:J:388:PRO:HB3	2.44	0.52
1:J:399:LEU:O	1:J:401:PRO:N	2.42	0.52
1:K:295:LEU:O	1:K:388:PRO:HD3	2.09	0.52
1:K:399:LEU:O	1:K:401:PRO:N	2.42	0.52
1:L:39:ASN:ND2	1:L:42:PHE:HB2	2.24	0.52
1:L:67:LEU:CG	1:L:88:ARG:HB3	2.40	0.52
1:L:271:HIS:CD2	1:L:357:GLU:HB2	2.44	0.52
1:L:317:ASN:C	1:L:317:ASN:HD22	2.17	0.52
1:A:119:GLY:O	1:A:120:ILE:C	2.52	0.52
1:B:67:LEU:CG	1:B:88:ARG:HB3	2.40	0.52
1:B:317:ASN:C	1:B:317:ASN:HD22	2.16	0.52
1:B:379:LEU:C	1:B:379:LEU:CD1	2.82	0.52
1:B:449:GLU:CD	1:H:465:TYR:OH	2.52	0.52
1:C:399:LEU:O	1:C:401:PRO:N	2.42	0.52
1:D:39:ASN:ND2	1:D:42:PHE:HB2	2.24	0.52
1:D:447:ARG:HH11	1:D:447:ARG:HG2	1.74	0.52
1:D:461:GLU:HG3	1:J:316:THR:HG21	1.91	0.52
1:E:68:MET:HE2	1:E:88:ARG:NE	2.23	0.52
1:E:403:GLU:O	1:E:406:GLU:N	2.43	0.52
1:F:9:LEU:CD1	1:F:14:VAL:HG21	2.34	0.52
1:F:88:ARG:CD	1:F:109:LYS:HE3	2.38	0.52
1:F:119:GLY:O	1:F:120:ILE:C	2.52	0.52
1:G:119:GLY:O	1:G:120:ILE:C	2.52	0.52
1:G:281:LEU:HD23	1:G:293:GLN:HE21	1.74	0.52
1:G:291:SER:O	1:G:291:SER:OG	2.27	0.52
1:G:334:TYR:CE1	1:G:388:PRO:HB3	2.44	0.52
1:G:403:GLU:O	1:G:406:GLU:N	2.42	0.52
1:H:3:GLU:OE1	1:H:3:GLU:CA	2.57	0.52
1:H:142:ALA:HA	1:H:147:SER:HA	1.89	0.52
1:H:366:ASN:N	1:H:366:ASN:OD1	2.42	0.52
1:H:425:ARG:HD2	1:H:439:ILE:HG21	1.91	0.52
1:I:296:TYR:H	1:I:296:TYR:HD2	1.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:366:ASN:N	1:I:366:ASN:OD1	2.42	0.52
1:I:403:GLU:O	1:I:406:GLU:N	2.43	0.52
1:J:274:LEU:HD12	1:J:282:PHE:CE1	2.45	0.52
1:J:401:PRO:O	1:J:402:GLU:C	2.52	0.52
1:K:99:GLY:H	1:K:103:ASP:HB2	1.73	0.52
1:K:283:SER:OG	1:K:284:GLY:N	2.42	0.52
1:K:332:LEU:HD11	1:K:410:VAL:N	2.24	0.52
1:K:379:LEU:C	1:K:379:LEU:CD1	2.82	0.52
1:L:196:CYS:O	1:L:199:MET:N	2.42	0.52
1:L:335:SER:H	1:L:345:ILE:CD1	2.22	0.52
1:L:425:ARG:HD2	1:L:439:ILE:HG21	1.91	0.52
1:A:334:TYR:CE1	1:A:388:PRO:HB3	2.44	0.52
1:A:447:ARG:HH11	1:A:447:ARG:HG2	1.74	0.52
1:B:49:PHE:CD2	1:B:49:PHE:N	2.71	0.52
1:B:196:CYS:O	1:B:199:MET:N	2.42	0.52
1:B:283:SER:OG	1:B:284:GLY:N	2.42	0.52
1:B:425:ARG:HD2	1:B:439:ILE:HG21	1.91	0.52
1:C:283:SER:OG	1:C:284:GLY:N	2.42	0.52
1:C:297:TYR:HA	1:C:378:GLY:O	2.09	0.52
1:C:332:LEU:HD11	1:C:410:VAL:N	2.24	0.52
1:C:399:LEU:CG	1:C:402:GLU:HB2	2.40	0.52
1:D:77:ASP:O	1:D:78:PRO:C	2.52	0.52
1:D:401:PRO:O	1:D:402:GLU:C	2.52	0.52
1:D:466:TYR:CZ	1:J:138:ILE:HG21	2.44	0.52
1:E:79:PHE:HB2	1:E:80:PHE:CE1	2.44	0.52
1:E:108:ALA:HB1	1:E:229:THR:OG1	2.08	0.52
1:E:144:ILE:HG23	1:E:145:SER:H	1.75	0.52
1:E:296:TYR:H	1:E:296:TYR:HD2	1.58	0.52
1:E:321:ARG:HG3	1:E:322:LEU:N	2.23	0.52
1:E:331:MET:HE3	1:E:396:LEU:HB2	1.90	0.52
1:E:466:TYR:CZ	1:K:138:ILE:HG21	2.44	0.52
1:F:3:GLU:OE1	1:F:3:GLU:CA	2.57	0.52
1:F:144:ILE:HG23	1:F:145:SER:H	1.75	0.52
1:F:366:ASN:N	1:F:366:ASN:OD1	2.42	0.52
1:G:20:ARG:NH2	1:G:86:ILE:HG22	2.24	0.52
1:G:124:VAL:C	1:G:125:LEU:HD23	2.35	0.52
1:H:67:LEU:C	1:H:69:PRO:N	2.62	0.52
1:H:119:GLY:O	1:H:120:ILE:C	2.52	0.52
1:H:196:CYS:O	1:H:199:MET:N	2.42	0.52
1:H:296:TYR:H	1:H:296:TYR:HD2	1.58	0.52
1:H:317:ASN:C	1:H:317:ASN:HD22	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:403:GLU:HB3	1:H:406:GLU:HB2	1.87	0.52
1:I:332:LEU:HD11	1:I:410:VAL:N	2.24	0.52
1:I:338:ASN:HD21	1:I:395:ASN:CA	2.21	0.52
1:J:77:ASP:O	1:J:78:PRO:C	2.52	0.52
1:J:271:HIS:CD2	1:J:357:GLU:HB2	2.44	0.52
1:J:308:ILE:O	1:J:311:LEU:N	2.41	0.52
1:K:157:ALA:O	1:K:158:TRP:C	2.51	0.52
1:K:419:ASN:O	1:K:420:ALA:C	2.52	0.52
1:L:20:ARG:NH2	1:L:86:ILE:HG22	2.24	0.52
1:L:334:TYR:CE1	1:L:388:PRO:HB3	2.44	0.52
1:A:20:ARG:NH2	1:A:86:ILE:HG22	2.24	0.52
1:A:79:PHE:HB2	1:A:80:PHE:CE1	2.44	0.52
1:A:133:PHE:CE2	1:A:260:MET:HE3	2.43	0.52
1:A:403:GLU:O	1:A:406:GLU:N	2.43	0.52
1:B:20:ARG:NH2	1:B:86:ILE:HG22	2.24	0.52
1:B:419:ASN:O	1:B:420:ALA:C	2.52	0.52
1:B:465:TYR:OH	1:H:449:GLU:CD	2.52	0.52
1:C:157:ALA:O	1:C:158:TRP:C	2.51	0.52
1:C:297:TYR:C	1:C:299:GLY:N	2.66	0.52
1:C:325:GLY:HA3	1:C:328:ALA:CB	2.38	0.52
1:C:379:LEU:C	1:C:379:LEU:CD1	2.82	0.52
1:C:392:MET:HA	1:C:392:MET:CE	2.23	0.52
1:C:411:ALA:O	1:C:412:GLY:C	2.53	0.52
1:C:461:GLU:HG3	1:I:316:THR:HG21	1.91	0.52
1:D:67:LEU:CG	1:D:88:ARG:HB3	2.40	0.52
1:D:119:GLY:O	1:D:120:ILE:C	2.52	0.52
1:D:308:ILE:O	1:D:311:LEU:N	2.41	0.52
1:D:315:THR:O	1:D:318:SER:N	2.37	0.52
1:E:316:THR:HG21	1:K:461:GLU:HG3	1.91	0.52
1:E:338:ASN:ND2	1:E:395:ASN:H	1.99	0.52
1:F:23:ASP:CB	1:F:28:GLU:HA	2.34	0.52
1:F:68:MET:HE2	1:F:88:ARG:NE	2.23	0.52
1:F:89:CYS:HB3	1:F:103:ASP:OD2	2.07	0.52
1:F:98:GLN:O	1:F:98:GLN:CG	2.51	0.52
1:F:196:CYS:O	1:F:199:MET:N	2.43	0.52
1:F:296:TYR:H	1:F:296:TYR:HD2	1.58	0.52
1:F:403:GLU:HB3	1:F:406:GLU:HB2	1.87	0.52
1:F:460:VAL:O	1:F:461:GLU:C	2.52	0.52
1:F:465:TYR:OH	1:L:449:GLU:CD	2.52	0.52
1:G:79:PHE:HB2	1:G:80:PHE:CE1	2.44	0.52
1:G:419:ASN:O	1:G:422:ASP:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:401:PRO:O	1:H:402:GLU:C	2.52	0.52
1:I:144:ILE:HG23	1:I:145:SER:H	1.75	0.52
1:I:297:TYR:OH	1:I:375:LEU:HA	2.10	0.52
1:I:335:SER:H	1:I:345:ILE:CD1	2.22	0.52
1:J:67:LEU:CG	1:J:88:ARG:HB3	2.40	0.52
1:J:447:ARG:HH11	1:J:447:ARG:HG2	1.74	0.52
1:K:196:CYS:O	1:K:199:MET:N	2.42	0.52
1:K:297:TYR:OH	1:K:375:LEU:HA	2.10	0.52
1:K:309:ASN:HB2	1:K:313:ASN:HB2	1.91	0.52
1:K:325:GLY:HA3	1:K:328:ALA:CB	2.38	0.52
1:K:338:ASN:ND2	1:K:395:ASN:H	1.99	0.52
1:K:338:ASN:N	1:L:58:LYS:CB	2.72	0.52
1:K:399:LEU:CG	1:K:402:GLU:HB2	2.40	0.52
1:K:411:ALA:O	1:K:412:GLY:C	2.52	0.52
1:L:283:SER:OG	1:L:284:GLY:N	2.42	0.52
1:L:419:ASN:O	1:L:420:ALA:C	2.52	0.52
1:A:119:GLY:O	1:A:121:ALA:N	2.42	0.52
1:A:419:ASN:O	1:A:422:ASP:N	2.42	0.52
1:B:119:GLY:O	1:B:120:ILE:C	2.53	0.52
1:B:295:LEU:O	1:B:388:PRO:HD3	2.09	0.52
1:B:334:TYR:CE1	1:B:388:PRO:HB3	2.44	0.52
1:B:335:SER:H	1:B:345:ILE:CD1	2.22	0.52
1:C:111:ALA:HA	1:C:376:MET:HE2	1.91	0.52
1:C:196:CYS:O	1:C:199:MET:N	2.42	0.52
1:C:297:TYR:OH	1:C:375:LEU:HA	2.10	0.52
1:C:309:ASN:HB2	1:C:313:ASN:HB2	1.91	0.52
1:C:403:GLU:O	1:C:406:GLU:N	2.43	0.52
1:C:419:ASN:O	1:C:420:ALA:C	2.52	0.52
1:D:10:ASN:O	1:D:11:GLU:C	2.51	0.52
1:D:23:ASP:CB	1:D:28:GLU:HA	2.34	0.52
1:D:200:GLU:HA	1:D:204:LEU:O	2.08	0.52
1:D:403:GLU:O	1:D:406:GLU:N	2.43	0.52
1:E:9:LEU:HD12	1:E:14:VAL:CG2	2.38	0.52
1:E:102:ARG:HB2	1:E:104:PRO:CD	2.11	0.52
1:E:119:GLY:O	1:E:120:ILE:C	2.52	0.52
1:E:140:PHE:HB3	1:E:149:VAL:HG23	1.91	0.52
1:E:297:TYR:OH	1:E:375:LEU:HA	2.10	0.52
1:E:332:LEU:HD11	1:E:410:VAL:N	2.24	0.52
1:E:335:SER:H	1:E:345:ILE:CD1	2.22	0.52
1:E:366:ASN:OD1	1:E:366:ASN:N	2.42	0.52
1:E:401:PRO:O	1:E:404:ALA:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:79:PHE:HB2	1:F:80:PHE:CE1	2.44	0.52
1:F:111:ALA:HA	1:F:376:MET:HE2	1.91	0.52
1:F:317:ASN:C	1:F:317:ASN:HD22	2.16	0.52
1:F:401:PRO:O	1:F:402:GLU:C	2.52	0.52
1:G:54:ILE:CB	1:G:101:ASP:HB2	2.34	0.52
1:G:119:GLY:O	1:G:121:ALA:N	2.42	0.52
1:G:179:TYR:N	1:G:181:PRO:HD3	2.24	0.52
1:H:23:ASP:CB	1:H:28:GLU:HA	2.34	0.52
1:H:89:CYS:HB3	1:H:103:ASP:OD2	2.07	0.52
1:H:297:TYR:OH	1:H:375:LEU:HA	2.10	0.52
1:H:419:ASN:O	1:H:420:ALA:C	2.52	0.52
1:H:460:VAL:O	1:H:461:GLU:C	2.51	0.52
1:J:119:GLY:O	1:J:120:ILE:C	2.52	0.52
1:J:297:TYR:OH	1:J:375:LEU:HA	2.10	0.52
1:J:403:GLU:O	1:J:406:GLU:N	2.43	0.52
1:K:271:HIS:CD2	1:K:357:GLU:HB2	2.44	0.52
1:K:297:TYR:HA	1:K:378:GLY:O	2.09	0.52
1:K:392:MET:HA	1:K:392:MET:CE	2.23	0.52
1:L:88:ARG:CD	1:L:109:LYS:HE3	2.38	0.52
1:L:99:GLY:H	1:L:103:ASP:HB2	1.73	0.52
1:L:119:GLY:O	1:L:120:ILE:C	2.53	0.52
1:A:2:ALA:C	1:A:6:LEU:HD23	2.35	0.52
1:A:112:GLU:O	1:A:115:LEU:CB	2.58	0.52
1:A:124:VAL:C	1:A:125:LEU:HD23	2.35	0.52
1:A:144:ILE:HG23	1:A:145:SER:H	1.75	0.52
1:A:179:TYR:N	1:A:181:PRO:HD3	2.24	0.52
1:B:138:ILE:HG21	1:H:466:TYR:CZ	2.44	0.52
1:B:144:ILE:HG23	1:B:145:SER:H	1.74	0.52
1:B:271:HIS:CD2	1:B:357:GLU:HB2	2.44	0.52
1:B:281:LEU:HD23	1:B:293:GLN:HE21	1.74	0.52
1:C:271:HIS:CD2	1:C:357:GLU:HB2	2.44	0.52
1:C:274:LEU:HD12	1:C:282:PHE:CE1	2.44	0.52
1:D:138:ILE:HG21	1:J:466:TYR:CZ	2.44	0.52
1:D:159:ASN:ND2	1:D:164:TYR:OH	2.43	0.52
1:D:271:HIS:CD2	1:D:357:GLU:HB2	2.44	0.52
1:D:297:TYR:OH	1:D:375:LEU:HA	2.10	0.52
1:E:49:PHE:HD2	1:E:49:PHE:N	2.03	0.52
1:E:338:ASN:HD21	1:E:395:ASN:CA	2.21	0.52
1:F:309:ASN:HB2	1:F:313:ASN:HB2	1.91	0.52
1:F:334:TYR:CE1	1:F:388:PRO:HB3	2.44	0.52
1:F:419:ASN:O	1:F:420:ALA:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:466:TYR:CZ	1:L:138:ILE:HG21	2.44	0.52
1:G:67:LEU:CG	1:G:88:ARG:HB3	2.40	0.52
1:G:112:GLU:O	1:G:115:LEU:CB	2.58	0.52
1:G:419:ASN:O	1:G:420:ALA:C	2.52	0.52
1:H:79:PHE:HB2	1:H:80:PHE:CE1	2.44	0.52
1:H:124:VAL:C	1:H:125:LEU:HD23	2.35	0.52
1:H:309:ASN:HB2	1:H:313:ASN:HB2	1.91	0.52
1:H:334:TYR:CE1	1:H:388:PRO:HB3	2.44	0.52
1:I:79:PHE:HB2	1:I:80:PHE:CE1	2.44	0.52
1:I:174:GLY:O	1:I:175:VAL:C	2.53	0.52
1:I:228:MET:HE1	1:I:372:ALA:HA	1.92	0.52
1:J:10:ASN:O	1:J:11:GLU:C	2.51	0.52
1:J:315:THR:O	1:J:318:SER:N	2.37	0.52
1:K:403:GLU:O	1:K:406:GLU:N	2.43	0.52
1:L:124:VAL:C	1:L:125:LEU:HD23	2.35	0.52
1:L:281:LEU:HD23	1:L:293:GLN:HE21	1.74	0.52
1:L:295:LEU:O	1:L:388:PRO:HD3	2.09	0.52
1:L:403:GLU:O	1:L:406:GLU:N	2.43	0.52
1:L:447:ARG:HH11	1:L:447:ARG:HG2	1.74	0.52
1:A:67:LEU:CG	1:A:88:ARG:HB3	2.40	0.52
1:A:295:LEU:O	1:A:388:PRO:HD3	2.09	0.52
1:A:419:ASN:O	1:A:420:ALA:C	2.52	0.52
1:A:449:GLU:CD	1:G:465:TYR:OH	2.52	0.52
1:B:133:PHE:CE2	1:B:260:MET:HE3	2.44	0.52
1:B:297:TYR:OH	1:B:375:LEU:HA	2.10	0.52
1:B:403:GLU:O	1:B:406:GLU:N	2.43	0.52
1:C:179:TYR:N	1:C:181:PRO:HD3	2.24	0.52
1:D:110:ARG:O	1:D:111:ALA:C	2.53	0.52
1:D:144:ILE:HG23	1:D:145:SER:H	1.75	0.52
1:D:228:MET:HE1	1:D:372:ALA:HA	1.92	0.52
1:E:68:MET:CE	1:E:105:ARG:HD3	2.27	0.52
1:E:138:ILE:HG21	1:K:466:TYR:CZ	2.44	0.52
1:E:174:GLY:O	1:E:175:VAL:C	2.53	0.52
1:E:274:LEU:HD12	1:E:282:PHE:CE1	2.44	0.52
1:E:317:ASN:HD22	1:E:317:ASN:C	2.17	0.52
1:E:411:ALA:O	1:E:412:GLY:C	2.53	0.52
1:E:460:VAL:O	1:E:461:GLU:C	2.51	0.52
1:F:67:LEU:C	1:F:69:PRO:N	2.63	0.52
1:F:110:ARG:O	1:F:111:ALA:C	2.53	0.52
1:F:124:VAL:C	1:F:125:LEU:HD23	2.35	0.52
1:F:297:TYR:OH	1:F:375:LEU:HA	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2:ALA:C	1:G:6:LEU:HD23	2.35	0.52
1:G:295:LEU:O	1:G:388:PRO:HD3	2.09	0.52
1:G:399:LEU:CG	1:G:402:GLU:HB2	2.40	0.52
1:H:111:ALA:HA	1:H:376:MET:HE2	1.90	0.52
1:H:297:TYR:HA	1:H:378:GLY:O	2.09	0.52
1:I:119:GLY:O	1:I:120:ILE:C	2.52	0.52
1:I:196:CYS:O	1:I:199:MET:N	2.42	0.52
1:I:401:PRO:O	1:I:404:ALA:N	2.43	0.52
1:I:460:VAL:O	1:I:461:GLU:C	2.52	0.52
1:J:159:ASN:ND2	1:J:164:TYR:OH	2.43	0.52
1:J:200:GLU:HA	1:J:204:LEU:O	2.08	0.52
1:J:338:ASN:N	1:K:58:LYS:CB	2.72	0.52
1:K:111:ALA:HA	1:K:376:MET:HE2	1.91	0.52
1:K:179:TYR:N	1:K:181:PRO:HD3	2.24	0.52
1:K:294:ALA:O	1:K:297:TYR:CB	2.58	0.52
1:K:425:ARG:HD2	1:K:439:ILE:HG21	1.91	0.52
1:K:447:ARG:HH11	1:K:447:ARG:HG2	1.74	0.52
1:L:3:GLU:OE1	1:L:3:GLU:CA	2.57	0.52
1:L:133:PHE:CE2	1:L:260:MET:HE3	2.43	0.52
1:L:297:TYR:OH	1:L:375:LEU:HA	2.10	0.52
1:A:140:PHE:HB3	1:A:149:VAL:HG23	1.91	0.52
1:A:196:CYS:O	1:A:199:MET:N	2.42	0.52
1:A:399:LEU:CG	1:A:402:GLU:HB2	2.40	0.52
1:A:411:ALA:O	1:A:412:GLY:C	2.52	0.52
1:A:465:TYR:OH	1:G:449:GLU:CD	2.52	0.52
1:A:466:TYR:CZ	1:G:138:ILE:HG21	2.44	0.52
1:B:110:ARG:O	1:B:111:ALA:C	2.53	0.52
1:B:124:VAL:C	1:B:125:LEU:HD23	2.35	0.52
1:B:366:ASN:N	1:B:366:ASN:OD1	2.42	0.52
1:B:447:ARG:HH11	1:B:447:ARG:HG2	1.74	0.52
1:C:99:GLY:H	1:C:103:ASP:HB2	1.73	0.52
1:C:119:GLY:O	1:C:121:ALA:N	2.42	0.52
1:C:321:ARG:HG3	1:C:322:LEU:N	2.23	0.52
1:C:338:ASN:ND2	1:C:395:ASN:H	1.99	0.52
1:D:115:LEU:O	1:D:115:LEU:HD22	2.10	0.52
1:D:200:GLU:O	1:D:201:GLN:C	2.53	0.52
1:D:296:TYR:CB	1:D:382:ILE:CA	2.84	0.52
1:D:316:THR:O	1:D:317:ASN:C	2.53	0.52
1:E:449:GLU:CD	1:K:465:TYR:OH	2.52	0.52
1:F:39:ASN:ND2	1:F:42:PHE:HB2	2.24	0.52
1:F:297:TYR:HA	1:F:378:GLY:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:298:ILE:O	1:F:302:ILE:HG13	2.10	0.52
1:F:376:MET:HE1	1:F:433:VAL:CG1	2.22	0.52
1:G:144:ILE:HG23	1:G:145:SER:H	1.75	0.52
1:G:276:LYS:HD2	1:G:276:LYS:O	2.10	0.52
1:G:337:ARG:HB2	1:H:57:TRP:HE1	1.73	0.52
1:G:403:GLU:HB3	1:G:406:GLU:HB2	1.87	0.52
1:G:447:ARG:HH11	1:G:447:ARG:HG2	1.74	0.52
1:H:20:ARG:NH2	1:H:86:ILE:HG22	2.24	0.52
1:H:39:ASN:ND2	1:H:42:PHE:HB2	2.24	0.52
1:I:89:CYS:SG	1:I:103:ASP:CB	2.98	0.52
1:I:411:ALA:O	1:I:412:GLY:C	2.53	0.52
1:J:23:ASP:CB	1:J:28:GLU:HA	2.34	0.52
1:J:110:ARG:O	1:J:111:ALA:C	2.53	0.52
1:J:115:LEU:O	1:J:115:LEU:HD22	2.10	0.52
1:J:228:MET:HE1	1:J:372:ALA:HA	1.92	0.52
1:J:316:THR:O	1:J:317:ASN:C	2.53	0.52
1:K:274:LEU:HD12	1:K:282:PHE:CE1	2.45	0.52
1:L:110:ARG:O	1:L:111:ALA:C	2.53	0.52
1:L:401:PRO:O	1:L:402:GLU:C	2.52	0.52
1:A:54:ILE:CB	1:A:101:ASP:HB2	2.34	0.52
1:A:138:ILE:HG21	1:G:466:TYR:CZ	2.44	0.52
1:A:258:LYS:CA	1:A:317:ASN:HD21	2.23	0.52
1:A:276:LYS:HD2	1:A:276:LYS:O	2.10	0.52
1:A:296:TYR:H	1:A:296:TYR:HD2	1.57	0.52
1:A:392:MET:CE	1:A:392:MET:HA	2.23	0.52
1:A:435:THR:CG2	1:A:437:GLU:HG2	2.40	0.52
1:B:3:GLU:OE1	1:B:3:GLU:CA	2.57	0.52
1:B:88:ARG:CD	1:B:109:LYS:HE3	2.38	0.52
1:C:58:LYS:CB	1:D:338:ASN:N	2.72	0.52
1:C:62:GLU:HB3	1:C:90:ASP:HB2	1.92	0.52
1:C:366:ASN:N	1:C:366:ASN:OD1	2.42	0.52
1:C:425:ARG:HD2	1:C:439:ILE:HG21	1.91	0.52
1:C:447:ARG:HH11	1:C:447:ARG:HG2	1.74	0.52
1:C:465:TYR:OH	1:I:449:GLU:CD	2.52	0.52
1:C:466:TYR:CZ	1:I:138:ILE:HG21	2.44	0.52
1:D:89:CYS:HB3	1:D:103:ASP:OD2	2.07	0.52
1:D:294:ALA:O	1:D:297:TYR:CB	2.58	0.52
1:D:379:LEU:C	1:D:379:LEU:CD1	2.82	0.52
1:E:89:CYS:SG	1:E:103:ASP:CB	2.98	0.52
1:E:136:ASP:HB2	1:E:153:ASP:HA	1.92	0.52
1:E:196:CYS:O	1:E:199:MET:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:228:MET:HE1	1:E:372:ALA:HA	1.92	0.52
1:E:294:ALA:O	1:E:297:TYR:CB	2.58	0.52
1:F:258:LYS:CA	1:F:317:ASN:HD21	2.23	0.52
1:G:140:PHE:HB3	1:G:149:VAL:HG23	1.91	0.52
1:G:196:CYS:O	1:G:199:MET:N	2.42	0.52
1:G:392:MET:HA	1:G:392:MET:CE	2.23	0.52
1:G:411:ALA:O	1:G:412:GLY:C	2.52	0.52
1:G:435:THR:CG2	1:G:437:GLU:HG2	2.40	0.52
1:H:92:LEU:H	1:H:97:LEU:H	1.51	0.52
1:H:281:LEU:HD23	1:H:293:GLN:HE21	1.74	0.52
1:I:9:LEU:HD12	1:I:14:VAL:CG2	2.38	0.52
1:I:294:ALA:O	1:I:297:TYR:CB	2.58	0.52
1:I:317:ASN:HD22	1:I:317:ASN:C	2.16	0.52
1:J:62:GLU:HB3	1:J:90:ASP:HB2	1.92	0.52
1:J:89:CYS:HB3	1:J:103:ASP:OD2	2.07	0.52
1:J:144:ILE:HG23	1:J:145:SER:H	1.75	0.52
1:J:200:GLU:O	1:J:201:GLN:C	2.53	0.52
1:J:296:TYR:CB	1:J:382:ILE:CA	2.84	0.52
1:J:366:ASN:OD1	1:J:366:ASN:N	2.42	0.52
1:J:379:LEU:C	1:J:379:LEU:CD1	2.82	0.52
1:J:401:PRO:O	1:J:404:ALA:N	2.43	0.52
1:J:435:THR:CG2	1:J:437:GLU:HG2	2.40	0.52
1:K:136:ASP:HB2	1:K:153:ASP:HA	1.92	0.52
1:L:366:ASN:OD1	1:L:366:ASN:N	2.42	0.52
1:A:159:ASN:ND2	1:A:164:TYR:OH	2.43	0.51
1:A:337:ARG:HB2	1:F:57:TRP:HE1	1.73	0.51
1:B:294:ALA:O	1:B:297:TYR:CB	2.58	0.51
1:B:399:LEU:CG	1:B:402:GLU:HB2	2.40	0.51
1:C:159:ASN:ND2	1:C:164:TYR:OH	2.43	0.51
1:C:200:GLU:O	1:C:201:GLN:C	2.53	0.51
1:C:294:ALA:O	1:C:297:TYR:CB	2.58	0.51
1:C:298:ILE:O	1:C:302:ILE:HG13	2.10	0.51
1:C:435:THR:CG2	1:C:437:GLU:HG2	2.40	0.51
1:D:111:ALA:HA	1:D:376:MET:HE2	1.91	0.51
1:D:296:TYR:H	1:D:296:TYR:HD2	1.57	0.51
1:D:309:ASN:HB2	1:D:313:ASN:HB2	1.91	0.51
1:D:401:PRO:O	1:D:404:ALA:N	2.43	0.51
1:D:435:THR:CG2	1:D:437:GLU:HG2	2.40	0.51
1:E:2:ALA:C	1:E:6:LEU:HD23	2.35	0.51
1:E:316:THR:O	1:E:317:ASN:C	2.53	0.51
1:E:433:VAL:O	1:E:434:PHE:CB	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:403:GLU:O	1:F:406:GLU:N	2.43	0.51
1:G:159:ASN:ND2	1:G:164:TYR:OH	2.43	0.51
1:G:258:LYS:CA	1:G:317:ASN:HD21	2.23	0.51
1:G:379:LEU:C	1:G:379:LEU:CD1	2.82	0.51
1:H:63:SER:HG	1:H:91:ILE:HG22	1.74	0.51
1:H:110:ARG:O	1:H:111:ALA:C	2.53	0.51
1:H:258:LYS:CA	1:H:317:ASN:HD21	2.23	0.51
1:H:276:LYS:HD2	1:H:276:LYS:O	2.10	0.51
1:H:298:ILE:O	1:H:302:ILE:HG13	2.10	0.51
1:I:49:PHE:CD2	1:I:49:PHE:N	2.71	0.51
1:I:68:MET:CE	1:I:105:ARG:HD3	2.27	0.51
1:I:112:GLU:O	1:I:115:LEU:CB	2.58	0.51
1:I:140:PHE:HB3	1:I:149:VAL:HG23	1.91	0.51
1:J:90:ASP:O	1:J:91:ILE:O	2.21	0.51
1:J:294:ALA:O	1:J:297:TYR:CB	2.58	0.51
1:K:62:GLU:HB3	1:K:90:ASP:HB2	1.93	0.51
1:K:200:GLU:O	1:K:201:GLN:C	2.53	0.51
1:L:258:LYS:CA	1:L:317:ASN:HD21	2.23	0.51
1:L:294:ALA:O	1:L:297:TYR:CB	2.58	0.51
1:L:399:LEU:CG	1:L:402:GLU:HB2	2.40	0.51
1:A:339:ARG:CB	1:F:58:LYS:HG3	2.35	0.51
1:A:379:LEU:C	1:A:379:LEU:CD1	2.82	0.51
1:B:13:GLU:C	1:B:14:VAL:CG1	2.84	0.51
1:B:159:ASN:ND2	1:B:164:TYR:OH	2.43	0.51
1:B:258:LYS:CA	1:B:317:ASN:HD21	2.23	0.51
1:B:276:LYS:HD2	1:B:276:LYS:O	2.10	0.51
1:C:258:LYS:CA	1:C:317:ASN:HD21	2.23	0.51
1:C:291:SER:O	1:C:291:SER:OG	2.27	0.51
1:C:296:TYR:CB	1:C:382:ILE:CA	2.84	0.51
1:C:449:GLU:CD	1:I:465:TYR:OH	2.52	0.51
1:D:13:GLU:C	1:D:14:VAL:CG1	2.84	0.51
1:D:62:GLU:HB3	1:D:90:ASP:HB2	1.92	0.51
1:D:76:ILE:HD11	1:D:202:MET:HE1	0.65	0.51
1:D:136:ASP:HB2	1:D:153:ASP:HA	1.92	0.51
1:D:297:TYR:HA	1:D:378:GLY:O	2.09	0.51
1:D:366:ASN:OD1	1:D:366:ASN:N	2.42	0.51
1:E:62:GLU:HB3	1:E:90:ASP:HB2	1.93	0.51
1:E:401:PRO:O	1:E:402:GLU:C	2.52	0.51
1:F:2:ALA:C	1:F:6:LEU:HD23	2.35	0.51
1:F:20:ARG:NH2	1:F:86:ILE:HG22	2.24	0.51
1:F:67:LEU:CG	1:F:88:ARG:HB3	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:77:ASP:O	1:F:78:PRO:C	2.53	0.51
1:F:115:LEU:O	1:F:115:LEU:HD22	2.10	0.51
1:F:276:LYS:HD2	1:F:276:LYS:O	2.10	0.51
1:F:297:TYR:C	1:F:299:GLY:N	2.66	0.51
1:F:401:PRO:O	1:F:404:ALA:N	2.43	0.51
1:F:411:ALA:O	1:F:412:GLY:C	2.52	0.51
1:F:435:THR:CG2	1:F:437:GLU:HG2	2.40	0.51
1:H:77:ASP:O	1:H:78:PRO:C	2.52	0.51
1:H:401:PRO:O	1:H:404:ALA:N	2.43	0.51
1:H:435:THR:CG2	1:H:437:GLU:HG2	2.40	0.51
1:I:2:ALA:C	1:I:6:LEU:HD23	2.35	0.51
1:I:110:ARG:O	1:I:111:ALA:C	2.53	0.51
1:I:136:ASP:HB2	1:I:153:ASP:HA	1.93	0.51
1:I:159:ASN:ND2	1:I:164:TYR:OH	2.43	0.51
1:I:274:LEU:HD12	1:I:282:PHE:CE1	2.45	0.51
1:I:433:VAL:O	1:I:434:PHE:CB	2.58	0.51
1:J:13:GLU:C	1:J:14:VAL:CG1	2.84	0.51
1:J:112:GLU:O	1:J:115:LEU:CB	2.58	0.51
1:J:309:ASN:HB2	1:J:313:ASN:HB2	1.92	0.51
1:J:425:ARG:HD2	1:J:439:ILE:HG21	1.91	0.51
1:K:119:GLY:O	1:K:121:ALA:N	2.42	0.51
1:K:276:LYS:HD2	1:K:276:LYS:O	2.10	0.51
1:K:321:ARG:HG3	1:K:322:LEU:N	2.23	0.51
1:K:435:THR:CG2	1:K:437:GLU:HG2	2.40	0.51
1:L:13:GLU:C	1:L:14:VAL:CG1	2.84	0.51
1:L:111:ALA:HA	1:L:376:MET:HE2	1.90	0.51
1:L:140:PHE:HB3	1:L:149:VAL:HG23	1.91	0.51
1:L:276:LYS:HD2	1:L:276:LYS:O	2.10	0.51
1:L:309:ASN:HB2	1:L:313:ASN:HB2	1.91	0.51
1:L:435:THR:CG2	1:L:437:GLU:HG2	2.40	0.51
1:A:309:ASN:HB2	1:A:313:ASN:HB2	1.91	0.51
1:A:403:GLU:HB3	1:A:406:GLU:HB2	1.87	0.51
1:A:461:GLU:HG3	1:G:316:THR:HG21	1.91	0.51
1:B:274:LEU:HD12	1:B:282:PHE:CE1	2.44	0.51
1:B:309:ASN:HB2	1:B:313:ASN:HB2	1.91	0.51
1:B:435:THR:CG2	1:B:437:GLU:HG2	2.40	0.51
1:C:20:ARG:NH2	1:C:86:ILE:HG22	2.24	0.51
1:C:77:ASP:O	1:C:78:PRO:C	2.53	0.51
1:C:136:ASP:HB2	1:C:153:ASP:HA	1.93	0.51
1:D:5:VAL:HG11	1:D:43:PHE:HZ	1.76	0.51
1:D:90:ASP:O	1:D:91:ILE:O	2.21	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:112:GLU:O	1:D:115:LEU:CB	2.58	0.51
1:D:399:LEU:CG	1:D:402:GLU:HB2	2.40	0.51
1:D:411:ALA:O	1:D:412:GLY:C	2.52	0.51
1:D:425:ARG:HD2	1:D:439:ILE:HG21	1.91	0.51
1:E:77:ASP:O	1:E:78:PRO:C	2.52	0.51
1:E:112:GLU:O	1:E:115:LEU:CB	2.58	0.51
1:E:159:ASN:ND2	1:E:164:TYR:OH	2.43	0.51
1:E:258:LYS:CA	1:E:317:ASN:HD21	2.23	0.51
1:E:379:LEU:C	1:E:379:LEU:CD1	2.82	0.51
1:E:465:TYR:OH	1:K:449:GLU:CD	2.52	0.51
1:F:159:ASN:ND2	1:F:164:TYR:OH	2.43	0.51
1:F:174:GLY:O	1:F:175:VAL:C	2.53	0.51
1:F:338:ASN:HB2	1:F:393:ASP:HA	1.93	0.51
1:G:200:GLU:O	1:G:201:GLN:C	2.53	0.51
1:G:274:LEU:HD12	1:G:282:PHE:CE1	2.44	0.51
1:G:296:TYR:H	1:G:296:TYR:HD2	1.58	0.51
1:G:309:ASN:HB2	1:G:313:ASN:HB2	1.92	0.51
1:H:89:CYS:SG	1:H:103:ASP:CB	2.98	0.51
1:H:159:ASN:ND2	1:H:164:TYR:OH	2.43	0.51
1:H:174:GLY:O	1:H:175:VAL:C	2.53	0.51
1:H:228:MET:HE1	1:H:371:PHE:O	2.11	0.51
1:H:316:THR:O	1:H:317:ASN:C	2.53	0.51
1:H:411:ALA:O	1:H:412:GLY:C	2.53	0.51
1:I:309:ASN:HB2	1:I:313:ASN:HB2	1.91	0.51
1:I:338:ASN:HB2	1:I:393:ASP:HA	1.93	0.51
1:J:111:ALA:HA	1:J:376:MET:HE2	1.91	0.51
1:J:189:GLN:C	1:J:191:ILE:N	2.67	0.51
1:J:297:TYR:HA	1:J:378:GLY:O	2.09	0.51
1:K:119:GLY:O	1:K:120:ILE:C	2.53	0.51
1:K:159:ASN:ND2	1:K:164:TYR:OH	2.43	0.51
1:K:296:TYR:CB	1:K:382:ILE:CA	2.84	0.51
1:K:298:ILE:O	1:K:302:ILE:HG13	2.10	0.51
1:K:366:ASN:N	1:K:366:ASN:OD1	2.42	0.51
1:L:2:ALA:C	1:L:6:LEU:HD23	2.35	0.51
1:L:49:PHE:HD2	1:L:49:PHE:N	2.03	0.51
1:L:144:ILE:HG23	1:L:145:SER:H	1.75	0.51
1:L:316:THR:O	1:L:317:ASN:C	2.53	0.51
1:L:339:ARG:O	1:L:341:ALA:N	2.42	0.51
1:A:462:PHE:CE2	1:G:256:MET:SD	3.04	0.51
1:B:2:ALA:C	1:B:6:LEU:HD23	2.35	0.51
1:B:115:LEU:O	1:B:115:LEU:HD22	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:401:PRO:O	1:B:402:GLU:C	2.52	0.51
1:C:119:GLY:O	1:C:120:ILE:C	2.52	0.51
1:C:276:LYS:HD2	1:C:276:LYS:O	2.10	0.51
1:C:334:TYR:CE1	1:C:388:PRO:HB3	2.45	0.51
1:C:421:LEU:CD2	1:C:443:ILE:HD11	2.38	0.51
1:D:54:ILE:CD1	1:D:102:ARG:HD3	2.35	0.51
1:D:189:GLN:C	1:D:191:ILE:N	2.67	0.51
1:D:258:LYS:CA	1:D:317:ASN:HD21	2.23	0.51
1:D:298:ILE:O	1:D:302:ILE:HG13	2.10	0.51
1:E:67:LEU:CG	1:E:88:ARG:HB3	2.40	0.51
1:E:110:ARG:O	1:E:111:ALA:C	2.53	0.51
1:E:289:GLY:CA	1:E:354:ARG:HE	2.20	0.51
1:F:89:CYS:SG	1:F:103:ASP:CB	2.99	0.51
1:F:350:SER:C	1:F:352:LYS:H	2.13	0.51
1:G:16:PHE:HD1	1:G:79:PHE:CE1	2.27	0.51
1:G:298:ILE:O	1:G:302:ILE:HG13	2.10	0.51
1:G:339:ARG:CB	1:H:58:LYS:HG3	2.34	0.51
1:H:67:LEU:CG	1:H:88:ARG:HB3	2.40	0.51
1:H:115:LEU:O	1:H:115:LEU:HD22	2.10	0.51
1:H:297:TYR:C	1:H:299:GLY:N	2.66	0.51
1:H:338:ASN:HB2	1:H:393:ASP:HA	1.93	0.51
1:H:350:SER:C	1:H:352:LYS:H	2.14	0.51
1:H:376:MET:HE1	1:H:433:VAL:CG1	2.22	0.51
1:H:403:GLU:O	1:H:406:GLU:N	2.43	0.51
1:I:62:GLU:HB3	1:I:90:ASP:HB2	1.93	0.51
1:I:67:LEU:CG	1:I:88:ARG:HB3	2.40	0.51
1:I:77:ASP:O	1:I:78:PRO:C	2.53	0.51
1:I:258:LYS:CA	1:I:317:ASN:HD21	2.23	0.51
1:I:271:HIS:CD2	1:I:357:GLU:HG3	2.46	0.51
1:I:379:LEU:C	1:I:379:LEU:CD1	2.82	0.51
1:J:3:GLU:OE1	1:J:3:GLU:CA	2.57	0.51
1:J:136:ASP:HB2	1:J:153:ASP:HA	1.93	0.51
1:J:296:TYR:H	1:J:296:TYR:HD2	1.57	0.51
1:J:298:ILE:O	1:J:302:ILE:HG13	2.10	0.51
1:J:399:LEU:CG	1:J:402:GLU:HB2	2.40	0.51
1:K:20:ARG:NH2	1:K:86:ILE:HG22	2.24	0.51
1:K:39:ASN:ND2	1:K:42:PHE:HB2	2.24	0.51
1:K:77:ASP:O	1:K:78:PRO:C	2.53	0.51
1:K:258:LYS:CA	1:K:317:ASN:HD21	2.23	0.51
1:K:281:LEU:HD23	1:K:293:GLN:HE21	1.74	0.51
1:K:291:SER:O	1:K:291:SER:OG	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:334:TYR:CE1	1:K:388:PRO:HB3	2.45	0.51
1:L:54:ILE:CB	1:L:101:ASP:HB2	2.34	0.51
1:L:89:CYS:SG	1:L:103:ASP:CB	2.98	0.51
1:L:159:ASN:ND2	1:L:164:TYR:OH	2.43	0.51
1:A:200:GLU:O	1:A:201:GLN:C	2.53	0.51
1:A:298:ILE:O	1:A:302:ILE:HG13	2.10	0.51
1:B:54:ILE:CB	1:B:101:ASP:HB2	2.34	0.51
1:B:140:PHE:HB3	1:B:149:VAL:HG23	1.91	0.51
1:B:316:THR:O	1:B:317:ASN:C	2.53	0.51
1:C:174:GLY:O	1:C:175:VAL:C	2.53	0.51
1:C:281:LEU:HD23	1:C:293:GLN:HE21	1.74	0.51
1:D:174:GLY:O	1:D:175:VAL:C	2.53	0.51
1:D:256:MET:SD	1:J:462:PHE:CE2	3.04	0.51
1:D:462:PHE:CE2	1:J:256:MET:SD	3.04	0.51
1:E:115:LEU:O	1:E:115:LEU:HD22	2.10	0.51
1:E:297:TYR:HA	1:E:378:GLY:O	2.09	0.51
1:F:228:MET:HE1	1:F:371:PHE:O	2.11	0.51
1:F:441:ALA:O	1:F:444:ALA:HB3	2.11	0.51
1:F:462:PHE:CE2	1:L:256:MET:SD	3.04	0.51
1:G:449:GLU:O	1:G:450:ASP:C	2.54	0.51
1:H:441:ALA:O	1:H:444:ALA:HB3	2.11	0.51
1:H:449:GLU:O	1:H:450:ASP:C	2.54	0.51
1:I:289:GLY:CA	1:I:354:ARG:HE	2.21	0.51
1:I:297:TYR:HA	1:I:378:GLY:O	2.09	0.51
1:I:401:PRO:O	1:I:402:GLU:C	2.52	0.51
1:J:258:LYS:CA	1:J:317:ASN:HD21	2.23	0.51
1:J:411:ALA:O	1:J:412:GLY:C	2.53	0.51
1:K:174:GLY:O	1:K:175:VAL:C	2.53	0.51
1:K:421:LEU:HD22	1:K:443:ILE:CD1	2.36	0.51
1:A:16:PHE:HD1	1:A:79:PHE:CE1	2.27	0.51
1:A:58:LYS:HB2	1:B:338:ASN:N	2.26	0.51
1:A:256:MET:SD	1:G:462:PHE:CE2	3.04	0.51
1:A:316:THR:HG21	1:G:461:GLU:HG3	1.91	0.51
1:A:449:GLU:O	1:A:450:ASP:C	2.54	0.51
1:B:49:PHE:HD2	1:B:49:PHE:N	2.03	0.51
1:B:89:CYS:SG	1:B:103:ASP:CB	2.98	0.51
1:B:111:ALA:HA	1:B:376:MET:HE2	1.91	0.51
1:B:136:ASP:HB2	1:B:153:ASP:HA	1.93	0.51
1:B:256:MET:SD	1:H:462:PHE:CE2	3.04	0.51
1:B:271:HIS:CD2	1:B:357:GLU:HG3	2.46	0.51
1:B:298:ILE:O	1:B:302:ILE:HG13	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:308:ILE:O	1:B:311:LEU:N	2.41	0.51
1:B:316:THR:HG21	1:H:461:GLU:HG3	1.91	0.51
1:C:462:PHE:CE2	1:I:256:MET:SD	3.04	0.51
1:D:58:LYS:HB2	1:E:338:ASN:N	2.26	0.51
1:E:49:PHE:N	1:E:49:PHE:CD2	2.71	0.51
1:E:124:VAL:C	1:E:125:LEU:HD23	2.35	0.51
1:E:309:ASN:HB2	1:E:313:ASN:HB2	1.92	0.51
1:E:338:ASN:HB2	1:E:393:ASP:HA	1.93	0.51
1:F:200:GLU:O	1:F:201:GLN:C	2.53	0.51
1:F:449:GLU:O	1:F:450:ASP:C	2.54	0.51
1:G:58:LYS:HB2	1:L:338:ASN:N	2.26	0.51
1:G:110:ARG:O	1:G:111:ALA:C	2.53	0.51
1:G:401:PRO:O	1:G:404:ALA:N	2.43	0.51
1:G:423:LEU:HD12	1:G:423:LEU:N	2.26	0.51
1:G:433:VAL:O	1:G:434:PHE:CB	2.58	0.51
1:H:2:ALA:C	1:H:6:LEU:HD23	2.35	0.51
1:I:124:VAL:C	1:I:125:LEU:HD23	2.35	0.51
1:I:125:LEU:HD12	1:I:225:PHE:HD2	1.76	0.51
1:I:449:GLU:O	1:I:450:ASP:C	2.54	0.51
1:J:28:GLU:HG3	1:J:29:GLN:N	2.25	0.51
1:J:54:ILE:CD1	1:J:102:ARG:HD3	2.35	0.51
1:J:174:GLY:O	1:J:175:VAL:C	2.53	0.51
1:J:338:ASN:N	1:K:58:LYS:HB2	2.26	0.51
1:J:460:VAL:O	1:J:461:GLU:C	2.51	0.51
1:K:110:ARG:O	1:K:111:ALA:C	2.53	0.51
1:K:153:ASP:O	1:K:154:ILE:C	2.54	0.51
1:L:115:LEU:O	1:L:115:LEU:HD22	2.10	0.51
1:L:136:ASP:HB2	1:L:153:ASP:HA	1.93	0.51
1:L:274:LEU:HD12	1:L:282:PHE:CE1	2.45	0.51
1:L:297:TYR:C	1:L:299:GLY:N	2.66	0.51
1:L:298:ILE:O	1:L:302:ILE:HG13	2.10	0.51
1:A:338:ASN:N	1:F:58:LYS:HB2	2.26	0.51
1:A:401:PRO:O	1:A:404:ALA:N	2.43	0.51
1:A:423:LEU:HD12	1:A:423:LEU:N	2.26	0.51
1:B:54:ILE:CD1	1:B:102:ARG:HD3	2.35	0.51
1:B:174:GLY:O	1:B:175:VAL:C	2.53	0.51
1:B:228:MET:HE1	1:B:371:PHE:O	2.11	0.51
1:C:10:ASN:O	1:C:11:GLU:C	2.51	0.51
1:C:39:ASN:ND2	1:C:42:PHE:HB2	2.24	0.51
1:C:58:LYS:HB2	1:D:338:ASN:N	2.26	0.51
1:C:153:ASP:O	1:C:154:ILE:C	2.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:401:PRO:O	1:C:404:ALA:N	2.43	0.51
1:D:2:ALA:C	1:D:6:LEU:HD23	2.35	0.51
1:D:3:GLU:OE1	1:D:3:GLU:CA	2.57	0.51
1:D:283:SER:OG	1:D:284:GLY:N	2.42	0.51
1:D:423:LEU:HD12	1:D:423:LEU:N	2.26	0.51
1:E:13:GLU:C	1:E:14:VAL:O	2.54	0.51
1:E:271:HIS:CD2	1:E:357:GLU:HG3	2.46	0.51
1:E:423:LEU:N	1:E:423:LEU:HD12	2.26	0.51
1:E:435:THR:CG2	1:E:437:GLU:HG2	2.40	0.51
1:E:449:GLU:O	1:E:450:ASP:C	2.54	0.51
1:F:110:ARG:O	1:F:114:TYR:HB3	2.11	0.51
1:F:291:SER:O	1:F:291:SER:OG	2.27	0.51
1:F:316:THR:O	1:F:317:ASN:C	2.53	0.51
1:F:379:LEU:C	1:F:379:LEU:CD1	2.82	0.51
1:F:399:LEU:CG	1:F:402:GLU:HB2	2.40	0.51
1:G:271:HIS:CD2	1:G:357:GLU:HG3	2.46	0.51
1:H:33:ILE:CD1	1:H:34:PRO:HD2	2.41	0.51
1:H:62:GLU:HB3	1:H:90:ASP:HB2	1.92	0.51
1:H:112:GLU:O	1:H:115:LEU:CB	2.58	0.51
1:H:140:PHE:HB3	1:H:149:VAL:HG23	1.91	0.51
1:H:200:GLU:O	1:H:201:GLN:C	2.53	0.51
1:H:379:LEU:C	1:H:379:LEU:CD1	2.82	0.51
1:H:399:LEU:CG	1:H:402:GLU:HB2	2.40	0.51
1:I:13:GLU:C	1:I:14:VAL:O	2.54	0.51
1:I:115:LEU:O	1:I:115:LEU:HD22	2.10	0.51
1:I:423:LEU:N	1:I:423:LEU:HD12	2.26	0.51
1:I:435:THR:CG2	1:I:437:GLU:HG2	2.40	0.51
1:J:2:ALA:C	1:J:6:LEU:HD23	2.35	0.51
1:J:5:VAL:HG11	1:J:43:PHE:HZ	1.76	0.51
1:J:76:ILE:HD11	1:J:202:MET:HE1	0.65	0.51
1:J:89:CYS:SG	1:J:103:ASP:CB	2.98	0.51
1:K:124:VAL:C	1:K:125:LEU:HD23	2.35	0.51
1:K:144:ILE:HG23	1:K:145:SER:H	1.74	0.51
1:L:308:ILE:O	1:L:311:LEU:N	2.42	0.51
1:A:110:ARG:O	1:A:111:ALA:C	2.53	0.51
1:A:271:HIS:CD2	1:A:357:GLU:HG3	2.46	0.51
1:A:401:PRO:O	1:A:402:GLU:C	2.52	0.51
1:B:76:ILE:HD11	1:B:202:MET:HE1	0.65	0.51
1:C:110:ARG:O	1:C:111:ALA:C	2.53	0.51
1:C:115:LEU:O	1:C:115:LEU:HD22	2.10	0.51
1:C:124:VAL:C	1:C:125:LEU:HD23	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:28:GLU:HG3	1:D:29:GLN:N	2.25	0.51
1:D:281:LEU:HD23	1:D:293:GLN:HE21	1.74	0.51
1:E:125:LEU:HD12	1:E:225:PHE:HD2	1.76	0.51
1:E:256:MET:SD	1:K:462:PHE:CE2	3.04	0.51
1:E:332:LEU:N	1:E:332:LEU:CD1	2.72	0.51
1:E:399:LEU:CG	1:E:402:GLU:HB2	2.40	0.51
1:F:62:GLU:HB3	1:F:90:ASP:HB2	1.93	0.51
1:F:140:PHE:HB3	1:F:149:VAL:HG23	1.91	0.51
1:G:338:ASN:N	1:H:58:LYS:HB2	2.26	0.51
1:G:360:PHE:CD2	1:G:361:PRO:HD3	2.46	0.51
1:I:153:ASP:O	1:I:154:ILE:C	2.54	0.51
1:I:298:ILE:O	1:I:302:ILE:HG13	2.10	0.51
1:I:338:ASN:N	1:J:58:LYS:HB2	2.26	0.51
1:I:399:LEU:CG	1:I:402:GLU:HB2	2.40	0.51
1:K:28:GLU:HG3	1:K:29:GLN:N	2.25	0.51
1:K:63:SER:HG	1:K:91:ILE:HG22	1.75	0.51
1:K:401:PRO:O	1:K:404:ALA:N	2.43	0.51
1:K:441:ALA:O	1:K:444:ALA:HB3	2.11	0.51
1:L:76:ILE:HD11	1:L:202:MET:HE1	0.65	0.51
1:L:174:GLY:O	1:L:175:VAL:C	2.53	0.51
1:L:228:MET:HE1	1:L:371:PHE:O	2.11	0.51
1:L:228:MET:HE1	1:L:372:ALA:HA	1.92	0.51
1:L:421:LEU:HD22	1:L:443:ILE:CD1	2.36	0.51
1:A:115:LEU:O	1:A:115:LEU:HD22	2.10	0.51
1:A:304:HIS:O	1:A:305:ALA:C	2.54	0.51
1:A:316:THR:O	1:A:317:ASN:C	2.53	0.51
1:A:360:PHE:CD2	1:A:361:PRO:HD3	2.46	0.51
1:A:433:VAL:O	1:A:434:PHE:CB	2.58	0.51
1:B:228:MET:HE1	1:B:372:ALA:HA	1.92	0.51
1:B:350:SER:C	1:B:352:LYS:H	2.13	0.51
1:B:421:LEU:HD22	1:B:443:ILE:CD1	2.36	0.51
1:B:423:LEU:HD12	1:B:423:LEU:N	2.26	0.51
1:B:462:PHE:CE2	1:H:256:MET:SD	3.04	0.51
1:C:189:GLN:C	1:C:191:ILE:N	2.67	0.51
1:D:125:LEU:HD12	1:D:225:PHE:HD2	1.76	0.51
1:D:399:LEU:C	1:D:401:PRO:CD	2.81	0.51
1:D:460:VAL:O	1:D:461:GLU:C	2.51	0.51
1:E:88:ARG:CD	1:E:109:LYS:HE3	2.38	0.51
1:E:276:LYS:HD2	1:E:276:LYS:O	2.10	0.51
1:E:281:LEU:HD23	1:E:293:GLN:HE21	1.74	0.51
1:E:283:SER:OG	1:E:284:GLY:N	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:297:TYR:C	1:E:299:GLY:N	2.66	0.51
1:E:298:ILE:O	1:E:302:ILE:HG13	2.10	0.51
1:E:339:ARG:O	1:E:341:ALA:N	2.42	0.51
1:F:33:ILE:CD1	1:F:34:PRO:HD2	2.41	0.51
1:F:107:ILE:HA	1:F:110:ARG:HG3	1.93	0.51
1:F:112:GLU:O	1:F:115:LEU:CB	2.58	0.51
1:F:136:ASP:HB2	1:F:153:ASP:HA	1.93	0.51
1:F:326:TYR:N	1:F:326:TYR:CD2	2.79	0.51
1:G:13:GLU:C	1:G:14:VAL:CG1	2.84	0.51
1:G:115:LEU:O	1:G:115:LEU:HD22	2.10	0.51
1:G:316:THR:O	1:G:317:ASN:C	2.53	0.51
1:G:326:TYR:CD2	1:G:326:TYR:N	2.79	0.51
1:H:110:ARG:O	1:H:114:TYR:HB3	2.11	0.51
1:H:136:ASP:HB2	1:H:153:ASP:HA	1.93	0.51
1:H:271:HIS:CD2	1:H:357:GLU:HG3	2.46	0.51
1:H:283:SER:OG	1:H:284:GLY:N	2.43	0.51
1:H:326:TYR:CD2	1:H:326:TYR:N	2.79	0.51
1:I:283:SER:OG	1:I:284:GLY:N	2.42	0.51
1:I:297:TYR:C	1:I:299:GLY:N	2.66	0.51
1:J:276:LYS:HD2	1:J:276:LYS:O	2.10	0.51
1:J:325:GLY:HA3	1:J:328:ALA:CB	2.38	0.51
1:J:326:TYR:N	1:J:326:TYR:CD2	2.79	0.51
1:K:93:GLU:HG3	1:K:94:PRO:HD3	1.93	0.51
1:K:112:GLU:O	1:K:115:LEU:CB	2.58	0.51
1:A:13:GLU:C	1:A:14:VAL:CG1	2.84	0.51
1:A:228:MET:HE1	1:A:372:ALA:HA	1.92	0.51
1:A:326:TYR:N	1:A:326:TYR:CD2	2.79	0.51
1:A:441:ALA:O	1:A:444:ALA:HB3	2.11	0.51
1:B:27:LYS:HZ3	1:B:239:LYS:HZ1	0.51	0.51
1:B:62:GLU:HB3	1:B:90:ASP:HB2	1.93	0.51
1:B:304:HIS:O	1:B:305:ALA:C	2.54	0.51
1:C:112:GLU:O	1:C:115:LEU:CB	2.58	0.51
1:C:144:ILE:HG23	1:C:145:SER:H	1.75	0.51
1:C:271:HIS:CD2	1:C:357:GLU:HG3	2.46	0.51
1:C:421:LEU:HD22	1:C:443:ILE:CD1	2.36	0.51
1:D:13:GLU:C	1:D:14:VAL:O	2.54	0.51
1:D:89:CYS:SG	1:D:103:ASP:CB	2.98	0.51
1:D:110:ARG:O	1:D:114:TYR:HB3	2.11	0.51
1:D:325:GLY:HA3	1:D:328:ALA:CB	2.38	0.51
1:D:376:MET:CE	1:D:433:VAL:CG2	2.87	0.51
1:E:107:ILE:HA	1:E:110:ARG:HG3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:153:ASP:O	1:E:154:ILE:C	2.54	0.51
1:E:189:GLN:C	1:E:191:ILE:N	2.67	0.51
1:F:283:SER:OG	1:F:284:GLY:N	2.43	0.51
1:F:294:ALA:O	1:F:297:TYR:CB	2.58	0.51
1:F:332:LEU:N	1:F:332:LEU:CD1	2.72	0.51
1:F:461:GLU:HG3	1:L:316:THR:HG21	1.91	0.51
1:G:7:THR:C	1:G:9:LEU:N	2.69	0.51
1:G:228:MET:HE1	1:G:372:ALA:HA	1.92	0.51
1:G:304:HIS:O	1:G:305:ALA:C	2.54	0.51
1:G:338:ASN:HB2	1:G:393:ASP:HA	1.93	0.51
1:G:401:PRO:O	1:G:402:GLU:C	2.52	0.51
1:G:441:ALA:O	1:G:444:ALA:HB3	2.11	0.51
1:H:291:SER:O	1:H:291:SER:OG	2.27	0.51
1:H:294:ALA:O	1:H:297:TYR:CB	2.58	0.51
1:H:304:HIS:O	1:H:305:ALA:C	2.54	0.51
1:H:338:ASN:N	1:I:58:LYS:HB2	2.26	0.51
1:I:28:GLU:HG3	1:I:29:GLN:N	2.25	0.51
1:I:88:ARG:CD	1:I:109:LYS:HE3	2.38	0.51
1:I:107:ILE:HA	1:I:110:ARG:HG3	1.93	0.51
1:I:110:ARG:O	1:I:114:TYR:HB3	2.11	0.51
1:I:189:GLN:C	1:I:191:ILE:N	2.67	0.51
1:I:276:LYS:HD2	1:I:276:LYS:O	2.10	0.51
1:I:294:ALA:C	1:I:298:ILE:CD1	2.82	0.51
1:I:332:LEU:N	1:I:332:LEU:CD1	2.72	0.51
1:J:13:GLU:C	1:J:14:VAL:O	2.54	0.51
1:J:271:HIS:CD2	1:J:357:GLU:HG3	2.46	0.51
1:J:283:SER:OG	1:J:284:GLY:N	2.42	0.51
1:J:399:LEU:C	1:J:401:PRO:CD	2.81	0.51
1:J:423:LEU:HD12	1:J:423:LEU:N	2.26	0.51
1:K:10:ASN:O	1:K:11:GLU:C	2.51	0.51
1:K:13:GLU:C	1:K:14:VAL:CG1	2.83	0.51
1:K:316:THR:O	1:K:317:ASN:C	2.53	0.51
1:L:62:GLU:HB3	1:L:90:ASP:HB2	1.92	0.51
1:L:271:HIS:CD2	1:L:357:GLU:HG3	2.46	0.51
1:L:304:HIS:O	1:L:305:ALA:C	2.54	0.51
1:A:7:THR:C	1:A:9:LEU:N	2.69	0.50
1:A:89:CYS:SG	1:A:103:ASP:CB	2.98	0.50
1:A:153:ASP:O	1:A:154:ILE:C	2.54	0.50
1:A:338:ASN:HB2	1:A:393:ASP:HA	1.93	0.50
1:B:48:MET:HB2	1:B:62:GLU:C	2.36	0.50
1:B:112:GLU:O	1:B:115:LEU:CB	2.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:163:LYS:NZ	1:B:163:LYS:CB	2.74	0.50
1:B:297:TYR:C	1:B:299:GLY:N	2.66	0.50
1:B:360:PHE:CD2	1:B:361:PRO:HD3	2.46	0.50
1:C:441:ALA:O	1:C:444:ALA:HB3	2.11	0.50
1:D:271:HIS:CD2	1:D:357:GLU:HG3	2.46	0.50
1:E:13:GLU:C	1:E:14:VAL:CG1	2.84	0.50
1:E:33:ILE:CD1	1:E:34:PRO:HD2	2.41	0.50
1:E:110:ARG:O	1:E:114:TYR:HB3	2.11	0.50
1:E:360:PHE:CD2	1:E:361:PRO:HD3	2.46	0.50
1:E:441:ALA:O	1:E:444:ALA:HB3	2.11	0.50
1:F:153:ASP:O	1:F:154:ILE:C	2.54	0.50
1:F:256:MET:SD	1:L:462:PHE:CE2	3.04	0.50
1:F:271:HIS:CD2	1:F:357:GLU:HG3	2.46	0.50
1:G:153:ASP:O	1:G:154:ILE:C	2.54	0.50
1:G:294:ALA:O	1:G:297:TYR:CB	2.58	0.50
1:G:325:GLY:HA3	1:G:328:ALA:CB	2.39	0.50
1:I:228:MET:HE1	1:I:371:PHE:O	2.11	0.50
1:I:326:TYR:N	1:I:326:TYR:CD2	2.79	0.50
1:K:115:LEU:O	1:K:115:LEU:HD22	2.10	0.50
1:K:125:LEU:HD12	1:K:225:PHE:HD2	1.76	0.50
1:K:271:HIS:CD2	1:K:357:GLU:HG3	2.46	0.50
1:K:308:ILE:O	1:K:311:LEU:N	2.41	0.50
1:K:326:TYR:CD2	1:K:326:TYR:N	2.79	0.50
1:L:48:MET:HB2	1:L:62:GLU:C	2.36	0.50
1:L:54:ILE:CD1	1:L:102:ARG:HD3	2.35	0.50
1:L:77:ASP:O	1:L:78:PRO:C	2.53	0.50
1:L:79:PHE:CG	1:L:80:PHE:N	2.53	0.50
1:L:125:LEU:HD12	1:L:225:PHE:HD2	1.75	0.50
1:L:163:LYS:NZ	1:L:163:LYS:CB	2.74	0.50
1:L:360:PHE:CD2	1:L:361:PRO:HD3	2.46	0.50
1:L:401:PRO:O	1:L:404:ALA:N	2.43	0.50
1:L:423:LEU:HD12	1:L:423:LEU:N	2.26	0.50
1:A:125:LEU:HD12	1:A:225:PHE:HD2	1.75	0.50
1:A:297:TYR:OH	1:A:375:LEU:HA	2.10	0.50
1:B:77:ASP:O	1:B:78:PRO:C	2.52	0.50
1:B:89:CYS:HB3	1:B:103:ASP:OD2	2.07	0.50
1:B:200:GLU:O	1:B:201:GLN:C	2.53	0.50
1:C:13:GLU:C	1:C:14:VAL:O	2.54	0.50
1:C:28:GLU:HG3	1:C:29:GLN:N	2.26	0.50
1:C:92:LEU:H	1:C:97:LEU:H	1.51	0.50
1:C:228:MET:HE1	1:C:371:PHE:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:465:TYR:HD2	1:I:315:THR:CB	2.02	0.50
1:D:185:VAL:O	1:D:185:VAL:CG1	2.59	0.50
1:E:28:GLU:HG3	1:E:29:GLN:N	2.25	0.50
1:E:58:LYS:HB2	1:F:338:ASN:N	2.26	0.50
1:E:200:GLU:O	1:E:201:GLN:C	2.53	0.50
1:E:315:THR:CB	1:K:465:TYR:HD2	2.02	0.50
1:F:228:MET:HE1	1:F:372:ALA:HA	1.92	0.50
1:F:274:LEU:HD12	1:F:282:PHE:CE1	2.44	0.50
1:F:304:HIS:O	1:F:305:ALA:C	2.54	0.50
1:F:433:VAL:O	1:F:434:PHE:CB	2.58	0.50
1:G:89:CYS:SG	1:G:103:ASP:CB	2.98	0.50
1:G:297:TYR:O	1:G:299:GLY:N	2.45	0.50
1:G:297:TYR:OH	1:G:375:LEU:HA	2.10	0.50
1:H:107:ILE:HA	1:H:110:ARG:HG3	1.94	0.50
1:H:153:ASP:O	1:H:154:ILE:C	2.54	0.50
1:H:231:LYS:O	1:H:232:ALA:C	2.55	0.50
1:H:332:LEU:N	1:H:332:LEU:CD1	2.72	0.50
1:H:433:VAL:O	1:H:434:PHE:CB	2.58	0.50
1:I:13:GLU:C	1:I:14:VAL:CG1	2.84	0.50
1:I:16:PHE:HD1	1:I:79:PHE:CE1	2.27	0.50
1:I:65:MET:HB3	1:I:67:LEU:CD2	2.10	0.50
1:I:337:ARG:CG	1:I:338:ASN:N	2.71	0.50
1:I:441:ALA:O	1:I:444:ALA:HB3	2.11	0.50
1:J:110:ARG:O	1:J:114:TYR:HB3	2.11	0.50
1:J:125:LEU:HD12	1:J:225:PHE:HD2	1.76	0.50
1:J:185:VAL:O	1:J:185:VAL:CG1	2.59	0.50
1:J:281:LEU:HD23	1:J:293:GLN:HE21	1.74	0.50
1:J:441:ALA:O	1:J:444:ALA:HB3	2.11	0.50
1:K:189:GLN:C	1:K:191:ILE:N	2.67	0.50
1:A:41:GLU:O	1:A:44:GLU:N	2.45	0.50
1:A:77:ASP:O	1:A:78:PRO:C	2.52	0.50
1:A:185:VAL:O	1:A:185:VAL:CG1	2.59	0.50
1:A:294:ALA:O	1:A:297:TYR:CB	2.58	0.50
1:A:297:TYR:O	1:A:299:GLY:N	2.45	0.50
1:B:58:LYS:HB2	1:C:338:ASN:N	2.26	0.50
1:C:13:GLU:C	1:C:14:VAL:CG1	2.84	0.50
1:C:110:ARG:O	1:C:114:TYR:HB3	2.11	0.50
1:C:125:LEU:HD12	1:C:225:PHE:HD2	1.76	0.50
1:C:256:MET:SD	1:I:462:PHE:CE2	3.04	0.50
1:C:316:THR:O	1:C:317:ASN:C	2.53	0.50
1:C:326:TYR:CD2	1:C:326:TYR:N	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:41:GLU:O	1:D:44:GLU:N	2.45	0.50
1:D:441:ALA:O	1:D:444:ALA:HB3	2.11	0.50
1:D:449:GLU:CD	1:J:465:TYR:OH	2.52	0.50
1:E:7:THR:C	1:E:9:LEU:N	2.69	0.50
1:E:228:MET:HE1	1:E:371:PHE:O	2.11	0.50
1:E:326:TYR:N	1:E:326:TYR:CD2	2.79	0.50
1:F:49:PHE:HD2	1:F:49:PHE:N	2.02	0.50
1:F:232:ALA:HA	1:F:371:PHE:HE1	1.77	0.50
1:F:232:ALA:HB2	1:F:371:PHE:HD1	1.77	0.50
1:G:41:GLU:O	1:G:44:GLU:N	2.45	0.50
1:G:62:GLU:HB3	1:G:90:ASP:HB2	1.92	0.50
1:G:90:ASP:O	1:G:91:ILE:O	2.21	0.50
1:G:110:ARG:O	1:G:114:TYR:HB3	2.11	0.50
1:G:185:VAL:O	1:G:185:VAL:CG1	2.59	0.50
1:H:7:THR:C	1:H:9:LEU:N	2.69	0.50
1:H:49:PHE:HD2	1:H:49:PHE:N	2.03	0.50
1:H:232:ALA:HB2	1:H:371:PHE:HD1	1.77	0.50
1:H:360:PHE:CD2	1:H:361:PRO:HD3	2.46	0.50
1:I:231:LYS:O	1:I:232:ALA:C	2.55	0.50
1:I:360:PHE:CD2	1:I:361:PRO:HD3	2.47	0.50
1:J:232:ALA:HB2	1:J:371:PHE:HD1	1.77	0.50
1:J:376:MET:CE	1:J:433:VAL:CG2	2.87	0.50
1:K:2:ALA:C	1:K:6:LEU:HD23	2.35	0.50
1:K:13:GLU:C	1:K:14:VAL:O	2.54	0.50
1:K:399:LEU:C	1:K:401:PRO:CD	2.81	0.50
1:L:112:GLU:O	1:L:115:LEU:CB	2.58	0.50
1:L:326:TYR:CD2	1:L:326:TYR:N	2.79	0.50
1:L:350:SER:C	1:L:352:LYS:H	2.14	0.50
1:A:62:GLU:HB3	1:A:90:ASP:HB2	1.93	0.50
1:A:110:ARG:O	1:A:114:TYR:HB3	2.11	0.50
1:A:174:GLY:O	1:A:175:VAL:C	2.53	0.50
1:B:255:PHE:HB3	1:B:363:PRO:HB2	1.94	0.50
1:B:297:TYR:O	1:B:299:GLY:N	2.45	0.50
1:B:401:PRO:O	1:B:404:ALA:N	2.43	0.50
1:B:414:LEU:HD23	1:B:414:LEU:O	2.12	0.50
1:C:2:ALA:C	1:C:6:LEU:HD23	2.35	0.50
1:C:48:MET:HB2	1:C:62:GLU:C	2.36	0.50
1:C:89:CYS:SG	1:C:103:ASP:CB	2.98	0.50
1:C:308:ILE:O	1:C:311:LEU:N	2.42	0.50
1:D:20:ARG:NH2	1:D:86:ILE:HG22	2.24	0.50
1:D:38:VAL:HG13	1:D:43:PHE:HE1	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:326:TYR:CD2	1:D:326:TYR:N	2.80	0.50
1:E:16:PHE:HD1	1:E:79:PHE:CE1	2.27	0.50
1:E:48:MET:HB2	1:E:62:GLU:C	2.36	0.50
1:E:255:PHE:HB3	1:E:363:PRO:HB2	1.94	0.50
1:E:294:ALA:C	1:E:298:ILE:CD1	2.82	0.50
1:E:337:ARG:CG	1:E:338:ASN:N	2.70	0.50
1:E:401:PRO:C	1:E:403:GLU:N	2.69	0.50
1:F:7:THR:C	1:F:9:LEU:N	2.69	0.50
1:F:41:GLU:O	1:F:44:GLU:N	2.45	0.50
1:F:199:MET:HE1	1:F:238:TYR:CE2	2.47	0.50
1:F:231:LYS:O	1:F:232:ALA:C	2.55	0.50
1:F:281:LEU:HD23	1:F:293:GLN:HE21	1.74	0.50
1:G:125:LEU:HD12	1:G:225:PHE:HD2	1.76	0.50
1:G:232:ALA:HA	1:G:371:PHE:HE1	1.77	0.50
1:H:41:GLU:O	1:H:44:GLU:N	2.45	0.50
1:H:199:MET:HE1	1:H:238:TYR:CE2	2.47	0.50
1:H:228:MET:HE1	1:H:372:ALA:HA	1.92	0.50
1:H:423:LEU:HD12	1:H:423:LEU:N	2.26	0.50
1:I:33:ILE:CD1	1:I:34:PRO:HD2	2.41	0.50
1:I:48:MET:HB2	1:I:62:GLU:C	2.36	0.50
1:I:200:GLU:O	1:I:201:GLN:C	2.53	0.50
1:I:281:LEU:HD23	1:I:293:GLN:HE21	1.74	0.50
1:I:297:TYR:O	1:I:299:GLY:N	2.45	0.50
1:I:339:ARG:O	1:I:341:ALA:N	2.43	0.50
1:J:38:VAL:HG13	1:J:43:PHE:HE1	1.77	0.50
1:J:48:MET:HB2	1:J:62:GLU:C	2.36	0.50
1:J:124:VAL:C	1:J:125:LEU:HD23	2.35	0.50
1:J:332:LEU:N	1:J:332:LEU:CD1	2.72	0.50
1:J:338:ASN:HB2	1:J:393:ASP:HA	1.93	0.50
1:J:449:GLU:O	1:J:450:ASP:C	2.54	0.50
1:K:110:ARG:O	1:K:114:TYR:HB3	2.11	0.50
1:K:228:MET:HE1	1:K:371:PHE:O	2.11	0.50
1:L:88:ARG:CZ	1:L:109:LYS:CE	2.90	0.50
1:L:89:CYS:HB3	1:L:103:ASP:OD2	2.07	0.50
1:L:232:ALA:HB2	1:L:371:PHE:HD1	1.77	0.50
1:L:297:TYR:O	1:L:299:GLY:N	2.45	0.50
1:A:274:LEU:HD12	1:A:282:PHE:CE1	2.44	0.50
1:A:332:LEU:N	1:A:332:LEU:CD1	2.72	0.50
1:A:426:GLU:O	1:A:428:LEU:N	2.45	0.50
1:B:79:PHE:CG	1:B:80:PHE:N	2.53	0.50
1:B:88:ARG:CZ	1:B:109:LYS:CE	2.90	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:232:ALA:HB2	1:B:371:PHE:HD1	1.77	0.50
1:B:326:TYR:N	1:B:326:TYR:CD2	2.79	0.50
1:B:337:ARG:HG3	1:B:338:ASN:H	1.77	0.50
1:B:426:GLU:O	1:B:428:LEU:N	2.45	0.50
1:C:38:VAL:HG13	1:C:43:PHE:HE1	1.77	0.50
1:C:54:ILE:CD1	1:C:102:ARG:HD3	2.35	0.50
1:C:76:ILE:HD11	1:C:202:MET:HE1	0.65	0.50
1:C:163:LYS:NZ	1:C:163:LYS:CB	2.74	0.50
1:C:228:MET:HE1	1:C:372:ALA:HA	1.92	0.50
1:C:255:PHE:HB3	1:C:363:PRO:HB2	1.94	0.50
1:C:399:LEU:C	1:C:401:PRO:CD	2.81	0.50
1:D:48:MET:HB2	1:D:62:GLU:C	2.36	0.50
1:D:107:ILE:HA	1:D:110:ARG:HG3	1.93	0.50
1:D:332:LEU:N	1:D:332:LEU:CD1	2.72	0.50
1:D:360:PHE:CD2	1:D:361:PRO:HD3	2.46	0.50
1:E:297:TYR:O	1:E:299:GLY:N	2.45	0.50
1:F:423:LEU:HD12	1:F:423:LEU:N	2.26	0.50
1:G:174:GLY:O	1:G:175:VAL:C	2.53	0.50
1:G:236:GLN:HA	1:G:236:GLN:NE2	2.27	0.50
1:G:337:ARG:HG3	1:G:338:ASN:H	1.77	0.50
1:G:410:VAL:O	1:G:411:ALA:HB3	2.12	0.50
1:H:13:GLU:C	1:H:14:VAL:CG1	2.84	0.50
1:H:232:ALA:HA	1:H:371:PHE:HE1	1.77	0.50
1:H:304:HIS:O	1:H:308:ILE:CG1	2.53	0.50
1:J:41:GLU:O	1:J:44:GLU:N	2.45	0.50
1:J:67:LEU:CD1	1:J:88:ARG:HB2	2.42	0.50
1:J:360:PHE:CD2	1:J:361:PRO:HD3	2.46	0.50
1:K:38:VAL:HG13	1:K:43:PHE:HE1	1.77	0.50
1:K:48:MET:HB2	1:K:62:GLU:C	2.36	0.50
1:K:89:CYS:SG	1:K:103:ASP:CB	2.98	0.50
1:K:163:LYS:NZ	1:K:163:LYS:CB	2.74	0.50
1:K:228:MET:HE1	1:K:372:ALA:HA	1.92	0.50
1:K:231:LYS:O	1:K:232:ALA:C	2.55	0.50
1:K:289:GLY:CA	1:K:354:ARG:HE	2.20	0.50
1:K:338:ASN:N	1:L:58:LYS:HB2	2.26	0.50
1:L:93:GLU:HG3	1:L:94:PRO:HD3	1.93	0.50
1:L:200:GLU:O	1:L:201:GLN:C	2.53	0.50
1:L:338:ASN:HB2	1:L:393:ASP:HA	1.93	0.50
1:L:428:LEU:O	1:L:433:VAL:O	2.30	0.50
1:A:48:MET:HB2	1:A:62:GLU:C	2.36	0.50
1:A:90:ASP:O	1:A:91:ILE:O	2.21	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:136:ASP:HB2	1:A:153:ASP:HA	1.93	0.50
1:A:232:ALA:HA	1:A:371:PHE:HE1	1.77	0.50
1:A:255:PHE:HB3	1:A:363:PRO:HB2	1.94	0.50
1:A:337:ARG:HG3	1:A:338:ASN:H	1.77	0.50
1:A:410:VAL:O	1:A:411:ALA:HB3	2.12	0.50
1:B:13:GLU:C	1:B:14:VAL:O	2.54	0.50
1:B:57:TRP:CG	1:B:58:LYS:N	2.80	0.50
1:B:93:GLU:HG3	1:B:94:PRO:HD3	1.93	0.50
1:B:125:LEU:HD12	1:B:225:PHE:HD2	1.76	0.50
1:B:332:LEU:N	1:B:332:LEU:CD1	2.72	0.50
1:B:390:GLU:CB	1:B:391:PRO:CD	2.90	0.50
1:B:392:MET:HA	1:B:392:MET:CE	2.23	0.50
1:B:411:ALA:O	1:B:412:GLY:C	2.53	0.50
1:C:304:HIS:O	1:C:305:ALA:C	2.54	0.50
1:C:423:LEU:HD12	1:C:423:LEU:N	2.26	0.50
1:D:67:LEU:CD1	1:D:88:ARG:HB2	2.42	0.50
1:D:124:VAL:C	1:D:125:LEU:HD23	2.35	0.50
1:D:232:ALA:HB2	1:D:371:PHE:HD1	1.77	0.50
1:D:338:ASN:HB2	1:D:393:ASP:HA	1.93	0.50
1:E:231:LYS:O	1:E:232:ALA:C	2.55	0.50
1:E:421:LEU:HD22	1:E:443:ILE:CD1	2.36	0.50
1:E:462:PHE:CE2	1:K:256:MET:SD	3.04	0.50
1:F:13:GLU:C	1:F:14:VAL:CG1	2.84	0.50
1:F:49:PHE:N	1:F:49:PHE:CD2	2.71	0.50
1:G:163:LYS:NZ	1:G:163:LYS:CB	2.74	0.50
1:G:228:MET:HE1	1:G:371:PHE:O	2.11	0.50
1:G:283:SER:OG	1:G:284:GLY:N	2.43	0.50
1:H:28:GLU:HG3	1:H:29:GLN:N	2.25	0.50
1:H:49:PHE:N	1:H:49:PHE:CD2	2.71	0.50
1:H:255:PHE:HB3	1:H:363:PRO:HB2	1.94	0.50
1:H:426:GLU:O	1:H:428:LEU:N	2.45	0.50
1:I:7:THR:C	1:I:9:LEU:N	2.69	0.50
1:I:308:ILE:O	1:I:311:LEU:N	2.41	0.50
1:I:398:ASP:HB3	1:I:402:GLU:OE2	2.12	0.50
1:I:401:PRO:C	1:I:403:GLU:N	2.69	0.50
1:J:20:ARG:NH2	1:J:86:ILE:HG22	2.24	0.50
1:J:85:LEU:HD12	1:J:86:ILE:O	2.11	0.50
1:J:110:ARG:HB2	1:J:433:VAL:HB	1.94	0.50
1:J:231:LYS:O	1:J:232:ALA:C	2.55	0.50
1:J:295:LEU:HD12	1:J:295:LEU:N	2.27	0.50
1:J:428:LEU:O	1:J:433:VAL:O	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:76:ILE:HD11	1:K:202:MET:HE1	0.65	0.50
1:K:110:ARG:HB2	1:K:433:VAL:HB	1.94	0.50
1:K:255:PHE:HB3	1:K:363:PRO:HB2	1.94	0.50
1:K:304:HIS:O	1:K:305:ALA:C	2.54	0.50
1:K:428:LEU:O	1:K:433:VAL:O	2.30	0.50
1:L:107:ILE:HA	1:L:110:ARG:HG3	1.93	0.50
1:L:110:ARG:HB2	1:L:433:VAL:HB	1.94	0.50
1:L:392:MET:HA	1:L:392:MET:CE	2.23	0.50
1:L:411:ALA:O	1:L:412:GLY:C	2.52	0.50
1:L:426:GLU:O	1:L:428:LEU:N	2.45	0.50
1:A:163:LYS:NZ	1:A:163:LYS:CB	2.74	0.50
1:A:232:ALA:HB2	1:A:371:PHE:HD1	1.77	0.50
1:A:236:GLN:NE2	1:A:236:GLN:HA	2.27	0.50
1:A:283:SER:OG	1:A:284:GLY:N	2.42	0.50
1:B:204:LEU:HD23	1:B:234:GLU:HB3	1.94	0.50
1:B:338:ASN:HB2	1:B:393:ASP:HA	1.93	0.50
1:B:428:LEU:O	1:B:433:VAL:O	2.30	0.50
1:B:449:GLU:CD	1:H:465:TYR:HH	2.11	0.50
1:C:231:LYS:O	1:C:232:ALA:C	2.55	0.50
1:C:398:ASP:HB3	1:C:402:GLU:OE2	2.12	0.50
1:C:428:LEU:O	1:C:433:VAL:O	2.30	0.50
1:C:466:TYR:CZ	1:I:252:THR:HG21	2.33	0.50
1:D:85:LEU:HD12	1:D:86:ILE:O	2.11	0.50
1:D:199:MET:HE1	1:D:238:TYR:CE2	2.47	0.50
1:D:231:LYS:O	1:D:232:ALA:C	2.55	0.50
1:D:255:PHE:HB3	1:D:363:PRO:HB2	1.94	0.50
1:D:291:SER:O	1:D:291:SER:OG	2.27	0.50
1:D:295:LEU:HD12	1:D:295:LEU:N	2.27	0.50
1:D:449:GLU:O	1:D:450:ASP:C	2.54	0.50
1:E:34:PRO:HD3	1:F:208:ALA:HA	1.94	0.50
1:E:295:LEU:HD12	1:E:295:LEU:N	2.27	0.50
1:E:398:ASP:HB3	1:E:402:GLU:OE2	2.12	0.50
1:F:9:LEU:HD12	1:F:14:VAL:CG2	2.38	0.50
1:F:28:GLU:HG3	1:F:29:GLN:N	2.25	0.50
1:F:360:PHE:CD2	1:F:361:PRO:HD3	2.47	0.50
1:F:410:VAL:O	1:F:411:ALA:HB3	2.12	0.50
1:G:17:VAL:CG1	1:G:33:ILE:HG22	2.42	0.50
1:G:48:MET:HB2	1:G:62:GLU:C	2.36	0.50
1:G:49:PHE:N	1:G:49:PHE:CD2	2.71	0.50
1:G:77:ASP:O	1:G:78:PRO:C	2.52	0.50
1:H:274:LEU:HD12	1:H:282:PHE:CE1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:232:ALA:HA	1:I:371:PHE:HE1	1.77	0.50
1:I:390:GLU:CB	1:I:391:PRO:CD	2.90	0.50
1:I:399:LEU:C	1:I:401:PRO:CD	2.81	0.50
1:I:421:LEU:HD22	1:I:443:ILE:CD1	2.36	0.50
1:J:33:ILE:CD1	1:J:34:PRO:HD2	2.41	0.50
1:J:54:ILE:CB	1:J:101:ASP:HB2	2.34	0.50
1:J:57:TRP:CD1	1:J:58:LYS:H	2.21	0.50
1:J:255:PHE:HB3	1:J:363:PRO:HB2	1.94	0.50
1:K:304:HIS:O	1:K:308:ILE:CG1	2.53	0.50
1:K:338:ASN:HB2	1:K:393:ASP:HA	1.93	0.50
1:L:13:GLU:C	1:L:14:VAL:O	2.54	0.50
1:L:28:GLU:HG3	1:L:29:GLN:N	2.25	0.50
1:L:232:ALA:HA	1:L:371:PHE:HE1	1.77	0.50
1:L:255:PHE:HB3	1:L:363:PRO:HB2	1.94	0.50
1:L:369:LEU:HD23	1:L:369:LEU:N	2.27	0.50
1:L:376:MET:HE3	1:L:433:VAL:HG21	1.90	0.50
1:L:390:GLU:CB	1:L:391:PRO:CD	2.90	0.50
1:L:414:LEU:HD23	1:L:414:LEU:O	2.12	0.50
1:A:88:ARG:CZ	1:A:109:LYS:CE	2.90	0.50
1:A:228:MET:HE1	1:A:371:PHE:O	2.11	0.50
1:A:231:LYS:O	1:A:232:ALA:C	2.55	0.50
1:A:403:GLU:CB	1:A:406:GLU:CB	2.87	0.50
1:B:110:ARG:O	1:B:114:TYR:HB3	2.11	0.50
1:B:199:MET:HE1	1:B:238:TYR:CE2	2.47	0.50
1:B:335:SER:N	1:B:345:ILE:CD1	2.75	0.50
1:B:427:PHE:CE1	1:B:428:LEU:HD13	2.47	0.50
1:C:79:PHE:CB	1:C:80:PHE:CD1	2.95	0.50
1:C:110:ARG:HB2	1:C:433:VAL:HB	1.94	0.50
1:C:199:MET:HE1	1:C:238:TYR:CE2	2.47	0.50
1:C:236:GLN:HA	1:C:236:GLN:NE2	2.27	0.50
1:C:297:TYR:O	1:C:299:GLY:N	2.45	0.50
1:C:332:LEU:N	1:C:332:LEU:CD1	2.73	0.50
1:C:360:PHE:CD2	1:C:361:PRO:HD3	2.46	0.50
1:D:33:ILE:CD1	1:D:34:PRO:HD2	2.41	0.50
1:D:38:VAL:O	1:D:39:ASN:CB	2.56	0.50
1:D:428:LEU:O	1:D:433:VAL:O	2.30	0.50
1:E:38:VAL:HG13	1:E:43:PHE:HE1	1.77	0.50
1:E:390:GLU:CB	1:E:391:PRO:CD	2.90	0.50
1:E:414:LEU:HD23	1:E:414:LEU:O	2.12	0.50
1:F:255:PHE:HB3	1:F:363:PRO:HB2	1.94	0.50
1:F:379:LEU:O	1:F:383:LYS:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:426:GLU:O	1:F:428:LEU:N	2.45	0.50
1:F:427:PHE:CE1	1:F:428:LEU:HD13	2.47	0.50
1:G:136:ASP:HB2	1:G:153:ASP:HA	1.93	0.50
1:G:255:PHE:HB3	1:G:363:PRO:HB2	1.94	0.50
1:G:403:GLU:CB	1:G:406:GLU:CB	2.87	0.50
1:G:426:GLU:O	1:G:428:LEU:N	2.45	0.50
1:H:379:LEU:O	1:H:383:LYS:HB2	2.12	0.50
1:H:410:VAL:O	1:H:411:ALA:HB3	2.12	0.50
1:H:427:PHE:CE1	1:H:428:LEU:HD13	2.47	0.50
1:I:85:LEU:HD12	1:I:86:ILE:O	2.11	0.50
1:I:255:PHE:HB3	1:I:363:PRO:HB2	1.94	0.50
1:I:414:LEU:HD23	1:I:414:LEU:O	2.12	0.50
1:I:428:LEU:O	1:I:433:VAL:O	2.30	0.50
1:J:17:VAL:CG1	1:J:33:ILE:HG22	2.42	0.50
1:J:335:SER:N	1:J:345:ILE:CD1	2.75	0.50
1:K:54:ILE:CD1	1:K:102:ARG:HD3	2.35	0.50
1:K:199:MET:HE1	1:K:238:TYR:CE2	2.47	0.50
1:K:398:ASP:HB3	1:K:402:GLU:OE2	2.12	0.50
1:L:7:THR:C	1:L:9:LEU:N	2.69	0.50
1:L:185:VAL:O	1:L:185:VAL:CG1	2.59	0.50
1:L:204:LEU:HD23	1:L:234:GLU:HB3	1.94	0.50
1:L:296:TYR:H	1:L:296:TYR:HD2	1.57	0.50
1:L:332:LEU:N	1:L:332:LEU:CD1	2.72	0.50
1:L:335:SER:N	1:L:345:ILE:CD1	2.75	0.50
1:L:427:PHE:CE1	1:L:428:LEU:HD13	2.47	0.50
1:L:441:ALA:O	1:L:444:ALA:HB3	2.11	0.50
1:A:13:GLU:C	1:A:14:VAL:O	2.54	0.50
1:A:17:VAL:CG1	1:A:33:ILE:HG22	2.42	0.50
1:A:38:VAL:HG13	1:A:43:PHE:HE1	1.77	0.50
1:A:312:ALA:HB2	1:A:370:CYS:SG	2.52	0.50
1:B:28:GLU:HG3	1:B:29:GLN:N	2.25	0.50
1:B:107:ILE:HA	1:B:110:ARG:HG3	1.94	0.50
1:B:189:GLN:C	1:B:191:ILE:N	2.67	0.50
1:B:369:LEU:N	1:B:369:LEU:HD23	2.27	0.50
1:B:441:ALA:O	1:B:444:ALA:HB3	2.11	0.50
1:C:376:MET:HE1	1:C:433:VAL:CG1	2.22	0.50
1:C:426:GLU:O	1:C:428:LEU:N	2.45	0.50
1:D:27:LYS:HZ2	1:D:239:LYS:HE3	1.76	0.50
1:D:57:TRP:CD1	1:D:58:LYS:H	2.21	0.50
1:D:228:MET:HE1	1:D:371:PHE:O	2.11	0.50
1:E:85:LEU:HD12	1:E:86:ILE:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:199:MET:HE1	1:E:238:TYR:CE2	2.47	0.50
1:E:232:ALA:HA	1:E:371:PHE:HE1	1.77	0.50
1:E:308:ILE:O	1:E:311:LEU:N	2.41	0.50
1:E:379:LEU:O	1:E:383:LYS:HB2	2.12	0.50
1:E:399:LEU:C	1:E:401:PRO:CD	2.81	0.50
1:E:428:LEU:O	1:E:433:VAL:O	2.30	0.50
1:F:304:HIS:O	1:F:308:ILE:CG1	2.53	0.50
1:F:466:TYR:CZ	1:L:252:THR:HG21	2.33	0.50
1:G:88:ARG:CZ	1:G:109:LYS:CE	2.90	0.50
1:G:231:LYS:O	1:G:232:ALA:C	2.55	0.50
1:G:232:ALA:HB2	1:G:371:PHE:HD1	1.77	0.50
1:G:332:LEU:N	1:G:332:LEU:CD1	2.72	0.50
1:G:427:PHE:CE1	1:G:428:LEU:HD13	2.47	0.50
1:H:38:VAL:HG13	1:H:43:PHE:HE1	1.77	0.50
1:H:390:GLU:CB	1:H:391:PRO:CD	2.90	0.50
1:I:41:GLU:O	1:I:44:GLU:N	2.45	0.50
1:I:295:LEU:HD12	1:I:295:LEU:N	2.27	0.50
1:J:107:ILE:HA	1:J:110:ARG:HG3	1.94	0.50
1:J:199:MET:HE1	1:J:238:TYR:CE2	2.47	0.50
1:J:228:MET:HE1	1:J:371:PHE:O	2.11	0.50
1:K:16:PHE:HD1	1:K:79:PHE:CE1	2.27	0.50
1:K:79:PHE:CB	1:K:80:PHE:CD1	2.95	0.50
1:K:88:ARG:CD	1:K:109:LYS:HE3	2.38	0.50
1:K:103:ASP:CG	1:K:106:SER:CB	2.83	0.50
1:K:423:LEU:HD12	1:K:423:LEU:N	2.26	0.50
1:L:85:LEU:HD12	1:L:86:ILE:O	2.11	0.50
1:L:154:ILE:O	1:L:155:GLU:CB	2.50	0.50
1:A:49:PHE:HD2	1:A:49:PHE:N	2.03	0.49
1:A:68:MET:HE2	1:A:109:LYS:HE3	1.94	0.49
1:A:85:LEU:HD12	1:A:86:ILE:O	2.11	0.49
1:A:208:ALA:HA	1:F:34:PRO:HD3	1.94	0.49
1:A:369:LEU:HD23	1:A:369:LEU:N	2.27	0.49
1:B:7:THR:C	1:B:9:LEU:N	2.69	0.49
1:B:38:VAL:HG13	1:B:43:PHE:HE1	1.77	0.49
1:B:85:LEU:HD12	1:B:86:ILE:O	2.12	0.49
1:B:185:VAL:O	1:B:185:VAL:CG1	2.59	0.49
1:B:296:TYR:H	1:B:296:TYR:HD2	1.57	0.49
1:C:17:VAL:CG1	1:C:33:ILE:HG22	2.42	0.49
1:C:88:ARG:CD	1:C:109:LYS:HE3	2.38	0.49
1:C:232:ALA:HB2	1:C:371:PHE:HD1	1.76	0.49
1:C:337:ARG:HG3	1:C:338:ASN:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:376:MET:CE	1:C:433:VAL:CG2	2.87	0.49
1:C:410:VAL:O	1:C:411:ALA:HB3	2.12	0.49
1:C:414:LEU:HD23	1:C:414:LEU:O	2.12	0.49
1:D:17:VAL:CG1	1:D:33:ILE:HG22	2.42	0.49
1:D:110:ARG:HB2	1:D:433:VAL:HB	1.94	0.49
1:D:297:TYR:O	1:D:299:GLY:N	2.45	0.49
1:D:335:SER:N	1:D:345:ILE:CD1	2.75	0.49
1:E:20:ARG:NH2	1:E:86:ILE:HG22	2.24	0.49
1:E:41:GLU:O	1:E:44:GLU:N	2.45	0.49
1:E:67:LEU:CD1	1:E:88:ARG:HB2	2.42	0.49
1:E:76:ILE:HD11	1:E:202:MET:HE1	0.65	0.49
1:F:38:VAL:HG13	1:F:43:PHE:HE1	1.77	0.49
1:F:48:MET:HB2	1:F:62:GLU:C	2.36	0.49
1:F:390:GLU:CB	1:F:391:PRO:CD	2.90	0.49
1:G:65:MET:HG3	1:G:91:ILE:HG12	1.94	0.49
1:G:208:ALA:HA	1:H:34:PRO:HD3	1.94	0.49
1:G:275:ALA:HA	1:G:280:ASN:HA	1.94	0.49
1:G:369:LEU:HD23	1:G:369:LEU:N	2.27	0.49
1:H:9:LEU:HD12	1:H:14:VAL:CG2	2.38	0.49
1:H:208:ALA:HA	1:I:34:PRO:HD3	1.94	0.49
1:H:297:TYR:O	1:H:299:GLY:N	2.45	0.49
1:H:398:ASP:HB3	1:H:402:GLU:OE2	2.12	0.49
1:I:5:VAL:HG11	1:I:43:PHE:HZ	1.76	0.49
1:I:20:ARG:NH2	1:I:86:ILE:HG22	2.24	0.49
1:I:38:VAL:HG13	1:I:43:PHE:HE1	1.77	0.49
1:I:65:MET:HG3	1:I:91:ILE:HG12	1.94	0.49
1:I:199:MET:HE1	1:I:238:TYR:CE2	2.47	0.49
1:I:379:LEU:O	1:I:383:LYS:HB2	2.12	0.49
1:J:7:THR:C	1:J:9:LEU:N	2.69	0.49
1:J:38:VAL:O	1:J:39:ASN:CB	2.56	0.49
1:J:153:ASP:O	1:J:154:ILE:C	2.54	0.49
1:K:297:TYR:O	1:K:299:GLY:N	2.45	0.49
1:K:332:LEU:N	1:K:332:LEU:CD1	2.72	0.49
1:K:337:ARG:HG3	1:K:338:ASN:H	1.77	0.49
1:K:414:LEU:HD23	1:K:414:LEU:O	2.12	0.49
1:L:79:PHE:CB	1:L:80:PHE:CD1	2.95	0.49
1:L:110:ARG:O	1:L:114:TYR:HB3	2.11	0.49
1:L:153:ASP:O	1:L:154:ILE:C	2.54	0.49
1:L:189:GLN:C	1:L:191:ILE:N	2.67	0.49
1:L:199:MET:HE1	1:L:238:TYR:CE2	2.47	0.49
1:L:337:ARG:HG3	1:L:338:ASN:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:28:GLU:HG3	1:A:29:GLN:N	2.25	0.49
1:A:49:PHE:N	1:A:49:PHE:CD2	2.71	0.49
1:A:65:MET:HG3	1:A:91:ILE:HG12	1.95	0.49
1:A:110:ARG:HB2	1:A:433:VAL:HB	1.94	0.49
1:B:67:LEU:CD1	1:B:88:ARG:HB2	2.42	0.49
1:B:79:PHE:CB	1:B:80:PHE:CD1	2.95	0.49
1:B:154:ILE:O	1:B:155:GLU:CB	2.50	0.49
1:B:232:ALA:HA	1:B:371:PHE:HE1	1.77	0.49
1:B:376:MET:HE3	1:B:433:VAL:HG21	1.90	0.49
1:C:16:PHE:HD1	1:C:79:PHE:CE1	2.27	0.49
1:C:33:ILE:CD1	1:C:34:PRO:HD2	2.41	0.49
1:C:65:MET:HG3	1:C:91:ILE:HG12	1.94	0.49
1:C:88:ARG:CZ	1:C:109:LYS:CE	2.90	0.49
1:C:103:ASP:CG	1:C:106:SER:CB	2.83	0.49
1:C:289:GLY:CA	1:C:354:ARG:HE	2.20	0.49
1:C:295:LEU:HD12	1:C:295:LEU:N	2.27	0.49
1:C:338:ASN:HB2	1:C:393:ASP:HA	1.93	0.49
1:D:54:ILE:CB	1:D:101:ASP:HB2	2.34	0.49
1:D:153:ASP:O	1:D:154:ILE:C	2.54	0.49
1:D:276:LYS:HD2	1:D:276:LYS:O	2.10	0.49
1:D:398:ASP:HB3	1:D:402:GLU:OE2	2.12	0.49
1:D:465:TYR:OH	1:J:449:GLU:CD	2.52	0.49
1:E:5:VAL:HG11	1:E:43:PHE:HZ	1.76	0.49
1:E:20:ARG:HG3	1:E:28:GLU:OE2	2.12	0.49
1:E:65:MET:HG3	1:E:91:ILE:HG12	1.94	0.49
1:E:426:GLU:O	1:E:428:LEU:N	2.45	0.49
1:F:85:LEU:HD12	1:F:86:ILE:O	2.11	0.49
1:F:297:TYR:O	1:F:299:GLY:N	2.45	0.49
1:G:57:TRP:CG	1:G:58:LYS:N	2.80	0.49
1:G:68:MET:HE2	1:G:109:LYS:HE3	1.94	0.49
1:G:110:ARG:HB2	1:G:433:VAL:HB	1.94	0.49
1:G:289:GLY:CA	1:G:354:ARG:HE	2.20	0.49
1:H:125:LEU:HD12	1:H:225:PHE:HD2	1.76	0.49
1:I:20:ARG:HG3	1:I:28:GLU:OE2	2.12	0.49
1:I:67:LEU:CD1	1:I:88:ARG:HB2	2.42	0.49
1:I:88:ARG:CZ	1:I:109:LYS:CE	2.90	0.49
1:I:316:THR:O	1:I:317:ASN:C	2.53	0.49
1:I:426:GLU:O	1:I:428:LEU:N	2.45	0.49
1:I:427:PHE:CE1	1:I:428:LEU:HD13	2.47	0.49
1:J:232:ALA:HA	1:J:371:PHE:HE1	1.77	0.49
1:J:297:TYR:O	1:J:299:GLY:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:398:ASP:HB3	1:J:402:GLU:OE2	2.12	0.49
1:J:421:LEU:CD2	1:J:443:ILE:HD11	2.38	0.49
1:K:88:ARG:CZ	1:K:109:LYS:CE	2.90	0.49
1:K:232:ALA:HB2	1:K:371:PHE:HD1	1.76	0.49
1:K:410:VAL:O	1:K:411:ALA:HB3	2.12	0.49
1:K:426:GLU:O	1:K:428:LEU:N	2.45	0.49
1:K:427:PHE:CE1	1:K:428:LEU:HD13	2.47	0.49
1:L:338:ASN:ND2	1:L:395:ASN:H	1.99	0.49
1:A:42:PHE:CZ	1:A:66:VAL:HG22	2.47	0.49
1:A:275:ALA:HA	1:A:280:ASN:HA	1.94	0.49
1:B:41:GLU:O	1:B:44:GLU:N	2.45	0.49
1:B:91:ILE:CA	1:B:97:LEU:O	2.61	0.49
1:B:398:ASP:HB3	1:B:402:GLU:OE2	2.12	0.49
1:C:67:LEU:CD1	1:C:88:ARG:HB2	2.42	0.49
1:C:91:ILE:CA	1:C:97:LEU:O	2.61	0.49
1:C:304:HIS:O	1:C:308:ILE:CG1	2.53	0.49
1:D:68:MET:CE	1:D:88:ARG:CG	2.91	0.49
1:D:297:TYR:O	1:D:300:GLY:N	2.46	0.49
1:D:351:PRO:HA	1:D:354:ARG:NH1	2.27	0.49
1:E:68:MET:CE	1:E:88:ARG:CG	2.91	0.49
1:E:252:THR:HG21	1:K:466:TYR:CZ	2.33	0.49
1:F:79:PHE:CB	1:F:80:PHE:CD1	2.95	0.49
1:F:125:LEU:HD12	1:F:225:PHE:HD2	1.75	0.49
1:F:179:TYR:CZ	1:F:180:PHE:CZ	3.00	0.49
1:F:398:ASP:HB3	1:F:402:GLU:OE2	2.12	0.49
1:G:13:GLU:C	1:G:14:VAL:O	2.54	0.49
1:G:28:GLU:HG3	1:G:29:GLN:N	2.25	0.49
1:G:38:VAL:HG13	1:G:43:PHE:HE1	1.77	0.49
1:G:85:LEU:HD12	1:G:86:ILE:O	2.12	0.49
1:G:312:ALA:HB2	1:G:370:CYS:SG	2.52	0.49
1:H:48:MET:HB2	1:H:62:GLU:C	2.36	0.49
1:I:68:MET:CE	1:I:88:ARG:CG	2.91	0.49
1:I:79:PHE:CB	1:I:80:PHE:CD1	2.95	0.49
1:I:379:LEU:O	1:I:380:ASP:C	2.55	0.49
1:J:236:GLN:HA	1:J:236:GLN:NE2	2.27	0.49
1:J:351:PRO:HA	1:J:354:ARG:NH1	2.27	0.49
1:K:67:LEU:CD1	1:K:88:ARG:HB2	2.42	0.49
1:K:92:LEU:H	1:K:97:LEU:H	1.51	0.49
1:K:107:ILE:HA	1:K:110:ARG:HG3	1.94	0.49
1:K:360:PHE:CD2	1:K:361:PRO:HD3	2.47	0.49
1:K:376:MET:CE	1:K:433:VAL:CG2	2.87	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:38:VAL:HG13	1:L:43:PHE:HE1	1.77	0.49
1:L:65:MET:HG3	1:L:91:ILE:HG12	1.94	0.49
1:L:67:LEU:CD1	1:L:88:ARG:HB2	2.42	0.49
1:L:231:LYS:O	1:L:232:ALA:C	2.55	0.49
1:A:289:GLY:CA	1:A:354:ARG:HE	2.20	0.49
1:A:297:TYR:O	1:A:298:ILE:C	2.55	0.49
1:A:427:PHE:CE1	1:A:428:LEU:HD13	2.47	0.49
1:A:428:LEU:O	1:A:433:VAL:O	2.30	0.49
1:B:33:ILE:CD1	1:B:34:PRO:HD2	2.41	0.49
1:B:65:MET:HG3	1:B:91:ILE:HG12	1.94	0.49
1:B:110:ARG:HB2	1:B:433:VAL:HB	1.95	0.49
1:B:231:LYS:O	1:B:232:ALA:C	2.55	0.49
1:B:275:ALA:HA	1:B:280:ASN:HA	1.94	0.49
1:C:68:MET:HE2	1:C:109:LYS:HE3	1.95	0.49
1:C:204:LEU:HD23	1:C:234:GLU:HB3	1.94	0.49
1:C:427:PHE:CE1	1:C:428:LEU:HD13	2.47	0.49
1:D:65:MET:HG3	1:D:91:ILE:HG12	1.94	0.49
1:D:88:ARG:CD	1:D:109:LYS:HE3	2.38	0.49
1:D:91:ILE:CA	1:D:97:LEU:O	2.61	0.49
1:D:304:HIS:O	1:D:305:ALA:C	2.54	0.49
1:E:79:PHE:CB	1:E:80:PHE:CD1	2.95	0.49
1:F:65:MET:HG3	1:F:91:ILE:HG12	1.94	0.49
1:F:68:MET:CE	1:F:88:ARG:CG	2.91	0.49
1:F:172:ARG:CB	1:F:173:PRO:CD	2.89	0.49
1:F:185:VAL:O	1:F:185:VAL:CG1	2.59	0.49
1:F:337:ARG:HG3	1:F:338:ASN:H	1.77	0.49
1:F:428:LEU:O	1:F:433:VAL:O	2.30	0.49
1:G:15:LYS:N	1:G:15:LYS:CD	2.67	0.49
1:G:42:PHE:CZ	1:G:66:VAL:HG22	2.47	0.49
1:G:297:TYR:O	1:G:298:ILE:C	2.55	0.49
1:H:13:GLU:C	1:H:14:VAL:O	2.54	0.49
1:H:42:PHE:CZ	1:H:66:VAL:HG22	2.47	0.49
1:H:65:MET:HG3	1:H:91:ILE:HG12	1.94	0.49
1:H:68:MET:CE	1:H:88:ARG:CG	2.91	0.49
1:H:172:ARG:CB	1:H:173:PRO:CD	2.89	0.49
1:I:351:PRO:HA	1:I:354:ARG:NH1	2.27	0.49
1:J:42:PHE:CZ	1:J:66:VAL:HG22	2.47	0.49
1:J:65:MET:HG3	1:J:91:ILE:HG12	1.95	0.49
1:J:68:MET:CE	1:J:88:ARG:CG	2.91	0.49
1:J:91:ILE:CA	1:J:97:LEU:O	2.61	0.49
1:J:304:HIS:O	1:J:305:ALA:C	2.54	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:17:VAL:CG1	1:K:33:ILE:HG22	2.42	0.49
1:K:33:ILE:CD1	1:K:34:PRO:HD2	2.41	0.49
1:K:68:MET:HE2	1:K:109:LYS:HE3	1.95	0.49
1:K:236:GLN:HA	1:K:236:GLN:NE2	2.27	0.49
1:K:335:SER:N	1:K:345:ILE:CD1	2.75	0.49
1:K:351:PRO:HA	1:K:354:ARG:NH1	2.27	0.49
1:K:376:MET:HE1	1:K:433:VAL:CG1	2.22	0.49
1:L:41:GLU:O	1:L:44:GLU:N	2.45	0.49
1:L:91:ILE:CA	1:L:97:LEU:O	2.61	0.49
1:A:315:THR:CB	1:G:465:TYR:HD2	2.02	0.49
1:B:153:ASP:O	1:B:154:ILE:C	2.54	0.49
1:B:252:THR:HG21	1:H:466:TYR:CZ	2.33	0.49
1:B:294:ALA:C	1:B:298:ILE:CD1	2.82	0.49
1:C:24:THR:CG2	1:C:25:LYS:N	2.71	0.49
1:C:369:LEU:N	1:C:369:LEU:HD23	2.27	0.49
1:D:42:PHE:CZ	1:D:66:VAL:HG22	2.47	0.49
1:D:421:LEU:CD2	1:D:443:ILE:HD11	2.38	0.49
1:E:93:GLU:HG3	1:E:94:PRO:HD3	1.93	0.49
1:E:427:PHE:CE1	1:E:428:LEU:HD13	2.47	0.49
1:F:13:GLU:C	1:F:14:VAL:O	2.54	0.49
1:F:275:ALA:HA	1:F:280:ASN:HA	1.94	0.49
1:F:308:ILE:O	1:F:311:LEU:N	2.41	0.49
1:F:325:GLY:C	1:F:326:TYR:CD2	2.91	0.49
1:G:33:ILE:CD1	1:G:34:PRO:HD2	2.41	0.49
1:G:73:THR:O	1:G:84:THR:N	2.45	0.49
1:G:428:LEU:O	1:G:433:VAL:O	2.30	0.49
1:H:79:PHE:CB	1:H:80:PHE:CD1	2.95	0.49
1:H:85:LEU:HD12	1:H:86:ILE:O	2.11	0.49
1:H:325:GLY:C	1:H:326:TYR:CD2	2.91	0.49
1:H:337:ARG:CG	1:H:338:ASN:N	2.70	0.49
1:I:76:ILE:HD11	1:I:202:MET:HE1	0.65	0.49
1:I:93:GLU:HG3	1:I:94:PRO:HD3	1.93	0.49
1:I:110:ARG:HB2	1:I:433:VAL:HB	1.94	0.49
1:J:88:ARG:CD	1:J:109:LYS:HE3	2.38	0.49
1:J:410:VAL:O	1:J:411:ALA:HB3	2.12	0.49
1:J:426:GLU:O	1:J:428:LEU:N	2.45	0.49
1:K:65:MET:HG3	1:K:91:ILE:HG12	1.95	0.49
1:K:68:MET:CE	1:K:88:ARG:CG	2.90	0.49
1:K:91:ILE:CA	1:K:97:LEU:O	2.61	0.49
1:K:204:LEU:HD23	1:K:234:GLU:HB3	1.94	0.49
1:K:295:LEU:HD12	1:K:295:LEU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:294:ALA:C	1:L:298:ILE:CD1	2.82	0.49
1:L:398:ASP:HB3	1:L:402:GLU:OE2	2.12	0.49
1:A:73:THR:O	1:A:84:THR:N	2.45	0.49
1:A:199:MET:HE1	1:A:238:TYR:CE2	2.47	0.49
1:A:335:SER:N	1:A:345:ILE:CD1	2.75	0.49
1:B:41:GLU:O	1:B:42:PHE:C	2.56	0.49
1:B:42:PHE:CZ	1:B:66:VAL:HG22	2.47	0.49
1:B:68:MET:HE2	1:B:109:LYS:HE3	1.95	0.49
1:B:179:TYR:CZ	1:B:180:PHE:CZ	3.00	0.49
1:B:338:ASN:ND2	1:B:395:ASN:H	1.99	0.49
1:B:346:PRO:O	1:B:347:VAL:O	2.31	0.49
1:C:68:MET:CE	1:C:88:ARG:CG	2.91	0.49
1:C:296:TYR:H	1:C:296:TYR:HD2	1.57	0.49
1:C:351:PRO:HA	1:C:354:ARG:NH1	2.27	0.49
1:C:449:GLU:O	1:C:450:ASP:C	2.54	0.49
1:D:68:MET:HE2	1:D:109:LYS:HE3	1.94	0.49
1:D:232:ALA:HA	1:D:371:PHE:HE1	1.77	0.49
1:D:236:GLN:HA	1:D:236:GLN:NE2	2.27	0.49
1:D:376:MET:HE3	1:D:433:VAL:HG21	1.90	0.49
1:E:33:ILE:HD13	1:E:34:PRO:CD	2.42	0.49
1:F:297:TYR:O	1:F:298:ILE:C	2.55	0.49
1:F:414:LEU:HD23	1:F:414:LEU:O	2.12	0.49
1:G:199:MET:HE1	1:G:238:TYR:CE2	2.47	0.49
1:H:17:VAL:CG1	1:H:33:ILE:HG22	2.41	0.49
1:H:179:TYR:CZ	1:H:180:PHE:CZ	3.01	0.49
1:H:185:VAL:O	1:H:185:VAL:CG1	2.59	0.49
1:H:275:ALA:HA	1:H:280:ASN:HA	1.94	0.49
1:H:297:TYR:O	1:H:298:ILE:C	2.55	0.49
1:H:337:ARG:HG3	1:H:338:ASN:H	1.77	0.49
1:H:414:LEU:HD23	1:H:414:LEU:O	2.12	0.49
1:H:428:LEU:O	1:H:433:VAL:O	2.30	0.49
1:I:33:ILE:HD13	1:I:34:PRO:CD	2.42	0.49
1:I:232:ALA:HB2	1:I:371:PHE:HD1	1.77	0.49
1:I:335:SER:N	1:I:345:ILE:CD1	2.75	0.49
1:J:297:TYR:O	1:J:300:GLY:N	2.46	0.49
1:K:42:PHE:CZ	1:K:66:VAL:HG22	2.47	0.49
1:K:232:ALA:HA	1:K:371:PHE:HE1	1.77	0.49
1:K:369:LEU:HD23	1:K:369:LEU:N	2.27	0.49
1:L:33:ILE:CD1	1:L:34:PRO:HD2	2.41	0.49
1:L:41:GLU:O	1:L:42:PHE:C	2.56	0.49
1:L:42:PHE:CZ	1:L:66:VAL:HG22	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:179:TYR:CZ	1:L:180:PHE:CZ	3.01	0.49
1:L:236:GLN:HA	1:L:236:GLN:NE2	2.27	0.49
1:A:33:ILE:CD1	1:A:34:PRO:HD2	2.41	0.49
1:A:390:GLU:CB	1:A:391:PRO:CD	2.90	0.49
1:B:379:LEU:O	1:B:383:LYS:HB2	2.12	0.49
1:B:403:GLU:HB3	1:B:406:GLU:HB2	1.87	0.49
1:C:85:LEU:HD12	1:C:86:ILE:O	2.11	0.49
1:C:107:ILE:HA	1:C:110:ARG:HG3	1.94	0.49
1:C:232:ALA:HA	1:C:371:PHE:HE1	1.77	0.49
1:C:297:TYR:O	1:C:300:GLY:N	2.46	0.49
1:C:390:GLU:CB	1:C:391:PRO:CD	2.90	0.49
1:D:410:VAL:O	1:D:411:ALA:HB3	2.12	0.49
1:D:426:GLU:O	1:D:428:LEU:N	2.45	0.49
1:E:118:THR:OG1	1:E:120:ILE:CG1	2.58	0.49
1:E:232:ALA:HB2	1:E:371:PHE:HD1	1.77	0.49
1:E:297:TYR:O	1:E:300:GLY:N	2.46	0.49
1:E:351:PRO:HA	1:E:354:ARG:NH1	2.27	0.49
1:F:17:VAL:CG1	1:F:33:ILE:HG22	2.42	0.49
1:F:88:ARG:CZ	1:F:109:LYS:CE	2.90	0.49
1:F:312:ALA:HB2	1:F:370:CYS:SG	2.52	0.49
1:F:337:ARG:CG	1:F:338:ASN:N	2.70	0.49
1:F:403:GLU:CB	1:F:406:GLU:CB	2.87	0.49
1:G:79:PHE:CB	1:G:80:PHE:CD1	2.95	0.49
1:H:88:ARG:CZ	1:H:109:LYS:CE	2.90	0.49
1:H:308:ILE:O	1:H:311:LEU:N	2.42	0.49
1:I:34:PRO:HG2	1:I:37:GLN:HG3	1.94	0.49
1:J:65:MET:C	1:J:65:MET:CE	2.76	0.49
1:J:204:LEU:HD23	1:J:234:GLU:HB3	1.94	0.49
1:J:275:ALA:HA	1:J:280:ASN:HA	1.94	0.49
1:K:449:GLU:O	1:K:450:ASP:C	2.54	0.49
1:L:68:MET:HE2	1:L:109:LYS:HE3	1.95	0.49
1:L:103:ASP:CG	1:L:106:SER:CB	2.83	0.49
1:L:346:PRO:O	1:L:347:VAL:O	2.31	0.49
1:A:15:LYS:N	1:A:15:LYS:CD	2.67	0.49
1:A:79:PHE:CB	1:A:80:PHE:CD1	2.95	0.49
1:A:295:LEU:HD12	1:A:295:LEU:N	2.27	0.49
1:A:339:ARG:O	1:A:341:ALA:N	2.42	0.49
1:B:42:PHE:CZ	1:B:66:VAL:CG2	2.96	0.49
1:B:294:ALA:O	1:B:297:TYR:N	2.46	0.49
1:B:297:TYR:O	1:B:300:GLY:N	2.46	0.49
1:C:41:GLU:O	1:C:44:GLU:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:179:TYR:CZ	1:C:180:PHE:CZ	3.01	0.49
1:C:335:SER:N	1:C:345:ILE:CD1	2.75	0.49
1:C:360:PHE:N	1:C:361:PRO:HD3	2.21	0.49
1:E:27:LYS:HZ2	1:E:239:LYS:CE	2.26	0.49
1:E:34:PRO:HG2	1:E:37:GLN:HG3	1.94	0.49
1:E:163:LYS:NZ	1:E:163:LYS:CB	2.74	0.49
1:E:304:HIS:O	1:E:305:ALA:C	2.54	0.49
1:E:306:LYS:O	1:E:307:ALA:C	2.56	0.49
1:E:335:SER:N	1:E:345:ILE:CD1	2.75	0.49
1:E:369:LEU:HD23	1:E:369:LEU:N	2.27	0.49
1:F:42:PHE:CZ	1:F:66:VAL:HG22	2.48	0.49
1:F:110:ARG:HB2	1:F:433:VAL:HB	1.94	0.49
1:F:400:PRO:HB2	1:F:401:PRO:CD	2.43	0.49
1:G:187:SER:O	1:G:188:ALA:CB	2.61	0.49
1:G:294:ALA:C	1:G:298:ILE:CD1	2.82	0.49
1:G:295:LEU:HD12	1:G:295:LEU:N	2.27	0.49
1:G:335:SER:N	1:G:345:ILE:CD1	2.75	0.49
1:G:390:GLU:CB	1:G:391:PRO:CD	2.90	0.49
1:H:312:ALA:HB2	1:H:370:CYS:SG	2.52	0.49
1:H:400:PRO:HB2	1:H:401:PRO:CD	2.43	0.49
1:I:42:PHE:CZ	1:I:66:VAL:HG22	2.47	0.49
1:I:118:THR:OG1	1:I:120:ILE:CG1	2.58	0.49
1:I:208:ALA:HA	1:J:34:PRO:HD3	1.94	0.49
1:I:304:HIS:O	1:I:305:ALA:C	2.54	0.49
1:J:427:PHE:CE1	1:J:428:LEU:HD13	2.47	0.49
1:K:24:THR:CG2	1:K:25:LYS:N	2.71	0.49
1:K:41:GLU:O	1:K:44:GLU:N	2.45	0.49
1:K:175:VAL:CA	1:K:215:THR:HG23	2.43	0.49
1:K:294:ALA:O	1:K:297:TYR:N	2.46	0.49
1:K:297:TYR:O	1:K:300:GLY:N	2.46	0.49
1:L:42:PHE:CZ	1:L:66:VAL:CG2	2.96	0.49
1:L:280:ASN:ND2	1:L:280:ASN:N	2.49	0.49
1:L:294:ALA:O	1:L:297:TYR:N	2.46	0.49
1:A:179:TYR:CZ	1:A:180:PHE:CZ	3.01	0.49
1:A:187:SER:O	1:A:188:ALA:CB	2.61	0.49
1:A:204:LEU:HD23	1:A:234:GLU:HB3	1.94	0.49
1:A:294:ALA:C	1:A:298:ILE:CD1	2.82	0.49
1:A:360:PHE:N	1:A:361:PRO:HD3	2.21	0.49
1:A:379:LEU:O	1:A:383:LYS:HB2	2.12	0.49
1:A:465:TYR:HD2	1:G:315:THR:CB	2.02	0.49
1:B:236:GLN:HA	1:B:236:GLN:NE2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:410:VAL:O	1:B:411:ALA:HB3	2.12	0.49
1:C:42:PHE:CZ	1:C:66:VAL:HG22	2.47	0.49
1:C:187:SER:O	1:C:188:ALA:CB	2.61	0.49
1:C:379:LEU:O	1:C:383:LYS:HB2	2.12	0.49
1:C:437:GLU:HB2	1:C:438:ALA:H	1.11	0.49
1:D:20:ARG:HG3	1:D:28:GLU:OE2	2.12	0.49
1:D:24:THR:CG2	1:D:25:LYS:N	2.72	0.49
1:D:34:PRO:HD3	1:E:208:ALA:HA	1.94	0.49
1:D:89:CYS:SG	1:D:103:ASP:OD1	2.71	0.49
1:D:204:LEU:HD23	1:D:234:GLU:HB3	1.94	0.49
1:E:42:PHE:CZ	1:E:66:VAL:HG22	2.47	0.49
1:E:91:ILE:CA	1:E:97:LEU:O	2.61	0.49
1:E:110:ARG:HB2	1:E:433:VAL:HB	1.94	0.49
1:E:346:PRO:O	1:E:347:VAL:O	2.31	0.49
1:G:179:TYR:CZ	1:G:180:PHE:CZ	3.01	0.49
1:G:398:ASP:HB3	1:G:402:GLU:OE2	2.12	0.49
1:G:421:LEU:HD22	1:G:443:ILE:CD1	2.36	0.49
1:H:110:ARG:HB2	1:H:433:VAL:HB	1.94	0.49
1:H:403:GLU:CB	1:H:406:GLU:CB	2.87	0.49
1:I:91:ILE:CA	1:I:97:LEU:O	2.61	0.49
1:I:369:LEU:N	1:I:369:LEU:HD23	2.27	0.49
1:J:24:THR:CG2	1:J:25:LYS:N	2.71	0.49
1:J:89:CYS:SG	1:J:103:ASP:OD1	2.71	0.49
1:J:339:ARG:NH2	1:K:58:LYS:H	2.11	0.49
1:J:379:LEU:O	1:J:383:LYS:HB2	2.12	0.49
1:K:85:LEU:HD12	1:K:86:ILE:O	2.11	0.49
1:K:179:TYR:CZ	1:K:180:PHE:CZ	3.01	0.49
1:K:187:SER:O	1:K:188:ALA:CB	2.60	0.49
1:L:275:ALA:HA	1:L:280:ASN:HA	1.95	0.49
1:A:57:TRP:CD1	1:A:58:LYS:H	2.21	0.49
1:A:58:LYS:HD3	1:A:59:GLY:CA	2.43	0.49
1:A:68:MET:CE	1:A:88:ARG:CG	2.91	0.49
1:A:91:ILE:CA	1:A:97:LEU:O	2.61	0.49
1:A:421:LEU:HD22	1:A:443:ILE:CD1	2.36	0.49
1:B:297:TYR:O	1:B:298:ILE:C	2.56	0.49
1:C:33:ILE:HD13	1:C:34:PRO:CD	2.42	0.49
1:C:175:VAL:CA	1:C:215:THR:HG23	2.43	0.49
1:C:297:TYR:O	1:C:298:ILE:C	2.56	0.49
1:D:88:ARG:CZ	1:D:109:LYS:CE	2.90	0.49
1:D:172:ARG:CB	1:D:173:PRO:CD	2.89	0.49
1:D:275:ALA:HA	1:D:280:ASN:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:360:PHE:N	1:D:361:PRO:HD3	2.21	0.49
1:D:379:LEU:O	1:D:383:LYS:HB2	2.12	0.49
1:D:414:LEU:HD23	1:D:414:LEU:O	2.12	0.49
1:E:275:ALA:HA	1:E:280:ASN:HA	1.94	0.49
1:F:68:MET:HE2	1:F:109:LYS:HE3	1.95	0.49
1:F:351:PRO:HA	1:F:354:ARG:NH1	2.27	0.49
1:F:369:LEU:N	1:F:369:LEU:HD23	2.27	0.49
1:F:383:LYS:CE	1:F:384:ASN:N	2.74	0.49
1:G:3:GLU:OE1	1:G:3:GLU:CA	2.57	0.49
1:G:297:TYR:O	1:G:300:GLY:N	2.46	0.49
1:G:339:ARG:O	1:G:341:ALA:N	2.42	0.49
1:G:400:PRO:HB2	1:G:401:PRO:CD	2.42	0.49
1:H:67:LEU:CD1	1:H:88:ARG:HB2	2.42	0.49
1:H:68:MET:HE2	1:H:109:LYS:HE3	1.95	0.49
1:H:70:ASP:C	1:H:72:SER:N	2.71	0.49
1:H:106:SER:O	1:H:109:LYS:HG3	2.13	0.49
1:H:297:TYR:O	1:H:300:GLY:N	2.46	0.49
1:H:346:PRO:O	1:H:347:VAL:O	2.31	0.49
1:H:369:LEU:HD23	1:H:369:LEU:N	2.27	0.49
1:I:68:MET:HE2	1:I:109:LYS:HE3	1.95	0.49
1:I:297:TYR:O	1:I:300:GLY:N	2.46	0.49
1:J:68:MET:HE2	1:J:109:LYS:HE3	1.95	0.49
1:K:42:PHE:CZ	1:K:66:VAL:CG2	2.96	0.49
1:K:296:TYR:H	1:K:296:TYR:HD2	1.58	0.49
1:K:297:TYR:O	1:K:298:ILE:C	2.56	0.49
1:K:390:GLU:CB	1:K:391:PRO:CD	2.90	0.49
1:L:297:TYR:O	1:L:298:ILE:C	2.56	0.49
1:L:297:TYR:O	1:L:300:GLY:N	2.46	0.49
1:L:379:LEU:O	1:L:383:LYS:HB2	2.12	0.49
1:L:403:GLU:CB	1:L:406:GLU:HB2	2.43	0.49
1:L:410:VAL:O	1:L:411:ALA:HB3	2.12	0.49
1:A:79:PHE:CD1	1:A:80:PHE:CA	2.96	0.48
1:A:106:SER:O	1:A:109:LYS:HG3	2.13	0.48
1:A:294:ALA:O	1:A:297:TYR:N	2.46	0.48
1:A:379:LEU:O	1:A:380:ASP:C	2.55	0.48
1:A:398:ASP:HB3	1:A:402:GLU:OE2	2.12	0.48
1:B:89:CYS:SG	1:B:103:ASP:OD1	2.71	0.48
1:B:312:ALA:HB2	1:B:370:CYS:SG	2.52	0.48
1:B:379:LEU:O	1:B:380:ASP:C	2.55	0.48
1:B:399:LEU:HD23	1:B:402:GLU:CB	2.40	0.48
1:C:34:PRO:HG2	1:C:37:GLN:HG3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:89:CYS:SG	1:C:103:ASP:OD1	2.71	0.48
1:C:106:SER:O	1:C:109:LYS:HG3	2.13	0.48
1:C:294:ALA:O	1:C:297:TYR:N	2.46	0.48
1:C:306:LYS:O	1:C:307:ALA:C	2.56	0.48
1:C:311:LEU:HD23	1:C:442:TYR:CE1	2.48	0.48
1:D:34:PRO:HG2	1:D:37:GLN:HG3	1.94	0.48
1:D:423:LEU:N	1:D:423:LEU:CD1	2.76	0.48
1:D:427:PHE:CE1	1:D:428:LEU:HD13	2.47	0.48
1:E:236:GLN:NE2	1:E:236:GLN:HA	2.27	0.48
1:E:312:ALA:HB2	1:E:370:CYS:SG	2.53	0.48
1:E:410:VAL:O	1:E:411:ALA:HB3	2.12	0.48
1:F:67:LEU:CD1	1:F:88:ARG:HB2	2.42	0.48
1:F:70:ASP:C	1:F:72:SER:N	2.71	0.48
1:F:73:THR:O	1:F:84:THR:N	2.45	0.48
1:F:79:PHE:CD1	1:F:80:PHE:CA	2.96	0.48
1:F:106:SER:O	1:F:109:LYS:HG3	2.13	0.48
1:F:297:TYR:O	1:F:300:GLY:N	2.46	0.48
1:F:346:PRO:O	1:F:347:VAL:O	2.31	0.48
1:F:401:PRO:C	1:F:403:GLU:N	2.69	0.48
1:G:5:VAL:HG11	1:G:43:PHE:HZ	1.76	0.48
1:G:34:PRO:HD3	1:L:208:ALA:HA	1.94	0.48
1:G:58:LYS:HD3	1:G:59:GLY:CA	2.43	0.48
1:G:58:LYS:H	1:L:339:ARG:NH2	2.11	0.48
1:G:68:MET:CE	1:G:88:ARG:CG	2.91	0.48
1:G:91:ILE:CA	1:G:97:LEU:O	2.61	0.48
1:G:106:SER:O	1:G:109:LYS:HG3	2.13	0.48
1:G:294:ALA:O	1:G:297:TYR:N	2.46	0.48
1:G:304:HIS:O	1:G:308:ILE:CG1	2.53	0.48
1:H:58:LYS:HD3	1:H:59:GLY:CA	2.43	0.48
1:H:306:LYS:HD3	1:H:411:ALA:HA	1.95	0.48
1:H:401:PRO:C	1:H:403:GLU:N	2.69	0.48
1:I:3:GLU:OE1	1:I:3:GLU:CA	2.57	0.48
1:I:346:PRO:O	1:I:347:VAL:O	2.31	0.48
1:J:88:ARG:CZ	1:J:109:LYS:CE	2.90	0.48
1:J:172:ARG:CB	1:J:173:PRO:CD	2.89	0.48
1:J:376:MET:HE3	1:J:433:VAL:HG21	1.90	0.48
1:J:379:LEU:O	1:J:380:ASP:C	2.55	0.48
1:K:7:THR:C	1:K:9:LEU:N	2.69	0.48
1:K:33:ILE:HD13	1:K:34:PRO:CD	2.42	0.48
1:K:89:CYS:SG	1:K:103:ASP:OD1	2.71	0.48
1:K:106:SER:O	1:K:109:LYS:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:287:TYR:O	1:K:289:GLY:O	2.32	0.48
1:K:379:LEU:O	1:K:383:LYS:HB2	2.12	0.48
1:L:5:VAL:HG11	1:L:43:PHE:HZ	1.76	0.48
1:L:312:ALA:HB2	1:L:370:CYS:SG	2.52	0.48
1:L:379:LEU:O	1:L:380:ASP:C	2.55	0.48
1:L:423:LEU:N	1:L:423:LEU:CD1	2.76	0.48
1:A:3:GLU:OE1	1:A:3:GLU:CA	2.57	0.48
1:A:58:LYS:H	1:B:339:ARG:NH2	2.11	0.48
1:A:67:LEU:CD1	1:A:88:ARG:HB2	2.42	0.48
1:A:70:ASP:C	1:A:72:SER:N	2.71	0.48
1:B:103:ASP:CG	1:B:106:SER:CB	2.83	0.48
1:B:280:ASN:ND2	1:B:280:ASN:N	2.49	0.48
1:B:423:LEU:N	1:B:423:LEU:CD1	2.76	0.48
1:C:58:LYS:H	1:D:339:ARG:NH2	2.12	0.48
1:C:287:TYR:O	1:C:289:GLY:O	2.32	0.48
1:D:88:ARG:HA	1:D:105:ARG:HD2	1.95	0.48
1:D:187:SER:O	1:D:188:ALA:CB	2.60	0.48
1:D:264:ASN:O	1:D:265:GLY:O	2.32	0.48
1:D:311:LEU:HD23	1:D:442:TYR:CE1	2.48	0.48
1:E:68:MET:HE2	1:E:109:LYS:HE3	1.95	0.48
1:E:187:SER:O	1:E:188:ALA:CB	2.61	0.48
1:E:294:ALA:O	1:E:297:TYR:N	2.46	0.48
1:E:297:TYR:O	1:E:298:ILE:C	2.55	0.48
1:E:306:LYS:HD3	1:E:411:ALA:HA	1.95	0.48
1:E:400:PRO:HB2	1:E:401:PRO:CD	2.43	0.48
1:F:294:ALA:O	1:F:297:TYR:N	2.46	0.48
1:F:306:LYS:O	1:F:307:ALA:C	2.56	0.48
1:G:60:ILE:CG2	1:G:100:TYR:CD2	2.96	0.48
1:G:79:PHE:CD1	1:G:80:PHE:CA	2.97	0.48
1:G:351:PRO:HA	1:G:354:ARG:NH1	2.27	0.48
1:G:379:LEU:O	1:G:383:LYS:HB2	2.12	0.48
1:H:73:THR:O	1:H:84:THR:N	2.45	0.48
1:H:79:PHE:CD1	1:H:80:PHE:CA	2.96	0.48
1:H:294:ALA:O	1:H:297:TYR:N	2.46	0.48
1:H:295:LEU:HD12	1:H:295:LEU:N	2.27	0.48
1:H:306:LYS:O	1:H:307:ALA:C	2.56	0.48
1:I:163:LYS:NZ	1:I:163:LYS:CB	2.74	0.48
1:I:312:ALA:HB2	1:I:370:CYS:SG	2.53	0.48
1:J:20:ARG:HG3	1:J:28:GLU:OE2	2.12	0.48
1:J:67:LEU:CG	1:J:88:ARG:CB	2.91	0.48
1:J:88:ARG:HA	1:J:105:ARG:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:208:ALA:HA	1:K:34:PRO:HD3	1.94	0.48
1:J:311:LEU:HD23	1:J:442:TYR:CE1	2.48	0.48
1:J:325:GLY:C	1:J:326:TYR:CD2	2.90	0.48
1:J:423:LEU:N	1:J:423:LEU:CD1	2.76	0.48
1:K:34:PRO:HG2	1:K:37:GLN:HG3	1.94	0.48
1:K:59:GLY:O	1:K:60:ILE:HD13	2.14	0.48
1:K:312:ALA:HB2	1:K:370:CYS:SG	2.53	0.48
1:L:89:CYS:SG	1:L:103:ASP:OD1	2.71	0.48
1:L:187:SER:O	1:L:188:ALA:CB	2.61	0.48
1:L:449:GLU:O	1:L:450:ASP:C	2.54	0.48
1:A:34:PRO:HD3	1:B:208:ALA:HA	1.94	0.48
1:A:93:GLU:OE1	1:A:93:GLU:CA	2.58	0.48
1:A:297:TYR:O	1:A:300:GLY:N	2.46	0.48
1:A:346:PRO:O	1:A:347:VAL:O	2.31	0.48
1:A:351:PRO:HA	1:A:354:ARG:NH1	2.27	0.48
1:A:400:PRO:HB2	1:A:401:PRO:CD	2.43	0.48
1:B:34:PRO:HG2	1:B:37:GLN:HG3	1.95	0.48
1:B:68:MET:CE	1:B:88:ARG:CG	2.91	0.48
1:B:187:SER:O	1:B:188:ALA:CB	2.61	0.48
1:B:287:TYR:O	1:B:289:GLY:O	2.32	0.48
1:B:399:LEU:O	1:B:402:GLU:CB	2.61	0.48
1:B:449:GLU:O	1:B:450:ASP:C	2.54	0.48
1:C:9:LEU:HD12	1:C:14:VAL:CG2	2.38	0.48
1:C:34:PRO:HD3	1:D:208:ALA:HA	1.94	0.48
1:C:42:PHE:CZ	1:C:66:VAL:CG2	2.96	0.48
1:C:60:ILE:CG2	1:C:100:TYR:CD2	2.96	0.48
1:C:88:ARG:HA	1:C:105:ARG:HD2	1.95	0.48
1:C:312:ALA:HB2	1:C:370:CYS:SG	2.52	0.48
1:C:346:PRO:O	1:C:347:VAL:O	2.31	0.48
1:D:67:LEU:CG	1:D:88:ARG:CB	2.92	0.48
1:D:379:LEU:O	1:D:380:ASP:C	2.55	0.48
1:E:17:VAL:CG1	1:E:33:ILE:HG22	2.42	0.48
1:E:41:GLU:O	1:E:42:PHE:C	2.56	0.48
1:E:67:LEU:CG	1:E:88:ARG:CB	2.92	0.48
1:E:204:LEU:HD23	1:E:234:GLU:HB3	1.94	0.48
1:E:264:ASN:O	1:E:265:GLY:O	2.32	0.48
1:F:58:LYS:HD3	1:F:59:GLY:CA	2.43	0.48
1:F:93:GLU:HG3	1:F:94:PRO:HD3	1.93	0.48
1:F:295:LEU:HD12	1:F:295:LEU:N	2.27	0.48
1:G:57:TRP:CD1	1:G:58:LYS:H	2.21	0.48
1:G:67:LEU:CD1	1:G:88:ARG:HB2	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:70:ASP:C	1:G:72:SER:N	2.71	0.48
1:G:204:LEU:HD23	1:G:234:GLU:HB3	1.94	0.48
1:G:311:LEU:HD23	1:G:442:TYR:CE1	2.48	0.48
1:G:346:PRO:O	1:G:347:VAL:O	2.31	0.48
1:G:379:LEU:O	1:G:380:ASP:C	2.55	0.48
1:H:93:GLU:HG3	1:H:94:PRO:HD3	1.93	0.48
1:H:294:ALA:C	1:H:298:ILE:CD1	2.82	0.48
1:H:351:PRO:HA	1:H:354:ARG:NH1	2.27	0.48
1:H:383:LYS:CE	1:H:384:ASN:N	2.74	0.48
1:I:204:LEU:HD23	1:I:234:GLU:HB3	1.94	0.48
1:I:236:GLN:NE2	1:I:236:GLN:HA	2.27	0.48
1:I:294:ALA:O	1:I:297:TYR:N	2.46	0.48
1:I:297:TYR:O	1:I:298:ILE:C	2.56	0.48
1:I:306:LYS:HD3	1:I:411:ALA:HA	1.95	0.48
1:I:399:LEU:O	1:I:402:GLU:CB	2.61	0.48
1:I:400:PRO:HB2	1:I:401:PRO:CD	2.43	0.48
1:J:79:PHE:CB	1:J:80:PHE:CD1	2.95	0.48
1:J:175:VAL:CA	1:J:215:THR:HG23	2.43	0.48
1:J:187:SER:O	1:J:188:ALA:CB	2.60	0.48
1:J:297:TYR:O	1:J:298:ILE:C	2.55	0.48
1:J:403:GLU:CA	1:J:405:LYS:CG	2.86	0.48
1:J:414:LEU:HD23	1:J:414:LEU:O	2.12	0.48
1:K:88:ARG:HA	1:K:105:ARG:HD2	1.95	0.48
1:K:90:ASP:O	1:K:91:ILE:O	2.21	0.48
1:K:306:LYS:O	1:K:307:ALA:C	2.56	0.48
1:K:311:LEU:HD23	1:K:442:TYR:CE1	2.48	0.48
1:K:360:PHE:N	1:K:361:PRO:HD3	2.22	0.48
1:L:34:PRO:HG2	1:L:37:GLN:HG3	1.95	0.48
1:A:5:VAL:HG11	1:A:43:PHE:HZ	1.76	0.48
1:A:107:ILE:HA	1:A:110:ARG:HG3	1.94	0.48
1:A:172:ARG:CB	1:A:173:PRO:CD	2.89	0.48
1:A:311:LEU:HD23	1:A:442:TYR:CE1	2.48	0.48
1:A:421:LEU:CD2	1:A:443:ILE:HD11	2.38	0.48
1:A:423:LEU:N	1:A:423:LEU:CD1	2.76	0.48
1:B:351:PRO:HA	1:B:354:ARG:NH1	2.27	0.48
1:B:360:PHE:N	1:B:361:PRO:HD3	2.21	0.48
1:C:59:GLY:O	1:C:60:ILE:HD13	2.14	0.48
1:C:401:PRO:C	1:C:403:GLU:N	2.69	0.48
1:D:41:GLU:O	1:D:42:PHE:C	2.56	0.48
1:D:58:LYS:H	1:E:339:ARG:NH2	2.11	0.48
1:D:65:MET:C	1:D:65:MET:CE	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:175:VAL:CA	1:D:215:THR:HG23	2.43	0.48
1:D:369:LEU:HD23	1:D:369:LEU:N	2.27	0.48
1:E:3:GLU:OE1	1:E:3:GLU:CA	2.57	0.48
1:E:88:ARG:CZ	1:E:109:LYS:CE	2.90	0.48
1:E:399:LEU:O	1:E:402:GLU:CB	2.62	0.48
1:E:446:ARG:N	1:E:446:ARG:CD	2.74	0.48
1:F:306:LYS:HD3	1:F:411:ALA:HA	1.96	0.48
1:G:89:CYS:SG	1:G:103:ASP:OD1	2.71	0.48
1:G:360:PHE:N	1:G:361:PRO:HD3	2.22	0.48
1:G:421:LEU:CD2	1:G:443:ILE:HD11	2.38	0.48
1:H:311:LEU:HD23	1:H:442:TYR:CE1	2.48	0.48
1:H:399:LEU:O	1:H:402:GLU:CB	2.61	0.48
1:I:41:GLU:O	1:I:42:PHE:C	2.56	0.48
1:I:67:LEU:CG	1:I:88:ARG:CB	2.92	0.48
1:I:187:SER:O	1:I:188:ALA:CB	2.61	0.48
1:I:264:ASN:O	1:I:265:GLY:O	2.32	0.48
1:I:410:VAL:O	1:I:411:ALA:HB3	2.12	0.48
1:J:34:PRO:HG2	1:J:37:GLN:HG3	1.95	0.48
1:J:93:GLU:HG3	1:J:94:PRO:HD3	1.93	0.48
1:J:106:SER:O	1:J:109:LYS:HG3	2.13	0.48
1:J:264:ASN:O	1:J:265:GLY:O	2.32	0.48
1:J:306:LYS:HD3	1:J:411:ALA:HA	1.95	0.48
1:K:60:ILE:CG2	1:K:100:TYR:CD2	2.96	0.48
1:K:208:ALA:HA	1:L:34:PRO:HD3	1.94	0.48
1:K:275:ALA:HA	1:K:280:ASN:HA	1.94	0.48
1:K:346:PRO:O	1:K:347:VAL:O	2.31	0.48
1:K:379:LEU:O	1:K:380:ASP:C	2.55	0.48
1:L:60:ILE:CG2	1:L:100:TYR:CD2	2.96	0.48
1:L:68:MET:CE	1:L:88:ARG:CG	2.91	0.48
1:L:106:SER:O	1:L:109:LYS:HG3	2.13	0.48
1:L:287:TYR:O	1:L:289:GLY:O	2.32	0.48
1:L:351:PRO:HA	1:L:354:ARG:NH1	2.27	0.48
1:L:399:LEU:HD23	1:L:402:GLU:CB	2.40	0.48
1:A:9:LEU:HD12	1:A:14:VAL:CG2	2.38	0.48
1:A:208:ALA:HB2	1:F:33:ILE:CD1	2.44	0.48
1:A:399:LEU:O	1:A:402:GLU:CB	2.61	0.48
1:B:5:VAL:HG11	1:B:43:PHE:HZ	1.76	0.48
1:B:34:PRO:HD3	1:C:208:ALA:HA	1.94	0.48
1:B:58:LYS:H	1:C:339:ARG:NH2	2.11	0.48
1:B:79:PHE:CD1	1:B:80:PHE:CA	2.96	0.48
1:B:316:THR:HG21	1:H:461:GLU:CD	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:403:GLU:CB	1:B:406:GLU:HB2	2.43	0.48
1:C:7:THR:C	1:C:9:LEU:N	2.69	0.48
1:C:275:ALA:HA	1:C:280:ASN:HA	1.94	0.48
1:C:379:LEU:O	1:C:380:ASP:C	2.55	0.48
1:C:383:LYS:CE	1:C:384:ASN:N	2.74	0.48
1:D:73:THR:O	1:D:84:THR:N	2.45	0.48
1:D:93:GLU:HG3	1:D:94:PRO:HD3	1.93	0.48
1:D:325:GLY:C	1:D:326:TYR:CD2	2.91	0.48
1:D:399:LEU:O	1:D:402:GLU:CB	2.61	0.48
1:D:403:GLU:CA	1:D:405:LYS:CG	2.86	0.48
1:D:465:TYR:HD2	1:J:315:THR:OG1	1.81	0.48
1:E:423:LEU:N	1:E:423:LEU:CD1	2.76	0.48
1:F:20:ARG:HG3	1:F:28:GLU:OE2	2.12	0.48
1:F:67:LEU:CG	1:F:88:ARG:CB	2.91	0.48
1:F:88:ARG:HA	1:F:105:ARG:HD2	1.95	0.48
1:F:311:LEU:HD23	1:F:442:TYR:CE1	2.48	0.48
1:F:399:LEU:O	1:F:402:GLU:CB	2.61	0.48
1:F:421:LEU:CD2	1:F:443:ILE:HD11	2.37	0.48
1:F:461:GLU:CD	1:L:316:THR:HG21	2.39	0.48
1:G:88:ARG:HA	1:G:105:ARG:HD2	1.95	0.48
1:G:107:ILE:HA	1:G:110:ARG:HG3	1.94	0.48
1:G:399:LEU:O	1:G:402:GLU:CB	2.61	0.48
1:G:423:LEU:N	1:G:423:LEU:CD1	2.76	0.48
1:H:20:ARG:HG3	1:H:28:GLU:OE2	2.12	0.48
1:H:67:LEU:CG	1:H:88:ARG:CB	2.92	0.48
1:H:362:ASP:C	1:H:364:ALA:N	2.60	0.48
1:H:421:LEU:CD2	1:H:443:ILE:HD11	2.37	0.48
1:I:17:VAL:CG1	1:I:33:ILE:HG22	2.42	0.48
1:I:275:ALA:HA	1:I:280:ASN:HA	1.94	0.48
1:I:331:MET:HB2	1:I:340:SER:O	2.13	0.48
1:I:423:LEU:N	1:I:423:LEU:CD1	2.76	0.48
1:I:446:ARG:N	1:I:446:ARG:CD	2.73	0.48
1:J:41:GLU:O	1:J:42:PHE:C	2.56	0.48
1:J:287:TYR:O	1:J:289:GLY:O	2.31	0.48
1:J:360:PHE:N	1:J:361:PRO:HD3	2.22	0.48
1:J:369:LEU:N	1:J:369:LEU:HD23	2.27	0.48
1:K:9:LEU:HD12	1:K:14:VAL:CG2	2.38	0.48
1:K:383:LYS:CE	1:K:384:ASN:N	2.74	0.48
1:K:437:GLU:HB2	1:K:438:ALA:H	1.11	0.48
1:L:399:LEU:O	1:L:402:GLU:CB	2.62	0.48
1:A:68:MET:CE	1:A:105:ARG:HD3	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:88:ARG:HA	1:A:105:ARG:HD2	1.95	0.48
1:A:89:CYS:SG	1:A:103:ASP:OD1	2.71	0.48
1:A:93:GLU:HG3	1:A:94:PRO:HD3	1.93	0.48
1:A:304:HIS:O	1:A:308:ILE:CG1	2.53	0.48
1:C:67:LEU:CG	1:C:88:ARG:CB	2.91	0.48
1:C:172:ARG:CB	1:C:173:PRO:CD	2.89	0.48
1:D:43:PHE:CE2	1:D:69:PRO:HB3	2.44	0.48
1:D:79:PHE:CB	1:D:80:PHE:CD1	2.95	0.48
1:D:179:TYR:CZ	1:D:180:PHE:CZ	3.00	0.48
1:D:287:TYR:O	1:D:289:GLY:O	2.32	0.48
1:D:297:TYR:O	1:D:298:ILE:C	2.56	0.48
1:D:306:LYS:HD3	1:D:411:ALA:HA	1.96	0.48
1:E:179:TYR:CZ	1:E:180:PHE:CZ	3.01	0.48
1:F:163:LYS:NZ	1:F:163:LYS:CB	2.74	0.48
1:F:204:LEU:HD23	1:F:234:GLU:HB3	1.94	0.48
1:F:331:MET:HB2	1:F:340:SER:O	2.13	0.48
1:F:421:LEU:HD22	1:F:443:ILE:CD1	2.36	0.48
1:G:9:LEU:HD12	1:G:14:VAL:CG2	2.38	0.48
1:G:67:LEU:CG	1:G:88:ARG:CB	2.92	0.48
1:G:392:MET:HA	1:G:392:MET:HE2	1.95	0.48
1:H:163:LYS:NZ	1:H:163:LYS:CB	2.74	0.48
1:H:421:LEU:HD22	1:H:443:ILE:CD1	2.36	0.48
1:I:179:TYR:CZ	1:I:180:PHE:CZ	3.01	0.48
1:I:309:ASN:CB	1:I:313:ASN:HD22	2.26	0.48
1:I:339:ARG:NH2	1:J:58:LYS:H	2.11	0.48
1:I:403:GLU:CA	1:I:405:LYS:CG	2.86	0.48
1:J:312:ALA:HB2	1:J:370:CYS:SG	2.52	0.48
1:J:399:LEU:O	1:J:402:GLU:CB	2.61	0.48
1:J:421:LEU:HD22	1:J:443:ILE:CD1	2.36	0.48
1:K:41:GLU:O	1:K:42:PHE:C	2.56	0.48
1:K:67:LEU:CG	1:K:88:ARG:CB	2.91	0.48
1:K:401:PRO:C	1:K:403:GLU:N	2.69	0.48
1:L:39:ASN:HD22	1:L:42:PHE:HB3	1.79	0.48
1:L:79:PHE:CD1	1:L:80:PHE:CA	2.96	0.48
1:L:304:HIS:O	1:L:308:ILE:CG1	2.53	0.48
1:A:33:ILE:HD13	1:A:34:PRO:CD	2.42	0.48
1:A:42:PHE:CZ	1:A:66:VAL:CG2	2.96	0.48
1:A:59:GLY:O	1:A:60:ILE:HD13	2.14	0.48
1:A:67:LEU:CG	1:A:88:ARG:CB	2.91	0.48
1:A:268:MET:H	1:A:362:ASP:HA	1.79	0.48
1:B:67:LEU:CG	1:B:88:ARG:CB	2.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:106:SER:O	1:B:109:LYS:HG3	2.14	0.48
1:C:41:GLU:O	1:C:42:PHE:C	2.56	0.48
1:C:264:ASN:O	1:C:265:GLY:O	2.32	0.48
1:C:306:LYS:HD3	1:C:411:ALA:HA	1.95	0.48
1:C:403:GLU:CA	1:C:405:LYS:CG	2.86	0.48
1:C:403:GLU:CB	1:C:406:GLU:HB2	2.43	0.48
1:D:9:LEU:HD12	1:D:9:LEU:HA	1.72	0.48
1:D:60:ILE:CG2	1:D:100:TYR:CD2	2.96	0.48
1:D:106:SER:O	1:D:109:LYS:HG3	2.13	0.48
1:D:268:MET:H	1:D:362:ASP:HA	1.79	0.48
1:D:312:ALA:HB2	1:D:370:CYS:SG	2.52	0.48
1:D:339:ARG:O	1:D:341:ALA:N	2.42	0.48
1:D:383:LYS:CE	1:D:384:ASN:N	2.74	0.48
1:E:58:LYS:H	1:F:339:ARG:NH2	2.11	0.48
1:E:88:ARG:HA	1:E:105:ARG:HD2	1.95	0.48
1:E:89:CYS:SG	1:E:103:ASP:OD1	2.71	0.48
1:E:309:ASN:CB	1:E:313:ASN:HD22	2.26	0.48
1:E:313:ASN:N	1:E:314:PRO:HD3	2.29	0.48
1:E:318:SER:OG	1:E:362:ASP:OD2	2.32	0.48
1:E:331:MET:HB2	1:E:340:SER:O	2.13	0.48
1:F:39:ASN:HD22	1:F:39:ASN:N	2.12	0.48
1:F:449:GLU:CD	1:L:465:TYR:OH	2.52	0.48
1:F:462:PHE:O	1:F:463:GLU:C	2.57	0.48
1:G:33:ILE:HD13	1:G:34:PRO:CD	2.42	0.48
1:G:118:THR:OG1	1:G:120:ILE:CG1	2.58	0.48
1:G:362:ASP:C	1:G:364:ALA:N	2.61	0.48
1:H:34:PRO:HG2	1:H:37:GLN:HG3	1.94	0.48
1:H:88:ARG:HA	1:H:105:ARG:HD2	1.95	0.48
1:H:236:GLN:HA	1:H:236:GLN:NE2	2.27	0.48
1:H:280:ASN:ND2	1:H:280:ASN:N	2.49	0.48
1:H:331:MET:HB2	1:H:340:SER:O	2.13	0.48
1:H:339:ARG:NH2	1:I:58:LYS:H	2.11	0.48
1:H:462:PHE:O	1:H:463:GLU:C	2.57	0.48
1:I:42:PHE:CZ	1:I:66:VAL:CG2	2.96	0.48
1:I:89:CYS:SG	1:I:103:ASP:OD1	2.71	0.48
1:J:9:LEU:HD12	1:J:9:LEU:HA	1.72	0.48
1:J:59:GLY:O	1:J:60:ILE:HD13	2.14	0.48
1:J:168:ASN:HB3	1:K:138:ILE:O	2.14	0.48
1:J:272:MET:HE1	1:J:374:LEU:HB3	1.96	0.48
1:K:306:LYS:HD3	1:K:411:ALA:HA	1.95	0.48
1:K:339:ARG:NH2	1:L:58:LYS:H	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:403:GLU:CB	1:K:406:GLU:HB2	2.43	0.48
1:L:331:MET:HB2	1:L:340:SER:O	2.13	0.48
1:A:154:ILE:H	1:A:154:ILE:HG13	1.39	0.48
1:A:297:TYR:C	1:A:299:GLY:N	2.66	0.48
1:B:24:THR:CG2	1:B:25:LYS:N	2.72	0.48
1:B:39:ASN:HD22	1:B:42:PHE:HB3	1.79	0.48
1:B:199:MET:CB	1:B:204:LEU:HD12	2.44	0.48
1:B:304:HIS:O	1:B:308:ILE:CG1	2.53	0.48
1:C:90:ASP:O	1:C:91:ILE:O	2.21	0.48
1:C:138:ILE:O	1:D:168:ASN:HB3	2.14	0.48
1:C:399:LEU:O	1:C:402:GLU:CB	2.61	0.48
1:D:7:THR:C	1:D:9:LEU:N	2.69	0.48
1:D:272:MET:HE1	1:D:374:LEU:HB3	1.96	0.48
1:D:274:LEU:O	1:D:281:LEU:CD1	2.62	0.48
1:D:294:ALA:O	1:D:297:TYR:N	2.46	0.48
1:D:312:ALA:O	1:D:313:ASN:OD1	2.32	0.48
1:D:315:THR:OG1	1:J:465:TYR:HD2	1.80	0.48
1:D:392:MET:HA	1:D:392:MET:HE2	1.95	0.48
1:E:312:ALA:O	1:E:313:ASN:OD1	2.32	0.48
1:E:403:GLU:CA	1:E:405:LYS:CG	2.86	0.48
1:F:41:GLU:O	1:F:42:PHE:C	2.56	0.48
1:F:59:GLY:O	1:F:60:ILE:HD13	2.14	0.48
1:F:315:THR:CB	1:L:465:TYR:HD2	2.02	0.48
1:F:362:ASP:C	1:F:364:ALA:N	2.61	0.48
1:G:59:GLY:O	1:G:60:ILE:HD13	2.14	0.48
1:G:208:ALA:HB2	1:H:33:ILE:CD1	2.44	0.48
1:G:268:MET:H	1:G:362:ASP:HA	1.79	0.48
1:H:33:ILE:HD13	1:H:34:PRO:CD	2.42	0.48
1:H:41:GLU:O	1:H:42:PHE:C	2.56	0.48
1:H:75:VAL:CG1	1:H:78:PRO:CD	2.70	0.48
1:H:204:LEU:HD23	1:H:234:GLU:HB3	1.94	0.48
1:H:208:ALA:HB2	1:I:33:ILE:CD1	2.44	0.48
1:I:88:ARG:HA	1:I:105:ARG:HD2	1.95	0.48
1:J:73:THR:O	1:J:84:THR:N	2.45	0.48
1:J:179:TYR:CZ	1:J:180:PHE:CZ	3.01	0.48
1:K:264:ASN:O	1:K:265:GLY:O	2.32	0.48
1:K:399:LEU:O	1:K:402:GLU:CB	2.61	0.48
1:L:67:LEU:CG	1:L:88:ARG:CB	2.92	0.48
1:L:199:MET:CB	1:L:204:LEU:HD12	2.44	0.48
1:L:268:MET:H	1:L:362:ASP:HA	1.79	0.48
1:L:311:LEU:HD23	1:L:442:TYR:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:33:ILE:CD1	1:B:208:ALA:HB2	2.44	0.48
1:A:89:CYS:HB3	1:A:90:ASP:H	1.44	0.48
1:A:118:THR:OG1	1:A:120:ILE:CG1	2.58	0.48
1:A:287:TYR:O	1:A:289:GLY:O	2.32	0.48
1:A:392:MET:HA	1:A:392:MET:HE2	1.95	0.48
1:B:383:LYS:CE	1:B:384:ASN:N	2.74	0.48
1:C:423:LEU:N	1:C:423:LEU:CD1	2.76	0.48
1:D:59:GLY:O	1:D:60:ILE:HD13	2.14	0.48
1:D:114:TYR:O	1:D:115:LEU:C	2.57	0.48
1:D:309:ASN:CB	1:D:313:ASN:HD22	2.26	0.48
1:D:421:LEU:HD22	1:D:443:ILE:CD1	2.36	0.48
1:E:33:ILE:CD1	1:F:208:ALA:HB2	2.44	0.48
1:E:42:PHE:CZ	1:E:66:VAL:CG2	2.96	0.48
1:E:403:GLU:CB	1:E:406:GLU:HB2	2.43	0.48
1:E:403:GLU:CB	1:E:406:GLU:CB	2.87	0.48
1:F:34:PRO:HG2	1:F:37:GLN:HG3	1.94	0.48
1:F:187:SER:O	1:F:188:ALA:CB	2.61	0.48
1:F:236:GLN:HA	1:F:236:GLN:NE2	2.27	0.48
1:F:294:ALA:C	1:F:298:ILE:CD1	2.82	0.48
1:F:335:SER:N	1:F:345:ILE:CD1	2.75	0.48
1:G:33:ILE:CD1	1:L:208:ALA:HB2	2.44	0.48
1:G:42:PHE:CZ	1:G:66:VAL:CG2	2.96	0.48
1:H:39:ASN:HD22	1:H:39:ASN:N	2.12	0.48
1:H:59:GLY:O	1:H:60:ILE:HD13	2.14	0.48
1:H:187:SER:O	1:H:188:ALA:CB	2.61	0.48
1:I:89:CYS:HB3	1:I:90:ASP:CG	2.37	0.48
1:I:168:ASN:HB3	1:J:138:ILE:O	2.14	0.48
1:I:312:ALA:O	1:I:313:ASN:OD1	2.32	0.48
1:J:27:LYS:HZ2	1:J:239:LYS:HE3	1.79	0.48
1:J:43:PHE:CE2	1:J:69:PRO:HB3	2.44	0.48
1:J:60:ILE:CG2	1:J:100:TYR:CD2	2.96	0.48
1:J:70:ASP:C	1:J:72:SER:N	2.71	0.48
1:J:114:TYR:O	1:J:115:LEU:C	2.57	0.48
1:J:268:MET:H	1:J:362:ASP:HA	1.79	0.48
1:J:294:ALA:O	1:J:297:TYR:N	2.46	0.48
1:J:309:ASN:CB	1:J:313:ASN:HD22	2.26	0.48
1:J:312:ALA:O	1:J:313:ASN:OD1	2.32	0.48
1:J:313:ASN:N	1:J:314:PRO:HD3	2.29	0.48
1:J:383:LYS:CE	1:J:384:ASN:N	2.74	0.48
1:J:392:MET:HA	1:J:392:MET:HE2	1.95	0.48
1:K:3:GLU:OE1	1:K:3:GLU:CA	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:38:VAL:O	1:K:39:ASN:CB	2.56	0.48
1:K:172:ARG:CB	1:K:173:PRO:CD	2.89	0.48
1:L:20:ARG:HG3	1:L:28:GLU:OE2	2.12	0.48
1:L:360:PHE:N	1:L:361:PRO:HD3	2.22	0.48
1:L:376:MET:CE	1:L:433:VAL:CG2	2.87	0.48
1:A:2:ALA:C	1:A:4:HIS:N	2.69	0.48
1:A:274:LEU:O	1:A:281:LEU:CD1	2.62	0.48
1:A:362:ASP:C	1:A:364:ALA:N	2.61	0.48
1:B:268:MET:H	1:B:362:ASP:HA	1.79	0.48
1:B:311:LEU:HD23	1:B:442:TYR:CE1	2.48	0.48
1:C:79:PHE:CD1	1:C:80:PHE:CA	2.96	0.48
1:C:294:ALA:C	1:C:298:ILE:CD1	2.82	0.48
1:D:3:GLU:O	1:D:6:LEU:HB3	2.14	0.48
1:D:33:ILE:HD13	1:D:34:PRO:CD	2.42	0.48
1:D:58:LYS:HD3	1:D:59:GLY:CA	2.43	0.48
1:D:70:ASP:C	1:D:72:SER:N	2.71	0.48
1:D:138:ILE:O	1:E:168:ASN:HB3	2.14	0.48
1:D:295:LEU:HB3	1:D:388:PRO:CG	2.44	0.48
1:D:297:TYR:C	1:D:299:GLY:N	2.66	0.48
1:D:313:ASN:N	1:D:314:PRO:HD3	2.29	0.48
1:D:346:PRO:O	1:D:347:VAL:O	2.30	0.48
1:D:437:GLU:CA	1:D:437:GLU:OE2	2.62	0.48
1:E:39:ASN:HD22	1:E:39:ASN:N	2.12	0.48
1:E:79:PHE:CD1	1:E:80:PHE:CA	2.97	0.48
1:E:89:CYS:C	1:E:91:ILE:H	2.20	0.48
1:E:106:SER:O	1:E:109:LYS:HG3	2.13	0.48
1:E:360:PHE:N	1:E:361:PRO:HD3	2.22	0.48
1:F:27:LYS:HZ2	1:F:239:LYS:HE3	1.77	0.48
1:F:75:VAL:CG1	1:F:78:PRO:CD	2.70	0.48
1:F:264:ASN:O	1:F:265:GLY:O	2.32	0.48
1:F:268:MET:H	1:F:362:ASP:HA	1.79	0.48
1:G:274:LEU:O	1:G:281:LEU:CD1	2.62	0.48
1:G:287:TYR:O	1:G:289:GLY:O	2.32	0.48
1:G:325:GLY:C	1:G:326:TYR:CD2	2.90	0.48
1:H:42:PHE:CZ	1:H:66:VAL:CG2	2.96	0.48
1:H:268:MET:H	1:H:362:ASP:HA	1.79	0.48
1:H:335:SER:N	1:H:345:ILE:CD1	2.75	0.48
1:I:79:PHE:CD1	1:I:80:PHE:CA	2.97	0.48
1:I:311:LEU:HD23	1:I:311:LEU:HA	1.54	0.48
1:I:313:ASN:N	1:I:314:PRO:HD3	2.29	0.48
1:J:2:ALA:C	1:J:4:HIS:N	2.69	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3:GLU:O	1:J:6:LEU:HB3	2.14	0.48
1:J:33:ILE:HD13	1:J:34:PRO:CD	2.42	0.48
1:J:274:LEU:O	1:J:281:LEU:CD1	2.62	0.48
1:J:331:MET:CE	1:J:396:LEU:CD1	2.81	0.48
1:J:339:ARG:O	1:J:341:ALA:N	2.42	0.48
1:J:346:PRO:O	1:J:347:VAL:O	2.31	0.48
1:K:294:ALA:C	1:K:298:ILE:CD1	2.82	0.48
1:K:403:GLU:CA	1:K:405:LYS:CG	2.86	0.48
1:L:401:PRO:C	1:L:403:GLU:N	2.69	0.48
1:A:34:PRO:HG2	1:A:37:GLN:HG3	1.95	0.47
1:A:325:GLY:C	1:A:326:TYR:CD2	2.90	0.47
1:A:336:ALA:HA	1:A:345:ILE:O	2.14	0.47
1:A:399:LEU:HD23	1:A:402:GLU:CB	2.39	0.47
1:B:138:ILE:O	1:C:168:ASN:HB3	2.14	0.47
1:B:212:GLU:HB3	1:B:213:VAL:H	1.61	0.47
1:B:312:ALA:O	1:B:313:ASN:OD1	2.32	0.47
1:B:331:MET:HB2	1:B:340:SER:O	2.13	0.47
1:B:376:MET:CE	1:B:433:VAL:CG2	2.87	0.47
1:B:403:GLU:CB	1:B:406:GLU:CB	2.87	0.47
1:B:465:TYR:HD2	1:H:315:THR:CB	2.02	0.47
1:C:38:VAL:O	1:C:39:ASN:CB	2.56	0.47
1:C:295:LEU:HB3	1:C:388:PRO:CG	2.44	0.47
1:C:399:LEU:HD23	1:C:402:GLU:CB	2.39	0.47
1:D:42:PHE:CZ	1:D:66:VAL:CG2	2.96	0.47
1:E:39:ASN:HD22	1:E:42:PHE:HB3	1.79	0.47
1:E:60:ILE:CG2	1:E:100:TYR:CD2	2.96	0.47
1:E:70:ASP:C	1:E:72:SER:N	2.71	0.47
1:E:89:CYS:HB3	1:E:90:ASP:CG	2.37	0.47
1:E:287:TYR:O	1:E:289:GLY:O	2.32	0.47
1:E:295:LEU:HB3	1:E:388:PRO:CG	2.44	0.47
1:F:33:ILE:HD13	1:F:34:PRO:CD	2.42	0.47
1:F:42:PHE:CZ	1:F:66:VAL:CG2	2.96	0.47
1:F:60:ILE:CG2	1:F:100:TYR:CD2	2.96	0.47
1:G:2:ALA:C	1:G:4:HIS:N	2.69	0.47
1:G:93:GLU:HG3	1:G:94:PRO:HD3	1.93	0.47
1:G:297:TYR:C	1:G:299:GLY:N	2.66	0.47
1:G:403:GLU:CB	1:G:406:GLU:HB2	2.43	0.47
1:H:264:ASN:O	1:H:265:GLY:O	2.32	0.47
1:H:274:LEU:O	1:H:281:LEU:CD1	2.62	0.47
1:H:331:MET:CE	1:H:396:LEU:CD1	2.81	0.47
1:I:39:ASN:HD22	1:I:39:ASN:N	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:39:ASN:HD22	1:I:42:PHE:HB3	1.79	0.47
1:I:60:ILE:CG2	1:I:100:TYR:CD2	2.96	0.47
1:I:70:ASP:C	1:I:72:SER:N	2.71	0.47
1:I:106:SER:O	1:I:109:LYS:HG3	2.13	0.47
1:I:287:TYR:O	1:I:289:GLY:O	2.31	0.47
1:I:295:LEU:HB3	1:I:388:PRO:CG	2.44	0.47
1:I:311:LEU:HD23	1:I:442:TYR:CE1	2.48	0.47
1:I:403:GLU:C	1:I:405:LYS:N	2.71	0.47
1:I:403:GLU:CB	1:I:406:GLU:HB2	2.43	0.47
1:I:403:GLU:CB	1:I:406:GLU:CB	2.87	0.47
1:J:297:TYR:C	1:J:299:GLY:N	2.66	0.47
1:J:403:GLU:CB	1:J:406:GLU:HB2	2.43	0.47
1:J:437:GLU:OE2	1:J:437:GLU:CA	2.62	0.47
1:K:168:ASN:HB3	1:L:138:ILE:O	2.14	0.47
1:K:318:SER:OG	1:K:362:ASP:OD2	2.32	0.47
1:K:331:MET:HB2	1:K:340:SER:O	2.13	0.47
1:K:351:PRO:HG2	1:K:352:LYS:H	1.79	0.47
1:K:423:LEU:N	1:K:423:LEU:CD1	2.76	0.47
1:L:24:THR:CG2	1:L:25:LYS:N	2.71	0.47
1:L:70:ASP:C	1:L:72:SER:N	2.71	0.47
1:L:118:THR:OG1	1:L:120:ILE:CG1	2.58	0.47
1:L:435:THR:HG21	1:L:437:GLU:CG	2.44	0.47
1:A:403:GLU:CB	1:A:406:GLU:HB2	2.43	0.47
1:B:70:ASP:C	1:B:72:SER:N	2.71	0.47
1:C:3:GLU:OE1	1:C:3:GLU:CA	2.57	0.47
1:C:67:LEU:H	1:C:87:ILE:HA	1.80	0.47
1:C:119:GLY:C	1:C:121:ALA:H	2.23	0.47
1:C:185:VAL:O	1:C:185:VAL:CG1	2.59	0.47
1:C:351:PRO:HG2	1:C:352:LYS:H	1.79	0.47
1:C:462:PHE:O	1:C:463:GLU:C	2.57	0.47
1:D:199:MET:CB	1:D:204:LEU:HD12	2.44	0.47
1:E:58:LYS:HD3	1:E:59:GLY:CA	2.43	0.47
1:E:274:LEU:O	1:E:281:LEU:CD1	2.62	0.47
1:F:9:LEU:HD21	1:F:38:VAL:HG11	1.97	0.47
1:F:274:LEU:O	1:F:281:LEU:CD1	2.62	0.47
1:F:280:ASN:ND2	1:F:280:ASN:N	2.49	0.47
1:F:287:TYR:O	1:F:289:GLY:O	2.32	0.47
1:F:309:ASN:CB	1:F:313:ASN:HD22	2.26	0.47
1:G:306:LYS:O	1:G:307:ALA:C	2.56	0.47
1:G:306:LYS:HD3	1:G:411:ALA:HA	1.95	0.47
1:G:331:MET:HB2	1:G:340:SER:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:60:ILE:CG2	1:H:100:TYR:CD2	2.96	0.47
1:H:118:THR:OG1	1:H:120:ILE:CG1	2.58	0.47
1:H:309:ASN:CB	1:H:313:ASN:HD22	2.26	0.47
1:H:435:THR:HG21	1:H:437:GLU:CG	2.44	0.47
1:I:199:MET:CB	1:I:204:LEU:HD12	2.44	0.47
1:J:39:ASN:HD22	1:J:42:PHE:HB3	1.79	0.47
1:J:42:PHE:CZ	1:J:66:VAL:CG2	2.96	0.47
1:J:58:LYS:HD3	1:J:59:GLY:CA	2.43	0.47
1:K:3:GLU:O	1:K:6:LEU:HB3	2.14	0.47
1:K:79:PHE:CD1	1:K:80:PHE:CA	2.97	0.47
1:K:119:GLY:C	1:K:121:ALA:H	2.23	0.47
1:K:290:LEU:HD11	1:K:345:ILE:HG21	1.96	0.47
1:K:297:TYR:C	1:K:299:GLY:N	2.66	0.47
1:K:435:THR:HG21	1:K:437:GLU:CG	2.44	0.47
1:K:462:PHE:O	1:K:463:GLU:C	2.57	0.47
1:L:9:LEU:HD12	1:L:14:VAL:CG2	2.38	0.47
1:A:60:ILE:CG2	1:A:100:TYR:CD2	2.96	0.47
1:A:199:MET:CB	1:A:204:LEU:HD12	2.44	0.47
1:A:306:LYS:HD3	1:A:411:ALA:HA	1.95	0.47
1:A:306:LYS:O	1:A:307:ALA:C	2.56	0.47
1:A:312:ALA:O	1:A:313:ASN:OD1	2.32	0.47
1:A:331:MET:HB2	1:A:340:SER:O	2.13	0.47
1:A:437:GLU:OE2	1:A:437:GLU:HA	2.15	0.47
1:B:435:THR:HG21	1:B:437:GLU:CG	2.44	0.47
1:C:3:GLU:O	1:C:6:LEU:HB3	2.14	0.47
1:C:71:ALA:HB3	1:C:86:ILE:HD11	1.96	0.47
1:C:290:LEU:HD11	1:C:345:ILE:HG21	1.96	0.47
1:C:316:THR:HG21	1:I:461:GLU:CD	2.39	0.47
1:C:435:THR:HG21	1:C:437:GLU:CG	2.44	0.47
1:D:79:PHE:CD1	1:D:80:PHE:CA	2.97	0.47
1:D:265:GLY:O	1:D:266:SER:C	2.58	0.47
1:D:403:GLU:CB	1:D:406:GLU:HB2	2.43	0.47
1:D:435:THR:HG21	1:D:437:GLU:CG	2.44	0.47
1:E:199:MET:CB	1:E:204:LEU:HD12	2.44	0.47
1:F:39:ASN:HD22	1:F:42:PHE:HB3	1.79	0.47
1:F:91:ILE:CA	1:F:97:LEU:O	2.61	0.47
1:F:118:THR:OG1	1:F:120:ILE:CG1	2.58	0.47
1:F:316:THR:HG21	1:L:461:GLU:CD	2.39	0.47
1:F:318:SER:OG	1:F:362:ASP:OD2	2.32	0.47
1:F:360:PHE:N	1:F:361:PRO:HD3	2.22	0.47
1:F:403:GLU:CB	1:F:406:GLU:HB2	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:71:ALA:HB3	1:G:86:ILE:HD11	1.96	0.47
1:G:199:MET:CB	1:G:204:LEU:HD12	2.44	0.47
1:G:308:ILE:O	1:G:311:LEU:N	2.42	0.47
1:G:313:ASN:N	1:G:314:PRO:HD3	2.29	0.47
1:G:336:ALA:HA	1:G:345:ILE:O	2.14	0.47
1:G:337:ARG:CG	1:G:338:ASN:N	2.70	0.47
1:G:414:LEU:HD23	1:G:414:LEU:O	2.12	0.47
1:H:91:ILE:CA	1:H:97:LEU:O	2.61	0.47
1:H:287:TYR:O	1:H:289:GLY:O	2.31	0.47
1:H:403:GLU:CB	1:H:406:GLU:HB2	2.43	0.47
1:I:58:LYS:HD3	1:I:59:GLY:CA	2.43	0.47
1:I:89:CYS:C	1:I:91:ILE:H	2.20	0.47
1:I:271:HIS:CD2	1:I:357:GLU:CG	2.98	0.47
1:I:392:MET:HA	1:I:392:MET:HE2	1.95	0.47
1:J:79:PHE:CD1	1:J:80:PHE:CA	2.96	0.47
1:J:295:LEU:HB3	1:J:388:PRO:CG	2.44	0.47
1:J:331:MET:HB2	1:J:340:SER:O	2.13	0.47
1:J:435:THR:HG21	1:J:437:GLU:CG	2.44	0.47
1:K:2:ALA:C	1:K:4:HIS:N	2.69	0.47
1:K:67:LEU:H	1:K:87:ILE:HA	1.80	0.47
1:K:71:ALA:HB3	1:K:86:ILE:HD11	1.96	0.47
1:L:295:LEU:HD12	1:L:295:LEU:N	2.27	0.47
1:L:312:ALA:O	1:L:313:ASN:OD1	2.32	0.47
1:A:39:ASN:HD22	1:A:42:PHE:HB3	1.79	0.47
1:A:57:TRP:CD1	1:A:58:LYS:CA	2.97	0.47
1:A:138:ILE:O	1:B:168:ASN:HB3	2.14	0.47
1:A:308:ILE:O	1:A:311:LEU:N	2.42	0.47
1:B:2:ALA:C	1:B:4:HIS:N	2.69	0.47
1:B:17:VAL:CG1	1:B:33:ILE:HG22	2.42	0.47
1:B:58:LYS:HD3	1:B:59:GLY:CA	2.43	0.47
1:B:60:ILE:CG2	1:B:100:TYR:CD2	2.96	0.47
1:B:118:THR:OG1	1:B:120:ILE:CG1	2.58	0.47
1:B:306:LYS:O	1:B:307:ALA:C	2.56	0.47
1:B:437:GLU:OE2	1:B:437:GLU:HA	2.14	0.47
1:C:39:ASN:HD22	1:C:42:PHE:HB3	1.79	0.47
1:C:58:LYS:HD3	1:C:59:GLY:CA	2.43	0.47
1:C:421:LEU:CD2	1:C:439:ILE:HG23	2.45	0.47
1:D:39:ASN:HD22	1:D:42:PHE:HB3	1.79	0.47
1:D:67:LEU:H	1:D:87:ILE:HA	1.80	0.47
1:D:118:THR:OG1	1:D:120:ILE:CG1	2.58	0.47
1:E:71:ALA:O	1:E:86:ILE:CG1	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:311:LEU:HD23	1:E:442:TYR:CE1	2.48	0.47
1:F:316:THR:HG22	1:F:317:ASN:N	2.29	0.47
1:F:379:LEU:O	1:F:380:ASP:C	2.55	0.47
1:G:34:PRO:HG2	1:G:37:GLN:HG3	1.95	0.47
1:G:57:TRP:CD1	1:G:58:LYS:CA	2.97	0.47
1:G:138:ILE:O	1:L:168:ASN:HB3	2.14	0.47
1:G:399:LEU:HD23	1:G:402:GLU:CB	2.39	0.47
1:H:9:LEU:HD21	1:H:38:VAL:HG11	1.97	0.47
1:I:274:LEU:O	1:I:281:LEU:CD1	2.62	0.47
1:I:337:ARG:HG3	1:I:338:ASN:H	1.77	0.47
1:I:360:PHE:N	1:I:361:PRO:HD3	2.22	0.47
1:J:118:THR:OG1	1:J:120:ILE:CG1	2.58	0.47
1:J:199:MET:CB	1:J:204:LEU:HD12	2.44	0.47
1:J:265:GLY:O	1:J:266:SER:C	2.58	0.47
1:J:390:GLU:HB3	1:J:391:PRO:CD	2.44	0.47
1:K:9:LEU:HD21	1:K:38:VAL:HG11	1.97	0.47
1:K:295:LEU:HB3	1:K:388:PRO:CG	2.44	0.47
1:K:308:ILE:HG12	1:K:308:ILE:H	1.37	0.47
1:K:337:ARG:CG	1:K:338:ASN:H	2.28	0.47
1:L:2:ALA:C	1:L:4:HIS:N	2.69	0.47
1:L:58:LYS:HD3	1:L:59:GLY:CA	2.43	0.47
1:L:212:GLU:HB3	1:L:213:VAL:H	1.60	0.47
1:L:383:LYS:CE	1:L:384:ASN:N	2.74	0.47
1:L:403:GLU:CB	1:L:406:GLU:CB	2.87	0.47
1:A:71:ALA:HB3	1:A:86:ILE:HD11	1.96	0.47
1:A:313:ASN:N	1:A:314:PRO:HD3	2.29	0.47
1:A:339:ARG:NH2	1:F:58:LYS:H	2.11	0.47
1:B:9:LEU:HD12	1:B:14:VAL:CG2	2.38	0.47
1:B:71:ALA:O	1:B:86:ILE:CG1	2.62	0.47
1:B:88:ARG:HA	1:B:105:ARG:HD2	1.95	0.47
1:B:295:LEU:HD12	1:B:295:LEU:N	2.27	0.47
1:B:390:GLU:HB3	1:B:391:PRO:CD	2.44	0.47
1:B:401:PRO:C	1:B:403:GLU:N	2.69	0.47
1:C:2:ALA:C	1:C:4:HIS:N	2.69	0.47
1:C:265:GLY:O	1:C:266:SER:C	2.58	0.47
1:C:312:ALA:O	1:C:313:ASN:OD1	2.32	0.47
1:C:313:ASN:N	1:C:314:PRO:HD3	2.29	0.47
1:C:337:ARG:CG	1:C:338:ASN:H	2.28	0.47
1:D:2:ALA:C	1:D:4:HIS:N	2.69	0.47
1:D:9:LEU:HD21	1:D:38:VAL:HG11	1.97	0.47
1:D:33:ILE:CD1	1:E:208:ALA:HB2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:39:ASN:HD22	1:D:39:ASN:N	2.12	0.47
1:D:331:MET:CE	1:D:396:LEU:CD1	2.81	0.47
1:D:331:MET:HB2	1:D:340:SER:O	2.14	0.47
1:E:39:ASN:O	1:E:40:ALA:O	2.33	0.47
1:E:271:HIS:CD2	1:E:357:GLU:CG	2.98	0.47
1:F:295:LEU:HB3	1:F:388:PRO:CG	2.44	0.47
1:G:39:ASN:HD22	1:G:39:ASN:N	2.12	0.47
1:G:41:GLU:O	1:G:42:PHE:C	2.56	0.47
1:G:312:ALA:O	1:G:313:ASN:OD1	2.32	0.47
1:G:351:PRO:HG2	1:G:352:LYS:H	1.79	0.47
1:G:437:GLU:HA	1:G:437:GLU:OE2	2.15	0.47
1:H:114:TYR:O	1:H:115:LEU:C	2.57	0.47
1:H:318:SER:OG	1:H:362:ASP:OD2	2.32	0.47
1:H:379:LEU:O	1:H:380:ASP:C	2.55	0.47
1:I:71:ALA:O	1:I:86:ILE:CG1	2.63	0.47
1:I:175:VAL:CA	1:I:215:THR:HG23	2.43	0.47
1:I:208:ALA:HB2	1:J:33:ILE:CD1	2.44	0.47
1:I:338:ASN:C	1:I:339:ARG:O	2.58	0.47
1:J:9:LEU:HD21	1:J:38:VAL:HG11	1.97	0.47
1:J:202:MET:HB2	1:J:202:MET:HE3	1.58	0.47
1:J:289:GLY:CA	1:J:354:ARG:HE	2.20	0.47
1:J:316:THR:HG22	1:J:317:ASN:N	2.29	0.47
1:K:70:ASP:C	1:K:72:SER:N	2.71	0.47
1:K:185:VAL:O	1:K:185:VAL:CG1	2.59	0.47
1:K:265:GLY:O	1:K:266:SER:C	2.58	0.47
1:K:312:ALA:O	1:K:313:ASN:OD1	2.32	0.47
1:K:313:ASN:N	1:K:314:PRO:HD3	2.29	0.47
1:K:399:LEU:HD23	1:K:402:GLU:CB	2.40	0.47
1:L:17:VAL:CG1	1:L:33:ILE:HG22	2.42	0.47
1:L:71:ALA:O	1:L:86:ILE:CG1	2.62	0.47
1:L:88:ARG:HA	1:L:105:ARG:HD2	1.95	0.47
1:L:89:CYS:HB3	1:L:90:ASP:H	1.44	0.47
1:L:313:ASN:N	1:L:314:PRO:HD3	2.29	0.47
1:L:437:GLU:HA	1:L:437:GLU:OE2	2.15	0.47
1:A:39:ASN:HD22	1:A:39:ASN:N	2.12	0.47
1:A:337:ARG:CG	1:A:338:ASN:N	2.70	0.47
1:A:414:LEU:HD23	1:A:414:LEU:O	2.12	0.47
1:B:264:ASN:O	1:B:265:GLY:O	2.32	0.47
1:B:306:LYS:HD3	1:B:411:ALA:HA	1.95	0.47
1:B:313:ASN:N	1:B:314:PRO:HD3	2.29	0.47
1:B:437:GLU:OE2	1:B:437:GLU:CA	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:461:GLU:CD	1:H:316:THR:HG21	2.39	0.47
1:C:9:LEU:HD21	1:C:38:VAL:HG11	1.97	0.47
1:C:57:TRP:CD1	1:C:58:LYS:H	2.21	0.47
1:C:70:ASP:C	1:C:72:SER:N	2.71	0.47
1:C:331:MET:HB2	1:C:340:SER:O	2.13	0.47
1:C:390:GLU:HB3	1:C:391:PRO:CD	2.44	0.47
1:C:433:VAL:O	1:C:434:PHE:CB	2.58	0.47
1:E:24:THR:CG2	1:E:25:LYS:N	2.72	0.47
1:E:59:GLY:O	1:E:60:ILE:HD13	2.14	0.47
1:E:265:GLY:O	1:E:266:SER:C	2.58	0.47
1:E:337:ARG:HG3	1:E:338:ASN:H	1.77	0.47
1:E:338:ASN:C	1:E:339:ARG:O	2.58	0.47
1:E:392:MET:HA	1:E:392:MET:HE2	1.95	0.47
1:E:412:GLY:C	1:E:413:SER:OG	2.58	0.47
1:F:57:TRP:CD1	1:F:58:LYS:CA	2.97	0.47
1:F:114:TYR:O	1:F:115:LEU:C	2.57	0.47
1:F:435:THR:HG21	1:F:437:GLU:CG	2.44	0.47
1:G:9:LEU:HD21	1:G:38:VAL:HG11	1.97	0.47
1:H:16:PHE:HD1	1:H:79:PHE:CE1	2.27	0.47
1:H:39:ASN:HD22	1:H:42:PHE:HB3	1.79	0.47
1:H:57:TRP:CD1	1:H:58:LYS:CA	2.97	0.47
1:H:289:GLY:CA	1:H:354:ARG:HE	2.20	0.47
1:I:336:ALA:HA	1:I:345:ILE:O	2.14	0.47
1:J:39:ASN:HD22	1:J:39:ASN:N	2.12	0.47
1:J:67:LEU:H	1:J:87:ILE:HA	1.80	0.47
1:J:208:ALA:HB2	1:K:33:ILE:CD1	2.44	0.47
1:J:338:ASN:C	1:J:339:ARG:O	2.58	0.47
1:J:421:LEU:CD2	1:J:439:ILE:HG23	2.45	0.47
1:J:462:PHE:O	1:J:463:GLU:C	2.57	0.47
1:K:20:ARG:HG3	1:K:28:GLU:OE2	2.12	0.47
1:K:421:LEU:CD2	1:K:439:ILE:HG23	2.45	0.47
1:L:3:GLU:O	1:L:6:LEU:HB3	2.14	0.47
1:L:57:TRP:CD1	1:L:58:LYS:CA	2.97	0.47
1:L:90:ASP:O	1:L:91:ILE:O	2.21	0.47
1:L:264:ASN:O	1:L:265:GLY:O	2.32	0.47
1:A:4:HIS:C	1:A:6:LEU:N	2.71	0.47
1:A:9:LEU:HD21	1:A:38:VAL:HG11	1.97	0.47
1:A:26:GLY:O	1:A:27:LYS:CG	2.57	0.47
1:A:41:GLU:O	1:A:42:PHE:C	2.56	0.47
1:A:43:PHE:CE2	1:A:69:PRO:HB3	2.44	0.47
1:A:105:ARG:HD3	1:A:109:LYS:HE2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:295:LEU:HB3	1:A:388:PRO:CG	2.44	0.47
1:A:401:PRO:C	1:A:403:GLU:N	2.69	0.47
1:A:403:GLU:C	1:A:405:LYS:N	2.71	0.47
1:A:437:GLU:OE2	1:A:437:GLU:CA	2.62	0.47
1:B:3:GLU:O	1:B:6:LEU:HB3	2.14	0.47
1:B:57:TRP:CD1	1:B:58:LYS:CA	2.97	0.47
1:B:67:LEU:H	1:B:87:ILE:HA	1.80	0.47
1:B:73:THR:O	1:B:84:THR:N	2.45	0.47
1:B:265:GLY:O	1:B:266:SER:C	2.58	0.47
1:B:336:ALA:HA	1:B:345:ILE:O	2.14	0.47
1:C:20:ARG:HG3	1:C:28:GLU:OE2	2.13	0.47
1:C:30:HIS:O	1:D:180:PHE:CB	2.42	0.47
1:C:33:ILE:CD1	1:D:208:ALA:HB2	2.44	0.47
1:C:71:ALA:O	1:C:86:ILE:CG1	2.62	0.47
1:C:118:THR:OG1	1:C:120:ILE:CG1	2.58	0.47
1:D:39:ASN:O	1:D:40:ALA:O	2.33	0.47
1:D:105:ARG:HD3	1:D:109:LYS:HE2	1.97	0.47
1:D:202:MET:HB2	1:D:202:MET:HE3	1.58	0.47
1:D:298:ILE:O	1:D:302:ILE:CG1	2.63	0.47
1:D:338:ASN:C	1:D:339:ARG:O	2.58	0.47
1:D:462:PHE:O	1:D:463:GLU:C	2.57	0.47
1:E:89:CYS:HB3	1:E:103:ASP:OD2	2.07	0.47
1:E:175:VAL:CA	1:E:215:THR:HG23	2.43	0.47
1:E:212:GLU:HB3	1:E:213:VAL:H	1.61	0.47
1:E:435:THR:HG21	1:E:437:GLU:CG	2.44	0.47
1:F:39:ASN:O	1:F:40:ALA:O	2.33	0.47
1:F:71:ALA:HB3	1:F:86:ILE:HD11	1.96	0.47
1:F:89:CYS:SG	1:F:103:ASP:OD1	2.71	0.47
1:F:199:MET:CB	1:F:204:LEU:HD12	2.44	0.47
1:F:274:LEU:HD11	1:F:282:PHE:CE1	2.44	0.47
1:F:289:GLY:CA	1:F:354:ARG:HE	2.20	0.47
1:F:313:ASN:N	1:F:314:PRO:HD3	2.29	0.47
1:F:331:MET:CE	1:F:396:LEU:CD1	2.81	0.47
1:F:421:LEU:CD2	1:F:439:ILE:HG23	2.45	0.47
1:F:423:LEU:N	1:F:423:LEU:CD1	2.76	0.47
1:F:437:GLU:OE2	1:F:437:GLU:HA	2.15	0.47
1:G:4:HIS:C	1:G:6:LEU:N	2.71	0.47
1:G:39:ASN:HD22	1:G:42:PHE:HB3	1.79	0.47
1:G:65:MET:O	1:G:67:LEU:CA	2.63	0.47
1:G:154:ILE:H	1:G:154:ILE:HG13	1.39	0.47
1:G:295:LEU:HB3	1:G:388:PRO:CG	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:339:ARG:NH2	1:H:58:LYS:H	2.11	0.47
1:G:366:ASN:OD1	1:G:366:ASN:N	2.42	0.47
1:G:401:PRO:C	1:G:403:GLU:N	2.69	0.47
1:G:403:GLU:C	1:G:405:LYS:N	2.71	0.47
1:G:437:GLU:OE2	1:G:437:GLU:CA	2.62	0.47
1:H:39:ASN:O	1:H:40:ALA:O	2.33	0.47
1:H:89:CYS:SG	1:H:103:ASP:OD1	2.71	0.47
1:H:105:ARG:HD3	1:H:109:LYS:HE2	1.97	0.47
1:H:271:HIS:CD2	1:H:357:GLU:CG	2.98	0.47
1:H:312:ALA:O	1:H:313:ASN:OD1	2.32	0.47
1:H:316:THR:HG22	1:H:317:ASN:N	2.29	0.47
1:H:339:ARG:CA	1:I:58:LYS:HG3	2.45	0.47
1:H:360:PHE:N	1:H:361:PRO:HD3	2.22	0.47
1:H:403:GLU:CA	1:H:405:LYS:CG	2.86	0.47
1:H:421:LEU:CD2	1:H:439:ILE:HG23	2.45	0.47
1:H:423:LEU:N	1:H:423:LEU:CD1	2.76	0.47
1:H:437:GLU:HA	1:H:437:GLU:OE2	2.14	0.47
1:I:9:LEU:HD12	1:I:9:LEU:HA	1.72	0.47
1:I:9:LEU:HD21	1:I:38:VAL:HG11	1.97	0.47
1:I:24:THR:CG2	1:I:25:LYS:N	2.71	0.47
1:I:39:ASN:O	1:I:40:ALA:O	2.33	0.47
1:I:59:GLY:O	1:I:60:ILE:HD13	2.14	0.47
1:I:75:VAL:CG1	1:I:78:PRO:CD	2.71	0.47
1:I:105:ARG:HD3	1:I:109:LYS:HE2	1.97	0.47
1:I:226:ASN:HB3	1:I:227:THR:H	1.53	0.47
1:I:265:GLY:O	1:I:266:SER:C	2.58	0.47
1:I:268:MET:H	1:I:362:ASP:HA	1.78	0.47
1:I:412:GLY:C	1:I:413:SER:OG	2.58	0.47
1:I:435:THR:HG21	1:I:437:GLU:CG	2.44	0.47
1:I:462:PHE:O	1:I:463:GLU:C	2.57	0.47
1:J:39:ASN:O	1:J:40:ALA:O	2.33	0.47
1:J:71:ALA:HB3	1:J:86:ILE:HD11	1.96	0.47
1:J:271:HIS:CD2	1:J:357:GLU:CG	2.98	0.47
1:J:298:ILE:O	1:J:302:ILE:CG1	2.63	0.47
1:J:304:HIS:O	1:J:308:ILE:CG1	2.53	0.47
1:K:39:ASN:HD22	1:K:42:PHE:HB3	1.80	0.47
1:K:57:TRP:CD1	1:K:58:LYS:H	2.21	0.47
1:K:58:LYS:HD3	1:K:59:GLY:CA	2.43	0.47
1:K:71:ALA:O	1:K:86:ILE:CG1	2.63	0.47
1:K:208:ALA:HB2	1:L:33:ILE:CD1	2.44	0.47
1:K:336:ALA:HA	1:K:345:ILE:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:433:VAL:O	1:K:434:PHE:CB	2.58	0.47
1:L:33:ILE:HD13	1:L:34:PRO:CD	2.42	0.47
1:L:59:GLY:O	1:L:60:ILE:HD13	2.14	0.47
1:L:67:LEU:H	1:L:87:ILE:HA	1.80	0.47
1:L:265:GLY:O	1:L:266:SER:C	2.58	0.47
1:L:272:MET:HE1	1:L:374:LEU:HB3	1.96	0.47
1:L:306:LYS:HD3	1:L:411:ALA:HA	1.95	0.47
1:L:306:LYS:O	1:L:307:ALA:C	2.56	0.47
1:L:336:ALA:HA	1:L:345:ILE:O	2.14	0.47
1:L:400:PRO:HB2	1:L:401:PRO:CD	2.43	0.47
1:L:437:GLU:OE2	1:L:437:GLU:CA	2.62	0.47
1:A:20:ARG:HG3	1:A:28:GLU:OE2	2.12	0.47
1:A:64:ASP:C	1:A:87:ILE:HG21	2.40	0.47
1:A:65:MET:O	1:A:67:LEU:CA	2.63	0.47
1:A:199:MET:HB3	1:A:204:LEU:CD1	2.45	0.47
1:A:212:GLU:HB3	1:A:213:VAL:H	1.61	0.47
1:A:264:ASN:O	1:A:265:GLY:O	2.32	0.47
1:B:33:ILE:HD13	1:B:34:PRO:CD	2.42	0.47
1:B:90:ASP:O	1:B:91:ILE:O	2.21	0.47
1:B:199:MET:HB3	1:B:204:LEU:CD1	2.45	0.47
1:B:400:PRO:HB2	1:B:401:PRO:CD	2.43	0.47
1:C:114:TYR:O	1:C:115:LEU:C	2.57	0.47
1:C:309:ASN:CB	1:C:313:ASN:HD22	2.26	0.47
1:D:57:TRP:CD1	1:D:58:LYS:CA	2.97	0.47
1:D:71:ALA:HB3	1:D:86:ILE:HD11	1.96	0.47
1:D:289:GLY:CA	1:D:354:ARG:HE	2.20	0.47
1:D:316:THR:HG22	1:D:317:ASN:N	2.30	0.47
1:D:336:ALA:HA	1:D:345:ILE:O	2.14	0.47
1:D:400:PRO:HB2	1:D:401:PRO:CD	2.43	0.47
1:D:421:LEU:CD2	1:D:439:ILE:HG23	2.45	0.47
1:E:58:LYS:HG3	1:F:339:ARG:CA	2.45	0.47
1:E:67:LEU:H	1:E:87:ILE:HA	1.80	0.47
1:E:75:VAL:CG1	1:E:78:PRO:CD	2.71	0.47
1:E:105:ARG:HD3	1:E:109:LYS:HE2	1.97	0.47
1:E:185:VAL:O	1:E:185:VAL:CG1	2.59	0.47
1:E:298:ILE:O	1:E:302:ILE:CG1	2.63	0.47
1:E:336:ALA:HA	1:E:345:ILE:O	2.14	0.47
1:E:462:PHE:O	1:E:463:GLU:C	2.57	0.47
1:F:271:HIS:CD2	1:F:357:GLU:CG	2.98	0.47
1:F:290:LEU:HD11	1:F:345:ILE:HG21	1.96	0.47
1:F:312:ALA:O	1:F:313:ASN:OD1	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:403:GLU:CA	1:F:405:LYS:CG	2.86	0.47
1:G:3:GLU:O	1:G:6:LEU:HB3	2.14	0.47
1:G:20:ARG:HG3	1:G:28:GLU:OE2	2.12	0.47
1:G:26:GLY:O	1:G:27:LYS:CG	2.56	0.47
1:G:105:ARG:HD3	1:G:109:LYS:HE2	1.97	0.47
1:G:168:ASN:HB3	1:H:138:ILE:O	2.14	0.47
1:G:199:MET:HB3	1:G:204:LEU:CD1	2.45	0.47
1:G:212:GLU:HB3	1:G:213:VAL:H	1.61	0.47
1:G:281:LEU:CD2	1:G:293:GLN:HE21	2.28	0.47
1:H:5:VAL:HG11	1:H:43:PHE:HZ	1.76	0.47
1:H:199:MET:CB	1:H:204:LEU:HD12	2.44	0.47
1:H:295:LEU:HB3	1:H:388:PRO:CG	2.45	0.47
1:H:313:ASN:N	1:H:314:PRO:HD3	2.29	0.47
1:L:325:GLY:C	1:L:326:TYR:CD2	2.91	0.47
1:L:338:ASN:C	1:L:339:ARG:O	2.58	0.47
1:L:390:GLU:HB3	1:L:391:PRO:CD	2.45	0.47
1:L:462:PHE:O	1:L:463:GLU:C	2.57	0.47
1:A:435:THR:HG21	1:A:437:GLU:CG	2.44	0.47
1:B:33:ILE:CD1	1:C:208:ALA:HB2	2.44	0.47
1:B:59:GLY:O	1:B:60:ILE:HD13	2.14	0.47
1:B:272:MET:HE1	1:B:374:LEU:HB3	1.96	0.47
1:B:338:ASN:C	1:B:339:ARG:O	2.58	0.47
1:B:461:GLU:HG2	1:H:316:THR:HB	1.97	0.47
1:C:9:LEU:HD12	1:C:9:LEU:HA	1.72	0.47
1:D:58:LYS:N	1:E:339:ARG:NH2	2.63	0.47
1:D:271:HIS:CD2	1:D:357:GLU:CG	2.98	0.47
1:E:9:LEU:HD12	1:E:9:LEU:HA	1.72	0.47
1:E:57:TRP:CD1	1:E:58:LYS:CA	2.97	0.47
1:E:316:THR:HG22	1:E:317:ASN:N	2.29	0.47
1:F:5:VAL:HG11	1:F:43:PHE:HZ	1.76	0.47
1:F:105:ARG:HD3	1:F:109:LYS:HE2	1.97	0.47
1:G:17:VAL:CG1	1:G:33:ILE:HB	2.45	0.47
1:G:264:ASN:O	1:G:265:GLY:O	2.32	0.47
1:G:271:HIS:CD2	1:G:357:GLU:CG	2.98	0.47
1:G:435:THR:HG21	1:G:437:GLU:CG	2.44	0.47
1:H:71:ALA:HB3	1:H:86:ILE:HD11	1.96	0.47
1:H:168:ASN:HB3	1:I:138:ILE:O	2.14	0.47
1:H:290:LEU:HD11	1:H:345:ILE:HG21	1.96	0.47
1:I:57:TRP:CD1	1:I:58:LYS:CA	2.97	0.47
1:I:272:MET:HE1	1:I:374:LEU:HB3	1.96	0.47
1:I:284:GLY:C	1:I:290:LEU:O	2.58	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:298:ILE:O	1:I:302:ILE:CG1	2.63	0.47
1:I:437:GLU:OE2	1:I:437:GLU:CA	2.62	0.47
1:J:16:PHE:HD1	1:J:79:PHE:CE1	2.27	0.47
1:J:57:TRP:CD1	1:J:58:LYS:CA	2.97	0.47
1:J:105:ARG:HD3	1:J:109:LYS:HE2	1.97	0.47
1:J:180:PHE:CB	1:K:30:HIS:O	2.42	0.47
1:J:336:ALA:HA	1:J:345:ILE:O	2.15	0.47
1:K:114:TYR:O	1:K:115:LEU:C	2.57	0.47
1:K:118:THR:OG1	1:K:120:ILE:CG1	2.58	0.47
1:K:199:MET:HB3	1:K:204:LEU:CD1	2.45	0.47
1:K:268:MET:H	1:K:362:ASP:HA	1.79	0.47
1:K:274:LEU:O	1:K:281:LEU:CD1	2.62	0.47
1:K:309:ASN:CB	1:K:313:ASN:HD22	2.26	0.47
1:K:390:GLU:HB3	1:K:391:PRO:CD	2.45	0.47
1:L:73:THR:O	1:L:84:THR:N	2.45	0.47
1:L:199:MET:HB3	1:L:204:LEU:CD1	2.45	0.47
1:A:54:ILE:HG12	1:A:54:ILE:O	2.16	0.47
1:A:114:TYR:O	1:A:115:LEU:C	2.57	0.47
1:A:128:PRO:HD3	1:A:231:LYS:HG2	1.97	0.47
1:A:366:ASN:OD1	1:A:366:ASN:N	2.42	0.47
1:B:89:CYS:HB3	1:B:90:ASP:H	1.44	0.47
1:B:337:ARG:CG	1:B:338:ASN:H	2.27	0.47
1:B:462:PHE:O	1:B:463:GLU:C	2.57	0.47
1:C:268:MET:H	1:C:362:ASP:HA	1.79	0.47
1:C:274:LEU:O	1:C:281:LEU:CD1	2.62	0.47
1:C:336:ALA:HA	1:C:345:ILE:O	2.15	0.47
1:D:58:LYS:HG3	1:E:339:ARG:CA	2.45	0.47
1:D:304:HIS:O	1:D:308:ILE:CG1	2.53	0.47
1:E:114:TYR:O	1:E:115:LEU:C	2.57	0.47
1:E:268:MET:H	1:E:362:ASP:HA	1.79	0.47
1:E:281:LEU:CD2	1:E:293:GLN:HE21	2.28	0.47
1:E:284:GLY:C	1:E:290:LEU:O	2.58	0.47
1:E:421:LEU:CD2	1:E:439:ILE:HG23	2.45	0.47
1:E:437:GLU:OE2	1:E:437:GLU:CA	2.62	0.47
1:F:199:MET:HB3	1:F:204:LEU:CD1	2.45	0.47
1:F:265:GLY:O	1:F:266:SER:C	2.58	0.47
1:F:316:THR:HB	1:L:461:GLU:HG2	1.97	0.47
1:F:337:ARG:CG	1:F:338:ASN:H	2.27	0.47
1:G:43:PHE:CE2	1:G:69:PRO:HB3	2.44	0.47
1:G:64:ASP:C	1:G:87:ILE:HG21	2.40	0.47
1:G:114:TYR:O	1:G:115:LEU:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:128:PRO:HD3	1:G:231:LYS:HG2	1.97	0.47
1:G:265:GLY:O	1:G:266:SER:C	2.58	0.47
1:H:272:MET:HE1	1:H:374:LEU:HB3	1.96	0.47
1:H:284:GLY:C	1:H:290:LEU:O	2.58	0.47
1:H:437:GLU:OE2	1:H:437:GLU:CA	2.62	0.47
1:I:67:LEU:H	1:I:87:ILE:HA	1.80	0.47
1:I:89:CYS:HB3	1:I:103:ASP:OD2	2.07	0.47
1:I:114:TYR:O	1:I:115:LEU:C	2.57	0.47
1:I:212:GLU:HB3	1:I:213:VAL:H	1.61	0.47
1:I:316:THR:HG22	1:I:317:ASN:N	2.29	0.47
1:I:339:ARG:CA	1:J:58:LYS:HG3	2.45	0.47
1:I:421:LEU:CD2	1:I:439:ILE:HG23	2.45	0.47
1:J:169:LYS:HA	1:K:252:THR:OG1	2.15	0.47
1:J:400:PRO:HB2	1:J:401:PRO:CD	2.43	0.47
1:K:9:LEU:HD12	1:K:9:LEU:HA	1.72	0.47
1:K:57:TRP:CD1	1:K:58:LYS:CA	2.97	0.47
1:K:169:LYS:C	1:L:252:THR:OG1	2.58	0.47
1:K:437:GLU:CA	1:K:437:GLU:OE2	2.62	0.47
1:L:308:ILE:HG12	1:L:308:ILE:H	1.37	0.47
1:L:421:LEU:CD2	1:L:443:ILE:HD11	2.38	0.47
1:A:3:GLU:O	1:A:6:LEU:HB3	2.14	0.46
1:A:17:VAL:CG1	1:A:33:ILE:HB	2.46	0.46
1:A:265:GLY:O	1:A:266:SER:C	2.58	0.46
1:A:271:HIS:CD2	1:A:357:GLU:CG	2.98	0.46
1:A:272:MET:HE1	1:A:374:LEU:HB3	1.96	0.46
1:A:309:ASN:CB	1:A:313:ASN:HD22	2.26	0.46
1:A:339:ARG:CA	1:F:58:LYS:HG3	2.45	0.46
1:A:351:PRO:HG2	1:A:352:LYS:H	1.79	0.46
1:B:39:ASN:O	1:B:40:ALA:O	2.33	0.46
1:B:252:THR:OG1	1:C:169:LYS:HA	2.15	0.46
1:B:325:GLY:C	1:B:326:TYR:CD2	2.91	0.46
1:C:27:LYS:HZ2	1:C:239:LYS:NZ	2.01	0.46
1:C:57:TRP:CD1	1:C:58:LYS:CA	2.97	0.46
1:C:252:THR:OG1	1:D:169:LYS:HA	2.15	0.46
1:C:298:ILE:O	1:C:302:ILE:CG1	2.63	0.46
1:C:316:THR:HG22	1:C:317:ASN:N	2.29	0.46
1:C:437:GLU:CA	1:C:437:GLU:OE2	2.62	0.46
1:D:16:PHE:HD1	1:D:79:PHE:CE1	2.27	0.46
1:D:252:THR:OG1	1:E:169:LYS:HA	2.15	0.46
1:D:281:LEU:CD2	1:D:293:GLN:HE21	2.28	0.46
1:D:337:ARG:CG	1:D:338:ASN:H	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:380:ASP:CA	1:D:383:LYS:HB2	2.45	0.46
1:D:416:GLU:O	1:D:419:ASN:HB2	2.15	0.46
1:E:9:LEU:HD21	1:E:38:VAL:HG11	1.97	0.46
1:E:128:PRO:HD3	1:E:231:LYS:HG2	1.97	0.46
1:E:138:ILE:O	1:F:168:ASN:HB3	2.14	0.46
1:E:272:MET:HE1	1:E:374:LEU:HB3	1.96	0.46
1:E:449:GLU:OE1	1:K:465:TYR:HE2	1.98	0.46
1:F:3:GLU:O	1:F:6:LEU:HB3	2.14	0.46
1:F:148:HIS:HB2	1:L:148:HIS:CB	2.45	0.46
1:F:281:LEU:CD2	1:F:293:GLN:HE21	2.28	0.46
1:F:284:GLY:C	1:F:290:LEU:O	2.58	0.46
1:F:338:ASN:C	1:F:339:ARG:O	2.58	0.46
1:F:437:GLU:OE2	1:F:437:GLU:CA	2.62	0.46
1:G:54:ILE:HG12	1:G:54:ILE:O	2.16	0.46
1:G:272:MET:HE1	1:G:374:LEU:HB3	1.96	0.46
1:G:309:ASN:CB	1:G:313:ASN:HD22	2.26	0.46
1:G:421:LEU:CD2	1:G:439:ILE:HG23	2.45	0.46
1:H:265:GLY:O	1:H:266:SER:C	2.58	0.46
1:H:281:LEU:CD2	1:H:293:GLN:HE21	2.28	0.46
1:H:338:ASN:C	1:H:339:ARG:O	2.58	0.46
1:I:3:GLU:O	1:I:6:LEU:HB3	2.14	0.46
1:I:71:ALA:HB3	1:I:86:ILE:HD11	1.96	0.46
1:I:128:PRO:HD3	1:I:231:LYS:HG2	1.97	0.46
1:I:281:LEU:CD2	1:I:293:GLN:HE21	2.29	0.46
1:I:339:ARG:NH2	1:J:58:LYS:N	2.64	0.46
1:J:339:ARG:NH2	1:K:58:LYS:N	2.63	0.46
1:J:339:ARG:CA	1:K:58:LYS:HG3	2.45	0.46
1:J:416:GLU:O	1:J:419:ASN:HB2	2.15	0.46
1:K:5:VAL:HG11	1:K:43:PHE:HZ	1.76	0.46
1:K:15:LYS:N	1:K:15:LYS:CD	2.67	0.46
1:K:169:LYS:HA	1:L:252:THR:OG1	2.15	0.46
1:K:271:HIS:CD2	1:K:357:GLU:CG	2.98	0.46
1:K:400:PRO:HB2	1:K:401:PRO:CD	2.43	0.46
1:L:274:LEU:O	1:L:281:LEU:CD1	2.62	0.46
1:L:281:LEU:CD2	1:L:293:GLN:HE21	2.28	0.46
1:L:284:GLY:C	1:L:290:LEU:O	2.58	0.46
1:A:168:ASN:HB3	1:F:138:ILE:O	2.14	0.46
1:A:281:LEU:CD2	1:A:293:GLN:HE21	2.28	0.46
1:A:284:GLY:C	1:A:290:LEU:O	2.58	0.46
1:A:380:ASP:CA	1:A:383:LYS:HB2	2.46	0.46
1:A:421:LEU:CD2	1:A:439:ILE:HG23	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:9:LEU:HD21	1:B:38:VAL:HG11	1.97	0.46
1:B:148:HIS:CB	1:H:148:HIS:HB2	2.46	0.46
1:B:252:THR:OG1	1:C:169:LYS:C	2.59	0.46
1:B:271:HIS:CD2	1:B:357:GLU:CG	2.98	0.46
1:B:274:LEU:O	1:B:281:LEU:CD1	2.62	0.46
1:B:284:GLY:C	1:B:290:LEU:O	2.58	0.46
1:B:416:GLU:O	1:B:419:ASN:HB2	2.15	0.46
1:C:15:LYS:N	1:C:15:LYS:CD	2.67	0.46
1:C:27:LYS:HZ2	1:C:239:LYS:CE	2.27	0.46
1:C:271:HIS:CD2	1:C:357:GLU:CG	2.98	0.46
1:C:272:MET:HE1	1:C:374:LEU:HB3	1.96	0.46
1:C:284:GLY:C	1:C:290:LEU:O	2.58	0.46
1:C:308:ILE:HG12	1:C:308:ILE:H	1.37	0.46
1:C:392:MET:HA	1:C:392:MET:HE2	1.95	0.46
1:C:400:PRO:HB2	1:C:401:PRO:CD	2.43	0.46
1:C:461:GLU:CD	1:I:316:THR:HG21	2.39	0.46
1:D:65:MET:O	1:D:67:LEU:CA	2.63	0.46
1:D:68:MET:CA	1:D:70:ASP:OD2	2.64	0.46
1:D:75:VAL:HG22	1:D:84:THR:HG21	1.97	0.46
1:D:284:GLY:C	1:D:290:LEU:O	2.58	0.46
1:D:461:GLU:HG2	1:J:316:THR:HB	1.97	0.46
1:E:3:GLU:O	1:E:6:LEU:HB3	2.14	0.46
1:E:71:ALA:HB3	1:E:86:ILE:HD11	1.96	0.46
1:E:252:THR:OG1	1:F:169:LYS:C	2.59	0.46
1:F:16:PHE:HD1	1:F:79:PHE:CE1	2.27	0.46
1:F:226:ASN:HB3	1:F:227:THR:H	1.53	0.46
1:F:271:HIS:CD2	1:F:357:GLU:CB	2.99	0.46
1:F:336:ALA:HA	1:F:345:ILE:O	2.14	0.46
1:G:85:LEU:HD12	1:G:86:ILE:HD12	1.98	0.46
1:G:271:HIS:CD2	1:G:357:GLU:CB	2.99	0.46
1:G:284:GLY:C	1:G:290:LEU:O	2.58	0.46
1:G:339:ARG:CA	1:H:58:LYS:HG3	2.45	0.46
1:H:169:LYS:C	1:I:252:THR:OG1	2.58	0.46
1:H:298:ILE:O	1:H:302:ILE:CG1	2.63	0.46
1:H:337:ARG:CG	1:H:338:ASN:H	2.28	0.46
1:J:380:ASP:CA	1:J:383:LYS:HB2	2.46	0.46
1:K:68:MET:CA	1:K:70:ASP:OD2	2.64	0.46
1:K:199:MET:CB	1:K:204:LEU:HD12	2.44	0.46
1:K:298:ILE:O	1:K:302:ILE:CG1	2.63	0.46
1:K:339:ARG:NH2	1:L:58:LYS:N	2.63	0.46
1:K:397:TYR:O	1:K:397:TYR:HD2	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:9:LEU:HD21	1:L:38:VAL:HG11	1.97	0.46
1:L:15:LYS:N	1:L:15:LYS:CD	2.67	0.46
1:L:39:ASN:O	1:L:40:ALA:O	2.33	0.46
1:L:54:ILE:HG12	1:L:54:ILE:O	2.15	0.46
1:L:128:PRO:HD3	1:L:231:LYS:HG2	1.97	0.46
1:L:271:HIS:CD2	1:L:357:GLU:CG	2.98	0.46
1:L:295:LEU:HB3	1:L:388:PRO:CG	2.44	0.46
1:A:24:THR:CG2	1:A:25:LYS:N	2.71	0.46
1:A:67:LEU:H	1:A:87:ILE:HA	1.80	0.46
1:A:169:LYS:C	1:F:252:THR:OG1	2.59	0.46
1:A:271:HIS:CD2	1:A:357:GLU:CB	2.99	0.46
1:A:338:ASN:C	1:A:339:ARG:O	2.58	0.46
1:B:15:LYS:N	1:B:15:LYS:CD	2.67	0.46
1:B:54:ILE:HG12	1:B:54:ILE:O	2.15	0.46
1:B:58:LYS:N	1:C:339:ARG:NH2	2.63	0.46
1:B:281:LEU:CD2	1:B:293:GLN:HE21	2.28	0.46
1:B:316:THR:HG22	1:B:317:ASN:N	2.30	0.46
1:B:421:LEU:CD2	1:B:443:ILE:HD11	2.38	0.46
1:C:58:LYS:HG3	1:D:339:ARG:CA	2.45	0.46
1:C:58:LYS:N	1:D:339:ARG:NH2	2.64	0.46
1:C:68:MET:CA	1:C:70:ASP:OD2	2.64	0.46
1:C:199:MET:HB3	1:C:204:LEU:CD1	2.46	0.46
1:C:199:MET:CB	1:C:204:LEU:HD12	2.44	0.46
1:C:416:GLU:O	1:C:419:ASN:HB2	2.15	0.46
1:C:461:GLU:HG2	1:I:316:THR:HB	1.97	0.46
1:D:64:ASP:C	1:D:87:ILE:HG21	2.40	0.46
1:D:71:ALA:O	1:D:86:ILE:CG1	2.63	0.46
1:E:252:THR:OG1	1:F:169:LYS:HA	2.15	0.46
1:E:325:GLY:C	1:E:326:TYR:CD2	2.90	0.46
1:E:379:LEU:O	1:E:380:ASP:C	2.55	0.46
1:F:65:MET:O	1:F:67:LEU:CA	2.63	0.46
1:F:298:ILE:O	1:F:302:ILE:CG1	2.63	0.46
1:F:412:GLY:C	1:F:413:SER:OG	2.58	0.46
1:G:169:LYS:C	1:H:252:THR:OG1	2.59	0.46
1:G:338:ASN:C	1:G:339:ARG:O	2.58	0.46
1:G:380:ASP:CA	1:G:383:LYS:HB2	2.46	0.46
1:H:67:LEU:H	1:H:87:ILE:HA	1.79	0.46
1:H:169:LYS:HA	1:I:252:THR:OG1	2.15	0.46
1:H:271:HIS:CD2	1:H:357:GLU:CB	2.99	0.46
1:H:339:ARG:NH2	1:I:58:LYS:N	2.64	0.46
1:I:185:VAL:O	1:I:185:VAL:CG1	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:325:GLY:C	1:I:326:TYR:CD2	2.90	0.46
1:J:64:ASP:C	1:J:87:ILE:HG21	2.40	0.46
1:J:75:VAL:HG22	1:J:84:THR:HG21	1.97	0.46
1:J:281:LEU:CD2	1:J:293:GLN:HE21	2.29	0.46
1:J:284:GLY:C	1:J:290:LEU:O	2.58	0.46
1:J:390:GLU:CB	1:J:391:PRO:CD	2.90	0.46
1:K:27:LYS:HZ2	1:K:239:LYS:CE	2.27	0.46
1:K:281:LEU:CD2	1:K:293:GLN:HE21	2.28	0.46
1:K:284:GLY:C	1:K:290:LEU:O	2.58	0.46
1:K:392:MET:HA	1:K:392:MET:HE2	1.95	0.46
1:K:416:GLU:O	1:K:419:ASN:HB2	2.15	0.46
1:L:17:VAL:CG1	1:L:33:ILE:HB	2.46	0.46
1:L:105:ARG:HD3	1:L:109:LYS:HE2	1.97	0.46
1:L:316:THR:HG22	1:L:317:ASN:N	2.29	0.46
1:L:416:GLU:O	1:L:419:ASN:HB2	2.15	0.46
1:A:27:LYS:HZ3	1:A:239:LYS:HZ1	0.46	0.46
1:A:71:ALA:O	1:A:86:ILE:CG1	2.63	0.46
1:A:85:LEU:HD12	1:A:86:ILE:HD12	1.98	0.46
1:A:169:LYS:HA	1:F:252:THR:OG1	2.15	0.46
1:A:252:THR:OG1	1:B:169:LYS:C	2.58	0.46
1:B:17:VAL:CG1	1:B:33:ILE:HB	2.46	0.46
1:B:20:ARG:HG3	1:B:28:GLU:OE2	2.12	0.46
1:B:105:ARG:HD3	1:B:109:LYS:HE2	1.97	0.46
1:B:119:GLY:C	1:B:121:ALA:H	2.23	0.46
1:B:128:PRO:HD3	1:B:231:LYS:HG2	1.97	0.46
1:C:75:VAL:HG22	1:C:84:THR:HG21	1.98	0.46
1:C:465:TYR:HE2	1:I:449:GLU:OE1	1.99	0.46
1:D:128:PRO:HD3	1:D:231:LYS:HG2	1.97	0.46
1:D:390:GLU:CB	1:D:391:PRO:CD	2.90	0.46
1:D:461:GLU:CD	1:J:316:THR:HG21	2.39	0.46
1:E:54:ILE:HG12	1:E:54:ILE:O	2.15	0.46
1:E:58:LYS:N	1:F:339:ARG:NH2	2.64	0.46
1:E:316:THR:HG21	1:K:461:GLU:CD	2.39	0.46
1:E:316:THR:HB	1:K:461:GLU:HG2	1.97	0.46
1:E:416:GLU:O	1:E:419:ASN:HB2	2.16	0.46
1:E:437:GLU:OE2	1:E:437:GLU:HA	2.15	0.46
1:F:67:LEU:H	1:F:87:ILE:HA	1.80	0.46
1:F:75:VAL:CG2	1:F:84:THR:CB	2.90	0.46
1:F:272:MET:HE1	1:F:374:LEU:HB3	1.96	0.46
1:G:290:LEU:HD11	1:G:345:ILE:HG21	1.96	0.46
1:H:3:GLU:O	1:H:6:LEU:HB3	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:65:MET:O	1:H:67:LEU:CA	2.63	0.46
1:H:119:GLY:C	1:H:121:ALA:H	2.22	0.46
1:H:336:ALA:HA	1:H:345:ILE:O	2.14	0.46
1:H:412:GLY:C	1:H:413:SER:OG	2.58	0.46
1:I:169:LYS:HA	1:J:252:THR:OG1	2.15	0.46
1:I:421:LEU:CD2	1:I:443:ILE:HD11	2.38	0.46
1:I:437:GLU:OE2	1:I:437:GLU:HA	2.14	0.46
1:J:65:MET:O	1:J:67:LEU:CA	2.63	0.46
1:J:68:MET:CA	1:J:70:ASP:OD2	2.64	0.46
1:J:71:ALA:O	1:J:86:ILE:CG1	2.63	0.46
1:J:128:PRO:HD3	1:J:231:LYS:HG2	1.97	0.46
1:J:337:ARG:CG	1:J:338:ASN:H	2.28	0.46
1:J:407:ILE:HA	1:J:408:PRO:HD3	1.71	0.46
1:K:272:MET:HE1	1:K:374:LEU:HB3	1.96	0.46
1:L:75:VAL:HG22	1:L:84:THR:HG21	1.98	0.46
1:L:119:GLY:C	1:L:121:ALA:H	2.23	0.46
1:L:337:ARG:CG	1:L:338:ASN:H	2.28	0.46
1:L:392:MET:HA	1:L:392:MET:HE2	1.95	0.46
1:A:89:CYS:C	1:A:91:ILE:H	2.20	0.46
1:A:412:GLY:C	1:A:413:SER:OG	2.58	0.46
1:B:71:ALA:HB3	1:B:86:ILE:HD11	1.96	0.46
1:B:295:LEU:HB3	1:B:388:PRO:CG	2.45	0.46
1:B:308:ILE:HG12	1:B:308:ILE:H	1.37	0.46
1:B:380:ASP:CA	1:B:383:LYS:HB2	2.45	0.46
1:C:5:VAL:HG11	1:C:43:PHE:HZ	1.76	0.46
1:C:148:HIS:CB	1:I:148:HIS:HB2	2.46	0.46
1:C:226:ASN:HB3	1:C:227:THR:H	1.53	0.46
1:C:281:LEU:CD2	1:C:293:GLN:HE21	2.28	0.46
1:C:397:TYR:O	1:C:397:TYR:HD2	1.99	0.46
1:D:199:MET:CE	1:D:238:TYR:CD2	2.99	0.46
1:D:226:ASN:HB3	1:D:227:THR:H	1.53	0.46
1:D:316:THR:HB	1:J:461:GLU:HG2	1.97	0.46
1:E:64:ASP:C	1:E:87:ILE:HG21	2.40	0.46
1:E:65:MET:O	1:E:67:LEU:CA	2.63	0.46
1:E:148:HIS:HB2	1:K:148:HIS:CB	2.46	0.46
1:F:54:ILE:HG12	1:F:54:ILE:O	2.15	0.46
1:F:199:MET:CE	1:F:238:TYR:CD2	2.99	0.46
1:G:24:THR:CG2	1:G:25:LYS:N	2.71	0.46
1:G:71:ALA:O	1:G:86:ILE:CG1	2.63	0.46
1:G:252:THR:OG1	1:L:169:LYS:C	2.58	0.46
1:G:462:PHE:O	1:G:463:GLU:C	2.57	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:199:MET:CE	1:H:238:TYR:CD2	2.99	0.46
1:I:81:ALA:C	1:I:82:ASP:OD1	2.59	0.46
1:I:337:ARG:C	1:J:58:LYS:HB3	2.41	0.46
1:I:416:GLU:O	1:I:419:ASN:HB2	2.16	0.46
1:J:9:LEU:HD12	1:J:14:VAL:CG2	2.38	0.46
1:J:290:LEU:HD11	1:J:345:ILE:HG21	1.96	0.46
1:J:351:PRO:HG2	1:J:352:LYS:H	1.79	0.46
1:K:17:VAL:CG1	1:K:33:ILE:HB	2.45	0.46
1:K:39:ASN:O	1:K:40:ALA:O	2.33	0.46
1:K:75:VAL:HG22	1:K:84:THR:HG21	1.98	0.46
1:K:110:ARG:O	1:K:114:TYR:N	2.43	0.46
1:K:316:THR:HG22	1:K:317:ASN:N	2.30	0.46
1:K:338:ASN:C	1:K:339:ARG:O	2.58	0.46
1:K:339:ARG:CA	1:L:58:LYS:HG3	2.45	0.46
1:L:271:HIS:CD2	1:L:357:GLU:CB	2.99	0.46
1:L:309:ASN:CB	1:L:313:ASN:HD22	2.26	0.46
1:L:380:ASP:CA	1:L:383:LYS:HB2	2.45	0.46
1:L:397:TYR:O	1:L:397:TYR:HD2	1.99	0.46
1:A:148:HIS:CB	1:G:148:HIS:HB2	2.46	0.46
1:A:148:HIS:HB2	1:G:148:HIS:CB	2.46	0.46
1:A:290:LEU:HD11	1:A:345:ILE:HG21	1.96	0.46
1:B:58:LYS:HG3	1:C:339:ARG:CA	2.45	0.46
1:B:298:ILE:O	1:B:302:ILE:CG1	2.63	0.46
1:B:397:TYR:O	1:B:397:TYR:HD2	1.99	0.46
1:C:39:ASN:O	1:C:40:ALA:O	2.33	0.46
1:C:148:HIS:HB2	1:I:148:HIS:CB	2.45	0.46
1:C:446:ARG:N	1:C:446:ARG:CD	2.74	0.46
1:D:17:VAL:CG1	1:D:33:ILE:HB	2.46	0.46
1:D:81:ALA:C	1:D:82:ASP:OD1	2.59	0.46
1:D:199:MET:C	1:D:204:LEU:HD12	2.41	0.46
1:E:81:ALA:C	1:E:82:ASP:OD1	2.59	0.46
1:E:199:MET:CE	1:E:238:TYR:CD2	2.99	0.46
1:E:421:LEU:CD2	1:E:443:ILE:HD11	2.38	0.46
1:F:339:ARG:O	1:F:341:ALA:N	2.42	0.46
1:F:403:GLU:N	1:F:405:LYS:HG2	2.29	0.46
1:F:429:LYS:HA	1:F:434:PHE:O	2.16	0.46
1:G:64:ASP:O	1:G:66:VAL:N	2.47	0.46
1:G:67:LEU:H	1:G:87:ILE:HA	1.80	0.46
1:G:89:CYS:C	1:G:91:ILE:H	2.20	0.46
1:G:137:ASP:OD2	1:G:139:ARG:HD3	2.16	0.46
1:G:169:LYS:HA	1:H:252:THR:OG1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:429:LYS:HA	1:G:434:PHE:O	2.16	0.46
1:H:17:VAL:CG1	1:H:33:ILE:HB	2.46	0.46
1:H:75:VAL:CG2	1:H:84:THR:CB	2.90	0.46
1:I:54:ILE:HG12	1:I:54:ILE:O	2.16	0.46
1:I:64:ASP:C	1:I:87:ILE:HG21	2.40	0.46
1:I:65:MET:O	1:I:67:LEU:CA	2.63	0.46
1:I:169:LYS:C	1:J:252:THR:OG1	2.59	0.46
1:I:199:MET:CE	1:I:238:TYR:CD2	2.99	0.46
1:I:290:LEU:HD11	1:I:345:ILE:HG21	1.96	0.46
1:J:271:HIS:CD2	1:J:357:GLU:CB	2.99	0.46
1:K:54:ILE:HG12	1:K:54:ILE:O	2.15	0.46
1:L:38:VAL:O	1:L:39:ASN:CB	2.56	0.46
1:L:298:ILE:O	1:L:302:ILE:CG1	2.63	0.46
1:L:318:SER:OG	1:L:362:ASP:OD2	2.32	0.46
1:A:39:ASN:O	1:A:40:ALA:O	2.33	0.46
1:A:58:LYS:N	1:B:339:ARG:NH2	2.63	0.46
1:A:298:ILE:O	1:A:302:ILE:CG1	2.63	0.46
1:A:316:THR:HG22	1:A:317:ASN:N	2.29	0.46
1:A:339:ARG:NH2	1:F:58:LYS:N	2.63	0.46
1:A:462:PHE:O	1:A:463:GLU:C	2.57	0.46
1:B:38:VAL:O	1:B:39:ASN:CB	2.56	0.46
1:B:64:ASP:C	1:B:87:ILE:HG21	2.40	0.46
1:B:65:MET:O	1:B:67:LEU:CA	2.63	0.46
1:B:75:VAL:HG22	1:B:84:THR:HG21	1.98	0.46
1:B:271:HIS:CD2	1:B:357:GLU:CB	2.99	0.46
1:B:309:ASN:CB	1:B:313:ASN:HD22	2.27	0.46
1:B:318:SER:OG	1:B:362:ASP:OD2	2.32	0.46
1:B:392:MET:HA	1:B:392:MET:HE2	1.95	0.46
1:C:64:ASP:C	1:C:87:ILE:HG21	2.40	0.46
1:C:65:MET:O	1:C:67:LEU:CA	2.63	0.46
1:C:93:GLU:HG3	1:C:94:PRO:HD3	1.93	0.46
1:C:315:THR:CB	1:I:465:TYR:HD2	2.02	0.46
1:C:338:ASN:C	1:C:339:ARG:O	2.58	0.46
1:D:148:HIS:HB2	1:J:148:HIS:CB	2.45	0.46
1:D:199:MET:HB3	1:D:204:LEU:CD1	2.45	0.46
1:D:271:HIS:CD2	1:D:357:GLU:CB	2.99	0.46
1:D:351:PRO:HG2	1:D:352:LYS:H	1.79	0.46
1:D:401:PRO:C	1:D:403:GLU:N	2.69	0.46
1:E:290:LEU:HD11	1:E:345:ILE:HG21	1.97	0.46
1:F:17:VAL:CG1	1:F:33:ILE:HB	2.46	0.46
1:F:91:ILE:HG23	1:F:92:LEU:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:119:GLY:C	1:F:121:ALA:H	2.23	0.46
1:F:392:MET:HA	1:F:392:MET:HE2	1.95	0.46
1:G:39:ASN:O	1:G:40:ALA:O	2.33	0.46
1:G:58:LYS:N	1:L:339:ARG:NH2	2.63	0.46
1:G:298:ILE:O	1:G:302:ILE:CG1	2.63	0.46
1:G:412:GLY:C	1:G:413:SER:OG	2.58	0.46
1:H:54:ILE:HG12	1:H:54:ILE:O	2.16	0.46
1:H:339:ARG:O	1:H:341:ALA:N	2.42	0.46
1:H:416:GLU:O	1:H:419:ASN:HB2	2.15	0.46
1:I:380:ASP:CA	1:I:383:LYS:HB2	2.45	0.46
1:J:17:VAL:CG1	1:J:33:ILE:HB	2.46	0.46
1:J:81:ALA:C	1:J:82:ASP:OD1	2.59	0.46
1:J:89:CYS:HB3	1:J:90:ASP:H	1.44	0.46
1:J:399:LEU:O	1:J:400:PRO:C	2.59	0.46
1:J:401:PRO:C	1:J:403:GLU:N	2.69	0.46
1:K:64:ASP:C	1:K:87:ILE:HG21	2.40	0.46
1:K:67:LEU:HD12	1:K:68:MET:CG	2.26	0.46
1:L:64:ASP:C	1:L:87:ILE:HG21	2.40	0.46
1:L:68:MET:CA	1:L:70:ASP:OD2	2.64	0.46
1:L:71:ALA:HB3	1:L:86:ILE:HD11	1.96	0.46
1:L:296:TYR:HB3	1:L:382:ILE:N	2.31	0.46
1:A:64:ASP:O	1:A:66:VAL:N	2.47	0.46
1:A:137:ASP:OD2	1:A:139:ARG:HD3	2.16	0.46
1:A:199:MET:C	1:A:204:LEU:HD12	2.41	0.46
1:A:296:TYR:HB3	1:A:382:ILE:CA	2.46	0.46
1:A:318:SER:OG	1:A:362:ASP:OD2	2.32	0.46
1:A:429:LYS:HA	1:A:434:PHE:O	2.16	0.46
1:A:461:GLU:HG2	1:G:316:THR:HB	1.97	0.46
1:B:68:MET:CA	1:B:70:ASP:OD2	2.64	0.46
1:D:212:GLU:HB3	1:D:213:VAL:H	1.61	0.46
1:D:290:LEU:HD11	1:D:345:ILE:HG21	1.96	0.46
1:D:316:THR:HG21	1:J:461:GLU:CD	2.39	0.46
1:D:399:LEU:O	1:D:400:PRO:C	2.59	0.46
1:D:403:GLU:C	1:D:405:LYS:N	2.71	0.46
1:D:465:TYR:HD2	1:J:315:THR:CB	2.01	0.46
1:E:148:HIS:CB	1:K:148:HIS:HB2	2.46	0.46
1:E:337:ARG:CG	1:E:338:ASN:H	2.28	0.46
1:F:2:ALA:C	1:F:4:HIS:N	2.69	0.46
1:F:24:THR:CG2	1:F:25:LYS:N	2.71	0.46
1:F:64:ASP:C	1:F:87:ILE:HG21	2.40	0.46
1:G:68:MET:O	1:G:86:ILE:HD11	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:339:ARG:NH2	1:H:58:LYS:N	2.63	0.46
1:G:464:LEU:HD22	1:G:464:LEU:H	1.81	0.46
1:H:2:ALA:C	1:H:4:HIS:N	2.69	0.46
1:H:64:ASP:C	1:H:87:ILE:HG21	2.40	0.46
1:H:175:VAL:CA	1:H:215:THR:HG23	2.43	0.46
1:H:199:MET:HB3	1:H:204:LEU:CD1	2.46	0.46
1:H:403:GLU:N	1:H:405:LYS:HG2	2.30	0.46
1:H:429:LYS:HA	1:H:434:PHE:O	2.16	0.46
1:I:65:MET:C	1:I:65:MET:CE	2.76	0.46
1:I:271:HIS:CD2	1:I:357:GLU:CB	2.99	0.46
1:J:199:MET:CE	1:J:238:TYR:CD2	2.99	0.46
1:J:199:MET:C	1:J:204:LEU:HD12	2.41	0.46
1:J:226:ASN:HB3	1:J:227:THR:H	1.53	0.46
1:J:291:SER:O	1:J:294:ALA:N	2.49	0.46
1:J:296:TYR:HB3	1:J:382:ILE:CA	2.46	0.46
1:J:338:ASN:O	1:J:341:ALA:HB2	2.16	0.46
1:J:339:ARG:NH1	1:J:339:ARG:CA	2.79	0.46
1:J:403:GLU:C	1:J:405:LYS:N	2.71	0.46
1:J:437:GLU:OE2	1:J:437:GLU:HA	2.15	0.46
1:K:65:MET:O	1:K:67:LEU:CA	2.63	0.46
1:K:274:LEU:HD11	1:K:282:PHE:CE1	2.44	0.46
1:L:65:MET:O	1:L:67:LEU:CA	2.63	0.46
1:L:399:LEU:O	1:L:400:PRO:C	2.59	0.46
1:A:305:ALA:O	1:A:308:ILE:HG13	2.16	0.46
1:A:316:THR:HB	1:G:461:GLU:HG2	1.97	0.46
1:A:399:LEU:O	1:A:400:PRO:C	2.59	0.46
1:A:437:GLU:HB2	1:A:438:ALA:H	1.11	0.46
1:A:464:LEU:H	1:A:464:LEU:HD22	1.81	0.46
1:B:114:TYR:O	1:B:115:LEU:C	2.57	0.46
1:B:296:TYR:HB3	1:B:382:ILE:N	2.31	0.46
1:B:421:LEU:CD2	1:B:439:ILE:HG23	2.45	0.46
1:C:17:VAL:CG1	1:C:33:ILE:HB	2.46	0.46
1:C:54:ILE:HG12	1:C:54:ILE:O	2.16	0.46
1:C:58:LYS:HB3	1:D:337:ARG:C	2.41	0.46
1:C:252:THR:OG1	1:D:169:LYS:C	2.58	0.46
1:C:274:LEU:HD11	1:C:282:PHE:CE1	2.44	0.46
1:C:464:LEU:HD22	1:C:464:LEU:H	1.81	0.46
1:D:58:LYS:HB3	1:E:337:ARG:C	2.41	0.46
1:D:136:ASP:N	1:D:153:ASP:HB2	2.23	0.46
1:D:291:SER:O	1:D:294:ALA:N	2.49	0.46
1:D:412:GLY:C	1:D:413:SER:OG	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:437:GLU:OE2	1:D:437:GLU:HA	2.15	0.46
1:E:271:HIS:CD2	1:E:357:GLU:CB	2.99	0.46
1:E:296:TYR:HB3	1:E:382:ILE:CA	2.46	0.46
1:E:380:ASP:CA	1:E:383:LYS:HB2	2.45	0.46
1:F:351:PRO:HG2	1:F:352:LYS:H	1.79	0.46
1:F:397:TYR:O	1:F:397:TYR:HD2	1.98	0.46
1:F:416:GLU:O	1:F:419:ASN:HB2	2.16	0.46
1:F:461:GLU:HG2	1:L:316:THR:HB	1.97	0.46
1:G:75:VAL:HG22	1:G:84:THR:HG21	1.98	0.46
1:G:199:MET:C	1:G:204:LEU:HD12	2.41	0.46
1:G:296:TYR:HB3	1:G:382:ILE:CA	2.46	0.46
1:G:305:ALA:O	1:G:308:ILE:HG13	2.16	0.46
1:G:316:THR:HG22	1:G:317:ASN:N	2.29	0.46
1:G:318:SER:OG	1:G:362:ASP:OD2	2.32	0.46
1:H:351:PRO:HG2	1:H:352:LYS:H	1.79	0.46
1:I:17:VAL:CG1	1:I:33:ILE:HB	2.45	0.46
1:I:137:ASP:OD2	1:I:139:ARG:HD3	2.16	0.46
1:J:25:LYS:HA	1:J:25:LYS:HD2	1.66	0.46
1:J:212:GLU:HB3	1:J:213:VAL:H	1.61	0.46
1:J:237:ILE:O	1:J:238:TYR:C	2.59	0.46
1:K:271:HIS:CD2	1:K:357:GLU:CB	2.99	0.46
1:K:437:GLU:OE2	1:K:437:GLU:HA	2.15	0.46
1:K:446:ARG:N	1:K:446:ARG:CD	2.74	0.46
1:L:351:PRO:HG2	1:L:352:LYS:H	1.79	0.46
1:A:68:MET:O	1:A:86:ILE:HD11	2.16	0.46
1:A:75:VAL:HG22	1:A:84:THR:HG21	1.98	0.46
1:A:296:TYR:HB3	1:A:382:ILE:N	2.31	0.46
1:A:339:ARG:NH1	1:A:339:ARG:CA	2.79	0.46
1:A:377:ALA:O	1:A:379:LEU:N	2.49	0.46
1:A:383:LYS:CE	1:A:384:ASN:N	2.74	0.46
1:A:461:GLU:OE1	1:G:317:ASN:CA	2.64	0.46
1:A:466:TYR:CZ	1:G:252:THR:HG21	2.33	0.46
1:B:91:ILE:HG23	1:B:92:LEU:H	1.80	0.46
1:B:316:THR:HB	1:H:461:GLU:HG2	1.97	0.46
1:B:339:ARG:O	1:B:341:ALA:N	2.42	0.46
1:B:377:ALA:O	1:B:379:LEU:N	2.49	0.46
1:B:398:ASP:HB3	1:B:402:GLU:CD	2.41	0.46
1:C:26:GLY:O	1:C:27:LYS:CG	2.57	0.46
1:C:105:ARG:HD3	1:C:109:LYS:HE2	1.97	0.46
1:C:110:ARG:O	1:C:114:TYR:N	2.43	0.46
1:C:128:PRO:HD3	1:C:231:LYS:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:271:HIS:CD2	1:C:357:GLU:CB	2.99	0.46
1:C:339:ARG:O	1:C:341:ALA:N	2.42	0.46
1:D:9:LEU:HD12	1:D:14:VAL:CG2	2.38	0.46
1:D:120:ILE:CD1	1:D:382:ILE:CG2	2.94	0.46
1:D:148:HIS:CB	1:J:148:HIS:HB2	2.46	0.46
1:D:296:TYR:HB3	1:D:382:ILE:CA	2.46	0.46
1:D:315:THR:CB	1:J:465:TYR:HD2	2.01	0.46
1:D:338:ASN:O	1:D:341:ALA:HB2	2.16	0.46
1:D:339:ARG:NH1	1:D:339:ARG:CA	2.79	0.46
1:E:58:LYS:HB3	1:F:337:ARG:C	2.41	0.46
1:E:296:TYR:CD1	1:E:385:LYS:C	2.93	0.46
1:E:397:TYR:O	1:E:397:TYR:HD2	1.99	0.46
1:E:399:LEU:O	1:E:400:PRO:C	2.59	0.46
1:F:85:LEU:HD12	1:F:86:ILE:HD12	1.98	0.46
1:F:128:PRO:HD3	1:F:231:LYS:HG2	1.97	0.46
1:F:137:ASP:OD2	1:F:139:ARG:HD3	2.16	0.46
1:F:175:VAL:CA	1:F:215:THR:HG23	2.43	0.46
1:F:267:GLY:C	1:F:363:PRO:HD3	2.42	0.46
1:F:367:PRO:HB3	1:F:371:PHE:CE1	2.51	0.46
1:G:399:LEU:O	1:G:400:PRO:C	2.59	0.46
1:H:24:THR:CG2	1:H:25:LYS:N	2.71	0.46
1:H:81:ALA:C	1:H:82:ASP:OD1	2.59	0.46
1:H:91:ILE:HG23	1:H:92:LEU:H	1.81	0.46
1:H:226:ASN:HB3	1:H:227:THR:H	1.53	0.46
1:H:337:ARG:C	1:I:58:LYS:HB3	2.41	0.46
1:H:367:PRO:HB3	1:H:371:PHE:CE1	2.51	0.46
1:H:377:ALA:O	1:H:379:LEU:N	2.49	0.46
1:I:296:TYR:HB3	1:I:382:ILE:CA	2.46	0.46
1:I:296:TYR:CD1	1:I:385:LYS:C	2.93	0.46
1:J:136:ASP:N	1:J:153:ASP:HB2	2.23	0.46
1:J:169:LYS:C	1:K:252:THR:OG1	2.58	0.46
1:J:337:ARG:C	1:K:58:LYS:HB3	2.41	0.46
1:K:68:MET:O	1:K:86:ILE:HD11	2.16	0.46
1:K:93:GLU:OE1	1:K:93:GLU:CA	2.58	0.46
1:K:105:ARG:HD3	1:K:109:LYS:HE2	1.97	0.46
1:K:464:LEU:HD22	1:K:464:LEU:H	1.81	0.46
1:L:114:TYR:O	1:L:115:LEU:C	2.57	0.46
1:L:290:LEU:HD11	1:L:345:ILE:HG21	1.96	0.46
1:L:377:ALA:O	1:L:379:LEU:N	2.49	0.46
1:L:421:LEU:CD2	1:L:439:ILE:HG23	2.45	0.46
1:A:199:MET:CE	1:A:238:TYR:CD2	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:252:THR:OG1	1:B:169:LYS:HA	2.15	0.45
1:A:317:ASN:CA	1:G:461:GLU:OE1	2.64	0.45
1:A:367:PRO:HB3	1:A:371:PHE:CE1	2.51	0.45
1:B:399:LEU:O	1:B:400:PRO:C	2.59	0.45
1:C:68:MET:O	1:C:86:ILE:HD11	2.16	0.45
1:C:237:ILE:O	1:C:238:TYR:C	2.59	0.45
1:C:316:THR:HB	1:I:461:GLU:HG2	1.97	0.45
1:C:398:ASP:HB3	1:C:402:GLU:CD	2.42	0.45
1:D:237:ILE:O	1:D:238:TYR:C	2.59	0.45
1:D:397:TYR:O	1:D:397:TYR:HD2	1.99	0.45
1:D:399:LEU:HD23	1:D:402:GLU:CB	2.39	0.45
1:E:17:VAL:CG1	1:E:33:ILE:HB	2.45	0.45
1:E:377:ALA:O	1:E:379:LEU:N	2.49	0.45
1:E:383:LYS:CE	1:E:384:ASN:N	2.74	0.45
1:E:398:ASP:HB3	1:E:402:GLU:CD	2.41	0.45
1:E:403:GLU:N	1:E:405:LYS:HG2	2.29	0.45
1:F:68:MET:O	1:F:86:ILE:HD11	2.16	0.45
1:F:68:MET:CA	1:F:70:ASP:OD2	2.64	0.45
1:F:377:ALA:O	1:F:379:LEU:N	2.49	0.45
1:F:399:LEU:HD23	1:F:402:GLU:CB	2.39	0.45
1:G:296:TYR:HB3	1:G:382:ILE:N	2.31	0.45
1:G:339:ARG:NH1	1:G:339:ARG:CA	2.79	0.45
1:G:367:PRO:HB3	1:G:371:PHE:CE1	2.51	0.45
1:G:377:ALA:O	1:G:379:LEU:N	2.49	0.45
1:G:383:LYS:CE	1:G:384:ASN:N	2.74	0.45
1:H:68:MET:CA	1:H:70:ASP:OD2	2.64	0.45
1:H:137:ASP:OD2	1:H:139:ARG:HD3	2.16	0.45
1:H:267:GLY:C	1:H:363:PRO:HD3	2.42	0.45
1:I:13:GLU:O	1:I:14:VAL:HG13	2.16	0.45
1:I:64:ASP:O	1:I:66:VAL:N	2.47	0.45
1:I:397:TYR:O	1:I:397:TYR:HD2	1.99	0.45
1:I:399:LEU:O	1:I:400:PRO:C	2.59	0.45
1:J:54:ILE:HG12	1:J:54:ILE:O	2.16	0.45
1:J:68:MET:O	1:J:86:ILE:HD11	2.16	0.45
1:J:91:ILE:HG23	1:J:92:LEU:H	1.81	0.45
1:J:120:ILE:CD1	1:J:382:ILE:CG2	2.94	0.45
1:J:377:ALA:O	1:J:379:LEU:N	2.49	0.45
1:J:397:TYR:O	1:J:397:TYR:HD2	1.99	0.45
1:K:296:TYR:HB3	1:K:382:ILE:N	2.31	0.45
1:L:2:ALA:O	1:L:6:LEU:CD2	2.63	0.45
1:L:398:ASP:HB3	1:L:402:GLU:CD	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:58:LYS:HB3	1:B:337:ARG:C	2.41	0.45
1:B:2:ALA:O	1:B:6:LEU:CD2	2.63	0.45
1:B:58:LYS:HB3	1:C:337:ARG:C	2.41	0.45
1:B:148:HIS:HB2	1:H:148:HIS:CB	2.45	0.45
1:B:260:MET:HB3	1:H:144:ILE:O	2.17	0.45
1:B:290:LEU:HD11	1:B:345:ILE:HG21	1.96	0.45
1:C:93:GLU:OE1	1:C:93:GLU:CA	2.59	0.45
1:C:136:ASP:N	1:C:153:ASP:HB2	2.23	0.45
1:C:291:SER:O	1:C:294:ALA:N	2.49	0.45
1:C:296:TYR:HB3	1:C:382:ILE:N	2.31	0.45
1:D:68:MET:O	1:D:86:ILE:HD11	2.16	0.45
1:D:91:ILE:HG23	1:D:92:LEU:H	1.81	0.45
1:D:377:ALA:O	1:D:379:LEU:N	2.49	0.45
1:D:442:TYR:O	1:D:445:LEU:HB2	2.17	0.45
1:E:13:GLU:O	1:E:14:VAL:HG13	2.17	0.45
1:E:33:ILE:HD13	1:E:33:ILE:HA	1.75	0.45
1:E:64:ASP:O	1:E:66:VAL:N	2.47	0.45
1:E:68:MET:O	1:E:86:ILE:HD11	2.16	0.45
1:E:85:LEU:HD12	1:E:86:ILE:HD12	1.98	0.45
1:E:199:MET:HB3	1:E:204:LEU:CD1	2.45	0.45
1:E:461:GLU:HG2	1:K:316:THR:HB	1.97	0.45
1:F:387:HIS:HA	1:F:388:PRO:HD2	1.47	0.45
1:F:426:GLU:C	1:F:428:LEU:N	2.75	0.45
1:G:267:GLY:C	1:G:363:PRO:HD3	2.42	0.45
1:G:326:TYR:HD2	1:G:326:TYR:N	2.14	0.45
1:G:339:ARG:HH11	1:G:339:ARG:CA	2.29	0.45
1:H:68:MET:O	1:H:86:ILE:HD11	2.16	0.45
1:H:76:ILE:HD11	1:H:202:MET:HE1	0.65	0.45
1:H:199:MET:C	1:H:204:LEU:HD12	2.41	0.45
1:H:392:MET:HA	1:H:392:MET:HE2	1.95	0.45
1:H:397:TYR:O	1:H:397:TYR:HD2	1.99	0.45
1:I:119:GLY:C	1:I:121:ALA:H	2.23	0.45
1:I:286:LYS:HE3	1:I:292:GLU:H	1.81	0.45
1:I:377:ALA:O	1:I:379:LEU:N	2.50	0.45
1:I:398:ASP:HB3	1:I:402:GLU:CD	2.41	0.45
1:J:442:TYR:O	1:J:445:LEU:HB2	2.17	0.45
1:K:81:ALA:C	1:K:82:ASP:OD1	2.59	0.45
1:K:91:ILE:HG23	1:K:92:LEU:H	1.81	0.45
1:K:136:ASP:N	1:K:153:ASP:HB2	2.23	0.45
1:K:296:TYR:CD1	1:K:385:LYS:C	2.93	0.45
1:K:337:ARG:C	1:L:58:LYS:HB3	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:398:ASP:HB3	1:K:402:GLU:CD	2.42	0.45
1:K:429:LYS:HA	1:K:434:PHE:O	2.16	0.45
1:L:13:GLU:O	1:L:14:VAL:HG13	2.17	0.45
1:A:267:GLY:C	1:A:363:PRO:HD3	2.42	0.45
1:A:339:ARG:HH11	1:A:339:ARG:CA	2.30	0.45
1:B:13:GLU:O	1:B:14:VAL:HG13	2.17	0.45
1:B:465:TYR:HE2	1:H:449:GLU:OE1	1.98	0.45
1:C:39:ASN:HD22	1:C:39:ASN:N	2.12	0.45
1:C:296:TYR:CD1	1:C:385:LYS:C	2.93	0.45
1:C:377:ALA:O	1:C:379:LEU:N	2.49	0.45
1:C:399:LEU:O	1:C:400:PRO:C	2.59	0.45
1:C:429:LYS:HA	1:C:434:PHE:O	2.16	0.45
1:C:437:GLU:OE2	1:C:437:GLU:HA	2.15	0.45
1:D:25:LYS:HD2	1:D:25:LYS:HA	1.66	0.45
1:D:54:ILE:HG12	1:D:54:ILE:O	2.16	0.45
1:D:85:LEU:HD12	1:D:86:ILE:HD12	1.98	0.45
1:D:89:CYS:HB3	1:D:90:ASP:H	1.44	0.45
1:D:407:ILE:HA	1:D:408:PRO:HD3	1.71	0.45
1:E:442:TYR:O	1:E:445:LEU:HB2	2.16	0.45
1:E:465:TYR:HD2	1:K:315:THR:CB	2.02	0.45
1:F:76:ILE:HD11	1:F:202:MET:HE1	0.65	0.45
1:F:81:ALA:C	1:F:82:ASP:OD1	2.59	0.45
1:F:339:ARG:NH1	1:F:339:ARG:CA	2.79	0.45
1:G:68:MET:CA	1:G:70:ASP:OD2	2.64	0.45
1:G:199:MET:CE	1:G:238:TYR:CD2	2.99	0.45
1:H:85:LEU:HD12	1:H:86:ILE:HD12	1.98	0.45
1:H:89:CYS:HB3	1:H:90:ASP:CG	2.37	0.45
1:H:326:TYR:HD2	1:H:326:TYR:N	2.14	0.45
1:J:137:ASP:OD2	1:J:139:ARG:HD3	2.16	0.45
1:J:294:ALA:C	1:J:298:ILE:CD1	2.82	0.45
1:J:296:TYR:HB3	1:J:382:ILE:N	2.31	0.45
1:J:337:ARG:HG3	1:J:338:ASN:H	1.77	0.45
1:K:26:GLY:O	1:K:27:LYS:CG	2.57	0.45
1:K:128:PRO:HD3	1:K:231:LYS:HG2	1.98	0.45
1:K:226:ASN:HB3	1:K:227:THR:H	1.52	0.45
1:K:237:ILE:O	1:K:238:TYR:C	2.59	0.45
1:K:367:PRO:HB3	1:K:371:PHE:CE1	2.51	0.45
1:K:377:ALA:O	1:K:379:LEU:N	2.49	0.45
1:K:428:LEU:HD12	1:K:428:LEU:HA	1.88	0.45
1:L:120:ILE:CD1	1:L:382:ILE:CG2	2.94	0.45
1:L:199:MET:CE	1:L:238:TYR:CD2	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:305:ALA:O	1:L:308:ILE:HG13	2.16	0.45
1:A:68:MET:CA	1:A:70:ASP:OD2	2.64	0.45
1:A:350:SER:HA	1:A:351:PRO:HD2	1.65	0.45
1:A:398:ASP:HB3	1:A:402:GLU:CD	2.42	0.45
1:B:4:HIS:C	1:B:6:LEU:N	2.71	0.45
1:B:81:ALA:C	1:B:82:ASP:OD1	2.59	0.45
1:B:120:ILE:CD1	1:B:382:ILE:CG2	2.94	0.45
1:B:199:MET:CE	1:B:238:TYR:CD2	2.99	0.45
1:B:317:ASN:CA	1:H:461:GLU:OE1	2.64	0.45
1:B:339:ARG:NH1	1:B:339:ARG:CA	2.79	0.45
1:B:403:GLU:CA	1:B:405:LYS:CG	2.86	0.45
1:B:403:GLU:N	1:B:405:LYS:HG2	2.29	0.45
1:C:68:MET:CE	1:C:105:ARG:HD3	2.27	0.45
1:C:81:ALA:C	1:C:82:ASP:OD1	2.59	0.45
1:C:199:MET:CE	1:C:238:TYR:CD2	2.99	0.45
1:D:252:THR:OG1	1:E:169:LYS:C	2.59	0.45
1:D:296:TYR:HB3	1:D:382:ILE:N	2.31	0.45
1:D:403:GLU:CB	1:D:406:GLU:CB	2.87	0.45
1:E:65:MET:C	1:E:65:MET:CE	2.76	0.45
1:E:119:GLY:C	1:E:121:ALA:H	2.23	0.45
1:E:137:ASP:OD2	1:E:139:ARG:HD3	2.16	0.45
1:E:286:LYS:HE3	1:E:292:GLU:H	1.81	0.45
1:F:2:ALA:O	1:F:6:LEU:CD2	2.63	0.45
1:F:296:TYR:HB3	1:F:382:ILE:N	2.31	0.45
1:F:442:TYR:O	1:F:445:LEU:HB2	2.16	0.45
1:F:461:GLU:OE1	1:L:317:ASN:CA	2.64	0.45
1:G:13:GLU:O	1:G:14:VAL:HG13	2.16	0.45
1:G:58:LYS:HB3	1:L:337:ARG:C	2.41	0.45
1:G:154:ILE:O	1:G:155:GLU:CB	2.50	0.45
1:G:252:THR:OG1	1:L:169:LYS:HA	2.16	0.45
1:G:437:GLU:HB2	1:G:438:ALA:H	1.11	0.45
1:H:2:ALA:O	1:H:6:LEU:CD2	2.63	0.45
1:H:339:ARG:NH1	1:H:339:ARG:CA	2.79	0.45
1:I:68:MET:O	1:I:86:ILE:HD11	2.16	0.45
1:I:199:MET:HB3	1:I:204:LEU:CD1	2.45	0.45
1:I:296:TYR:HB3	1:I:382:ILE:N	2.31	0.45
1:I:403:GLU:N	1:I:405:LYS:HG2	2.30	0.45
1:J:199:MET:HB3	1:J:204:LEU:CD1	2.46	0.45
1:J:399:LEU:HD23	1:J:402:GLU:CB	2.39	0.45
1:J:426:GLU:C	1:J:428:LEU:N	2.75	0.45
1:J:464:LEU:HD22	1:J:464:LEU:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:89:CYS:HB3	1:K:90:ASP:CG	2.37	0.45
1:K:291:SER:O	1:K:294:ALA:N	2.49	0.45
1:K:296:TYR:HB3	1:K:382:ILE:CA	2.46	0.45
1:L:91:ILE:HG23	1:L:92:LEU:H	1.80	0.45
1:A:13:GLU:O	1:A:14:VAL:HG13	2.17	0.45
1:A:91:ILE:HG23	1:A:92:LEU:H	1.81	0.45
1:A:252:THR:HG21	1:G:466:TYR:CZ	2.33	0.45
1:A:326:TYR:HD2	1:A:326:TYR:N	2.14	0.45
1:B:291:SER:O	1:B:294:ALA:N	2.49	0.45
1:B:382:ILE:O	1:B:383:LYS:O	2.35	0.45
1:B:383:LYS:HB3	1:B:384:ASN:H	1.52	0.45
1:B:403:GLU:C	1:B:405:LYS:N	2.71	0.45
1:C:85:LEU:HD12	1:C:86:ILE:HD12	1.98	0.45
1:C:89:CYS:HB3	1:C:90:ASP:CG	2.37	0.45
1:C:91:ILE:HG23	1:C:92:LEU:H	1.81	0.45
1:C:296:TYR:HB3	1:C:382:ILE:CA	2.46	0.45
1:C:367:PRO:HB3	1:C:371:PHE:CE1	2.51	0.45
1:C:442:TYR:O	1:C:445:LEU:HB2	2.17	0.45
1:D:137:ASP:OD2	1:D:139:ARG:HD3	2.16	0.45
1:D:337:ARG:HG3	1:D:338:ASN:H	1.77	0.45
1:D:426:GLU:C	1:D:428:LEU:N	2.75	0.45
1:E:73:THR:O	1:E:84:THR:N	2.45	0.45
1:E:91:ILE:HG23	1:E:92:LEU:H	1.80	0.45
1:E:296:TYR:HB3	1:E:382:ILE:N	2.31	0.45
1:E:458:HIS:O	1:E:459:PRO:C	2.60	0.45
1:F:71:ALA:O	1:F:86:ILE:CG1	2.63	0.45
1:F:144:ILE:O	1:L:260:MET:HB3	2.17	0.45
1:F:148:HIS:CB	1:L:148:HIS:HB2	2.45	0.45
1:F:199:MET:C	1:F:204:LEU:HD12	2.41	0.45
1:F:296:TYR:HB3	1:F:382:ILE:CA	2.46	0.45
1:G:350:SER:HA	1:G:351:PRO:HD2	1.65	0.45
1:G:398:ASP:HB3	1:G:402:GLU:CD	2.42	0.45
1:H:71:ALA:O	1:H:86:ILE:CG1	2.63	0.45
1:H:111:ALA:O	1:H:112:GLU:C	2.60	0.45
1:H:128:PRO:HD3	1:H:231:LYS:HG2	1.97	0.45
1:H:305:ALA:O	1:H:308:ILE:HG13	2.16	0.45
1:H:399:LEU:HD23	1:H:402:GLU:CB	2.39	0.45
1:H:442:TYR:O	1:H:445:LEU:HB2	2.17	0.45
1:H:464:LEU:H	1:H:464:LEU:HD22	1.81	0.45
1:I:85:LEU:HD12	1:I:86:ILE:HD12	1.98	0.45
1:I:338:ASN:O	1:I:341:ALA:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:383:LYS:CE	1:I:384:ASN:N	2.74	0.45
1:I:442:TYR:O	1:I:445:LEU:HB2	2.17	0.45
1:I:458:HIS:O	1:I:459:PRO:C	2.60	0.45
1:J:286:LYS:HE3	1:J:292:GLU:H	1.81	0.45
1:K:339:ARG:O	1:K:341:ALA:N	2.42	0.45
1:K:399:LEU:O	1:K:400:PRO:C	2.59	0.45
1:K:442:TYR:O	1:K:445:LEU:HB2	2.17	0.45
1:L:57:TRP:CD1	1:L:58:LYS:H	2.21	0.45
1:L:68:MET:O	1:L:86:ILE:HD11	2.16	0.45
1:L:85:LEU:HD12	1:L:86:ILE:HD12	1.98	0.45
1:L:93:GLU:OE1	1:L:93:GLU:CA	2.58	0.45
1:L:199:MET:C	1:L:204:LEU:HD12	2.41	0.45
1:L:267:GLY:C	1:L:363:PRO:HD3	2.42	0.45
1:L:291:SER:O	1:L:294:ALA:N	2.49	0.45
1:L:339:ARG:NH1	1:L:339:ARG:CA	2.79	0.45
1:L:383:LYS:HB3	1:L:384:ASN:H	1.52	0.45
1:A:154:ILE:O	1:A:155:GLU:CB	2.50	0.45
1:A:164:TYR:O	1:A:165:GLU:CB	2.65	0.45
1:A:403:GLU:N	1:A:405:LYS:HG2	2.30	0.45
1:A:416:GLU:O	1:A:419:ASN:HB2	2.15	0.45
1:B:137:ASP:OD2	1:B:139:ARG:HD3	2.16	0.45
1:B:367:PRO:HB3	1:B:371:PHE:CE1	2.51	0.45
1:B:442:TYR:O	1:B:445:LEU:HB2	2.17	0.45
1:D:294:ALA:C	1:D:298:ILE:CD1	2.82	0.45
1:E:75:VAL:HG22	1:E:84:THR:HG21	1.98	0.45
1:E:111:ALA:O	1:E:112:GLU:C	2.60	0.45
1:E:267:GLY:C	1:E:363:PRO:HD3	2.42	0.45
1:E:429:LYS:HA	1:E:434:PHE:O	2.16	0.45
1:F:89:CYS:HB3	1:F:90:ASP:CG	2.37	0.45
1:F:111:ALA:O	1:F:112:GLU:C	2.60	0.45
1:F:305:ALA:O	1:F:308:ILE:HG13	2.16	0.45
1:F:326:TYR:HD2	1:F:326:TYR:N	2.14	0.45
1:F:339:ARG:HH11	1:F:339:ARG:CA	2.30	0.45
1:F:399:LEU:O	1:F:400:PRO:C	2.59	0.45
1:F:464:LEU:HD22	1:F:464:LEU:H	1.81	0.45
1:G:164:TYR:O	1:G:165:GLU:CB	2.65	0.45
1:H:296:TYR:HB3	1:H:382:ILE:CA	2.46	0.45
1:H:387:HIS:HA	1:H:388:PRO:HD2	1.46	0.45
1:H:399:LEU:O	1:H:400:PRO:C	2.59	0.45
1:H:437:GLU:HB2	1:H:438:ALA:H	1.11	0.45
1:I:136:ASP:N	1:I:153:ASP:HB2	2.23	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:85:LEU:HD12	1:J:86:ILE:HD12	1.98	0.45
1:J:163:LYS:NZ	1:J:163:LYS:CB	2.74	0.45
1:K:39:ASN:HD22	1:K:39:ASN:N	2.12	0.45
1:K:85:LEU:HD12	1:K:86:ILE:HD12	1.98	0.45
1:K:199:MET:CE	1:K:238:TYR:CD2	2.99	0.45
1:K:433:VAL:H	1:K:433:VAL:HG12	1.37	0.45
1:L:16:PHE:HD1	1:L:79:PHE:CE1	2.27	0.45
1:L:137:ASP:OD2	1:L:139:ARG:HD3	2.16	0.45
1:L:326:TYR:HD2	1:L:326:TYR:N	2.14	0.45
1:L:382:ILE:O	1:L:383:LYS:O	2.35	0.45
1:L:403:GLU:C	1:L:405:LYS:N	2.71	0.45
1:L:403:GLU:N	1:L:405:LYS:HG2	2.30	0.45
1:L:429:LYS:HA	1:L:434:PHE:O	2.16	0.45
1:A:355:ARG:HH11	1:A:355:ARG:HD2	1.56	0.45
1:A:376:MET:HE2	1:A:433:VAL:HG21	1.99	0.45
1:B:85:LEU:HD12	1:B:86:ILE:HD12	1.98	0.45
1:B:93:GLU:OE1	1:B:93:GLU:CA	2.58	0.45
1:B:199:MET:C	1:B:204:LEU:HD12	2.41	0.45
1:B:305:ALA:O	1:B:308:ILE:HG13	2.16	0.45
1:B:351:PRO:HG2	1:B:352:LYS:H	1.79	0.45
1:C:43:PHE:CE2	1:C:69:PRO:HB3	2.44	0.45
1:C:212:GLU:HB3	1:C:213:VAL:H	1.61	0.45
1:D:2:ALA:O	1:D:6:LEU:CD2	2.63	0.45
1:D:102:ARG:HB2	1:D:104:PRO:CD	2.11	0.45
1:D:164:TYR:CE1	1:D:168:ASN:ND2	2.85	0.45
1:D:267:GLY:C	1:D:363:PRO:HD3	2.42	0.45
1:D:458:HIS:O	1:D:459:PRO:C	2.60	0.45
1:D:464:LEU:H	1:D:464:LEU:HD22	1.81	0.45
1:E:12:HIS:O	1:E:13:GLU:CB	2.43	0.45
1:E:36:HIS:C	1:E:38:VAL:H	2.00	0.45
1:F:75:VAL:HG22	1:F:84:THR:HG21	1.98	0.45
1:F:155:GLU:HA	1:F:172:ARG:HB2	1.99	0.45
1:F:286:LYS:HE3	1:F:292:GLU:H	1.81	0.45
1:F:317:ASN:CA	1:L:461:GLU:OE1	2.64	0.45
1:F:449:GLU:OE1	1:L:465:TYR:HE2	1.98	0.45
1:G:81:ALA:C	1:G:82:ASP:OD1	2.59	0.45
1:G:91:ILE:HG23	1:G:92:LEU:H	1.81	0.45
1:G:397:TYR:O	1:G:397:TYR:HD2	1.99	0.45
1:G:403:GLU:CA	1:G:405:LYS:CG	2.86	0.45
1:G:416:GLU:O	1:G:419:ASN:HB2	2.15	0.45
1:H:13:GLU:O	1:H:14:VAL:HG13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:75:VAL:HG22	1:H:84:THR:HG21	1.98	0.45
1:H:296:TYR:HB3	1:H:382:ILE:N	2.31	0.45
1:H:398:ASP:HB3	1:H:402:GLU:CD	2.41	0.45
1:I:111:ALA:O	1:I:112:GLU:C	2.60	0.45
1:I:267:GLY:C	1:I:363:PRO:HD3	2.42	0.45
1:I:271:HIS:HD2	1:I:357:GLU:HG3	1.81	0.45
1:I:291:SER:O	1:I:294:ALA:N	2.49	0.45
1:I:306:LYS:O	1:I:307:ALA:C	2.56	0.45
1:J:2:ALA:O	1:J:6:LEU:CD2	2.63	0.45
1:J:102:ARG:HB2	1:J:104:PRO:CD	2.11	0.45
1:J:306:LYS:O	1:J:307:ALA:C	2.56	0.45
1:J:350:SER:HA	1:J:351:PRO:HD2	1.65	0.45
1:K:89:CYS:C	1:K:91:ILE:H	2.20	0.45
1:L:4:HIS:C	1:L:6:LEU:N	2.72	0.45
1:L:81:ALA:C	1:L:82:ASP:OD1	2.59	0.45
1:L:403:GLU:CA	1:L:405:LYS:CG	2.86	0.45
1:A:110:ARG:O	1:A:114:TYR:N	2.43	0.45
1:A:111:ALA:O	1:A:112:GLU:C	2.60	0.45
1:A:376:MET:CE	1:A:433:VAL:CG2	2.87	0.45
1:B:57:TRP:CD1	1:B:58:LYS:H	2.22	0.45
1:B:68:MET:O	1:B:86:ILE:HD11	2.16	0.45
1:B:326:TYR:HD2	1:B:326:TYR:N	2.14	0.45
1:B:429:LYS:HA	1:B:434:PHE:O	2.16	0.45
1:B:461:GLU:OE1	1:H:317:ASN:CA	2.65	0.45
1:C:199:MET:C	1:C:204:LEU:HD12	2.41	0.45
1:C:433:VAL:H	1:C:433:VAL:HG12	1.37	0.45
1:D:163:LYS:NZ	1:D:163:LYS:CB	2.74	0.45
1:D:286:LYS:HE3	1:D:292:GLU:H	1.81	0.45
1:E:136:ASP:N	1:E:153:ASP:HB2	2.23	0.45
1:E:305:ALA:O	1:E:308:ILE:HG13	2.16	0.45
1:F:13:GLU:O	1:F:14:VAL:HG13	2.17	0.45
1:F:120:ILE:CD1	1:F:382:ILE:CG2	2.94	0.45
1:G:111:ALA:O	1:G:112:GLU:C	2.60	0.45
1:G:338:ASN:O	1:G:341:ALA:HB2	2.16	0.45
1:G:376:MET:HE2	1:G:433:VAL:HG21	1.99	0.45
1:G:382:ILE:O	1:G:383:LYS:O	2.35	0.45
1:G:387:HIS:HA	1:G:388:PRO:HD2	1.46	0.45
1:G:403:GLU:N	1:G:405:LYS:HG2	2.30	0.45
1:H:301:VAL:O	1:H:305:ALA:N	2.50	0.45
1:H:339:ARG:HH11	1:H:339:ARG:CA	2.30	0.45
1:H:380:ASP:CA	1:H:383:LYS:HB2	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:33:ILE:HD13	1:I:33:ILE:HA	1.75	0.45
1:I:73:THR:O	1:I:84:THR:N	2.45	0.45
1:I:91:ILE:HG23	1:I:92:LEU:H	1.81	0.45
1:I:233:ASP:HB3	1:I:368:TYR:OH	2.17	0.45
1:I:305:ALA:O	1:I:308:ILE:HG13	2.16	0.45
1:I:433:VAL:H	1:I:433:VAL:HG12	1.37	0.45
1:J:164:TYR:CE1	1:J:168:ASN:ND2	2.85	0.45
1:J:267:GLY:C	1:J:363:PRO:HD3	2.42	0.45
1:K:199:MET:C	1:K:204:LEU:HD12	2.41	0.45
1:K:326:TYR:HD2	1:K:326:TYR:N	2.14	0.45
1:L:280:ASN:C	1:L:280:ASN:HD22	2.25	0.45
1:L:442:TYR:O	1:L:445:LEU:HB2	2.17	0.45
1:A:81:ALA:C	1:A:82:ASP:OD1	2.59	0.45
1:A:291:SER:O	1:A:294:ALA:N	2.49	0.45
1:A:382:ILE:O	1:A:383:LYS:O	2.35	0.45
1:B:110:ARG:HH11	1:B:110:ARG:HD3	1.60	0.45
1:B:164:TYR:O	1:B:165:GLU:CB	2.65	0.45
1:B:267:GLY:C	1:B:363:PRO:HD3	2.42	0.45
1:B:280:ASN:C	1:B:280:ASN:HD22	2.25	0.45
1:B:286:LYS:HE3	1:B:292:GLU:H	1.81	0.45
1:C:75:VAL:CG2	1:C:84:THR:CB	2.90	0.45
1:C:245:VAL:O	1:C:249:PHE:N	2.48	0.45
1:C:338:ASN:O	1:C:341:ALA:HB2	2.16	0.45
1:D:164:TYR:O	1:D:165:GLU:CB	2.65	0.45
1:D:311:LEU:HD23	1:D:311:LEU:HA	1.54	0.45
1:D:429:LYS:HA	1:D:434:PHE:O	2.16	0.45
1:E:93:GLU:OE1	1:E:93:GLU:CA	2.58	0.45
1:E:233:ASP:HB3	1:E:368:TYR:OH	2.17	0.45
1:E:260:MET:HB3	1:K:144:ILE:O	2.17	0.45
1:E:338:ASN:O	1:E:341:ALA:HB2	2.16	0.45
1:F:24:THR:HB	1:F:26:GLY:N	2.30	0.45
1:F:260:MET:HB3	1:L:144:ILE:O	2.17	0.45
1:F:301:VAL:O	1:F:305:ALA:N	2.50	0.45
1:F:376:MET:HE2	1:F:433:VAL:HG21	1.99	0.45
1:G:58:LYS:HG3	1:L:339:ARG:CA	2.45	0.45
1:G:175:VAL:CA	1:G:215:THR:HG23	2.43	0.45
1:G:291:SER:O	1:G:294:ALA:N	2.49	0.45
1:H:286:LYS:HE3	1:H:292:GLU:H	1.81	0.45
1:H:376:MET:HE2	1:H:433:VAL:HG21	1.99	0.45
1:I:75:VAL:HG22	1:I:84:THR:HG21	1.98	0.45
1:I:93:GLU:OE1	1:I:93:GLU:CA	2.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:326:TYR:HD2	1:I:326:TYR:N	2.14	0.45
1:I:429:LYS:HA	1:I:434:PHE:O	2.16	0.45
1:J:134:LEU:HD12	1:J:134:LEU:HA	1.80	0.45
1:J:326:TYR:HD2	1:J:326:TYR:N	2.14	0.45
1:J:458:HIS:O	1:J:459:PRO:C	2.60	0.45
1:K:68:MET:CE	1:K:105:ARG:HD3	2.27	0.45
1:K:137:ASP:OD2	1:K:139:ARG:HD3	2.16	0.45
1:K:212:GLU:HB3	1:K:213:VAL:H	1.61	0.45
1:K:338:ASN:O	1:K:341:ALA:HB2	2.16	0.45
1:L:103:ASP:N	1:L:104:PRO:CD	2.60	0.45
1:L:237:ILE:O	1:L:238:TYR:C	2.59	0.45
1:L:348:VAL:CG1	1:L:354:ARG:HA	2.47	0.45
1:L:362:ASP:C	1:L:364:ALA:N	2.61	0.45
1:L:367:PRO:HB3	1:L:371:PHE:CE1	2.51	0.45
1:A:58:LYS:HG3	1:B:339:ARG:CA	2.45	0.45
1:A:164:TYR:CE1	1:A:168:ASN:ND2	2.85	0.45
1:A:338:ASN:O	1:A:341:ALA:HB2	2.16	0.45
1:A:397:TYR:O	1:A:397:TYR:HD2	1.99	0.45
1:A:458:HIS:O	1:A:459:PRO:C	2.60	0.45
1:B:237:ILE:O	1:B:238:TYR:C	2.59	0.45
1:B:338:ASN:O	1:B:341:ALA:HB2	2.16	0.45
1:B:348:VAL:CG1	1:B:354:ARG:HA	2.47	0.45
1:C:155:GLU:HA	1:C:172:ARG:HB2	1.99	0.45
1:C:233:ASP:HB3	1:C:368:TYR:OH	2.17	0.45
1:C:326:TYR:HD2	1:C:326:TYR:N	2.14	0.45
1:D:30:HIS:O	1:E:180:PHE:CB	2.42	0.45
1:D:65:MET:HE2	1:D:66:VAL:N	2.32	0.45
1:D:260:MET:HB3	1:J:144:ILE:O	2.17	0.45
1:D:325:GLY:N	1:D:328:ALA:HB3	2.32	0.45
1:E:348:VAL:O	1:E:349:ALA:HB3	2.17	0.45
1:E:465:TYR:HD2	1:K:315:THR:OG1	1.81	0.45
1:F:164:TYR:O	1:F:165:GLU:CB	2.65	0.45
1:F:348:VAL:O	1:F:349:ALA:HB3	2.17	0.45
1:F:398:ASP:HB3	1:F:402:GLU:CD	2.42	0.45
1:G:458:HIS:O	1:G:459:PRO:C	2.60	0.45
1:H:24:THR:HB	1:H:26:GLY:N	2.30	0.45
1:H:155:GLU:HA	1:H:172:ARG:HB2	1.99	0.45
1:H:164:TYR:O	1:H:165:GLU:CB	2.65	0.45
1:H:182:VAL:CG2	1:I:28:GLU:HG2	2.47	0.45
1:H:258:LYS:HD3	1:H:320:LYS:O	2.17	0.45
1:H:348:VAL:O	1:H:349:ALA:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:390:GLU:HB3	1:H:391:PRO:CD	2.44	0.45
1:I:36:HIS:C	1:I:38:VAL:H	1.99	0.45
1:I:301:VAL:O	1:I:305:ALA:N	2.50	0.45
1:I:348:VAL:O	1:I:349:ALA:HB3	2.17	0.45
1:I:464:LEU:H	1:I:464:LEU:HD22	1.81	0.45
1:J:93:GLU:OE1	1:J:93:GLU:CA	2.58	0.45
1:J:103:ASP:CG	1:J:106:SER:CB	2.83	0.45
1:J:164:TYR:O	1:J:165:GLU:CB	2.65	0.45
1:J:308:ILE:HG12	1:J:308:ILE:H	1.37	0.45
1:J:398:ASP:HB3	1:J:402:GLU:CD	2.41	0.45
1:J:403:GLU:CB	1:J:406:GLU:CB	2.87	0.45
1:K:13:GLU:O	1:K:14:VAL:HG13	2.16	0.45
1:K:155:GLU:HA	1:K:172:ARG:HB2	1.99	0.45
1:K:258:LYS:HD3	1:K:320:LYS:O	2.17	0.45
1:K:286:LYS:HE3	1:K:292:GLU:H	1.81	0.45
1:K:382:ILE:O	1:K:383:LYS:O	2.35	0.45
1:L:164:TYR:O	1:L:165:GLU:CB	2.65	0.45
1:L:286:LYS:HE3	1:L:292:GLU:H	1.81	0.45
1:A:28:GLU:HG2	1:B:182:VAL:CG2	2.47	0.44
1:A:180:PHE:CB	1:F:30:HIS:O	2.42	0.44
1:A:260:MET:HB3	1:G:144:ILE:O	2.17	0.44
1:A:286:LYS:HE3	1:A:292:GLU:H	1.81	0.44
1:A:301:VAL:O	1:A:305:ALA:N	2.50	0.44
1:A:348:VAL:CG1	1:A:354:ARG:HA	2.47	0.44
1:A:403:GLU:CA	1:A:405:LYS:CG	2.86	0.44
1:B:144:ILE:O	1:H:260:MET:HB3	2.17	0.44
1:B:258:LYS:HD3	1:B:320:LYS:O	2.17	0.44
1:B:339:ARG:HH11	1:B:339:ARG:CA	2.29	0.44
1:B:362:ASP:C	1:B:364:ALA:N	2.61	0.44
1:C:137:ASP:OD2	1:C:139:ARG:HD3	2.16	0.44
1:C:286:LYS:HE3	1:C:292:GLU:H	1.81	0.44
1:C:382:ILE:O	1:C:383:LYS:O	2.35	0.44
1:C:449:GLU:OE1	1:I:465:TYR:HE2	1.98	0.44
1:D:93:GLU:OE1	1:D:93:GLU:CA	2.58	0.44
1:D:111:ALA:O	1:D:112:GLU:C	2.60	0.44
1:D:306:LYS:O	1:D:307:ALA:C	2.56	0.44
1:D:348:VAL:O	1:D:349:ALA:HB3	2.17	0.44
1:E:164:TYR:CE1	1:E:168:ASN:ND2	2.85	0.44
1:E:199:MET:C	1:E:204:LEU:HD12	2.41	0.44
1:E:301:VAL:O	1:E:305:ALA:N	2.50	0.44
1:E:339:ARG:NH1	1:E:339:ARG:CA	2.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:403:GLU:C	1:E:405:LYS:HG3	2.42	0.44
1:E:461:GLU:CD	1:K:316:THR:HG21	2.39	0.44
1:F:126:PHE:CE1	1:F:228:MET:CE	3.00	0.44
1:F:258:LYS:HD3	1:F:320:LYS:O	2.17	0.44
1:F:291:SER:O	1:F:294:ALA:N	2.49	0.44
1:F:380:ASP:CA	1:F:383:LYS:HB2	2.46	0.44
1:F:402:GLU:C	1:F:404:ALA:N	2.75	0.44
1:G:164:TYR:CE1	1:G:168:ASN:ND2	2.85	0.44
1:G:286:LYS:HE3	1:G:292:GLU:H	1.81	0.44
1:H:120:ILE:CD1	1:H:382:ILE:CG2	2.94	0.44
1:H:126:PHE:CE1	1:H:228:MET:CE	3.00	0.44
1:H:271:HIS:HD2	1:H:357:GLU:HG3	1.82	0.44
1:H:291:SER:O	1:H:294:ALA:N	2.49	0.44
1:I:4:HIS:C	1:I:6:LEU:N	2.72	0.44
1:I:164:TYR:CE1	1:I:168:ASN:ND2	2.85	0.44
1:J:64:ASP:O	1:J:66:VAL:N	2.47	0.44
1:J:65:MET:HE2	1:J:66:VAL:N	2.32	0.44
1:J:111:ALA:O	1:J:112:GLU:C	2.60	0.44
1:J:325:GLY:N	1:J:328:ALA:HB3	2.33	0.44
1:J:339:ARG:HH11	1:J:339:ARG:CA	2.29	0.44
1:J:367:PRO:HB3	1:J:371:PHE:CE1	2.51	0.44
1:J:429:LYS:HA	1:J:434:PHE:O	2.16	0.44
1:K:75:VAL:CG2	1:K:84:THR:CB	2.90	0.44
1:K:111:ALA:O	1:K:112:GLU:C	2.60	0.44
1:K:202:MET:HB2	1:K:202:MET:HE3	1.58	0.44
1:K:233:ASP:HB3	1:K:368:TYR:OH	2.17	0.44
1:K:245:VAL:O	1:K:249:PHE:N	2.48	0.44
1:K:421:LEU:CD2	1:K:443:ILE:HD11	2.38	0.44
1:L:245:VAL:O	1:L:249:PHE:N	2.48	0.44
1:L:339:ARG:HH11	1:L:339:ARG:CA	2.29	0.44
1:L:464:LEU:H	1:L:464:LEU:HD22	1.81	0.44
1:A:182:VAL:CG2	1:F:28:GLU:HG2	2.47	0.44
1:B:111:ALA:O	1:B:112:GLU:C	2.60	0.44
1:B:155:GLU:HA	1:B:172:ARG:HB2	1.99	0.44
1:B:245:VAL:O	1:B:249:PHE:N	2.48	0.44
1:B:271:HIS:HD2	1:B:357:GLU:HG3	1.81	0.44
1:B:464:LEU:HD22	1:B:464:LEU:H	1.81	0.44
1:C:258:LYS:HD3	1:C:320:LYS:O	2.17	0.44
1:C:348:VAL:CG1	1:C:354:ARG:HA	2.48	0.44
1:C:403:GLU:C	1:C:405:LYS:N	2.71	0.44
1:D:28:GLU:HG2	1:E:182:VAL:CG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:258:LYS:HD3	1:D:320:LYS:O	2.17	0.44
1:D:301:VAL:O	1:D:305:ALA:N	2.50	0.44
1:D:398:ASP:HB3	1:D:402:GLU:CD	2.41	0.44
1:D:403:GLU:C	1:D:405:LYS:HG3	2.42	0.44
1:E:28:GLU:HG2	1:F:182:VAL:CG2	2.47	0.44
1:E:68:MET:CA	1:E:70:ASP:OD2	2.64	0.44
1:E:164:TYR:O	1:E:165:GLU:CB	2.65	0.44
1:E:271:HIS:HD2	1:E:357:GLU:HG3	1.82	0.44
1:E:291:SER:O	1:E:294:ALA:N	2.50	0.44
1:E:317:ASN:CA	1:K:461:GLU:OE1	2.64	0.44
1:E:325:GLY:N	1:E:328:ALA:HB3	2.32	0.44
1:E:326:TYR:HD2	1:E:326:TYR:N	2.14	0.44
1:E:367:PRO:HB3	1:E:371:PHE:CE1	2.51	0.44
1:E:399:LEU:HD23	1:E:402:GLU:CB	2.40	0.44
1:E:464:LEU:H	1:E:464:LEU:HD22	1.81	0.44
1:G:28:GLU:HG2	1:L:182:VAL:CG2	2.47	0.44
1:G:180:PHE:CB	1:H:30:HIS:O	2.42	0.44
1:G:301:VAL:O	1:G:305:ALA:N	2.50	0.44
1:G:337:ARG:C	1:H:58:LYS:HB3	2.41	0.44
1:G:348:VAL:CG1	1:G:354:ARG:HA	2.47	0.44
1:G:355:ARG:HH11	1:G:355:ARG:HD2	1.56	0.44
1:I:2:ALA:C	1:I:4:HIS:N	2.69	0.44
1:I:126:PHE:CE1	1:I:228:MET:CE	3.00	0.44
1:I:199:MET:C	1:I:204:LEU:HD12	2.41	0.44
1:I:325:GLY:N	1:I:328:ALA:HB3	2.32	0.44
1:I:348:VAL:CG1	1:I:354:ARG:HA	2.47	0.44
1:I:403:GLU:C	1:I:405:LYS:HG3	2.42	0.44
1:J:258:LYS:HD3	1:J:320:LYS:O	2.17	0.44
1:J:403:GLU:C	1:J:405:LYS:HG3	2.42	0.44
1:J:433:VAL:O	1:J:434:PHE:CB	2.58	0.44
1:K:43:PHE:CE2	1:K:69:PRO:HB3	2.45	0.44
1:K:325:GLY:N	1:K:328:ALA:HB3	2.32	0.44
1:K:348:VAL:CG1	1:K:354:ARG:HA	2.48	0.44
1:K:403:GLU:C	1:K:405:LYS:N	2.71	0.44
1:L:20:ARG:HD2	1:L:237:ILE:CD1	2.48	0.44
1:L:111:ALA:O	1:L:112:GLU:C	2.60	0.44
1:L:338:ASN:O	1:L:341:ALA:HB2	2.17	0.44
1:A:144:ILE:O	1:G:260:MET:HB3	2.17	0.44
1:A:175:VAL:CA	1:A:215:THR:HG23	2.43	0.44
1:B:16:PHE:HD1	1:B:79:PHE:CE1	2.27	0.44
1:B:348:VAL:HG12	1:B:354:ARG:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:13:GLU:O	1:C:14:VAL:HG13	2.17	0.44
1:C:111:ALA:O	1:C:112:GLU:C	2.60	0.44
1:C:144:ILE:O	1:I:260:MET:HB3	2.17	0.44
1:C:267:GLY:C	1:C:363:PRO:HD3	2.42	0.44
1:D:13:GLU:O	1:D:14:VAL:HG13	2.17	0.44
1:D:17:VAL:O	1:D:18:ASP:CB	2.66	0.44
1:D:305:ALA:O	1:D:308:ILE:HG13	2.16	0.44
1:D:350:SER:HA	1:D:351:PRO:HD2	1.65	0.44
1:E:126:PHE:CE1	1:E:228:MET:CE	3.01	0.44
1:E:237:ILE:O	1:E:238:TYR:C	2.59	0.44
1:E:348:VAL:CG1	1:E:354:ARG:HA	2.47	0.44
1:F:68:MET:HB3	1:F:70:ASP:OD1	2.17	0.44
1:F:237:ILE:O	1:F:238:TYR:C	2.59	0.44
1:G:182:VAL:CG2	1:H:28:GLU:HG2	2.47	0.44
1:H:48:MET:O	1:H:48:MET:HG2	2.18	0.44
1:H:237:ILE:O	1:H:238:TYR:C	2.59	0.44
1:H:325:GLY:N	1:H:328:ALA:HB3	2.33	0.44
1:H:402:GLU:C	1:H:404:ALA:N	2.75	0.44
1:I:12:HIS:O	1:I:13:GLU:CB	2.43	0.44
1:I:68:MET:CA	1:I:70:ASP:OD2	2.64	0.44
1:I:155:GLU:HA	1:I:172:ARG:HB2	1.99	0.44
1:I:180:PHE:CB	1:J:30:HIS:O	2.42	0.44
1:I:182:VAL:CG2	1:J:28:GLU:HG2	2.47	0.44
1:I:382:ILE:O	1:I:383:LYS:O	2.35	0.44
1:J:348:VAL:O	1:J:349:ALA:HB3	2.17	0.44
1:K:164:TYR:CE1	1:K:168:ASN:ND2	2.85	0.44
1:K:164:TYR:O	1:K:165:GLU:CB	2.65	0.44
1:K:305:ALA:O	1:K:308:ILE:HG13	2.16	0.44
1:L:7:THR:O	1:L:8:MET:C	2.61	0.44
1:L:155:GLU:HA	1:L:172:ARG:HB2	1.99	0.44
1:L:258:LYS:HD3	1:L:320:LYS:O	2.17	0.44
1:L:348:VAL:HG12	1:L:354:ARG:HA	1.99	0.44
1:A:90:ASP:OD2	1:A:90:ASP:N	2.18	0.44
1:A:337:ARG:C	1:F:58:LYS:HB3	2.41	0.44
1:A:442:TYR:O	1:A:445:LEU:HB2	2.17	0.44
1:A:449:GLU:CD	1:G:465:TYR:HH	2.10	0.44
1:B:7:THR:O	1:B:8:MET:C	2.61	0.44
1:B:228:MET:HE3	1:B:375:LEU:HB2	2.00	0.44
1:B:447:ARG:O	1:B:448:GLU:C	2.61	0.44
1:C:164:TYR:CE1	1:C:168:ASN:ND2	2.85	0.44
1:C:228:MET:HE3	1:C:375:LEU:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:305:ALA:O	1:C:308:ILE:HG13	2.16	0.44
1:C:317:ASN:CA	1:I:461:GLU:OE1	2.64	0.44
1:C:325:GLY:N	1:C:328:ALA:HB3	2.33	0.44
1:D:64:ASP:O	1:D:66:VAL:N	2.47	0.44
1:D:126:PHE:CE1	1:D:228:MET:CE	3.00	0.44
1:D:144:ILE:O	1:J:260:MET:HB3	2.17	0.44
1:D:326:TYR:HD2	1:D:326:TYR:N	2.14	0.44
1:D:339:ARG:HH11	1:D:339:ARG:CA	2.30	0.44
1:D:367:PRO:HB3	1:D:371:PHE:CE1	2.51	0.44
1:D:433:VAL:O	1:D:434:PHE:CB	2.58	0.44
1:E:67:LEU:HD12	1:E:68:MET:CG	2.26	0.44
1:E:155:GLU:HA	1:E:172:ARG:HB2	1.99	0.44
1:E:297:TYR:CZ	1:E:378:GLY:HA3	2.52	0.44
1:E:376:MET:HE2	1:E:433:VAL:HG21	1.99	0.44
1:E:382:ILE:O	1:E:383:LYS:O	2.35	0.44
1:F:48:MET:O	1:F:48:MET:HG2	2.18	0.44
1:F:325:GLY:N	1:F:328:ALA:HB3	2.33	0.44
1:F:390:GLU:HB3	1:F:391:PRO:CD	2.45	0.44
1:G:376:MET:CE	1:G:433:VAL:CG2	2.87	0.44
1:G:442:TYR:O	1:G:445:LEU:HB2	2.17	0.44
1:H:93:GLU:C	1:H:93:GLU:OE1	2.61	0.44
1:I:164:TYR:O	1:I:165:GLU:CB	2.65	0.44
1:I:297:TYR:CZ	1:I:378:GLY:HA3	2.52	0.44
1:I:339:ARG:NH1	1:I:339:ARG:CA	2.79	0.44
1:I:367:PRO:HB3	1:I:371:PHE:CE1	2.52	0.44
1:J:17:VAL:O	1:J:18:ASP:CB	2.66	0.44
1:J:228:MET:HE3	1:J:375:LEU:HB2	2.00	0.44
1:J:301:VAL:O	1:J:305:ALA:N	2.50	0.44
1:K:33:ILE:HD13	1:K:33:ILE:HA	1.75	0.44
1:K:228:MET:HE3	1:K:375:LEU:HB2	2.00	0.44
1:K:267:GLY:C	1:K:363:PRO:HD3	2.42	0.44
1:K:426:GLU:OE1	1:K:426:GLU:HA	2.17	0.44
1:L:376:MET:HE2	1:L:433:VAL:HG21	1.99	0.44
1:A:7:THR:O	1:A:8:MET:C	2.61	0.44
1:A:20:ARG:HD2	1:A:237:ILE:CD1	2.48	0.44
1:A:140:PHE:CE2	1:G:463:GLU:HA	2.52	0.44
1:A:387:HIS:HA	1:A:388:PRO:HD2	1.46	0.44
1:A:463:GLU:HA	1:G:140:PHE:CE2	2.52	0.44
1:B:164:TYR:CE1	1:B:168:ASN:ND2	2.85	0.44
1:B:233:ASP:HB3	1:B:368:TYR:OH	2.17	0.44
1:B:235:ILE:HG21	1:B:367:PRO:HG3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:445:LEU:C	1:B:447:ARG:N	2.75	0.44
1:C:17:VAL:O	1:C:18:ASP:CB	2.66	0.44
1:C:164:TYR:O	1:C:165:GLU:CB	2.65	0.44
1:C:260:MET:HB3	1:I:144:ILE:O	2.17	0.44
1:D:68:MET:HB3	1:D:70:ASP:OD1	2.17	0.44
1:D:297:TYR:CZ	1:D:378:GLY:HA3	2.53	0.44
1:D:348:VAL:CG1	1:D:354:ARG:HA	2.47	0.44
1:E:447:ARG:O	1:E:448:GLU:C	2.61	0.44
1:E:461:GLU:OE1	1:K:317:ASN:CA	2.65	0.44
1:E:465:TYR:HE2	1:K:449:GLU:OE1	1.99	0.44
1:F:4:HIS:C	1:F:6:LEU:N	2.71	0.44
1:F:164:TYR:CE1	1:F:168:ASN:ND2	2.85	0.44
1:F:271:HIS:HD2	1:F:357:GLU:HG3	1.82	0.44
1:F:338:ASN:O	1:F:341:ALA:HB2	2.16	0.44
1:F:447:ARG:O	1:F:448:GLU:C	2.61	0.44
1:G:20:ARG:HD2	1:G:237:ILE:CD1	2.48	0.44
1:G:426:GLU:C	1:G:428:LEU:N	2.75	0.44
1:H:447:ARG:O	1:H:448:GLU:C	2.61	0.44
1:I:237:ILE:O	1:I:238:TYR:C	2.59	0.44
1:I:390:GLU:HB3	1:I:391:PRO:CD	2.45	0.44
1:I:399:LEU:HD23	1:I:402:GLU:CB	2.39	0.44
1:I:407:ILE:HA	1:I:408:PRO:HD3	1.71	0.44
1:J:13:GLU:O	1:J:14:VAL:HG13	2.17	0.44
1:J:48:MET:O	1:J:48:MET:HG2	2.18	0.44
1:J:98:GLN:O	1:J:99:GLY:C	2.61	0.44
1:J:126:PHE:CE1	1:J:228:MET:CE	3.01	0.44
1:J:305:ALA:O	1:J:308:ILE:HG13	2.16	0.44
1:K:17:VAL:O	1:K:18:ASP:CB	2.66	0.44
1:K:199:MET:HG2	1:K:204:LEU:HD11	2.00	0.44
1:L:4:HIS:O	1:L:5:VAL:C	2.60	0.44
1:L:25:LYS:HD2	1:L:25:LYS:HA	1.67	0.44
1:L:110:ARG:HH11	1:L:110:ARG:HD3	1.60	0.44
1:L:164:TYR:CE1	1:L:168:ASN:ND2	2.85	0.44
1:L:235:ILE:HG21	1:L:367:PRO:HG3	2.00	0.44
1:L:296:TYR:CD1	1:L:385:LYS:C	2.93	0.44
1:L:445:LEU:C	1:L:447:ARG:N	2.75	0.44
1:L:447:ARG:O	1:L:448:GLU:C	2.61	0.44
1:A:426:GLU:C	1:A:428:LEU:N	2.75	0.44
1:C:199:MET:HG2	1:C:204:LEU:HD11	2.00	0.44
1:C:271:HIS:HD2	1:C:357:GLU:HG3	1.82	0.44
1:C:315:THR:OG1	1:I:465:TYR:HD2	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:426:GLU:OE1	1:C:426:GLU:HA	2.18	0.44
1:C:461:GLU:OE1	1:I:317:ASN:CA	2.65	0.44
1:D:68:MET:CE	1:D:105:ARG:HD3	2.27	0.44
1:D:103:ASP:CG	1:D:106:SER:CB	2.83	0.44
1:E:2:ALA:C	1:E:4:HIS:N	2.69	0.44
1:E:110:ARG:HH11	1:E:110:ARG:HD3	1.60	0.44
1:E:144:ILE:O	1:K:260:MET:HB3	2.17	0.44
1:E:172:ARG:CB	1:E:173:PRO:CD	2.89	0.44
1:F:93:GLU:C	1:F:93:GLU:OE1	2.61	0.44
1:G:7:THR:O	1:G:8:MET:C	2.61	0.44
1:G:93:GLU:C	1:G:93:GLU:OE1	2.61	0.44
1:H:68:MET:HB3	1:H:70:ASP:OD1	2.17	0.44
1:H:348:VAL:CG1	1:H:354:ARG:HA	2.47	0.44
1:I:447:ARG:O	1:I:448:GLU:C	2.61	0.44
1:J:297:TYR:CZ	1:J:378:GLY:HA3	2.53	0.44
1:K:93:GLU:H	1:K:96:THR:HA	1.83	0.44
1:K:301:VAL:HG23	1:K:301:VAL:H	1.32	0.44
1:K:447:ARG:O	1:K:448:GLU:C	2.61	0.44
1:L:68:MET:HB3	1:L:70:ASP:OD1	2.17	0.44
1:L:199:MET:HG2	1:L:204:LEU:HD11	2.00	0.44
1:L:271:HIS:HD2	1:L:357:GLU:HG3	1.82	0.44
1:L:301:VAL:O	1:L:305:ALA:N	2.50	0.44
1:A:93:GLU:OE1	1:A:93:GLU:C	2.61	0.44
1:A:143:SER:O	1:A:144:ILE:C	2.61	0.44
1:A:216:ALA:HB3	1:A:260:MET:CE	2.47	0.44
1:A:238:TYR:CD1	1:A:238:TYR:C	2.96	0.44
1:B:4:HIS:O	1:B:5:VAL:C	2.60	0.44
1:B:20:ARG:HD2	1:B:237:ILE:CD1	2.48	0.44
1:B:93:GLU:H	1:B:96:THR:HA	1.83	0.44
1:B:301:VAL:O	1:B:305:ALA:N	2.50	0.44
1:C:93:GLU:H	1:C:96:THR:HA	1.83	0.44
1:C:140:PHE:CE2	1:I:463:GLU:HA	2.52	0.44
1:C:311:LEU:HD23	1:C:311:LEU:HA	1.54	0.44
1:C:447:ARG:O	1:C:448:GLU:C	2.61	0.44
1:D:119:GLY:C	1:D:121:ALA:H	2.22	0.44
1:D:228:MET:HE3	1:D:375:LEU:HB2	2.00	0.44
1:D:271:HIS:HA	1:D:356:ILE:O	2.18	0.44
1:D:308:ILE:HG12	1:D:308:ILE:H	1.37	0.44
1:E:39:ASN:O	1:E:40:ALA:CB	2.62	0.44
1:E:390:GLU:HB3	1:E:391:PRO:CD	2.45	0.44
1:E:402:GLU:C	1:E:404:ALA:N	2.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:433:VAL:H	1:E:433:VAL:HG12	1.37	0.44
1:E:449:GLU:CD	1:K:465:TYR:HH	2.11	0.44
1:F:463:GLU:HA	1:L:140:PHE:CE2	2.52	0.44
1:G:126:PHE:CE1	1:G:228:MET:CE	3.00	0.44
1:G:216:ALA:HB3	1:G:260:MET:CE	2.48	0.44
1:G:348:VAL:HG12	1:G:354:ARG:HA	1.99	0.44
1:G:348:VAL:O	1:G:349:ALA:HB3	2.17	0.44
1:H:164:TYR:CE1	1:H:168:ASN:ND2	2.85	0.44
1:H:338:ASN:O	1:H:341:ALA:HB2	2.16	0.44
1:I:228:MET:HE3	1:I:375:LEU:HB2	2.00	0.44
1:I:258:LYS:HD3	1:I:320:LYS:O	2.17	0.44
1:I:321:ARG:CG	1:I:322:LEU:N	2.81	0.44
1:I:376:MET:HE2	1:I:433:VAL:HG21	1.99	0.44
1:J:68:MET:HB3	1:J:70:ASP:OD1	2.17	0.44
1:J:233:ASP:HB3	1:J:368:TYR:OH	2.17	0.44
1:J:311:LEU:HD23	1:J:311:LEU:HA	1.55	0.44
1:J:348:VAL:CG1	1:J:354:ARG:HA	2.47	0.44
1:K:271:HIS:HD2	1:K:357:GLU:HG3	1.82	0.44
1:K:380:ASP:CA	1:K:383:LYS:HB2	2.45	0.44
1:L:19:LEU:CD2	1:L:75:VAL:HG21	2.38	0.44
1:L:93:GLU:H	1:L:96:THR:HA	1.83	0.44
1:L:126:PHE:CE1	1:L:228:MET:CE	3.01	0.44
1:L:228:MET:HE3	1:L:375:LEU:HB2	2.00	0.44
1:L:233:ASP:HB3	1:L:368:TYR:OH	2.17	0.44
1:L:296:TYR:HB3	1:L:382:ILE:CA	2.46	0.44
1:L:412:GLY:C	1:L:413:SER:OG	2.58	0.44
1:L:458:HIS:O	1:L:459:PRO:C	2.60	0.44
1:A:120:ILE:CD1	1:A:382:ILE:CG2	2.94	0.44
1:A:126:PHE:CE1	1:A:228:MET:CE	3.00	0.44
1:A:237:ILE:O	1:A:238:TYR:C	2.59	0.44
1:A:348:VAL:HG12	1:A:354:ARG:HA	1.99	0.44
1:B:75:VAL:CG2	1:B:84:THR:CB	2.90	0.44
1:B:126:PHE:CE1	1:B:228:MET:CE	3.01	0.44
1:B:163:LYS:HG3	1:B:164:TYR:N	2.32	0.44
1:B:376:MET:HE2	1:B:433:VAL:HG21	1.99	0.44
1:C:33:ILE:HD13	1:C:33:ILE:HA	1.74	0.44
1:C:126:PHE:CE1	1:C:228:MET:CE	3.01	0.44
1:C:235:ILE:HG21	1:C:367:PRO:HG3	1.99	0.44
1:C:339:ARG:HH11	1:C:339:ARG:CA	2.30	0.44
1:D:26:GLY:O	1:D:27:LYS:CG	2.56	0.44
1:D:48:MET:O	1:D:48:MET:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:98:GLN:O	1:D:99:GLY:C	2.61	0.44
1:D:344:ARG:NH1	1:D:357:GLU:OE1	2.51	0.44
1:D:461:GLU:OE1	1:J:317:ASN:CA	2.64	0.44
1:E:30:HIS:O	1:F:180:PHE:CB	2.42	0.44
1:E:228:MET:HE3	1:E:375:LEU:HB2	2.00	0.44
1:F:348:VAL:CG1	1:F:354:ARG:HA	2.47	0.44
1:F:382:ILE:O	1:F:383:LYS:O	2.35	0.44
1:G:120:ILE:CD1	1:G:382:ILE:CG2	2.94	0.44
1:G:143:SER:O	1:G:144:ILE:C	2.61	0.44
1:G:238:TYR:CD1	1:G:238:TYR:C	2.96	0.44
1:I:172:ARG:CB	1:I:173:PRO:CD	2.89	0.44
1:J:271:HIS:HA	1:J:356:ILE:O	2.18	0.44
1:J:344:ARG:NH1	1:J:357:GLU:OE1	2.51	0.44
1:K:235:ILE:HG21	1:K:367:PRO:HG3	1.99	0.44
1:K:235:ILE:HB	1:K:367:PRO:HG2	2.00	0.44
1:K:339:ARG:HH11	1:K:339:ARG:CA	2.30	0.44
1:K:403:GLU:N	1:K:405:LYS:HG2	2.29	0.44
1:A:199:MET:HG2	1:A:204:LEU:HD11	2.00	0.44
1:A:226:ASN:HB3	1:A:227:THR:H	1.53	0.44
1:B:19:LEU:CD2	1:B:75:VAL:HG21	2.38	0.44
1:B:140:PHE:CE2	1:H:463:GLU:HA	2.52	0.44
1:B:376:MET:HE1	1:B:433:VAL:CG1	2.22	0.44
1:B:403:GLU:C	1:B:405:LYS:HG3	2.42	0.44
1:B:426:GLU:OE1	1:B:426:GLU:HA	2.17	0.44
1:B:458:HIS:O	1:B:459:PRO:C	2.60	0.44
1:B:463:GLU:HA	1:H:140:PHE:CE2	2.52	0.44
1:C:403:GLU:N	1:C:405:LYS:HG2	2.30	0.44
1:D:93:GLU:H	1:D:96:THR:HA	1.83	0.44
1:D:233:ASP:HB3	1:D:368:TYR:OH	2.17	0.44
1:D:382:ILE:O	1:D:383:LYS:O	2.35	0.44
1:D:402:GLU:C	1:D:404:ALA:N	2.75	0.44
1:D:465:TYR:HE2	1:J:449:GLU:OE1	1.99	0.44
1:E:17:VAL:O	1:E:18:ASP:CB	2.66	0.44
1:E:68:MET:HB3	1:E:70:ASP:OD1	2.18	0.44
1:E:98:GLN:O	1:E:99:GLY:C	2.61	0.44
1:E:235:ILE:HG21	1:E:367:PRO:HG3	1.99	0.44
1:E:258:LYS:HD3	1:E:320:LYS:O	2.17	0.44
1:E:321:ARG:CG	1:E:322:LEU:N	2.81	0.44
1:E:463:GLU:HA	1:K:140:PHE:CE2	2.52	0.44
1:F:140:PHE:CE2	1:L:463:GLU:HA	2.52	0.44
1:F:212:GLU:HB3	1:F:213:VAL:H	1.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:458:HIS:O	1:F:459:PRO:C	2.60	0.44
1:G:65:MET:C	1:G:87:ILE:CG2	2.88	0.44
1:G:90:ASP:OD2	1:G:90:ASP:N	2.18	0.44
1:G:237:ILE:O	1:G:238:TYR:C	2.59	0.44
1:G:325:GLY:N	1:G:328:ALA:HB3	2.33	0.44
1:H:4:HIS:C	1:H:6:LEU:N	2.71	0.44
1:H:458:HIS:O	1:H:459:PRO:C	2.60	0.44
1:I:17:VAL:O	1:I:18:ASP:CB	2.66	0.44
1:I:93:GLU:OE1	1:I:93:GLU:C	2.61	0.44
1:I:235:ILE:HG21	1:I:367:PRO:HG3	1.99	0.44
1:I:402:GLU:C	1:I:404:ALA:N	2.75	0.44
1:I:426:GLU:C	1:I:428:LEU:N	2.75	0.44
1:J:119:GLY:C	1:J:121:ALA:H	2.23	0.44
1:J:182:VAL:CG2	1:K:28:GLU:HG2	2.47	0.44
1:J:256:MET:HA	1:J:257:PRO:HD3	1.86	0.44
1:J:382:ILE:O	1:J:383:LYS:O	2.35	0.44
1:J:402:GLU:C	1:J:404:ALA:N	2.75	0.44
1:K:126:PHE:CE1	1:K:228:MET:CE	3.00	0.44
1:K:458:HIS:O	1:K:459:PRO:C	2.59	0.44
1:L:120:ILE:CG2	1:L:382:ILE:HG23	2.46	0.44
1:L:163:LYS:HG3	1:L:164:TYR:N	2.32	0.44
1:L:325:GLY:N	1:L:328:ALA:HB3	2.33	0.44
1:L:403:GLU:C	1:L:405:LYS:HG3	2.42	0.44
1:A:65:MET:C	1:A:87:ILE:CG2	2.88	0.43
1:A:228:MET:HE3	1:A:375:LEU:HB2	2.00	0.43
1:A:321:ARG:CG	1:A:322:LEU:N	2.81	0.43
1:A:325:GLY:N	1:A:328:ALA:HB3	2.33	0.43
1:A:348:VAL:O	1:A:349:ALA:HB3	2.17	0.43
1:B:296:TYR:HB3	1:B:382:ILE:CA	2.46	0.43
1:B:296:TYR:CD1	1:B:385:LYS:C	2.93	0.43
1:B:315:THR:CB	1:H:465:TYR:HD2	2.02	0.43
1:B:325:GLY:N	1:B:328:ALA:HB3	2.33	0.43
1:C:28:GLU:HG2	1:D:182:VAL:CG2	2.47	0.43
1:C:98:GLN:O	1:C:99:GLY:C	2.61	0.43
1:C:191:ILE:HG13	1:C:249:PHE:CD1	2.53	0.43
1:C:202:MET:HB2	1:C:202:MET:HE3	1.58	0.43
1:C:238:TYR:C	1:C:238:TYR:CD1	2.96	0.43
1:C:271:HIS:HA	1:C:356:ILE:O	2.18	0.43
1:D:140:PHE:CE2	1:J:463:GLU:HA	2.52	0.43
1:D:377:ALA:O	1:D:378:GLY:C	2.61	0.43
1:D:463:GLU:HA	1:J:140:PHE:CE2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4:HIS:C	1:E:6:LEU:N	2.72	0.43
1:E:93:GLU:OE1	1:E:93:GLU:C	2.61	0.43
1:E:339:ARG:HH11	1:E:339:ARG:CA	2.29	0.43
1:G:4:HIS:O	1:G:5:VAL:C	2.60	0.43
1:G:155:GLU:HA	1:G:172:ARG:HB2	1.99	0.43
1:G:233:ASP:HB3	1:G:368:TYR:OH	2.17	0.43
1:G:321:ARG:CG	1:G:322:LEU:N	2.81	0.43
1:G:331:MET:CE	1:G:396:LEU:CD1	2.81	0.43
1:H:110:ARG:HH11	1:H:110:ARG:HD3	1.61	0.43
1:H:280:ASN:C	1:H:280:ASN:HD22	2.25	0.43
1:H:382:ILE:O	1:H:383:LYS:O	2.35	0.43
1:H:384:ASN:O	1:H:385:LYS:C	2.61	0.43
1:I:68:MET:HB3	1:I:70:ASP:OD1	2.18	0.43
1:J:109:LYS:HG3	1:J:109:LYS:H	1.37	0.43
1:J:271:HIS:HD2	1:J:357:GLU:HG3	1.82	0.43
1:J:377:ALA:O	1:J:378:GLY:C	2.61	0.43
1:K:182:VAL:HG13	1:L:28:GLU:HG2	1.91	0.43
1:K:271:HIS:HA	1:K:356:ILE:O	2.18	0.43
1:K:301:VAL:O	1:K:305:ALA:N	2.50	0.43
1:K:403:GLU:C	1:K:405:LYS:HG3	2.42	0.43
1:K:412:GLY:C	1:K:413:SER:OG	2.58	0.43
1:L:27:LYS:CE	1:L:239:LYS:HZ1	2.29	0.43
1:L:39:ASN:HD22	1:L:39:ASN:N	2.12	0.43
1:L:64:ASP:O	1:L:66:VAL:N	2.47	0.43
1:L:93:GLU:O	1:L:96:THR:CG2	2.55	0.43
1:L:297:TYR:CZ	1:L:378:GLY:HA3	2.52	0.43
1:L:426:GLU:OE1	1:L:426:GLU:HA	2.17	0.43
1:A:4:HIS:O	1:A:5:VAL:C	2.60	0.43
1:A:233:ASP:HB3	1:A:368:TYR:OH	2.17	0.43
1:A:258:LYS:HD3	1:A:320:LYS:O	2.17	0.43
1:A:410:VAL:O	1:A:410:VAL:HG13	2.18	0.43
1:B:25:LYS:HA	1:B:25:LYS:HD2	1.66	0.43
1:B:68:MET:CE	1:B:105:ARG:HD3	2.27	0.43
1:B:68:MET:HB3	1:B:70:ASP:OD1	2.18	0.43
1:B:93:GLU:O	1:B:96:THR:CG2	2.55	0.43
1:B:143:SER:O	1:B:144:ILE:C	2.61	0.43
1:B:199:MET:HG2	1:B:204:LEU:HD11	2.00	0.43
1:C:134:LEU:HD12	1:C:134:LEU:HA	1.81	0.43
1:C:235:ILE:HB	1:C:367:PRO:HG2	2.01	0.43
1:C:301:VAL:O	1:C:305:ALA:N	2.50	0.43
1:C:380:ASP:CA	1:C:383:LYS:HB2	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:403:GLU:C	1:C:405:LYS:HG3	2.42	0.43
1:C:412:GLY:C	1:C:413:SER:OG	2.58	0.43
1:D:109:LYS:HG3	1:D:109:LYS:H	1.37	0.43
1:D:238:TYR:C	1:D:238:TYR:CD1	2.96	0.43
1:D:245:VAL:O	1:D:249:PHE:N	2.48	0.43
1:D:280:ASN:C	1:D:280:ASN:HD22	2.25	0.43
1:E:75:VAL:CG2	1:E:84:THR:CB	2.90	0.43
1:E:140:PHE:CE2	1:K:463:GLU:HA	2.52	0.43
1:E:167:GLY:O	1:E:169:LYS:HG2	2.18	0.43
1:E:407:ILE:HA	1:E:408:PRO:HD3	1.70	0.43
1:F:89:CYS:C	1:F:91:ILE:H	2.20	0.43
1:F:238:TYR:C	1:F:238:TYR:CD1	2.96	0.43
1:F:271:HIS:HA	1:F:356:ILE:O	2.18	0.43
1:F:344:ARG:NH1	1:F:357:GLU:OE1	2.51	0.43
1:F:384:ASN:O	1:F:385:LYS:C	2.62	0.43
1:G:98:GLN:O	1:G:99:GLY:C	2.61	0.43
1:G:199:MET:HG2	1:G:204:LEU:HD11	2.00	0.43
1:G:228:MET:HE3	1:G:375:LEU:HB2	2.00	0.43
1:G:235:ILE:HD13	1:G:235:ILE:HA	1.90	0.43
1:G:245:VAL:O	1:G:249:PHE:N	2.48	0.43
1:G:271:HIS:HD2	1:G:357:GLU:HG3	1.82	0.43
1:G:271:HIS:HA	1:G:356:ILE:O	2.18	0.43
1:G:308:ILE:HG12	1:G:308:ILE:H	1.37	0.43
1:G:410:VAL:O	1:G:410:VAL:HG13	2.18	0.43
1:H:93:GLU:OE1	1:H:93:GLU:CA	2.58	0.43
1:H:103:ASP:CG	1:H:106:SER:CB	2.83	0.43
1:H:180:PHE:CB	1:I:30:HIS:O	2.42	0.43
1:H:212:GLU:HB3	1:H:213:VAL:H	1.61	0.43
1:H:228:MET:HE3	1:H:375:LEU:HB2	2.00	0.43
1:H:348:VAL:HG12	1:H:354:ARG:HA	1.99	0.43
1:H:403:GLU:C	1:H:405:LYS:HG3	2.42	0.43
1:I:39:ASN:O	1:I:40:ALA:CB	2.62	0.43
1:I:67:LEU:HD12	1:I:68:MET:CG	2.26	0.43
1:I:110:ARG:HH11	1:I:110:ARG:HD3	1.60	0.43
1:I:167:GLY:O	1:I:169:LYS:HG2	2.18	0.43
1:I:348:VAL:HG12	1:I:354:ARG:HA	1.99	0.43
1:J:26:GLY:O	1:J:27:LYS:CG	2.57	0.43
1:J:245:VAL:O	1:J:249:PHE:N	2.48	0.43
1:J:280:ASN:C	1:J:280:ASN:HD22	2.25	0.43
1:J:447:ARG:O	1:J:448:GLU:C	2.61	0.43
1:K:73:THR:O	1:K:84:THR:N	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:98:GLN:O	1:K:99:GLY:C	2.61	0.43
1:K:238:TYR:C	1:K:238:TYR:CD1	2.96	0.43
1:K:325:GLY:C	1:K:326:TYR:CD2	2.91	0.43
1:L:17:VAL:O	1:L:18:ASP:CB	2.66	0.43
1:L:75:VAL:CG2	1:L:84:THR:CB	2.90	0.43
1:A:245:VAL:O	1:A:249:PHE:N	2.48	0.43
1:A:271:HIS:HD2	1:A:357:GLU:HG3	1.82	0.43
1:B:17:VAL:HG11	1:B:33:ILE:CG2	2.48	0.43
1:B:28:GLU:HG2	1:C:182:VAL:CG2	2.47	0.43
1:B:33:ILE:HD13	1:B:33:ILE:HA	1.75	0.43
1:B:271:HIS:HA	1:B:356:ILE:O	2.18	0.43
1:B:281:LEU:CD2	1:B:293:GLN:NE2	2.81	0.43
1:B:297:TYR:CZ	1:B:378:GLY:HA3	2.52	0.43
1:B:348:VAL:O	1:B:349:ALA:HB3	2.17	0.43
1:B:402:GLU:C	1:B:404:ALA:N	2.75	0.43
1:C:73:THR:O	1:C:84:THR:N	2.45	0.43
1:C:325:GLY:C	1:C:326:TYR:CD2	2.91	0.43
1:C:339:ARG:NH1	1:C:339:ARG:CA	2.79	0.43
1:C:458:HIS:O	1:C:459:PRO:C	2.60	0.43
1:C:463:GLU:HA	1:I:140:PHE:CE2	2.52	0.43
1:D:7:THR:O	1:D:8:MET:C	2.61	0.43
1:D:24:THR:HB	1:D:26:GLY:N	2.30	0.43
1:D:317:ASN:CA	1:J:461:GLU:OE1	2.65	0.43
1:E:48:MET:O	1:E:48:MET:HG2	2.18	0.43
1:E:258:LYS:N	1:E:317:ASN:ND2	2.67	0.43
1:E:348:VAL:HG12	1:E:354:ARG:HA	1.99	0.43
1:E:412:GLY:C	1:E:413:SER:HG	2.27	0.43
1:E:426:GLU:C	1:E:428:LEU:N	2.75	0.43
1:F:103:ASP:CG	1:F:106:SER:CB	2.83	0.43
1:F:228:MET:HE3	1:F:375:LEU:HB2	2.00	0.43
1:F:348:VAL:HG12	1:F:354:ARG:HA	1.99	0.43
1:F:403:GLU:C	1:F:405:LYS:HG3	2.42	0.43
1:G:226:ASN:HB3	1:G:227:THR:H	1.52	0.43
1:G:297:TYR:CZ	1:G:378:GLY:HA3	2.53	0.43
1:G:390:GLU:CG	1:G:391:PRO:HD2	2.48	0.43
1:H:7:THR:O	1:H:8:MET:C	2.60	0.43
1:H:238:TYR:C	1:H:238:TYR:CD1	2.96	0.43
1:H:271:HIS:HA	1:H:356:ILE:O	2.18	0.43
1:H:297:TYR:CZ	1:H:378:GLY:HA3	2.53	0.43
1:I:98:GLN:O	1:I:99:GLY:C	2.61	0.43
1:I:258:LYS:N	1:I:317:ASN:ND2	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:271:HIS:HA	1:I:356:ILE:O	2.18	0.43
1:I:280:ASN:C	1:I:280:ASN:HD22	2.25	0.43
1:J:24:THR:HB	1:J:26:GLY:N	2.30	0.43
1:J:89:CYS:HB3	1:J:90:ASP:CG	2.37	0.43
1:J:199:MET:HG2	1:J:204:LEU:HD11	2.00	0.43
1:J:445:LEU:C	1:J:447:ARG:N	2.75	0.43
1:K:182:VAL:CG2	1:L:28:GLU:HG2	2.47	0.43
1:K:191:ILE:HG13	1:K:249:PHE:CD1	2.53	0.43
1:K:311:LEU:HD23	1:K:311:LEU:HA	1.54	0.43
1:K:339:ARG:NH1	1:K:339:ARG:CA	2.79	0.43
1:L:271:HIS:HA	1:L:356:ILE:O	2.18	0.43
1:L:281:LEU:CD2	1:L:293:GLN:NE2	2.81	0.43
1:L:348:VAL:O	1:L:349:ALA:HB3	2.17	0.43
1:A:65:MET:N	1:A:87:ILE:CG2	2.82	0.43
1:A:68:MET:HB3	1:A:70:ASP:OD1	2.17	0.43
1:A:98:GLN:O	1:A:99:GLY:C	2.61	0.43
1:A:155:GLU:HA	1:A:172:ARG:HB2	1.99	0.43
1:A:297:TYR:CZ	1:A:378:GLY:HA3	2.53	0.43
1:A:390:GLU:CG	1:A:391:PRO:HD2	2.49	0.43
1:A:447:ARG:O	1:A:448:GLU:C	2.61	0.43
1:B:39:ASN:HD22	1:B:39:ASN:N	2.12	0.43
1:B:384:ASN:O	1:B:385:LYS:C	2.62	0.43
1:B:410:VAL:O	1:B:410:VAL:HG13	2.18	0.43
1:B:412:GLY:C	1:B:413:SER:OG	2.58	0.43
1:C:65:MET:C	1:C:87:ILE:CG2	2.88	0.43
1:C:92:LEU:CA	1:C:97:LEU:H	2.31	0.43
1:C:120:ILE:CD1	1:C:382:ILE:CG2	2.94	0.43
1:C:163:LYS:HG3	1:C:164:TYR:N	2.32	0.43
1:D:4:HIS:O	1:D:5:VAL:C	2.60	0.43
1:D:30:HIS:N	1:E:180:PHE:O	2.48	0.43
1:D:191:ILE:HG13	1:D:249:PHE:CD1	2.53	0.43
1:D:235:ILE:HG21	1:D:367:PRO:HG3	1.99	0.43
1:D:295:LEU:HB3	1:D:388:PRO:HG3	2.01	0.43
1:D:403:GLU:N	1:D:405:LYS:HG2	2.29	0.43
1:D:445:LEU:C	1:D:447:ARG:N	2.75	0.43
1:E:19:LEU:CD2	1:E:75:VAL:HG21	2.38	0.43
1:E:36:HIS:HB2	1:E:37:GLN:H	1.45	0.43
1:E:235:ILE:HB	1:E:367:PRO:HG2	2.01	0.43
1:E:238:TYR:C	1:E:238:TYR:CD1	2.96	0.43
1:E:280:ASN:C	1:E:280:ASN:HD22	2.25	0.43
1:F:93:GLU:OE1	1:F:93:GLU:CA	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:93:GLU:H	1:F:96:THR:HA	1.83	0.43
1:F:114:TYR:CD2	1:F:431:GLY:HA3	2.53	0.43
1:F:199:MET:HG2	1:F:204:LEU:HD11	2.00	0.43
1:F:233:ASP:HB3	1:F:368:TYR:OH	2.17	0.43
1:F:297:TYR:CZ	1:F:378:GLY:HA3	2.53	0.43
1:G:28:GLU:HG2	1:L:182:VAL:HG13	1.91	0.43
1:G:65:MET:N	1:G:87:ILE:CG2	2.82	0.43
1:G:68:MET:HB3	1:G:70:ASP:OD1	2.17	0.43
1:G:258:LYS:HD3	1:G:320:LYS:O	2.17	0.43
1:G:295:LEU:HB3	1:G:388:PRO:HG3	2.01	0.43
1:G:426:GLU:OE1	1:G:426:GLU:HA	2.17	0.43
1:H:131:GLU:HG3	1:H:267:GLY:H	1.84	0.43
1:H:199:MET:HG2	1:H:204:LEU:HD11	2.00	0.43
1:H:344:ARG:NH1	1:H:357:GLU:OE1	2.51	0.43
1:I:48:MET:O	1:I:48:MET:HG2	2.18	0.43
1:I:202:MET:HB2	1:I:202:MET:HE3	1.58	0.43
1:I:235:ILE:HB	1:I:367:PRO:HG2	2.00	0.43
1:I:362:ASP:HB2	1:I:363:PRO:HD2	2.01	0.43
1:J:4:HIS:O	1:J:5:VAL:C	2.60	0.43
1:J:114:TYR:CD2	1:J:431:GLY:HA3	2.53	0.43
1:J:154:ILE:O	1:J:155:GLU:CB	2.50	0.43
1:J:191:ILE:HG13	1:J:249:PHE:CD1	2.53	0.43
1:J:362:ASP:HB2	1:J:363:PRO:HD2	2.00	0.43
1:K:65:MET:C	1:K:87:ILE:CG2	2.88	0.43
1:K:109:LYS:HG3	1:K:109:LYS:H	1.37	0.43
1:K:163:LYS:HG3	1:K:164:TYR:N	2.31	0.43
1:L:17:VAL:HG11	1:L:33:ILE:CG2	2.48	0.43
1:L:65:MET:N	1:L:87:ILE:CG2	2.82	0.43
1:L:68:MET:CE	1:L:105:ARG:HD3	2.27	0.43
1:L:98:GLN:O	1:L:99:GLY:C	2.61	0.43
1:L:143:SER:O	1:L:144:ILE:C	2.61	0.43
1:L:366:ASN:O	1:L:367:PRO:C	2.61	0.43
1:L:402:GLU:C	1:L:404:ALA:N	2.75	0.43
1:A:58:LYS:HB3	1:B:337:ARG:HB2	2.00	0.43
1:A:157:ALA:N	1:A:215:THR:HG22	2.09	0.43
1:A:202:MET:HE3	1:A:202:MET:HB2	1.58	0.43
1:A:235:ILE:HD13	1:A:235:ILE:HA	1.89	0.43
1:A:403:GLU:C	1:A:405:LYS:HG3	2.42	0.43
1:B:17:VAL:O	1:B:18:ASP:CB	2.66	0.43
1:B:28:GLU:HG2	1:C:182:VAL:HG13	1.91	0.43
1:B:64:ASP:O	1:B:66:VAL:N	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:366:ASN:O	1:B:367:PRO:C	2.61	0.43
1:C:58:LYS:HB3	1:D:337:ARG:HB2	2.00	0.43
1:C:64:ASP:O	1:C:66:VAL:N	2.47	0.43
1:C:109:LYS:HG3	1:C:109:LYS:H	1.37	0.43
1:C:301:VAL:HG23	1:C:301:VAL:H	1.32	0.43
1:C:376:MET:HE2	1:C:433:VAL:HG21	1.99	0.43
1:D:65:MET:C	1:D:87:ILE:CG2	2.88	0.43
1:D:67:LEU:HD11	1:D:88:ARG:HH11	1.84	0.43
1:D:89:CYS:HB3	1:D:90:ASP:CG	2.37	0.43
1:D:163:LYS:HG3	1:D:164:TYR:N	2.31	0.43
1:D:207:GLU:O	1:D:208:ALA:CB	2.66	0.43
1:D:214:ALA:HB3	1:D:218:GLN:HG3	2.01	0.43
1:D:321:ARG:CG	1:D:322:LEU:N	2.81	0.43
1:D:362:ASP:HB2	1:D:363:PRO:HD2	2.01	0.43
1:D:384:ASN:O	1:D:385:LYS:C	2.62	0.43
1:D:410:VAL:O	1:D:410:VAL:HG13	2.19	0.43
1:D:449:GLU:OE1	1:J:465:TYR:HE2	1.99	0.43
1:E:214:ALA:HB3	1:E:218:GLN:HG3	2.01	0.43
1:E:271:HIS:HA	1:E:356:ILE:O	2.18	0.43
1:E:339:ARG:HD2	1:E:340:SER:N	2.34	0.43
1:F:7:THR:O	1:F:8:MET:C	2.61	0.43
1:G:58:LYS:HB3	1:L:337:ARG:HB2	2.00	0.43
1:G:403:GLU:C	1:G:405:LYS:HG3	2.42	0.43
1:G:447:ARG:O	1:G:448:GLU:C	2.61	0.43
1:H:235:ILE:HB	1:H:367:PRO:HG2	2.01	0.43
1:I:19:LEU:CD2	1:I:75:VAL:HG21	2.38	0.43
1:I:43:PHE:CE2	1:I:69:PRO:HB3	2.44	0.43
1:I:75:VAL:CG2	1:I:84:THR:CB	2.90	0.43
1:I:93:GLU:O	1:I:96:THR:CG2	2.55	0.43
1:I:116:ARG:HE	1:I:116:ARG:HB2	1.57	0.43
1:I:191:ILE:HG13	1:I:249:PHE:CD1	2.53	0.43
1:I:238:TYR:C	1:I:238:TYR:CD1	2.96	0.43
1:I:295:LEU:HB3	1:I:388:PRO:HG3	2.01	0.43
1:I:339:ARG:HH11	1:I:339:ARG:CA	2.30	0.43
1:I:351:PRO:HG2	1:I:352:LYS:H	1.79	0.43
1:I:412:GLY:C	1:I:413:SER:HG	2.27	0.43
1:J:65:MET:C	1:J:87:ILE:CG2	2.88	0.43
1:J:68:MET:CE	1:J:105:ARG:HD3	2.27	0.43
1:J:78:PRO:CA	1:J:79:PHE:CD2	3.02	0.43
1:J:235:ILE:HG21	1:J:367:PRO:HG3	1.99	0.43
1:J:238:TYR:C	1:J:238:TYR:CD1	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:384:ASN:O	1:J:385:LYS:C	2.62	0.43
1:K:64:ASP:O	1:K:66:VAL:N	2.47	0.43
1:K:67:LEU:O	1:K:86:ILE:CD1	2.66	0.43
1:K:78:PRO:CA	1:K:79:PHE:CD2	3.02	0.43
1:K:297:TYR:CZ	1:K:378:GLY:HA3	2.52	0.43
1:K:384:ASN:O	1:K:385:LYS:C	2.61	0.43
1:L:238:TYR:C	1:L:238:TYR:CD1	2.96	0.43
1:L:384:ASN:O	1:L:385:LYS:C	2.62	0.43
1:A:39:ASN:O	1:A:40:ALA:CB	2.62	0.43
1:A:93:GLU:H	1:A:96:THR:HA	1.83	0.43
1:A:271:HIS:HA	1:A:356:ILE:O	2.18	0.43
1:A:331:MET:CE	1:A:396:LEU:CD1	2.81	0.43
1:A:339:ARG:N	1:A:339:ARG:CZ	2.81	0.43
1:A:426:GLU:OE1	1:A:426:GLU:HA	2.17	0.43
1:A:465:TYR:HH	1:G:449:GLU:CD	2.11	0.43
1:B:65:MET:N	1:B:87:ILE:CG2	2.82	0.43
1:B:98:GLN:O	1:B:99:GLY:C	2.61	0.43
1:B:191:ILE:HG13	1:B:249:PHE:CD1	2.53	0.43
1:C:7:THR:O	1:C:8:MET:C	2.61	0.43
1:C:281:LEU:CD2	1:C:293:GLN:NE2	2.81	0.43
1:C:331:MET:HB2	1:C:341:ALA:HA	2.00	0.43
1:C:344:ARG:NH1	1:C:357:GLU:OE1	2.51	0.43
1:C:348:VAL:O	1:C:349:ALA:HB3	2.17	0.43
1:D:78:PRO:CA	1:D:79:PHE:CD2	3.02	0.43
1:D:114:TYR:CD2	1:D:431:GLY:HA3	2.54	0.43
1:D:199:MET:HG2	1:D:204:LEU:HD11	2.00	0.43
1:D:281:LEU:CD2	1:D:293:GLN:NE2	2.81	0.43
1:D:447:ARG:O	1:D:448:GLU:C	2.61	0.43
1:E:17:VAL:HG11	1:E:33:ILE:CG2	2.48	0.43
1:E:43:PHE:CE2	1:E:69:PRO:HB3	2.44	0.43
1:E:93:GLU:H	1:E:96:THR:HA	1.83	0.43
1:E:362:ASP:HB2	1:E:363:PRO:HD2	2.01	0.43
1:F:65:MET:N	1:F:87:ILE:CG2	2.82	0.43
1:F:90:ASP:O	1:F:91:ILE:O	2.21	0.43
1:F:131:GLU:HG3	1:F:267:GLY:H	1.84	0.43
1:F:245:VAL:O	1:F:246:ALA:C	2.62	0.43
1:F:280:ASN:C	1:F:280:ASN:HD22	2.25	0.43
1:F:295:LEU:HB3	1:F:388:PRO:HG3	2.01	0.43
1:F:362:ASP:HB2	1:F:363:PRO:HD2	2.00	0.43
1:G:103:ASP:CG	1:G:106:SER:CB	2.83	0.43
1:G:119:GLY:C	1:G:121:ALA:H	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:344:ARG:NH1	1:G:357:GLU:OE1	2.51	0.43
1:H:65:MET:N	1:H:87:ILE:CG2	2.82	0.43
1:H:90:ASP:O	1:H:91:ILE:O	2.21	0.43
1:H:93:GLU:H	1:H:96:THR:HA	1.83	0.43
1:H:233:ASP:HB3	1:H:368:TYR:OH	2.17	0.43
1:I:114:TYR:CD2	1:I:431:GLY:HA3	2.54	0.43
1:I:390:GLU:CG	1:I:391:PRO:HD2	2.48	0.43
1:I:410:VAL:O	1:I:410:VAL:HG13	2.18	0.43
1:J:7:THR:O	1:J:8:MET:C	2.61	0.43
1:J:67:LEU:HD11	1:J:88:ARG:HH11	1.84	0.43
1:J:93:GLU:H	1:J:96:THR:HA	1.83	0.43
1:J:110:ARG:O	1:J:114:TYR:N	2.43	0.43
1:J:163:LYS:HG3	1:J:164:TYR:N	2.32	0.43
1:J:281:LEU:CD2	1:J:293:GLN:NE2	2.81	0.43
1:J:321:ARG:CG	1:J:322:LEU:N	2.81	0.43
1:K:7:THR:O	1:K:8:MET:C	2.61	0.43
1:K:92:LEU:CA	1:K:97:LEU:H	2.31	0.43
1:K:120:ILE:CD1	1:K:382:ILE:CG2	2.94	0.43
1:K:281:LEU:CD2	1:K:293:GLN:NE2	2.81	0.43
1:K:348:VAL:O	1:K:349:ALA:HB3	2.17	0.43
1:L:175:VAL:CA	1:L:215:THR:HG23	2.43	0.43
1:L:321:ARG:CG	1:L:322:LEU:N	2.81	0.43
1:L:410:VAL:O	1:L:410:VAL:HG13	2.19	0.43
1:A:28:GLU:HG2	1:B:182:VAL:HG13	1.91	0.43
1:A:103:ASP:CG	1:A:106:SER:CB	2.83	0.43
1:A:136:ASP:N	1:A:153:ASP:HB2	2.23	0.43
1:A:235:ILE:HG21	1:A:367:PRO:HG3	1.99	0.43
1:A:295:LEU:HB3	1:A:388:PRO:HG3	2.01	0.43
1:A:344:ARG:NH1	1:A:357:GLU:OE1	2.51	0.43
1:A:373:ALA:O	1:A:374:LEU:C	2.62	0.43
1:A:402:GLU:C	1:A:404:ALA:N	2.75	0.43
1:B:321:ARG:CG	1:B:322:LEU:N	2.81	0.43
1:B:339:ARG:N	1:B:339:ARG:CZ	2.81	0.43
1:B:344:ARG:NH1	1:B:357:GLU:OE1	2.51	0.43
1:C:4:HIS:O	1:C:5:VAL:C	2.60	0.43
1:C:67:LEU:O	1:C:86:ILE:CD1	2.66	0.43
1:C:68:MET:HB3	1:C:70:ASP:OD1	2.17	0.43
1:C:78:PRO:CA	1:C:79:PHE:CD2	3.02	0.43
1:C:297:TYR:CZ	1:C:378:GLY:HA3	2.53	0.43
1:C:366:ASN:O	1:C:367:PRO:C	2.61	0.43
1:C:384:ASN:O	1:C:385:LYS:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:271:HIS:HD2	1:D:357:GLU:HG3	1.82	0.43
1:E:191:ILE:HG13	1:E:249:PHE:CD1	2.53	0.43
1:E:295:LEU:HB3	1:E:388:PRO:HG3	2.01	0.43
1:E:410:VAL:O	1:E:410:VAL:HG13	2.18	0.43
1:F:17:VAL:O	1:F:18:ASP:CB	2.66	0.43
1:F:27:LYS:HZ3	1:F:239:LYS:HZ1	0.45	0.43
1:F:376:MET:CE	1:F:433:VAL:CG2	2.87	0.43
1:G:339:ARG:N	1:G:339:ARG:CZ	2.81	0.43
1:G:373:ALA:O	1:G:374:LEU:C	2.62	0.43
1:G:448:GLU:O	1:G:449:GLU:C	2.62	0.43
1:H:17:VAL:O	1:H:18:ASP:CB	2.66	0.43
1:H:92:LEU:CA	1:H:97:LEU:H	2.31	0.43
1:H:337:ARG:HB2	1:I:58:LYS:HB3	2.00	0.43
1:H:377:ALA:O	1:H:378:GLY:C	2.61	0.43
1:H:407:ILE:HA	1:H:408:PRO:HD3	1.71	0.43
1:I:20:ARG:HD2	1:I:237:ILE:CD1	2.48	0.43
1:I:92:LEU:CA	1:I:97:LEU:H	2.31	0.43
1:I:93:GLU:H	1:I:96:THR:HA	1.83	0.43
1:I:106:SER:C	1:I:108:ALA:N	2.76	0.43
1:I:339:ARG:HD2	1:I:340:SER:N	2.34	0.43
1:J:93:GLU:OE1	1:J:93:GLU:C	2.61	0.43
1:J:207:GLU:O	1:J:208:ALA:CB	2.66	0.43
1:J:214:ALA:HB3	1:J:218:GLN:HG3	2.01	0.43
1:J:410:VAL:O	1:J:410:VAL:HG13	2.19	0.43
1:K:20:ARG:HD2	1:K:237:ILE:CD1	2.48	0.43
1:K:68:MET:CE	1:K:88:ARG:HG3	2.49	0.43
1:K:167:GLY:O	1:K:169:LYS:HG2	2.18	0.43
1:K:337:ARG:HB2	1:L:58:LYS:HB3	2.00	0.43
1:K:344:ARG:NH1	1:K:357:GLU:OE1	2.51	0.43
1:K:348:VAL:HG12	1:K:354:ARG:HA	2.00	0.43
1:K:366:ASN:O	1:K:367:PRO:C	2.61	0.43
1:L:373:ALA:O	1:L:374:LEU:C	2.62	0.43
1:A:61:ASN:C	1:A:62:GLU:HG3	2.44	0.43
1:A:78:PRO:CA	1:A:79:PHE:CD2	3.02	0.43
1:A:167:GLY:O	1:A:169:LYS:HG2	2.18	0.43
1:A:191:ILE:HG13	1:A:249:PHE:CD1	2.53	0.43
1:A:403:GLU:OE1	1:A:406:GLU:HG3	2.19	0.43
1:A:448:GLU:O	1:A:449:GLU:C	2.62	0.43
1:B:93:GLU:OE1	1:B:93:GLU:C	2.61	0.43
1:B:238:TYR:C	1:B:238:TYR:CD1	2.96	0.43
1:B:374:LEU:HD13	1:B:374:LEU:HA	1.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:466:TYR:CZ	1:H:252:THR:HG21	2.33	0.43
1:C:4:HIS:C	1:C:6:LEU:N	2.72	0.43
1:C:93:GLU:OE1	1:C:93:GLU:C	2.61	0.43
1:C:114:TYR:CD2	1:C:431:GLY:HA3	2.54	0.43
1:C:143:SER:O	1:C:144:ILE:C	2.61	0.43
1:C:295:LEU:HB3	1:C:388:PRO:HG3	2.01	0.43
1:C:348:VAL:HG12	1:C:354:ARG:HA	2.00	0.43
1:C:350:SER:HA	1:C:351:PRO:HD2	1.65	0.43
1:C:390:GLU:HG3	1:C:391:PRO:HD2	2.01	0.43
1:C:401:PRO:O	1:C:403:GLU:N	2.52	0.43
1:D:68:MET:CE	1:D:88:ARG:HG3	2.49	0.43
1:D:409:GLN:O	1:D:411:ALA:N	2.52	0.43
1:E:10:ASN:C	1:E:12:HIS:N	2.76	0.43
1:E:20:ARG:HD2	1:E:237:ILE:CD1	2.48	0.43
1:E:58:LYS:HB3	1:F:337:ARG:HB2	2.00	0.43
1:E:61:ASN:C	1:E:62:GLU:HG3	2.44	0.43
1:E:93:GLU:O	1:E:96:THR:CG2	2.55	0.43
1:E:106:SER:C	1:E:108:ALA:N	2.76	0.43
1:E:131:GLU:HG3	1:E:267:GLY:H	1.84	0.43
1:E:351:PRO:HG2	1:E:352:LYS:H	1.79	0.43
1:E:390:GLU:CG	1:E:391:PRO:HD2	2.49	0.43
1:F:92:LEU:CA	1:F:97:LEU:H	2.31	0.43
1:F:207:GLU:O	1:F:208:ALA:CB	2.66	0.43
1:F:216:ALA:HB3	1:F:260:MET:CE	2.47	0.43
1:F:235:ILE:HB	1:F:367:PRO:HG2	2.01	0.43
1:G:61:ASN:C	1:G:62:GLU:HG3	2.44	0.43
1:G:67:LEU:O	1:G:86:ILE:CD1	2.66	0.43
1:G:78:PRO:CA	1:G:79:PHE:CD2	3.02	0.43
1:G:93:GLU:H	1:G:96:THR:HA	1.83	0.43
1:G:167:GLY:O	1:G:169:LYS:HG2	2.18	0.43
1:G:402:GLU:C	1:G:404:ALA:N	2.75	0.43
1:H:114:TYR:CD2	1:H:431:GLY:HA3	2.54	0.43
1:H:207:GLU:O	1:H:208:ALA:CB	2.66	0.43
1:H:216:ALA:HB3	1:H:260:MET:CE	2.47	0.43
1:H:235:ILE:HG21	1:H:367:PRO:HG3	1.99	0.43
1:H:245:VAL:O	1:H:246:ALA:C	2.62	0.43
1:H:321:ARG:CG	1:H:322:LEU:N	2.81	0.43
1:H:401:PRO:O	1:H:403:GLU:N	2.52	0.43
1:I:7:THR:O	1:I:8:MET:C	2.61	0.43
1:I:17:VAL:HG11	1:I:33:ILE:CG2	2.48	0.43
1:I:65:MET:HE2	1:I:66:VAL:N	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:131:GLU:HG3	1:I:267:GLY:H	1.84	0.43
1:I:180:PHE:O	1:J:30:HIS:N	2.48	0.43
1:I:199:MET:HG2	1:I:204:LEU:HD11	2.00	0.43
1:J:109:LYS:O	1:J:112:GLU:N	2.52	0.43
1:J:116:ARG:HE	1:J:116:ARG:HB2	1.57	0.43
1:J:155:GLU:HA	1:J:172:ARG:HB2	1.99	0.43
1:J:337:ARG:HB2	1:K:58:LYS:HB3	2.00	0.43
1:J:403:GLU:N	1:J:405:LYS:HG2	2.30	0.43
1:J:409:GLN:O	1:J:411:ALA:N	2.52	0.43
1:K:4:HIS:O	1:K:5:VAL:C	2.60	0.43
1:K:65:MET:C	1:K:65:MET:CE	2.76	0.43
1:K:65:MET:N	1:K:87:ILE:CG2	2.82	0.43
1:K:93:GLU:OE1	1:K:93:GLU:C	2.61	0.43
1:K:143:SER:O	1:K:144:ILE:C	2.61	0.43
1:L:93:GLU:OE1	1:L:93:GLU:C	2.61	0.43
1:L:136:ASP:N	1:L:153:ASP:HB2	2.23	0.43
1:L:339:ARG:N	1:L:339:ARG:CZ	2.81	0.43
1:L:344:ARG:NH1	1:L:357:GLU:OE1	2.51	0.43
1:L:409:GLN:O	1:L:411:ALA:N	2.52	0.43
1:A:17:VAL:O	1:A:18:ASP:CB	2.66	0.43
1:A:119:GLY:C	1:A:121:ALA:H	2.23	0.43
1:A:308:ILE:HG12	1:A:308:ILE:H	1.37	0.43
1:B:48:MET:O	1:B:48:MET:HG2	2.18	0.43
1:B:136:ASP:N	1:B:153:ASP:HB2	2.23	0.43
1:B:175:VAL:CA	1:B:215:THR:HG23	2.43	0.43
1:B:235:ILE:HB	1:B:367:PRO:HG2	2.00	0.43
1:B:373:ALA:O	1:B:374:LEU:C	2.62	0.43
1:B:409:GLN:O	1:B:411:ALA:N	2.52	0.43
1:B:428:LEU:HD12	1:B:428:LEU:HA	1.88	0.43
1:C:48:MET:O	1:C:48:MET:HG2	2.18	0.43
1:C:106:SER:C	1:C:108:ALA:N	2.76	0.43
1:C:258:LYS:N	1:C:317:ASN:ND2	2.67	0.43
1:D:110:ARG:O	1:D:114:TYR:N	2.43	0.43
1:D:143:SER:O	1:D:144:ILE:C	2.61	0.43
1:D:154:ILE:O	1:D:155:GLU:CB	2.50	0.43
1:D:155:GLU:HA	1:D:172:ARG:HB2	1.99	0.43
1:E:27:LYS:HZ2	1:E:239:LYS:NZ	1.99	0.43
1:E:65:MET:HE2	1:E:66:VAL:N	2.32	0.43
1:E:377:ALA:O	1:E:378:GLY:C	2.61	0.43
1:F:20:ARG:HD2	1:F:237:ILE:CD1	2.48	0.43
1:F:26:GLY:O	1:F:27:LYS:CG	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:191:ILE:HG13	1:F:249:PHE:CD1	2.53	0.43
1:F:258:LYS:N	1:F:317:ASN:ND2	2.67	0.43
1:F:339:ARG:N	1:F:339:ARG:CZ	2.81	0.43
1:F:377:ALA:O	1:F:378:GLY:C	2.61	0.43
1:F:401:PRO:O	1:F:403:GLU:N	2.52	0.43
1:F:403:GLU:OE1	1:F:406:GLU:HG3	2.19	0.43
1:G:17:VAL:O	1:G:18:ASP:CB	2.66	0.43
1:G:39:ASN:O	1:G:40:ALA:CB	2.62	0.43
1:G:157:ALA:N	1:G:215:THR:HG22	2.09	0.43
1:G:191:ILE:HG13	1:G:249:PHE:CD1	2.53	0.43
1:G:235:ILE:HG21	1:G:367:PRO:HG3	1.99	0.43
1:H:89:CYS:C	1:H:91:ILE:H	2.20	0.43
1:H:140:PHE:CD2	1:H:140:PHE:C	2.97	0.43
1:H:295:LEU:HB3	1:H:388:PRO:HG3	2.01	0.43
1:H:339:ARG:N	1:H:339:ARG:CZ	2.81	0.43
1:I:10:ASN:C	1:I:12:HIS:N	2.76	0.43
1:I:25:LYS:HA	1:I:25:LYS:HD2	1.67	0.43
1:I:61:ASN:C	1:I:62:GLU:HG3	2.44	0.43
1:J:68:MET:CE	1:J:88:ARG:HG3	2.49	0.43
1:J:143:SER:O	1:J:144:ILE:C	2.61	0.43
1:J:235:ILE:HB	1:J:367:PRO:HG2	2.00	0.43
1:J:295:LEU:HB3	1:J:388:PRO:HG3	2.01	0.43
1:K:67:LEU:HD11	1:K:88:ARG:HH11	1.84	0.43
1:K:68:MET:HB3	1:K:70:ASP:OD1	2.18	0.43
1:K:114:TYR:CD2	1:K:431:GLY:HA3	2.53	0.43
1:K:134:LEU:HD12	1:K:134:LEU:HA	1.81	0.43
1:K:331:MET:HB2	1:K:341:ALA:HA	2.01	0.43
1:K:350:SER:HA	1:K:351:PRO:HD2	1.65	0.43
1:K:377:ALA:O	1:K:378:GLY:C	2.61	0.43
1:K:401:PRO:O	1:K:403:GLU:N	2.52	0.43
1:L:191:ILE:HG13	1:L:249:PHE:CD1	2.53	0.43
1:L:376:MET:HE1	1:L:433:VAL:CG1	2.22	0.43
1:L:403:GLU:OE1	1:L:406:GLU:HG3	2.19	0.43
1:A:67:LEU:O	1:A:86:ILE:CD1	2.66	0.43
1:A:399:LEU:O	1:A:399:LEU:HG	2.19	0.43
1:B:39:ASN:ND2	1:B:39:ASN:N	2.67	0.43
1:B:58:LYS:HB3	1:C:337:ARG:HB2	2.00	0.43
1:B:61:ASN:C	1:B:62:GLU:HG3	2.44	0.43
1:B:89:CYS:C	1:B:91:ILE:H	2.20	0.43
1:B:433:VAL:O	1:B:434:PHE:CB	2.58	0.43
1:B:437:GLU:HB2	1:B:438:ALA:H	1.11	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:20:ARG:HD2	1:C:237:ILE:CD1	2.48	0.43
1:C:65:MET:N	1:C:87:ILE:CG2	2.82	0.43
1:C:67:LEU:HD11	1:C:88:ARG:HH11	1.84	0.43
1:C:68:MET:CE	1:C:88:ARG:HG3	2.49	0.43
1:C:339:ARG:N	1:C:339:ARG:CZ	2.81	0.43
1:C:362:ASP:HB2	1:C:363:PRO:HD2	2.00	0.43
1:C:377:ALA:O	1:C:378:GLY:C	2.62	0.43
1:C:385:LYS:O	1:C:386:ILE:HB	2.19	0.43
1:C:410:VAL:O	1:C:410:VAL:HG13	2.18	0.43
1:D:39:ASN:ND2	1:D:39:ASN:N	2.67	0.43
1:D:93:GLU:OE1	1:D:93:GLU:C	2.61	0.43
1:D:109:LYS:O	1:D:112:GLU:N	2.52	0.43
1:D:115:LEU:C	1:D:115:LEU:CD2	2.92	0.43
1:D:116:ARG:HE	1:D:116:ARG:HB2	1.57	0.43
1:D:202:MET:HG2	1:D:237:ILE:HG23	2.01	0.43
1:D:331:MET:HB2	1:D:341:ALA:HA	2.01	0.43
1:D:376:MET:HE2	1:D:433:VAL:HG21	1.99	0.43
1:D:401:PRO:O	1:D:403:GLU:N	2.52	0.43
1:E:7:THR:O	1:E:8:MET:C	2.61	0.43
1:E:116:ARG:HE	1:E:116:ARG:HB2	1.57	0.43
1:E:199:MET:HG2	1:E:204:LEU:HD11	2.00	0.43
1:F:43:PHE:CE2	1:F:69:PRO:HB3	2.45	0.43
1:F:78:PRO:CA	1:F:79:PHE:CD2	3.02	0.43
1:F:140:PHE:CD2	1:F:140:PHE:C	2.97	0.43
1:F:299:GLY:HA3	1:F:386:ILE:CG2	2.49	0.43
1:F:373:ALA:O	1:F:374:LEU:C	2.62	0.43
1:F:407:ILE:HA	1:F:408:PRO:HD3	1.71	0.43
1:G:10:ASN:C	1:G:12:HIS:N	2.76	0.43
1:G:39:ASN:ND2	1:G:39:ASN:N	2.67	0.43
1:G:384:ASN:O	1:G:385:LYS:C	2.61	0.43
1:G:403:GLU:OE1	1:G:406:GLU:HG3	2.19	0.43
1:H:20:ARG:HD2	1:H:237:ILE:CD1	2.48	0.43
1:H:26:GLY:O	1:H:27:LYS:CG	2.57	0.43
1:H:68:MET:CE	1:H:88:ARG:HG3	2.49	0.43
1:H:78:PRO:CA	1:H:79:PHE:CD2	3.02	0.43
1:H:191:ILE:HG13	1:H:249:PHE:CD1	2.53	0.43
1:H:299:GLY:HA3	1:H:386:ILE:CG2	2.49	0.43
1:H:362:ASP:HB2	1:H:363:PRO:HD2	2.00	0.43
1:I:214:ALA:HB3	1:I:218:GLN:HG3	2.01	0.43
1:J:167:GLY:O	1:J:169:LYS:HG2	2.18	0.43
1:J:331:MET:HB2	1:J:341:ALA:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:106:SER:C	1:K:108:ALA:N	2.76	0.43
1:K:258:LYS:N	1:K:317:ASN:ND2	2.67	0.43
1:L:33:ILE:HD13	1:L:33:ILE:HA	1.75	0.43
1:L:39:ASN:ND2	1:L:39:ASN:N	2.67	0.43
1:L:65:MET:C	1:L:87:ILE:CG2	2.88	0.43
1:L:374:LEU:HD13	1:L:374:LEU:HA	1.87	0.43
1:L:401:PRO:O	1:L:403:GLU:N	2.52	0.43
1:L:433:VAL:O	1:L:434:PHE:CB	2.58	0.43
1:A:39:ASN:ND2	1:A:39:ASN:N	2.67	0.42
1:A:114:TYR:CD2	1:A:431:GLY:HA3	2.54	0.42
1:A:316:THR:HG21	1:G:461:GLU:CD	2.39	0.42
1:A:401:PRO:O	1:A:403:GLU:N	2.52	0.42
1:B:65:MET:C	1:B:87:ILE:CG2	2.88	0.42
1:B:67:LEU:HD12	1:B:68:MET:CG	2.26	0.42
1:B:102:ARG:HH21	1:B:102:ARG:HD2	1.69	0.42
1:B:109:LYS:O	1:B:112:GLU:N	2.52	0.42
1:B:131:GLU:HG3	1:B:267:GLY:H	1.84	0.42
1:B:202:MET:HG2	1:B:237:ILE:HG23	2.01	0.42
1:B:401:PRO:O	1:B:403:GLU:N	2.52	0.42
1:C:110:ARG:HH11	1:C:110:ARG:HD3	1.61	0.42
1:C:167:GLY:O	1:C:169:LYS:HG2	2.19	0.42
1:D:20:ARG:HD2	1:D:237:ILE:CD1	2.48	0.42
1:D:33:ILE:HD13	1:E:208:ALA:HB2	2.02	0.42
1:D:390:GLU:CG	1:D:391:PRO:HD2	2.48	0.42
1:E:78:PRO:CA	1:E:79:PHE:CD2	3.02	0.42
1:E:92:LEU:CA	1:E:97:LEU:H	2.31	0.42
1:E:114:TYR:CD2	1:E:431:GLY:HA3	2.54	0.42
1:F:98:GLN:O	1:F:99:GLY:C	2.61	0.42
1:F:235:ILE:HG21	1:F:367:PRO:HG3	2.00	0.42
1:F:436:ASP:O	1:F:437:GLU:C	2.62	0.42
1:G:68:MET:CE	1:G:88:ARG:HG3	2.49	0.42
1:G:136:ASP:N	1:G:153:ASP:HB2	2.23	0.42
1:G:366:ASN:O	1:G:367:PRO:C	2.61	0.42
1:G:401:PRO:O	1:G:403:GLU:N	2.52	0.42
1:G:436:ASP:O	1:G:437:GLU:C	2.62	0.42
1:H:98:GLN:O	1:H:99:GLY:C	2.61	0.42
1:H:214:ALA:HB3	1:H:218:GLN:HG3	2.01	0.42
1:H:258:LYS:N	1:H:317:ASN:ND2	2.67	0.42
1:H:373:ALA:O	1:H:374:LEU:C	2.62	0.42
1:H:412:GLY:C	1:H:413:SER:HG	2.27	0.42
1:H:436:ASP:O	1:H:437:GLU:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:36:HIS:HB2	1:I:37:GLN:H	1.45	0.42
1:I:78:PRO:CA	1:I:79:PHE:CD2	3.02	0.42
1:I:344:ARG:NH1	1:I:357:GLU:OE1	2.51	0.42
1:I:377:ALA:O	1:I:378:GLY:C	2.61	0.42
1:I:384:ASN:O	1:I:385:LYS:C	2.62	0.42
1:J:24:THR:CG2	1:J:25:LYS:H	2.30	0.42
1:J:115:LEU:C	1:J:115:LEU:CD2	2.92	0.42
1:J:202:MET:HG2	1:J:237:ILE:HG23	2.01	0.42
1:J:390:GLU:CG	1:J:391:PRO:HD2	2.48	0.42
1:J:390:GLU:HG3	1:J:391:PRO:HD2	2.01	0.42
1:J:401:PRO:O	1:J:403:GLU:N	2.52	0.42
1:K:48:MET:O	1:K:48:MET:HG2	2.18	0.42
1:K:295:LEU:HB3	1:K:388:PRO:HG3	2.01	0.42
1:K:407:ILE:HA	1:K:408:PRO:HD3	1.70	0.42
1:L:102:ARG:HH21	1:L:102:ARG:HD2	1.69	0.42
1:L:167:GLY:O	1:L:169:LYS:HG2	2.18	0.42
1:L:390:GLU:HG3	1:L:391:PRO:HD2	2.01	0.42
1:A:68:MET:CE	1:A:88:ARG:HG3	2.49	0.42
1:A:384:ASN:O	1:A:385:LYS:C	2.62	0.42
1:A:436:ASP:O	1:A:437:GLU:C	2.62	0.42
1:A:445:LEU:C	1:A:447:ARG:N	2.75	0.42
1:B:167:GLY:O	1:B:169:LYS:HG2	2.18	0.42
1:B:295:LEU:O	1:B:388:PRO:CD	2.67	0.42
1:B:377:ALA:O	1:B:378:GLY:C	2.61	0.42
1:B:403:GLU:OE1	1:B:406:GLU:HG3	2.19	0.42
1:C:390:GLU:CG	1:C:391:PRO:HD2	2.48	0.42
1:C:399:LEU:O	1:C:399:LEU:HG	2.19	0.42
1:D:19:LEU:HD11	1:D:240:TYR:CD1	2.54	0.42
1:D:24:THR:CG2	1:D:25:LYS:H	2.30	0.42
1:D:167:GLY:O	1:D:169:LYS:HG2	2.19	0.42
1:D:348:VAL:HG12	1:D:354:ARG:HA	1.99	0.42
1:E:25:LYS:HD2	1:E:25:LYS:HA	1.66	0.42
1:E:115:LEU:C	1:E:115:LEU:CD2	2.92	0.42
1:E:134:LEU:HD12	1:E:134:LEU:HA	1.81	0.42
1:E:202:MET:HB2	1:E:202:MET:HE3	1.58	0.42
1:E:321:ARG:HH11	1:E:321:ARG:HD3	1.60	0.42
1:E:344:ARG:NH1	1:E:357:GLU:OE1	2.51	0.42
1:E:384:ASN:O	1:E:385:LYS:C	2.62	0.42
1:F:68:MET:CE	1:F:88:ARG:HG3	2.49	0.42
1:F:124:VAL:C	1:F:125:LEU:CD2	2.92	0.42
1:F:214:ALA:HB3	1:F:218:GLN:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:321:ARG:CG	1:F:322:LEU:N	2.81	0.42
1:F:410:VAL:O	1:F:410:VAL:HG13	2.18	0.42
1:G:27:LYS:HZ3	1:G:239:LYS:HZ1	0.43	0.42
1:G:296:TYR:CD1	1:G:385:LYS:C	2.93	0.42
1:G:399:LEU:O	1:G:399:LEU:HG	2.19	0.42
1:H:4:HIS:O	1:H:5:VAL:C	2.60	0.42
1:H:124:VAL:C	1:H:125:LEU:CD2	2.92	0.42
1:H:136:ASP:N	1:H:153:ASP:HB2	2.23	0.42
1:H:403:GLU:OE1	1:H:406:GLU:HG3	2.19	0.42
1:H:426:GLU:OE1	1:H:426:GLU:HA	2.17	0.42
1:I:19:LEU:HD11	1:I:240:TYR:CD1	2.54	0.42
1:I:445:LEU:C	1:I:447:ARG:N	2.75	0.42
1:J:19:LEU:HD11	1:J:240:TYR:CD1	2.54	0.42
1:J:20:ARG:HD2	1:J:237:ILE:CD1	2.48	0.42
1:J:67:LEU:O	1:J:86:ILE:CD1	2.66	0.42
1:J:258:LYS:N	1:J:317:ASN:ND2	2.67	0.42
1:J:339:ARG:N	1:J:339:ARG:CZ	2.81	0.42
1:J:348:VAL:HG12	1:J:354:ARG:HA	1.99	0.42
1:J:376:MET:HE2	1:J:433:VAL:HG21	1.99	0.42
1:K:4:HIS:C	1:K:6:LEU:N	2.72	0.42
1:K:214:ALA:HB3	1:K:218:GLN:HG3	2.01	0.42
1:K:362:ASP:HB2	1:K:363:PRO:HD2	2.01	0.42
1:K:376:MET:HE2	1:K:433:VAL:HG21	1.99	0.42
1:L:48:MET:O	1:L:48:MET:HG2	2.18	0.42
1:L:61:ASN:C	1:L:62:GLU:HG3	2.44	0.42
1:L:124:VAL:C	1:L:125:LEU:CD2	2.92	0.42
1:L:131:GLU:HG3	1:L:267:GLY:H	1.84	0.42
1:L:202:MET:HG2	1:L:237:ILE:HG23	2.01	0.42
1:A:10:ASN:C	1:A:12:HIS:N	2.76	0.42
1:A:48:MET:O	1:A:48:MET:HG2	2.18	0.42
1:A:295:LEU:O	1:A:388:PRO:CD	2.67	0.42
1:A:337:ARG:HB2	1:F:58:LYS:HB3	2.00	0.42
1:B:48:MET:CB	1:B:62:GLU:O	2.64	0.42
1:B:350:SER:HA	1:B:351:PRO:HD2	1.65	0.42
1:B:390:GLU:HG3	1:B:391:PRO:HD2	2.01	0.42
1:B:426:GLU:C	1:B:428:LEU:N	2.75	0.42
1:C:109:LYS:O	1:C:112:GLU:N	2.52	0.42
1:C:207:GLU:O	1:C:208:ALA:CB	2.66	0.42
1:C:214:ALA:HB3	1:C:218:GLN:HG3	2.01	0.42
1:C:321:ARG:CG	1:C:322:LEU:N	2.81	0.42
1:D:67:LEU:O	1:D:86:ILE:CD1	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:235:ILE:HB	1:D:367:PRO:HG2	2.01	0.42
1:D:390:GLU:HG3	1:D:391:PRO:HD2	2.01	0.42
1:D:437:GLU:O	1:D:441:ALA:N	2.53	0.42
1:E:19:LEU:HD11	1:E:240:TYR:CD1	2.54	0.42
1:E:30:HIS:N	1:F:180:PHE:O	2.48	0.42
1:E:109:LYS:HG3	1:E:109:LYS:H	1.37	0.42
1:E:309:ASN:CB	1:E:313:ASN:ND2	2.82	0.42
1:E:401:PRO:O	1:E:403:GLU:N	2.52	0.42
1:E:403:GLU:C	1:E:405:LYS:N	2.71	0.42
1:E:403:GLU:OE1	1:E:406:GLU:HG3	2.19	0.42
1:E:445:LEU:C	1:E:447:ARG:N	2.75	0.42
1:F:136:ASP:N	1:F:153:ASP:HB2	2.23	0.42
1:F:426:GLU:OE1	1:F:426:GLU:HA	2.17	0.42
1:G:92:LEU:CA	1:G:97:LEU:H	2.31	0.42
1:G:114:TYR:CD2	1:G:431:GLY:HA3	2.54	0.42
1:G:295:LEU:O	1:G:388:PRO:CD	2.67	0.42
1:G:299:GLY:HA3	1:G:386:ILE:CG2	2.49	0.42
1:G:337:ARG:HB2	1:H:58:LYS:HB3	2.00	0.42
1:G:445:LEU:C	1:G:447:ARG:N	2.75	0.42
1:H:43:PHE:CE2	1:H:69:PRO:HB3	2.45	0.42
1:H:154:ILE:O	1:H:155:GLU:CB	2.50	0.42
1:H:390:GLU:CG	1:H:391:PRO:HD2	2.49	0.42
1:H:426:GLU:C	1:H:428:LEU:N	2.75	0.42
1:I:27:LYS:HZ2	1:I:239:LYS:CE	2.27	0.42
1:I:115:LEU:C	1:I:115:LEU:CD2	2.92	0.42
1:I:208:ALA:HB2	1:J:33:ILE:HD13	2.02	0.42
1:I:208:ALA:HA	1:J:32:THR:O	2.20	0.42
1:I:309:ASN:CB	1:I:313:ASN:ND2	2.82	0.42
1:J:39:ASN:ND2	1:J:39:ASN:N	2.67	0.42
1:J:208:ALA:HB2	1:K:33:ILE:HD13	2.01	0.42
1:K:207:GLU:O	1:K:208:ALA:CB	2.66	0.42
1:K:339:ARG:N	1:K:339:ARG:CZ	2.81	0.42
1:K:385:LYS:O	1:K:386:ILE:HB	2.19	0.42
1:K:390:GLU:HG3	1:K:391:PRO:HD2	2.01	0.42
1:K:403:GLU:OE1	1:K:406:GLU:HG3	2.19	0.42
1:K:410:VAL:O	1:K:410:VAL:HG13	2.18	0.42
1:K:445:LEU:C	1:K:447:ARG:N	2.75	0.42
1:L:78:PRO:CA	1:L:79:PHE:CD2	3.02	0.42
1:L:89:CYS:C	1:L:91:ILE:H	2.20	0.42
1:L:109:LYS:O	1:L:112:GLU:N	2.52	0.42
1:L:258:LYS:N	1:L:317:ASN:ND2	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:295:LEU:O	1:L:388:PRO:CD	2.67	0.42
1:L:390:GLU:CG	1:L:391:PRO:HD2	2.48	0.42
1:L:426:GLU:C	1:L:428:LEU:N	2.75	0.42
1:A:92:LEU:CA	1:A:97:LEU:H	2.31	0.42
1:A:109:LYS:O	1:A:112:GLU:N	2.52	0.42
1:A:366:ASN:O	1:A:367:PRO:C	2.61	0.42
1:A:390:GLU:HG3	1:A:391:PRO:HD2	2.01	0.42
1:A:461:GLU:CD	1:G:316:THR:HG21	2.39	0.42
1:B:78:PRO:CA	1:B:79:PHE:CD2	3.02	0.42
1:B:114:TYR:CD2	1:B:431:GLY:HA3	2.53	0.42
1:B:124:VAL:C	1:B:125:LEU:CD2	2.92	0.42
1:B:449:GLU:OE1	1:H:465:TYR:HE2	1.98	0.42
1:C:90:ASP:O	1:C:91:ILE:CG2	2.66	0.42
1:C:131:GLU:HG3	1:C:267:GLY:H	1.84	0.42
1:D:32:THR:O	1:E:208:ALA:HA	2.20	0.42
1:D:110:ARG:HH11	1:D:110:ARG:HD3	1.60	0.42
1:D:339:ARG:N	1:D:339:ARG:CZ	2.81	0.42
1:D:339:ARG:HD2	1:D:340:SER:N	2.34	0.42
1:D:390:GLU:HB3	1:D:391:PRO:CD	2.45	0.42
1:E:26:GLY:O	1:E:27:LYS:CG	2.57	0.42
1:E:33:ILE:HD13	1:F:208:ALA:HB2	2.02	0.42
1:E:39:ASN:ND2	1:E:39:ASN:N	2.67	0.42
1:E:68:MET:CE	1:E:88:ARG:HG3	2.49	0.42
1:E:120:ILE:CD1	1:E:382:ILE:CG2	2.94	0.42
1:E:140:PHE:CD2	1:E:140:PHE:C	2.97	0.42
1:E:207:GLU:O	1:E:208:ALA:CB	2.66	0.42
1:E:339:ARG:N	1:E:339:ARG:CZ	2.81	0.42
1:E:436:ASP:O	1:E:437:GLU:C	2.62	0.42
1:F:67:LEU:O	1:F:86:ILE:CD1	2.66	0.42
1:F:252:THR:HG21	1:L:466:TYR:CZ	2.33	0.42
1:F:311:LEU:HD23	1:F:311:LEU:HA	1.55	0.42
1:F:390:GLU:CG	1:F:391:PRO:HD2	2.49	0.42
1:F:465:TYR:HE2	1:L:449:GLU:OE1	1.99	0.42
1:G:109:LYS:O	1:G:112:GLU:N	2.52	0.42
1:G:202:MET:HE3	1:G:202:MET:HB2	1.58	0.42
1:G:437:GLU:O	1:G:441:ALA:N	2.53	0.42
1:H:167:GLY:O	1:H:169:LYS:HG2	2.18	0.42
1:H:208:ALA:HB2	1:I:33:ILE:HD13	2.02	0.42
1:H:410:VAL:O	1:H:410:VAL:HG13	2.19	0.42
1:H:437:GLU:O	1:H:441:ALA:N	2.53	0.42
1:I:207:GLU:O	1:I:208:ALA:CB	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:403:GLU:OE1	1:I:406:GLU:HG3	2.19	0.42
1:J:295:LEU:O	1:J:388:PRO:CD	2.67	0.42
1:J:339:ARG:HD2	1:J:340:SER:N	2.34	0.42
1:J:412:GLY:C	1:J:413:SER:OG	2.58	0.42
1:J:445:LEU:HD23	1:J:445:LEU:HA	1.69	0.42
1:K:124:VAL:C	1:K:125:LEU:CD2	2.92	0.42
1:K:280:ASN:C	1:K:280:ASN:HD22	2.25	0.42
1:K:295:LEU:O	1:K:388:PRO:CD	2.67	0.42
1:L:295:LEU:HB3	1:L:388:PRO:HG3	2.01	0.42
1:L:350:SER:HA	1:L:351:PRO:HD2	1.65	0.42
1:L:377:ALA:O	1:L:378:GLY:C	2.61	0.42
1:A:239:LYS:NZ	1:A:363:PRO:O	2.53	0.42
1:A:437:GLU:O	1:A:441:ALA:N	2.53	0.42
1:B:19:LEU:HD11	1:B:240:TYR:CD1	2.54	0.42
1:B:67:LEU:HD11	1:B:88:ARG:HH11	1.84	0.42
1:B:399:LEU:O	1:B:399:LEU:HG	2.19	0.42
1:C:66:VAL:HA	1:C:87:ILE:CD1	2.48	0.42
1:C:115:LEU:C	1:C:115:LEU:CD2	2.92	0.42
1:C:295:LEU:O	1:C:388:PRO:CD	2.67	0.42
1:C:403:GLU:OE1	1:C:406:GLU:HG3	2.19	0.42
1:C:409:GLN:O	1:C:411:ALA:N	2.52	0.42
1:C:445:LEU:C	1:C:447:ARG:N	2.75	0.42
1:D:4:HIS:C	1:D:6:LEU:N	2.71	0.42
1:D:36:HIS:HB2	1:D:37:GLN:H	1.45	0.42
1:D:240:TYR:O	1:D:244:ASN:HB2	2.20	0.42
1:D:258:LYS:N	1:D:317:ASN:ND2	2.67	0.42
1:D:296:TYR:CD1	1:D:385:LYS:C	2.93	0.42
1:D:403:GLU:OE1	1:D:406:GLU:HG3	2.19	0.42
1:E:295:LEU:O	1:E:388:PRO:CD	2.67	0.42
1:F:4:HIS:O	1:F:5:VAL:C	2.60	0.42
1:F:109:LYS:O	1:F:112:GLU:N	2.52	0.42
1:F:240:TYR:O	1:F:244:ASN:HB2	2.20	0.42
1:G:48:MET:O	1:G:48:MET:HG2	2.18	0.42
1:G:124:VAL:C	1:G:125:LEU:CD2	2.92	0.42
1:G:131:GLU:HG3	1:G:267:GLY:H	1.84	0.42
1:G:239:LYS:NZ	1:G:363:PRO:O	2.53	0.42
1:G:377:ALA:O	1:G:378:GLY:C	2.61	0.42
1:G:390:GLU:HG3	1:G:391:PRO:HD2	2.01	0.42
1:H:109:LYS:O	1:H:112:GLU:N	2.52	0.42
1:H:240:TYR:O	1:H:244:ASN:HB2	2.20	0.42
1:H:337:ARG:C	1:I:58:LYS:CB	2.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:68:MET:CE	1:I:88:ARG:HG3	2.49	0.42
1:I:109:LYS:HG3	1:I:109:LYS:H	1.37	0.42
1:I:140:PHE:CD2	1:I:140:PHE:C	2.97	0.42
1:I:154:ILE:O	1:I:155:GLU:CB	2.50	0.42
1:I:202:MET:HG2	1:I:237:ILE:HG23	2.01	0.42
1:I:337:ARG:C	1:J:58:LYS:CB	2.93	0.42
1:I:339:ARG:N	1:I:339:ARG:CZ	2.81	0.42
1:J:274:LEU:HD11	1:J:282:PHE:CE1	2.44	0.42
1:J:387:HIS:HA	1:J:388:PRO:HD2	1.46	0.42
1:J:403:GLU:OE1	1:J:406:GLU:HG3	2.19	0.42
1:J:436:ASP:O	1:J:437:GLU:C	2.62	0.42
1:J:437:GLU:O	1:J:441:ALA:N	2.53	0.42
1:K:109:LYS:O	1:K:112:GLU:N	2.52	0.42
1:K:321:ARG:CG	1:K:322:LEU:N	2.82	0.42
1:K:399:LEU:O	1:K:399:LEU:HG	2.19	0.42
1:K:426:GLU:C	1:K:428:LEU:N	2.75	0.42
1:L:114:TYR:CD2	1:L:431:GLY:HA3	2.54	0.42
1:L:235:ILE:HB	1:L:367:PRO:HG2	2.01	0.42
1:A:124:VAL:C	1:A:125:LEU:CD2	2.92	0.42
1:A:131:GLU:HG3	1:A:267:GLY:H	1.84	0.42
1:A:207:GLU:O	1:A:208:ALA:CB	2.66	0.42
1:A:214:ALA:HB3	1:A:218:GLN:HG3	2.01	0.42
1:A:274:LEU:C	1:A:281:LEU:HD11	2.45	0.42
1:A:299:GLY:HA3	1:A:386:ILE:CG2	2.49	0.42
1:A:311:LEU:HD12	1:A:373:ALA:HB2	2.02	0.42
1:A:377:ALA:O	1:A:378:GLY:C	2.61	0.42
1:B:226:ASN:HB3	1:B:227:THR:H	1.53	0.42
1:B:227:THR:O	1:B:228:MET:O	2.38	0.42
1:B:240:TYR:O	1:B:244:ASN:HB2	2.20	0.42
1:B:245:VAL:O	1:B:246:ALA:C	2.62	0.42
1:B:258:LYS:N	1:B:317:ASN:ND2	2.67	0.42
1:B:274:LEU:C	1:B:281:LEU:HD11	2.45	0.42
1:B:385:LYS:O	1:B:386:ILE:HB	2.19	0.42
1:B:390:GLU:CG	1:B:391:PRO:HD2	2.49	0.42
1:C:12:HIS:O	1:C:13:GLU:CB	2.43	0.42
1:C:32:THR:O	1:D:208:ALA:HA	2.19	0.42
1:C:58:LYS:CB	1:D:337:ARG:C	2.93	0.42
1:C:103:ASP:O	1:C:104:PRO:C	2.63	0.42
1:C:124:VAL:C	1:C:125:LEU:CD2	2.92	0.42
1:C:240:TYR:O	1:C:244:ASN:HB2	2.20	0.42
1:D:58:LYS:HB3	1:E:337:ARG:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:61:ASN:C	1:D:62:GLU:HG3	2.44	0.42
1:D:131:GLU:HG3	1:D:267:GLY:H	1.84	0.42
1:D:309:ASN:CB	1:D:313:ASN:ND2	2.82	0.42
1:D:436:ASP:O	1:D:437:GLU:C	2.62	0.42
1:E:58:LYS:CB	1:F:337:ARG:C	2.93	0.42
1:E:65:MET:N	1:E:87:ILE:CG2	2.82	0.42
1:E:124:VAL:C	1:E:125:LEU:CD2	2.92	0.42
1:E:437:GLU:O	1:E:441:ALA:N	2.53	0.42
1:F:2:ALA:HA	1:F:5:VAL:HB	2.02	0.42
1:F:103:ASP:O	1:F:104:PRO:C	2.63	0.42
1:F:227:THR:O	1:F:228:MET:O	2.38	0.42
1:F:295:LEU:O	1:F:388:PRO:CD	2.67	0.42
1:F:437:GLU:O	1:F:441:ALA:N	2.53	0.42
1:F:448:GLU:O	1:F:449:GLU:C	2.62	0.42
1:G:89:CYS:HB3	1:G:90:ASP:CG	2.37	0.42
1:G:207:GLU:O	1:G:208:ALA:CB	2.67	0.42
1:G:227:THR:O	1:G:228:MET:O	2.38	0.42
1:G:274:LEU:HD11	1:G:282:PHE:CE1	2.44	0.42
1:G:274:LEU:C	1:G:281:LEU:HD11	2.45	0.42
1:H:67:LEU:O	1:H:86:ILE:CD1	2.66	0.42
1:H:295:LEU:O	1:H:388:PRO:CD	2.67	0.42
1:H:296:TYR:CD1	1:H:385:LYS:C	2.93	0.42
1:H:448:GLU:O	1:H:449:GLU:C	2.62	0.42
1:I:39:ASN:ND2	1:I:39:ASN:N	2.67	0.42
1:I:65:MET:N	1:I:87:ILE:CG2	2.82	0.42
1:I:110:ARG:O	1:I:114:TYR:N	2.43	0.42
1:I:120:ILE:CD1	1:I:382:ILE:CG2	2.94	0.42
1:I:134:LEU:HD12	1:I:134:LEU:HA	1.80	0.42
1:I:295:LEU:O	1:I:388:PRO:CD	2.67	0.42
1:I:337:ARG:HB2	1:J:58:LYS:HB3	2.00	0.42
1:I:387:HIS:HA	1:I:388:PRO:HD2	1.46	0.42
1:I:401:PRO:O	1:I:403:GLU:N	2.52	0.42
1:I:437:GLU:O	1:I:441:ALA:N	2.53	0.42
1:J:106:SER:C	1:J:108:ALA:N	2.76	0.42
1:J:140:PHE:C	1:J:140:PHE:CD2	2.97	0.42
1:J:216:ALA:HB3	1:J:260:MET:CE	2.47	0.42
1:J:240:TYR:O	1:J:244:ASN:HB2	2.20	0.42
1:J:309:ASN:CB	1:J:313:ASN:ND2	2.82	0.42
1:J:426:GLU:OE1	1:J:426:GLU:HA	2.17	0.42
1:K:90:ASP:O	1:K:91:ILE:CG2	2.66	0.42
1:K:110:ARG:HH11	1:K:110:ARG:HD3	1.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:115:LEU:C	1:K:115:LEU:CD2	2.93	0.42
1:K:131:GLU:HG3	1:K:267:GLY:H	1.84	0.42
1:K:239:LYS:NZ	1:K:363:PRO:O	2.53	0.42
1:K:240:TYR:O	1:K:244:ASN:HB2	2.20	0.42
1:K:337:ARG:C	1:L:58:LYS:CB	2.93	0.42
1:K:390:GLU:CG	1:K:391:PRO:HD2	2.49	0.42
1:L:19:LEU:HD11	1:L:240:TYR:CD1	2.54	0.42
1:L:274:LEU:C	1:L:281:LEU:HD11	2.45	0.42
1:L:385:LYS:O	1:L:386:ILE:HB	2.19	0.42
1:L:399:LEU:O	1:L:399:LEU:HG	2.19	0.42
1:A:17:VAL:HG11	1:A:33:ILE:CG2	2.48	0.42
1:A:110:ARG:HH11	1:A:110:ARG:HD3	1.60	0.42
1:A:202:MET:HG2	1:A:237:ILE:HG23	2.01	0.42
1:A:227:THR:O	1:A:228:MET:O	2.38	0.42
1:A:258:LYS:N	1:A:317:ASN:ND2	2.67	0.42
1:A:296:TYR:CD1	1:A:385:LYS:C	2.93	0.42
1:A:409:GLN:O	1:A:411:ALA:N	2.52	0.42
1:B:295:LEU:HB3	1:B:388:PRO:HG3	2.01	0.42
1:B:331:MET:HB2	1:B:341:ALA:HA	2.00	0.42
1:C:24:THR:HB	1:C:26:GLY:N	2.31	0.42
1:C:33:ILE:HD13	1:D:208:ALA:HB2	2.02	0.42
1:C:256:MET:HA	1:C:257:PRO:HD3	1.86	0.42
1:C:339:ARG:HD2	1:C:340:SER:N	2.34	0.42
1:D:106:SER:C	1:D:108:ALA:N	2.76	0.42
1:D:216:ALA:HB3	1:D:260:MET:CE	2.47	0.42
1:D:295:LEU:O	1:D:388:PRO:CD	2.67	0.42
1:D:448:GLU:O	1:D:449:GLU:C	2.62	0.42
1:E:32:THR:O	1:F:208:ALA:HA	2.20	0.42
1:E:67:LEU:O	1:E:86:ILE:CD1	2.66	0.42
1:E:154:ILE:O	1:E:155:GLU:CB	2.50	0.42
1:E:202:MET:HG2	1:E:237:ILE:HG23	2.01	0.42
1:E:227:THR:O	1:E:228:MET:O	2.38	0.42
1:E:239:LYS:NZ	1:E:363:PRO:O	2.53	0.42
1:E:373:ALA:O	1:E:374:LEU:C	2.62	0.42
1:F:167:GLY:O	1:F:169:LYS:HG2	2.19	0.42
1:F:296:TYR:CD1	1:F:385:LYS:C	2.93	0.42
1:G:17:VAL:HG11	1:G:33:ILE:CG2	2.48	0.42
1:G:202:MET:HG2	1:G:237:ILE:HG23	2.01	0.42
1:G:214:ALA:HB3	1:G:218:GLN:HG3	2.01	0.42
1:H:2:ALA:HA	1:H:5:VAL:HB	2.02	0.42
1:H:61:ASN:C	1:H:62:GLU:HG3	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:103:ASP:O	1:H:104:PRO:C	2.63	0.42
1:H:227:THR:O	1:H:228:MET:O	2.38	0.42
1:H:339:ARG:HD2	1:H:340:SER:N	2.34	0.42
1:I:27:LYS:HZ2	1:I:239:LYS:NZ	2.01	0.42
1:I:109:LYS:O	1:I:112:GLU:N	2.52	0.42
1:I:124:VAL:C	1:I:125:LEU:CD2	2.92	0.42
1:I:216:ALA:HB3	1:I:260:MET:CE	2.47	0.42
1:I:239:LYS:NZ	1:I:363:PRO:O	2.53	0.42
1:I:274:LEU:C	1:I:281:LEU:HD11	2.45	0.42
1:I:321:ARG:HH11	1:I:321:ARG:HD3	1.59	0.42
1:I:436:ASP:O	1:I:437:GLU:C	2.62	0.42
1:J:4:HIS:C	1:J:6:LEU:N	2.71	0.42
1:J:61:ASN:C	1:J:62:GLU:HG3	2.44	0.42
1:J:296:TYR:CD1	1:J:385:LYS:C	2.93	0.42
1:J:366:ASN:O	1:J:367:PRO:C	2.61	0.42
1:K:103:ASP:O	1:K:104:PRO:C	2.63	0.42
1:K:202:MET:HG2	1:K:237:ILE:HG23	2.01	0.42
1:K:208:ALA:HA	1:L:32:THR:O	2.19	0.42
1:K:409:GLN:O	1:K:411:ALA:N	2.52	0.42
1:L:67:LEU:HD11	1:L:88:ARG:HH11	1.84	0.42
1:L:214:ALA:HB3	1:L:218:GLN:HG3	2.01	0.42
1:L:227:THR:O	1:L:228:MET:O	2.38	0.42
1:L:351:PRO:CG	1:L:352:LYS:H	2.33	0.42
1:L:428:LEU:HD12	1:L:428:LEU:HA	1.88	0.42
1:A:19:LEU:HD11	1:A:240:TYR:CD1	2.54	0.42
1:A:78:PRO:C	1:A:79:PHE:CD2	2.98	0.42
1:A:240:TYR:O	1:A:244:ASN:HB2	2.20	0.42
1:A:362:ASP:HB2	1:A:363:PRO:HD2	2.00	0.42
1:A:451:ASP:O	1:A:454:ARG:N	2.53	0.42
1:B:58:LYS:CB	1:C:337:ARG:C	2.93	0.42
1:B:103:ASP:O	1:B:104:PRO:C	2.63	0.42
1:B:106:SER:C	1:B:108:ALA:N	2.76	0.42
1:B:214:ALA:HB3	1:B:218:GLN:HG3	2.01	0.42
1:C:239:LYS:NZ	1:C:363:PRO:O	2.53	0.42
1:C:407:ILE:HA	1:C:408:PRO:HD3	1.70	0.42
1:C:426:GLU:C	1:C:428:LEU:N	2.75	0.42
1:D:58:LYS:CB	1:E:337:ARG:C	2.93	0.42
1:D:140:PHE:CD2	1:D:140:PHE:C	2.98	0.42
1:D:239:LYS:NZ	1:D:363:PRO:O	2.53	0.42
1:D:274:LEU:HD11	1:D:282:PHE:CE1	2.44	0.42
1:E:2:ALA:O	1:E:6:LEU:CD2	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:274:LEU:C	1:E:281:LEU:HD11	2.45	0.42
1:F:154:ILE:O	1:F:155:GLU:CB	2.50	0.42
1:F:399:LEU:O	1:F:399:LEU:HG	2.19	0.42
1:F:403:GLU:C	1:F:405:LYS:N	2.71	0.42
1:G:78:PRO:C	1:G:79:PHE:CD2	2.98	0.42
1:G:240:TYR:O	1:G:244:ASN:HB2	2.20	0.42
1:G:258:LYS:N	1:G:317:ASN:ND2	2.67	0.42
1:G:301:VAL:HG23	1:G:301:VAL:H	1.32	0.42
1:G:451:ASP:O	1:G:454:ARG:N	2.53	0.42
1:H:180:PHE:O	1:I:30:HIS:N	2.48	0.42
1:H:311:LEU:HD23	1:H:311:LEU:HA	1.54	0.42
1:I:2:ALA:O	1:I:6:LEU:CD2	2.63	0.42
1:I:26:GLY:O	1:I:27:LYS:CG	2.57	0.42
1:I:67:LEU:O	1:I:86:ILE:CD1	2.66	0.42
1:I:199:MET:HG2	1:I:204:LEU:CD1	2.50	0.42
1:I:409:GLN:O	1:I:411:ALA:N	2.52	0.42
1:J:92:LEU:CA	1:J:97:LEU:H	2.31	0.42
1:J:131:GLU:HG3	1:J:267:GLY:H	1.84	0.42
1:J:337:ARG:C	1:K:58:LYS:CB	2.93	0.42
1:J:448:GLU:O	1:J:449:GLU:C	2.62	0.42
1:K:24:THR:HB	1:K:26:GLY:N	2.30	0.42
1:K:66:VAL:HA	1:K:87:ILE:CD1	2.48	0.42
1:K:274:LEU:C	1:K:281:LEU:HD11	2.45	0.42
1:K:373:ALA:O	1:K:374:LEU:C	2.62	0.42
1:L:103:ASP:O	1:L:104:PRO:C	2.63	0.42
1:L:106:SER:C	1:L:108:ALA:N	2.76	0.42
1:L:240:TYR:O	1:L:244:ASN:HB2	2.20	0.42
1:L:245:VAL:O	1:L:246:ALA:C	2.62	0.42
1:A:58:LYS:CB	1:B:337:ARG:C	2.93	0.42
1:A:208:ALA:HB2	1:F:33:ILE:HD13	2.01	0.42
1:A:235:ILE:HB	1:A:367:PRO:HG2	2.00	0.42
1:B:32:THR:O	1:C:208:ALA:HA	2.20	0.42
1:B:68:MET:CE	1:B:88:ARG:HG3	2.49	0.42
1:B:78:PRO:C	1:B:79:PHE:CD2	2.98	0.42
1:B:339:ARG:HD2	1:B:340:SER:N	2.34	0.42
1:C:30:HIS:N	1:D:180:PHE:O	2.48	0.42
1:C:39:ASN:ND2	1:C:39:ASN:N	2.67	0.42
1:C:65:MET:C	1:C:65:MET:CE	2.76	0.42
1:C:78:PRO:C	1:C:79:PHE:CD2	2.98	0.42
1:C:199:MET:HG2	1:C:204:LEU:CD1	2.50	0.42
1:C:202:MET:HG2	1:C:237:ILE:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:280:ASN:C	1:C:280:ASN:HD22	2.25	0.42
1:C:373:ALA:O	1:C:374:LEU:C	2.62	0.42
1:C:437:GLU:O	1:C:441:ALA:N	2.53	0.42
1:D:90:ASP:O	1:D:91:ILE:CG2	2.66	0.42
1:D:274:LEU:C	1:D:281:LEU:HD11	2.45	0.42
1:D:366:ASN:O	1:D:367:PRO:C	2.61	0.42
1:D:387:HIS:HA	1:D:388:PRO:HD2	1.46	0.42
1:E:110:ARG:O	1:E:114:TYR:N	2.43	0.42
1:E:154:ILE:H	1:E:154:ILE:HG13	1.39	0.42
1:E:216:ALA:HB3	1:E:260:MET:CE	2.47	0.42
1:E:256:MET:HA	1:E:257:PRO:HD3	1.86	0.42
1:E:387:HIS:HA	1:E:388:PRO:HD2	1.46	0.42
1:E:409:GLN:O	1:E:411:ALA:N	2.52	0.42
1:F:61:ASN:C	1:F:62:GLU:HG3	2.44	0.42
1:F:78:PRO:C	1:F:79:PHE:CD2	2.98	0.42
1:F:311:LEU:HD12	1:F:373:ALA:HB2	2.02	0.42
1:G:2:ALA:O	1:G:6:LEU:CD2	2.63	0.42
1:G:19:LEU:HD11	1:G:240:TYR:CD1	2.54	0.42
1:G:58:LYS:CB	1:L:337:ARG:C	2.93	0.42
1:G:110:ARG:HH11	1:G:110:ARG:HD3	1.60	0.42
1:G:235:ILE:HB	1:G:367:PRO:HG2	2.01	0.42
1:G:311:LEU:HD12	1:G:373:ALA:HB2	2.02	0.42
1:G:362:ASP:HB2	1:G:363:PRO:HD2	2.01	0.42
1:G:409:GLN:O	1:G:411:ALA:N	2.52	0.42
1:H:116:ARG:HE	1:H:116:ARG:HB2	1.57	0.42
1:H:208:ALA:HA	1:I:32:THR:O	2.20	0.42
1:H:399:LEU:O	1:H:399:LEU:HG	2.19	0.42
1:H:403:GLU:C	1:H:405:LYS:N	2.71	0.42
1:I:4:HIS:O	1:I:5:VAL:C	2.60	0.42
1:I:227:THR:O	1:I:228:MET:O	2.38	0.42
1:I:331:MET:HB2	1:I:341:ALA:HA	2.01	0.42
1:I:373:ALA:O	1:I:374:LEU:C	2.62	0.42
1:I:383:LYS:HE3	1:I:383:LYS:HB3	1.12	0.42
1:J:208:ALA:HA	1:K:32:THR:O	2.20	0.42
1:J:239:LYS:NZ	1:J:363:PRO:O	2.53	0.42
1:J:274:LEU:C	1:J:281:LEU:HD11	2.45	0.42
1:K:12:HIS:O	1:K:13:GLU:CB	2.43	0.42
1:K:78:PRO:C	1:K:79:PHE:CD2	2.98	0.42
1:K:208:ALA:HB2	1:L:33:ILE:HD13	2.01	0.42
1:L:67:LEU:HD12	1:L:68:MET:CG	2.26	0.42
1:L:78:PRO:C	1:L:79:PHE:CD2	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:436:ASP:O	1:L:437:GLU:C	2.62	0.42
1:L:445:LEU:HD23	1:L:445:LEU:HA	1.68	0.42
1:A:67:LEU:HG	1:A:88:ARG:HB3	2.02	0.42
1:A:89:CYS:HB3	1:A:90:ASP:CG	2.37	0.42
1:A:337:ARG:C	1:F:58:LYS:CB	2.93	0.42
1:A:339:ARG:HD2	1:A:340:SER:N	2.34	0.42
1:B:436:ASP:O	1:B:437:GLU:C	2.62	0.42
1:C:89:CYS:C	1:C:91:ILE:H	2.20	0.42
1:C:274:LEU:C	1:C:281:LEU:HD11	2.45	0.42
1:D:92:LEU:CA	1:D:97:LEU:H	2.31	0.42
1:D:445:LEU:HD23	1:D:445:LEU:HA	1.68	0.42
1:E:91:ILE:HG23	1:E:96:THR:HA	2.02	0.42
1:E:109:LYS:O	1:E:112:GLU:N	2.52	0.42
1:E:199:MET:HG2	1:E:204:LEU:CD1	2.50	0.42
1:E:383:LYS:HE3	1:E:383:LYS:HB3	1.12	0.42
1:F:106:SER:C	1:F:108:ALA:N	2.76	0.42
1:F:331:MET:HE3	1:F:396:LEU:HA	2.02	0.42
1:F:339:ARG:HD2	1:F:340:SER:N	2.34	0.42
1:F:418:LEU:HA	1:F:418:LEU:HD22	1.44	0.42
1:G:4:HIS:HB3	1:G:5:VAL:H	1.65	0.42
1:G:208:ALA:HA	1:H:32:THR:O	2.20	0.42
1:G:339:ARG:HD2	1:G:340:SER:N	2.34	0.42
1:H:78:PRO:C	1:H:79:PHE:CD2	2.98	0.42
1:I:2:ALA:HA	1:I:5:VAL:HB	2.02	0.42
1:I:399:LEU:O	1:I:399:LEU:HG	2.19	0.42
1:J:24:THR:C	1:J:26:GLY:N	2.77	0.42
1:J:120:ILE:CG2	1:J:382:ILE:HG23	2.46	0.42
1:J:124:VAL:C	1:J:125:LEU:CD2	2.92	0.42
1:J:311:LEU:HD12	1:J:373:ALA:HB2	2.02	0.42
1:J:385:LYS:O	1:J:386:ILE:HB	2.19	0.42
1:K:39:ASN:ND2	1:K:39:ASN:N	2.67	0.42
1:K:339:ARG:HD2	1:K:340:SER:N	2.34	0.42
1:L:68:MET:CE	1:L:88:ARG:HG3	2.49	0.42
1:L:199:MET:HG2	1:L:204:LEU:CD1	2.50	0.42
1:L:331:MET:CE	1:L:396:LEU:CD1	2.81	0.42
1:L:331:MET:HB2	1:L:341:ALA:HA	2.01	0.42
1:L:362:ASP:HB2	1:L:363:PRO:HD2	2.00	0.42
1:L:437:GLU:O	1:L:441:ALA:N	2.53	0.42
1:L:437:GLU:HB2	1:L:438:ALA:H	1.11	0.42
1:A:2:ALA:O	1:A:6:LEU:CD2	2.63	0.41
1:A:24:THR:C	1:A:26:GLY:N	2.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:9:LEU:HD12	1:B:9:LEU:HA	1.72	0.41
1:B:24:THR:HB	1:B:26:GLY:N	2.30	0.41
1:B:111:ALA:CB	1:B:433:VAL:HG21	2.50	0.41
1:B:140:PHE:CD2	1:B:140:PHE:C	2.97	0.41
1:B:351:PRO:CG	1:B:352:LYS:H	2.33	0.41
1:C:17:VAL:O	1:C:18:ASP:HB3	2.20	0.41
1:C:137:ASP:OD1	1:D:168:ASN:N	2.53	0.41
1:D:65:MET:N	1:D:87:ILE:CG2	2.82	0.41
1:D:120:ILE:CG2	1:D:382:ILE:HG23	2.46	0.41
1:D:385:LYS:O	1:D:386:ILE:HB	2.19	0.41
1:D:399:LEU:O	1:D:399:LEU:HG	2.19	0.41
1:E:2:ALA:HA	1:E:5:VAL:HB	2.02	0.41
1:E:24:THR:C	1:E:26:GLY:N	2.77	0.41
1:E:399:LEU:O	1:E:399:LEU:HG	2.19	0.41
1:E:448:GLU:O	1:E:449:GLU:C	2.62	0.41
1:G:103:ASP:O	1:G:104:PRO:C	2.63	0.41
1:G:111:ALA:CB	1:G:433:VAL:HG21	2.50	0.41
1:G:337:ARG:C	1:H:58:LYS:CB	2.93	0.41
1:G:381:GLY:O	1:G:382:ILE:C	2.63	0.41
1:H:65:MET:C	1:H:65:MET:CE	2.76	0.41
1:H:106:SER:C	1:H:108:ALA:N	2.76	0.41
1:H:110:ARG:O	1:H:114:TYR:N	2.43	0.41
1:H:239:LYS:NZ	1:H:363:PRO:O	2.53	0.41
1:H:331:MET:HE3	1:H:396:LEU:HA	2.02	0.41
1:H:376:MET:CE	1:H:433:VAL:CG2	2.87	0.41
1:I:448:GLU:O	1:I:449:GLU:C	2.62	0.41
1:J:36:HIS:HB2	1:J:37:GLN:H	1.45	0.41
1:K:2:ALA:O	1:K:6:LEU:CD2	2.63	0.41
1:K:10:ASN:C	1:K:12:HIS:N	2.76	0.41
1:K:17:VAL:O	1:K:18:ASP:HB3	2.20	0.41
1:K:116:ARG:HE	1:K:116:ARG:HB2	1.57	0.41
1:K:199:MET:HG2	1:K:204:LEU:CD1	2.50	0.41
1:K:256:MET:HA	1:K:257:PRO:HD3	1.86	0.41
1:K:362:ASP:C	1:K:364:ALA:N	2.60	0.41
1:K:437:GLU:O	1:K:441:ALA:N	2.53	0.41
1:K:448:GLU:O	1:K:449:GLU:C	2.62	0.41
1:L:110:ARG:O	1:L:114:TYR:N	2.43	0.41
1:L:135:PHE:HB3	1:L:153:ASP:HB3	2.02	0.41
1:L:140:PHE:CD2	1:L:140:PHE:C	2.97	0.41
1:L:451:ASP:O	1:L:454:ARG:N	2.53	0.41
1:A:18:ASP:OD1	1:A:30:HIS:CG	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:274:LEU:HD11	1:A:282:PHE:CE1	2.44	0.41
1:A:331:MET:HE3	1:A:396:LEU:HA	2.02	0.41
1:B:33:ILE:HD13	1:C:208:ALA:HB2	2.02	0.41
1:B:144:ILE:HG23	1:B:145:SER:N	2.35	0.41
1:B:239:LYS:NZ	1:B:363:PRO:O	2.53	0.41
1:B:330:VAL:HA	1:B:410:VAL:CG1	2.50	0.41
1:B:381:GLY:O	1:B:382:ILE:C	2.63	0.41
1:B:437:GLU:O	1:B:441:ALA:N	2.53	0.41
1:B:445:LEU:O	1:B:446:ARG:C	2.63	0.41
1:C:111:ALA:CB	1:C:433:VAL:HG21	2.50	0.41
1:C:227:THR:O	1:C:228:MET:O	2.38	0.41
1:C:245:VAL:O	1:C:246:ALA:C	2.62	0.41
1:D:2:ALA:HA	1:D:5:VAL:HB	2.02	0.41
1:D:24:THR:C	1:D:26:GLY:N	2.77	0.41
1:D:245:VAL:O	1:D:246:ALA:C	2.62	0.41
1:D:426:GLU:OE1	1:D:426:GLU:HA	2.18	0.41
1:E:331:MET:HB2	1:E:341:ALA:HA	2.01	0.41
1:F:39:ASN:ND2	1:F:39:ASN:N	2.67	0.41
1:F:274:LEU:C	1:F:281:LEU:HD11	2.45	0.41
1:G:67:LEU:HG	1:G:88:ARG:HB3	2.02	0.41
1:H:144:ILE:HG23	1:H:145:SER:N	2.35	0.41
1:H:199:MET:HG2	1:H:204:LEU:CD1	2.50	0.41
1:H:311:LEU:HD12	1:H:373:ALA:HB2	2.02	0.41
1:I:24:THR:C	1:I:26:GLY:N	2.77	0.41
1:J:16:PHE:CA	1:J:33:ILE:O	2.63	0.41
1:J:17:VAL:O	1:J:18:ASP:HB3	2.20	0.41
1:J:65:MET:N	1:J:87:ILE:CG2	2.82	0.41
1:J:90:ASP:O	1:J:91:ILE:CG2	2.66	0.41
1:J:110:ARG:HH11	1:J:110:ARG:HD3	1.60	0.41
1:J:111:ALA:HB2	1:J:433:VAL:CG2	2.50	0.41
1:J:168:ASN:N	1:K:137:ASP:OD1	2.53	0.41
1:J:180:PHE:O	1:K:30:HIS:N	2.48	0.41
1:J:245:VAL:O	1:J:246:ALA:C	2.62	0.41
1:K:75:VAL:CG2	1:K:84:THR:HG22	2.44	0.41
1:K:120:ILE:CG2	1:K:382:ILE:HG23	2.46	0.41
1:K:216:ALA:HB3	1:K:260:MET:CE	2.47	0.41
1:K:245:VAL:O	1:K:246:ALA:C	2.62	0.41
1:K:330:VAL:HA	1:K:410:VAL:CG1	2.50	0.41
1:K:381:GLY:O	1:K:382:ILE:C	2.63	0.41
1:L:17:VAL:O	1:L:18:ASP:HB3	2.20	0.41
1:L:18:ASP:OD1	1:L:30:HIS:CG	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:111:ALA:CB	1:L:433:VAL:HG21	2.50	0.41
1:L:226:ASN:HB3	1:L:227:THR:H	1.53	0.41
1:L:339:ARG:HD2	1:L:340:SER:N	2.34	0.41
1:L:381:GLY:O	1:L:382:ILE:C	2.63	0.41
1:L:418:LEU:HA	1:L:418:LEU:HD22	1.44	0.41
1:A:4:HIS:HB3	1:A:5:VAL:H	1.65	0.41
1:A:79:PHE:HB3	1:B:190:ASP:CG	2.46	0.41
1:A:103:ASP:O	1:A:104:PRO:C	2.63	0.41
1:A:111:ALA:CB	1:A:433:VAL:HG21	2.50	0.41
1:A:115:LEU:C	1:A:115:LEU:CD2	2.92	0.41
1:A:381:GLY:O	1:A:382:ILE:C	2.63	0.41
1:A:409:GLN:C	1:A:411:ALA:N	2.78	0.41
1:B:18:ASP:OD1	1:B:30:HIS:CG	2.73	0.41
1:B:135:PHE:HB3	1:B:153:ASP:HB3	2.02	0.41
1:C:19:LEU:HD11	1:C:240:TYR:CD1	2.54	0.41
1:C:381:GLY:O	1:C:382:ILE:C	2.63	0.41
1:C:465:TYR:HH	1:I:449:GLU:CD	2.13	0.41
1:D:445:LEU:O	1:D:446:ARG:C	2.63	0.41
1:E:137:ASP:OD1	1:F:168:ASN:N	2.53	0.41
1:E:240:TYR:O	1:E:244:ASN:HB2	2.20	0.41
1:E:445:LEU:O	1:E:446:ARG:C	2.63	0.41
1:F:9:LEU:HD12	1:F:9:LEU:HA	1.72	0.41
1:F:199:MET:HG2	1:F:204:LEU:CD1	2.50	0.41
1:F:239:LYS:NZ	1:F:363:PRO:O	2.53	0.41
1:F:412:GLY:C	1:F:413:SER:HG	2.28	0.41
1:G:33:ILE:HD13	1:L:208:ALA:HB2	2.01	0.41
1:G:68:MET:O	1:G:71:ALA:HB3	2.20	0.41
1:G:208:ALA:HB2	1:H:33:ILE:HD13	2.02	0.41
1:G:331:MET:HE3	1:G:396:LEU:HA	2.02	0.41
1:G:409:GLN:C	1:G:411:ALA:N	2.78	0.41
1:H:9:LEU:HD12	1:H:9:LEU:HA	1.72	0.41
1:H:39:ASN:ND2	1:H:39:ASN:N	2.67	0.41
1:H:309:ASN:CB	1:H:313:ASN:ND2	2.82	0.41
1:I:17:VAL:O	1:I:18:ASP:HB3	2.20	0.41
1:I:91:ILE:HG23	1:I:96:THR:HA	2.02	0.41
1:I:103:ASP:O	1:I:104:PRO:C	2.63	0.41
1:I:240:TYR:O	1:I:244:ASN:HB2	2.20	0.41
1:I:308:ILE:HG12	1:I:308:ILE:H	1.37	0.41
1:I:445:LEU:O	1:I:446:ARG:C	2.63	0.41
1:J:2:ALA:HA	1:J:5:VAL:HB	2.02	0.41
1:J:381:GLY:O	1:J:382:ILE:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:399:LEU:O	1:J:399:LEU:HG	2.19	0.41
1:J:413:SER:O	1:J:414:LEU:C	2.64	0.41
1:K:331:MET:CE	1:K:396:LEU:CD1	2.81	0.41
1:K:387:HIS:HA	1:K:388:PRO:HD2	1.46	0.41
1:L:239:LYS:NZ	1:L:363:PRO:O	2.53	0.41
1:L:330:VAL:HA	1:L:410:VAL:CG1	2.51	0.41
1:A:2:ALA:HA	1:A:5:VAL:HB	2.02	0.41
1:A:33:ILE:HD13	1:B:208:ALA:HB2	2.02	0.41
1:A:68:MET:O	1:A:71:ALA:HB3	2.20	0.41
1:A:140:PHE:CD2	1:A:140:PHE:C	2.97	0.41
1:A:208:ALA:HA	1:F:32:THR:O	2.20	0.41
1:B:110:ARG:O	1:B:114:TYR:N	2.43	0.41
1:B:199:MET:HG2	1:B:204:LEU:CD1	2.51	0.41
1:B:392:MET:C	1:B:394:LYS:H	2.28	0.41
1:B:451:ASP:O	1:B:454:ARG:N	2.53	0.41
1:C:10:ASN:C	1:C:12:HIS:N	2.76	0.41
1:C:387:HIS:HA	1:C:388:PRO:HD2	1.46	0.41
1:C:391:PRO:O	1:C:391:PRO:HG2	2.20	0.41
1:C:403:GLU:CB	1:C:406:GLU:CB	2.87	0.41
1:C:436:ASP:O	1:C:437:GLU:C	2.62	0.41
1:D:17:VAL:O	1:D:18:ASP:HB3	2.20	0.41
1:D:124:VAL:C	1:D:125:LEU:CD2	2.92	0.41
1:D:311:LEU:HD12	1:D:373:ALA:HB2	2.02	0.41
1:D:381:GLY:O	1:D:382:ILE:C	2.63	0.41
1:E:24:THR:HB	1:E:26:GLY:N	2.30	0.41
1:E:111:ALA:HB2	1:E:433:VAL:CG2	2.51	0.41
1:E:371:PHE:O	1:E:372:ALA:C	2.64	0.41
1:E:390:GLU:HG3	1:E:391:PRO:HD2	2.01	0.41
1:E:426:GLU:OE1	1:E:426:GLU:HA	2.17	0.41
1:F:91:ILE:HG23	1:F:96:THR:HA	2.02	0.41
1:F:309:ASN:CB	1:F:313:ASN:ND2	2.82	0.41
1:F:330:VAL:HA	1:F:410:VAL:CG1	2.50	0.41
1:F:331:MET:HB2	1:F:341:ALA:HA	2.01	0.41
1:F:381:GLY:O	1:F:382:ILE:C	2.63	0.41
1:F:390:GLU:HG3	1:F:391:PRO:HD2	2.01	0.41
1:G:18:ASP:OD1	1:G:30:HIS:CG	2.73	0.41
1:G:79:PHE:HB3	1:L:190:ASP:CG	2.46	0.41
1:G:140:PHE:CD2	1:G:140:PHE:C	2.98	0.41
1:G:280:ASN:C	1:G:280:ASN:HD22	2.25	0.41
1:H:17:VAL:O	1:H:18:ASP:HB3	2.20	0.41
1:H:68:MET:O	1:H:71:ALA:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:111:ALA:CB	1:H:433:VAL:HG21	2.50	0.41
1:H:168:ASN:N	1:I:137:ASP:OD1	2.53	0.41
1:H:274:LEU:C	1:H:281:LEU:HD11	2.45	0.41
1:H:366:ASN:O	1:H:367:PRO:C	2.61	0.41
1:H:381:GLY:O	1:H:382:ILE:C	2.63	0.41
1:H:445:LEU:HA	1:H:445:LEU:HD23	1.69	0.41
1:J:91:ILE:HG23	1:J:96:THR:HA	2.02	0.41
1:J:199:MET:HG2	1:J:204:LEU:CD1	2.50	0.41
1:J:445:LEU:O	1:J:446:ARG:C	2.63	0.41
1:K:111:ALA:CB	1:K:433:VAL:HG21	2.50	0.41
1:K:227:THR:O	1:K:228:MET:O	2.38	0.41
1:K:436:ASP:O	1:K:437:GLU:C	2.62	0.41
1:L:9:LEU:HD12	1:L:9:LEU:HA	1.72	0.41
1:L:24:THR:HB	1:L:26:GLY:N	2.31	0.41
1:L:144:ILE:HG23	1:L:145:SER:N	2.35	0.41
1:L:299:GLY:HA3	1:L:386:ILE:CG2	2.49	0.41
1:L:311:LEU:HD12	1:L:373:ALA:HB2	2.02	0.41
1:L:445:LEU:O	1:L:446:ARG:C	2.63	0.41
1:A:19:LEU:CD2	1:A:75:VAL:HG21	2.38	0.41
1:A:49:PHE:CD2	1:A:49:PHE:C	2.98	0.41
1:A:331:MET:HB2	1:A:341:ALA:HA	2.01	0.41
1:A:376:MET:CE	1:A:433:VAL:HG13	2.41	0.41
1:B:2:ALA:HA	1:B:5:VAL:HB	2.02	0.41
1:B:17:VAL:O	1:B:18:ASP:HB3	2.20	0.41
1:B:90:ASP:O	1:B:91:ILE:CG2	2.66	0.41
1:B:115:LEU:C	1:B:115:LEU:CD2	2.92	0.41
1:B:207:GLU:O	1:B:208:ALA:CB	2.66	0.41
1:B:331:MET:HE3	1:B:396:LEU:HA	2.02	0.41
1:B:362:ASP:HB2	1:B:363:PRO:HD2	2.01	0.41
1:C:140:PHE:CD2	1:C:140:PHE:C	2.98	0.41
1:C:374:LEU:HD13	1:C:374:LEU:HA	1.87	0.41
1:D:16:PHE:CA	1:D:33:ILE:O	2.63	0.41
1:D:91:ILE:HG23	1:D:96:THR:HA	2.02	0.41
1:D:413:SER:O	1:D:414:LEU:C	2.64	0.41
1:E:103:ASP:CG	1:E:106:SER:CB	2.83	0.41
1:E:103:ASP:O	1:E:104:PRO:C	2.63	0.41
1:E:144:ILE:HG23	1:E:145:SER:N	2.35	0.41
1:E:381:GLY:O	1:E:382:ILE:C	2.63	0.41
1:F:18:ASP:OD1	1:F:30:HIS:CG	2.73	0.41
1:F:68:MET:O	1:F:71:ALA:HB3	2.20	0.41
1:F:91:ILE:HD12	1:F:91:ILE:HA	1.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:110:ARG:O	1:F:114:TYR:N	2.43	0.41
1:F:144:ILE:HG23	1:F:145:SER:N	2.35	0.41
1:F:154:ILE:H	1:F:154:ILE:HG13	1.39	0.41
1:F:231:LYS:O	1:F:234:GLU:N	2.54	0.41
1:F:366:ASN:O	1:F:367:PRO:C	2.61	0.41
1:F:451:ASP:O	1:F:454:ARG:N	2.53	0.41
1:G:19:LEU:CD2	1:G:75:VAL:HG21	2.38	0.41
1:G:49:PHE:CD2	1:G:49:PHE:C	2.98	0.41
1:G:57:TRP:O	1:G:58:LYS:O	2.39	0.41
1:G:115:LEU:C	1:G:115:LEU:CD2	2.92	0.41
1:G:135:PHE:HB3	1:G:153:ASP:HB3	2.02	0.41
1:H:115:LEU:C	1:H:115:LEU:CD2	2.92	0.41
1:I:18:ASP:OD1	1:I:30:HIS:CG	2.73	0.41
1:I:111:ALA:HB2	1:I:433:VAL:CG2	2.51	0.41
1:I:144:ILE:HG23	1:I:145:SER:N	2.36	0.41
1:I:256:MET:HA	1:I:257:PRO:HD3	1.86	0.41
1:I:330:VAL:HA	1:I:410:VAL:CG1	2.51	0.41
1:I:366:ASN:O	1:I:367:PRO:C	2.61	0.41
1:I:390:GLU:HG3	1:I:391:PRO:HD2	2.01	0.41
1:J:78:PRO:C	1:J:79:PHE:CD2	2.98	0.41
1:J:227:THR:O	1:J:228:MET:O	2.38	0.41
1:K:445:LEU:O	1:K:446:ARG:C	2.63	0.41
1:L:115:LEU:C	1:L:115:LEU:CD2	2.92	0.41
1:L:257:PRO:HG2	1:L:318:SER:HA	2.03	0.41
1:L:392:MET:C	1:L:394:LYS:H	2.29	0.41
1:A:57:TRP:O	1:A:58:LYS:O	2.39	0.41
1:A:135:PHE:HB3	1:A:153:ASP:HB3	2.02	0.41
1:A:163:LYS:HG3	1:A:164:TYR:N	2.32	0.41
1:B:137:ASP:OD1	1:C:168:ASN:N	2.53	0.41
1:B:231:LYS:O	1:B:234:GLU:N	2.54	0.41
1:B:311:LEU:HD12	1:B:373:ALA:HB2	2.02	0.41
1:B:331:MET:CE	1:B:396:LEU:CD1	2.81	0.41
1:B:418:LEU:HD22	1:B:418:LEU:HA	1.44	0.41
1:C:2:ALA:O	1:C:6:LEU:CD2	2.63	0.41
1:C:2:ALA:HA	1:C:5:VAL:HB	2.02	0.41
1:C:68:MET:O	1:C:71:ALA:HB3	2.20	0.41
1:C:116:ARG:HE	1:C:116:ARG:HB2	1.57	0.41
1:C:120:ILE:CG2	1:C:382:ILE:HG23	2.46	0.41
1:C:311:LEU:HD12	1:C:373:ALA:HB2	2.02	0.41
1:C:330:VAL:HA	1:C:410:VAL:CG1	2.51	0.41
1:C:445:LEU:O	1:C:446:ARG:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:78:PRO:C	1:D:79:PHE:CD2	2.98	0.41
1:D:111:ALA:HB2	1:D:433:VAL:CG2	2.51	0.41
1:D:199:MET:HG2	1:D:204:LEU:CD1	2.51	0.41
1:D:227:THR:O	1:D:228:MET:O	2.38	0.41
1:E:4:HIS:O	1:E:5:VAL:C	2.60	0.41
1:E:17:VAL:O	1:E:18:ASP:HB3	2.20	0.41
1:E:18:ASP:OD1	1:E:30:HIS:CG	2.73	0.41
1:E:132:PHE:CE2	1:E:219:ASN:HB2	2.56	0.41
1:E:330:VAL:HA	1:E:410:VAL:CG1	2.51	0.41
1:E:391:PRO:O	1:E:391:PRO:HG2	2.20	0.41
1:F:19:LEU:CD2	1:F:75:VAL:HG21	2.38	0.41
1:F:19:LEU:HD11	1:F:240:TYR:CD1	2.54	0.41
1:F:57:TRP:O	1:F:58:LYS:O	2.39	0.41
1:F:65:MET:HE2	1:F:66:VAL:N	2.32	0.41
1:F:116:ARG:HE	1:F:116:ARG:HB2	1.57	0.41
1:F:351:PRO:CG	1:F:352:LYS:H	2.33	0.41
1:G:390:GLU:HB3	1:G:391:PRO:CD	2.45	0.41
1:H:18:ASP:OD1	1:H:30:HIS:CG	2.73	0.41
1:H:49:PHE:CD2	1:H:49:PHE:C	2.98	0.41
1:H:110:ARG:H	1:H:110:ARG:HG2	1.74	0.41
1:H:202:MET:HB2	1:H:202:MET:HE3	1.58	0.41
1:H:231:LYS:O	1:H:234:GLU:N	2.54	0.41
1:H:245:VAL:O	1:H:249:PHE:N	2.48	0.41
1:H:330:VAL:HA	1:H:410:VAL:CG1	2.51	0.41
1:H:331:MET:HB2	1:H:341:ALA:HA	2.01	0.41
1:H:451:ASP:O	1:H:454:ARG:N	2.53	0.41
1:I:103:ASP:CG	1:I:106:SER:CB	2.83	0.41
1:I:135:PHE:HB3	1:I:153:ASP:HB3	2.02	0.41
1:I:168:ASN:N	1:J:137:ASP:OD1	2.53	0.41
1:I:371:PHE:O	1:I:372:ALA:C	2.64	0.41
1:I:381:GLY:O	1:I:382:ILE:C	2.63	0.41
1:J:18:ASP:OD1	1:J:30:HIS:CG	2.73	0.41
1:J:111:ALA:CB	1:J:433:VAL:HG21	2.50	0.41
1:K:2:ALA:HA	1:K:5:VAL:HB	2.02	0.41
1:K:61:ASN:C	1:K:62:GLU:HG3	2.44	0.41
1:K:68:MET:O	1:K:71:ALA:HB3	2.20	0.41
1:K:140:PHE:CD2	1:K:140:PHE:C	2.98	0.41
1:K:374:LEU:HD13	1:K:374:LEU:HA	1.87	0.41
1:K:391:PRO:O	1:K:391:PRO:HG2	2.20	0.41
1:L:2:ALA:HA	1:L:5:VAL:HB	2.02	0.41
1:L:207:GLU:O	1:L:208:ALA:CB	2.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:231:LYS:O	1:L:234:GLU:N	2.54	0.41
1:L:387:HIS:HA	1:L:388:PRO:HD2	1.46	0.41
1:L:407:ILE:HA	1:L:408:PRO:HD3	1.71	0.41
1:A:280:ASN:C	1:A:280:ASN:HD22	2.25	0.41
1:B:91:ILE:HG23	1:B:96:THR:HA	2.02	0.41
1:B:111:ALA:HB2	1:B:433:VAL:CG2	2.51	0.41
1:B:299:GLY:HA3	1:B:386:ILE:CG2	2.49	0.41
1:C:75:VAL:CG2	1:C:84:THR:HG22	2.44	0.41
1:C:216:ALA:HB3	1:C:260:MET:CE	2.48	0.41
1:C:331:MET:CE	1:C:396:LEU:CD1	2.81	0.41
1:C:351:PRO:CG	1:C:352:LYS:H	2.33	0.41
1:C:362:ASP:C	1:C:364:ALA:N	2.61	0.41
1:D:17:VAL:HG11	1:D:33:ILE:CG2	2.48	0.41
1:D:49:PHE:CD2	1:D:49:PHE:C	2.98	0.41
1:D:111:ALA:CB	1:D:433:VAL:HG21	2.50	0.41
1:D:137:ASP:OD1	1:E:168:ASN:N	2.53	0.41
1:D:299:GLY:HA3	1:D:386:ILE:CG2	2.49	0.41
1:E:135:PHE:HB3	1:E:153:ASP:HB3	2.02	0.41
1:E:245:VAL:O	1:E:249:PHE:N	2.48	0.41
1:E:366:ASN:O	1:E:367:PRO:C	2.61	0.41
1:F:17:VAL:O	1:F:18:ASP:HB3	2.20	0.41
1:F:245:VAL:O	1:F:249:PHE:N	2.48	0.41
1:F:445:LEU:HD23	1:F:445:LEU:HA	1.69	0.41
1:G:2:ALA:HA	1:G:5:VAL:HB	2.02	0.41
1:G:163:LYS:HG3	1:G:164:TYR:N	2.32	0.41
1:G:245:VAL:O	1:G:246:ALA:C	2.62	0.41
1:G:309:ASN:CB	1:G:313:ASN:ND2	2.82	0.41
1:H:111:ALA:CA	1:H:433:VAL:CG2	2.96	0.41
1:H:165:GLU:H	1:H:167:GLY:HA2	1.86	0.41
1:H:351:PRO:CG	1:H:352:LYS:H	2.33	0.41
1:H:390:GLU:HG3	1:H:391:PRO:HD2	2.01	0.41
1:H:418:LEU:HA	1:H:418:LEU:HD22	1.44	0.41
1:I:19:LEU:HB3	1:I:75:VAL:HG21	2.03	0.41
1:I:24:THR:HB	1:I:26:GLY:N	2.30	0.41
1:I:391:PRO:O	1:I:391:PRO:HG2	2.20	0.41
1:J:345:ILE:HA	1:J:346:PRO:HD2	1.92	0.41
1:K:19:LEU:HD11	1:K:240:TYR:CD1	2.54	0.41
1:K:101:ASP:C	1:K:102:ARG:HG2	2.46	0.41
1:K:168:ASN:N	1:L:137:ASP:OD1	2.53	0.41
1:K:311:LEU:HD12	1:K:373:ALA:HB2	2.02	0.41
1:L:57:TRP:O	1:L:58:LYS:O	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:111:ALA:HB2	1:L:433:VAL:CG2	2.51	0.41
1:L:376:MET:HE3	1:L:433:VAL:HG22	2.01	0.41
1:L:391:PRO:O	1:L:391:PRO:HG2	2.20	0.41
1:L:443:ILE:H	1:L:443:ILE:HG12	1.77	0.41
1:A:65:MET:C	1:A:65:MET:CE	2.76	0.41
1:A:245:VAL:O	1:A:246:ALA:C	2.62	0.41
1:A:305:ALA:O	1:A:306:LYS:C	2.64	0.41
1:A:309:ASN:CB	1:A:313:ASN:ND2	2.82	0.41
1:A:390:GLU:HB3	1:A:391:PRO:CD	2.45	0.41
1:B:43:PHE:CE2	1:B:69:PRO:HB3	2.45	0.41
1:B:57:TRP:O	1:B:58:LYS:O	2.39	0.41
1:B:101:ASP:C	1:B:102:ARG:HG2	2.46	0.41
1:B:111:ALA:CA	1:B:433:VAL:CG2	2.96	0.41
1:B:445:LEU:HD23	1:B:445:LEU:HA	1.69	0.41
1:C:19:LEU:HB3	1:C:75:VAL:HG21	2.03	0.41
1:C:61:ASN:C	1:C:62:GLU:HG3	2.44	0.41
1:C:101:ASP:C	1:C:102:ARG:HG2	2.46	0.41
1:C:102:ARG:HB2	1:C:104:PRO:CD	2.11	0.41
1:C:413:SER:O	1:C:414:LEU:C	2.64	0.41
1:D:18:ASP:OD1	1:D:30:HIS:CG	2.73	0.41
1:D:306:LYS:CG	1:D:411:ALA:CB	2.88	0.41
1:D:321:ARG:HH11	1:D:321:ARG:HD3	1.60	0.41
1:E:57:TRP:O	1:E:58:LYS:O	2.39	0.41
1:E:308:ILE:HG12	1:E:308:ILE:H	1.37	0.41
1:E:311:LEU:HD12	1:E:373:ALA:HB2	2.02	0.41
1:E:376:MET:CE	1:E:433:VAL:CG2	2.87	0.41
1:F:111:ALA:CB	1:F:433:VAL:HG21	2.50	0.41
1:F:165:GLU:H	1:F:167:GLY:HA2	1.86	0.41
1:G:30:HIS:O	1:L:180:PHE:CB	2.42	0.41
1:G:110:ARG:O	1:G:114:TYR:N	2.43	0.41
1:G:110:ARG:H	1:G:110:ARG:HG2	1.75	0.41
1:G:232:ALA:HA	1:G:371:PHE:CE1	2.56	0.41
1:G:305:ALA:O	1:G:306:LYS:C	2.63	0.41
1:G:331:MET:HB2	1:G:341:ALA:HA	2.01	0.41
1:H:57:TRP:O	1:H:58:LYS:O	2.39	0.41
1:H:65:MET:HE2	1:H:66:VAL:N	2.32	0.41
1:H:91:ILE:HG23	1:H:96:THR:HA	2.02	0.41
1:H:202:MET:HG2	1:H:237:ILE:HG23	2.01	0.41
1:I:57:TRP:O	1:I:58:LYS:O	2.39	0.41
1:I:78:PRO:C	1:I:79:PHE:CD2	2.98	0.41
1:I:154:ILE:H	1:I:154:ILE:HG13	1.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:232:ALA:HA	1:I:371:PHE:CE1	2.56	0.41
1:I:245:VAL:O	1:I:249:PHE:N	2.48	0.41
1:I:350:SER:HA	1:I:351:PRO:HD2	1.65	0.41
1:I:426:GLU:OE1	1:I:426:GLU:HA	2.18	0.41
1:J:17:VAL:HG11	1:J:33:ILE:CG2	2.48	0.41
1:J:93:GLU:O	1:J:96:THR:CG2	2.55	0.41
1:J:103:ASP:O	1:J:104:PRO:C	2.63	0.41
1:J:111:ALA:CA	1:J:433:VAL:CG2	2.96	0.41
1:J:132:PHE:CE2	1:J:219:ASN:HB2	2.56	0.41
1:J:451:ASP:O	1:J:454:ARG:N	2.53	0.41
1:K:351:PRO:CG	1:K:352:LYS:H	2.33	0.41
1:K:413:SER:O	1:K:414:LEU:C	2.64	0.41
1:L:90:ASP:O	1:L:91:ILE:CG2	2.66	0.41
1:L:91:ILE:HG23	1:L:96:THR:HA	2.02	0.41
1:L:111:ALA:CA	1:L:433:VAL:CG2	2.96	0.41
1:L:331:MET:HE3	1:L:396:LEU:HA	2.02	0.41
1:A:17:VAL:O	1:A:18:ASP:HB3	2.20	0.41
1:A:30:HIS:O	1:B:180:PHE:CB	2.42	0.41
1:A:32:THR:O	1:B:208:ALA:HA	2.20	0.41
1:A:137:ASP:OD1	1:B:168:ASN:N	2.53	0.41
1:A:168:ASN:N	1:F:137:ASP:OD1	2.53	0.41
1:A:199:MET:HG2	1:A:204:LEU:CD1	2.50	0.41
1:A:232:ALA:HA	1:A:371:PHE:CE1	2.56	0.41
1:A:301:VAL:HG23	1:A:301:VAL:H	1.33	0.41
1:A:385:LYS:O	1:A:386:ILE:HB	2.19	0.41
1:A:392:MET:C	1:A:394:LYS:H	2.28	0.41
1:B:19:LEU:HB3	1:B:75:VAL:HG21	2.03	0.41
1:B:68:MET:O	1:B:71:ALA:HB3	2.20	0.41
1:B:132:PHE:CE2	1:B:219:ASN:HB2	2.56	0.41
1:B:376:MET:HE3	1:B:433:VAL:HG22	2.01	0.41
1:B:387:HIS:HA	1:B:388:PRO:HD2	1.46	0.41
1:C:57:TRP:O	1:C:58:LYS:O	2.39	0.41
1:C:371:PHE:O	1:C:372:ALA:C	2.64	0.41
1:C:383:LYS:HB3	1:C:384:ASN:H	1.52	0.41
1:C:448:GLU:O	1:C:449:GLU:C	2.62	0.41
1:D:18:ASP:O	1:D:21:PHE:CE2	2.74	0.41
1:D:27:LYS:HZ3	1:D:239:LYS:HZ1	0.43	0.41
1:D:67:LEU:HG	1:D:88:ARG:HB3	2.02	0.41
1:D:103:ASP:O	1:D:104:PRO:C	2.63	0.41
1:D:105:ARG:O	1:D:109:LYS:HG3	2.21	0.41
1:D:132:PHE:CE2	1:D:219:ASN:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:231:LYS:O	1:D:234:GLU:N	2.54	0.41
1:D:257:PRO:HG2	1:D:318:SER:HA	2.03	0.41
1:D:318:SER:OG	1:D:362:ASP:OD2	2.32	0.41
1:D:330:VAL:HA	1:D:410:VAL:CG1	2.51	0.41
1:D:371:PHE:O	1:D:372:ALA:C	2.64	0.41
1:D:437:GLU:HB2	1:D:438:ALA:H	1.11	0.41
1:D:451:ASP:O	1:D:454:ARG:N	2.53	0.41
1:E:18:ASP:O	1:E:21:PHE:CE2	2.74	0.41
1:E:19:LEU:HB3	1:E:75:VAL:HG21	2.03	0.41
1:E:78:PRO:C	1:E:79:PHE:CD2	2.98	0.41
1:E:163:LYS:HG3	1:E:164:TYR:N	2.32	0.41
1:E:176:LYS:HA	1:E:213:VAL:O	2.21	0.41
1:E:231:LYS:O	1:E:234:GLU:N	2.54	0.41
1:E:232:ALA:HA	1:E:371:PHE:CE1	2.56	0.41
1:E:413:SER:O	1:E:414:LEU:C	2.64	0.41
1:F:64:ASP:O	1:F:66:VAL:N	2.47	0.41
1:F:66:VAL:HA	1:F:87:ILE:CD1	2.48	0.41
1:F:105:ARG:O	1:F:109:LYS:HG3	2.21	0.41
1:F:111:ALA:CA	1:F:433:VAL:CG2	2.96	0.41
1:F:160:SER:OG	1:F:161:SER:N	2.54	0.41
1:F:199:MET:CB	1:F:204:LEU:CD1	2.99	0.41
1:F:202:MET:HG2	1:F:237:ILE:HG23	2.01	0.41
1:F:445:LEU:O	1:F:446:ARG:C	2.63	0.41
1:G:65:MET:C	1:G:65:MET:CE	2.76	0.41
1:G:132:PHE:CE2	1:G:219:ASN:HB2	2.56	0.41
1:G:137:ASP:OD1	1:L:168:ASN:N	2.53	0.41
1:G:168:ASN:N	1:H:137:ASP:OD1	2.53	0.41
1:G:199:MET:HG2	1:G:204:LEU:CD1	2.51	0.41
1:G:385:LYS:O	1:G:386:ILE:HB	2.19	0.41
1:H:19:LEU:CD2	1:H:75:VAL:HG21	2.38	0.41
1:H:19:LEU:HD11	1:H:240:TYR:CD1	2.54	0.41
1:H:19:LEU:HB3	1:H:75:VAL:HG21	2.03	0.41
1:H:25:LYS:HD2	1:H:25:LYS:HA	1.66	0.41
1:H:64:ASP:O	1:H:66:VAL:N	2.48	0.41
1:H:66:VAL:HA	1:H:87:ILE:CD1	2.48	0.41
1:H:105:ARG:O	1:H:109:LYS:HG3	2.21	0.41
1:H:160:SER:OG	1:H:161:SER:N	2.54	0.41
1:H:308:ILE:HG12	1:H:308:ILE:H	1.37	0.41
1:H:392:MET:C	1:H:394:LYS:H	2.29	0.41
1:I:18:ASP:O	1:I:21:PHE:CE2	2.74	0.41
1:I:48:MET:CB	1:I:62:GLU:O	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:67:LEU:HG	1:I:88:ARG:HB3	2.02	0.41
1:I:68:MET:O	1:I:71:ALA:HB3	2.20	0.41
1:I:132:PHE:CE2	1:I:219:ASN:HB2	2.56	0.41
1:I:163:LYS:HG3	1:I:164:TYR:N	2.32	0.41
1:I:231:LYS:O	1:I:234:GLU:N	2.54	0.41
1:I:245:VAL:O	1:I:246:ALA:C	2.62	0.41
1:I:299:GLY:HA3	1:I:386:ILE:CG2	2.49	0.41
1:I:311:LEU:HD12	1:I:373:ALA:HB2	2.02	0.41
1:I:392:MET:C	1:I:394:LYS:H	2.28	0.41
1:I:451:ASP:O	1:I:454:ARG:N	2.53	0.41
1:J:18:ASP:O	1:J:21:PHE:CE2	2.74	0.41
1:J:49:PHE:CD2	1:J:49:PHE:C	2.98	0.41
1:J:67:LEU:HG	1:J:88:ARG:HB3	2.02	0.41
1:J:135:PHE:HB3	1:J:153:ASP:HB3	2.02	0.41
1:J:231:LYS:O	1:J:234:GLU:N	2.54	0.41
1:J:232:ALA:HA	1:J:371:PHE:CE1	2.56	0.41
1:J:292:GLU:HB3	1:J:293:GLN:H	1.69	0.41
1:J:299:GLY:HA3	1:J:386:ILE:CG2	2.49	0.41
1:J:318:SER:OG	1:J:362:ASP:OD2	2.32	0.41
1:J:330:VAL:HA	1:J:410:VAL:CG1	2.51	0.41
1:J:371:PHE:O	1:J:372:ALA:C	2.64	0.41
1:K:18:ASP:OD1	1:K:30:HIS:CG	2.73	0.41
1:K:19:LEU:HB3	1:K:75:VAL:HG21	2.03	0.41
1:K:57:TRP:O	1:K:58:LYS:O	2.39	0.41
1:K:135:PHE:HB3	1:K:153:ASP:HB3	2.02	0.41
1:K:309:ASN:CB	1:K:313:ASN:ND2	2.82	0.41
1:K:371:PHE:O	1:K:372:ALA:C	2.64	0.41
1:K:403:GLU:CB	1:K:406:GLU:CB	2.87	0.41
1:L:43:PHE:CE2	1:L:69:PRO:HB3	2.44	0.41
1:L:68:MET:O	1:L:71:ALA:HB3	2.20	0.41
1:L:101:ASP:C	1:L:102:ARG:HG2	2.46	0.41
1:L:132:PHE:CE2	1:L:219:ASN:HB2	2.56	0.41
1:L:414:LEU:O	1:L:416:GLU:N	2.54	0.41
1:A:75:VAL:CG2	1:A:84:THR:CB	2.90	0.41
1:A:231:LYS:O	1:A:234:GLU:N	2.54	0.41
1:A:414:LEU:O	1:A:416:GLU:N	2.54	0.41
1:B:391:PRO:O	1:B:391:PRO:HG2	2.20	0.41
1:C:135:PHE:HB3	1:C:153:ASP:HB3	2.02	0.41
1:C:309:ASN:CB	1:C:313:ASN:ND2	2.82	0.41
1:C:449:GLU:CD	1:I:465:TYR:HH	2.12	0.41
1:D:111:ALA:CA	1:D:433:VAL:CG2	2.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:135:PHE:HB3	1:D:153:ASP:HB3	2.02	0.41
1:D:176:LYS:HA	1:D:213:VAL:O	2.21	0.41
1:D:292:GLU:HB3	1:D:293:GLN:H	1.69	0.41
1:D:409:GLN:C	1:D:411:ALA:N	2.78	0.41
1:D:443:ILE:H	1:D:443:ILE:HG12	1.77	0.41
1:E:68:MET:O	1:E:71:ALA:HB3	2.20	0.41
1:E:111:ALA:CB	1:E:433:VAL:HG21	2.50	0.41
1:E:199:MET:CB	1:E:204:LEU:CD1	2.99	0.41
1:E:392:MET:C	1:E:394:LYS:H	2.29	0.41
1:E:451:ASP:O	1:E:454:ARG:N	2.53	0.41
1:F:232:ALA:HA	1:F:371:PHE:CE1	2.56	0.41
1:G:17:VAL:O	1:G:18:ASP:HB3	2.20	0.41
1:G:32:THR:O	1:L:208:ALA:HA	2.20	0.41
1:G:111:ALA:HB2	1:G:433:VAL:CG2	2.51	0.41
1:G:231:LYS:O	1:G:234:GLU:N	2.54	0.41
1:G:237:ILE:C	1:G:239:LYS:N	2.79	0.41
1:G:376:MET:CE	1:G:433:VAL:HG13	2.41	0.41
1:G:392:MET:C	1:G:394:LYS:H	2.29	0.41
1:G:414:LEU:O	1:G:416:GLU:N	2.54	0.41
1:H:445:LEU:O	1:H:446:ARG:C	2.63	0.41
1:I:24:THR:CG2	1:I:25:LYS:H	2.30	0.41
1:I:176:LYS:HA	1:I:213:VAL:O	2.21	0.41
1:I:199:MET:CB	1:I:204:LEU:CD1	2.99	0.41
1:I:331:MET:CE	1:I:396:LEU:CD1	2.81	0.41
1:J:19:LEU:CD2	1:J:75:VAL:HG21	2.38	0.41
1:J:33:ILE:HD13	1:J:33:ILE:HA	1.75	0.41
1:J:57:TRP:O	1:J:58:LYS:O	2.39	0.41
1:J:105:ARG:O	1:J:109:LYS:HG3	2.21	0.41
1:K:392:MET:C	1:K:394:LYS:H	2.28	0.41
1:L:19:LEU:HB3	1:L:75:VAL:HG21	2.03	0.41
1:A:110:ARG:H	1:A:110:ARG:HG2	1.75	0.40
1:A:111:ALA:HB2	1:A:433:VAL:CG2	2.51	0.40
1:A:132:PHE:CE2	1:A:219:ASN:HB2	2.56	0.40
1:A:144:ILE:HG23	1:A:145:SER:N	2.35	0.40
1:A:237:ILE:C	1:A:239:LYS:N	2.79	0.40
1:A:330:VAL:HA	1:A:410:VAL:CG1	2.51	0.40
1:A:371:PHE:O	1:A:372:ALA:C	2.64	0.40
1:B:92:LEU:CA	1:B:97:LEU:H	2.31	0.40
1:B:257:PRO:HG2	1:B:318:SER:HA	2.03	0.40
1:B:318:SER:OG	1:B:362:ASP:OD1	2.39	0.40
1:C:91:ILE:HG23	1:C:96:THR:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:176:LYS:HA	1:C:213:VAL:O	2.22	0.40
1:C:231:LYS:O	1:C:234:GLU:N	2.54	0.40
1:D:57:TRP:O	1:D:58:LYS:O	2.39	0.40
1:D:68:MET:O	1:D:71:ALA:HB3	2.20	0.40
1:D:199:MET:CB	1:D:204:LEU:CD1	2.99	0.40
1:D:373:ALA:O	1:D:374:LEU:C	2.62	0.40
1:D:384:ASN:O	1:D:385:LYS:CG	2.68	0.40
1:E:24:THR:CG2	1:E:25:LYS:H	2.30	0.40
1:E:245:VAL:O	1:E:246:ALA:C	2.62	0.40
1:E:299:GLY:HA3	1:E:386:ILE:CG2	2.49	0.40
1:F:135:PHE:HB3	1:F:153:ASP:HB3	2.02	0.40
1:F:237:ILE:C	1:F:239:LYS:N	2.79	0.40
1:F:385:LYS:O	1:F:386:ILE:HB	2.19	0.40
1:G:351:PRO:CG	1:G:352:LYS:H	2.33	0.40
1:H:91:ILE:HD12	1:H:91:ILE:HA	1.94	0.40
1:H:111:ALA:HB2	1:H:433:VAL:CG2	2.50	0.40
1:H:135:PHE:HB3	1:H:153:ASP:HB3	2.02	0.40
1:H:232:ALA:HA	1:H:371:PHE:CE1	2.56	0.40
1:H:237:ILE:C	1:H:239:LYS:N	2.79	0.40
1:I:376:MET:CE	1:I:433:VAL:CG2	2.87	0.40
1:I:413:SER:O	1:I:414:LEU:C	2.64	0.40
1:J:176:LYS:HA	1:J:213:VAL:O	2.21	0.40
1:J:384:ASN:O	1:J:385:LYS:CG	2.68	0.40
1:L:235:ILE:HD13	1:L:235:ILE:HA	1.90	0.40
1:L:309:ASN:CB	1:L:313:ASN:ND2	2.82	0.40
1:A:19:LEU:HB3	1:A:75:VAL:HG21	2.03	0.40
1:A:148:HIS:CD2	1:A:148:HIS:C	2.98	0.40
1:B:24:THR:CB	1:B:26:GLY:H	2.32	0.40
1:C:18:ASP:OD1	1:C:30:HIS:CG	2.73	0.40
1:C:132:PHE:CE2	1:C:219:ASN:HB2	2.56	0.40
1:C:392:MET:C	1:C:394:LYS:H	2.29	0.40
1:C:409:GLN:C	1:C:411:ALA:N	2.78	0.40
1:C:451:ASP:O	1:C:454:ARG:N	2.53	0.40
1:D:15:LYS:N	1:D:15:LYS:CD	2.67	0.40
1:D:19:LEU:HB3	1:D:75:VAL:HG21	2.03	0.40
1:D:75:VAL:CG2	1:D:84:THR:CB	2.90	0.40
1:D:93:GLU:O	1:D:96:THR:CG2	2.55	0.40
1:D:101:ASP:C	1:D:102:ARG:HG2	2.46	0.40
1:D:232:ALA:HA	1:D:371:PHE:CE1	2.56	0.40
1:D:246:ALA:CB	1:D:253:ALA:HB2	2.51	0.40
1:D:330:VAL:HA	1:D:410:VAL:HB	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:345:ILE:HA	1:D:346:PRO:HD2	1.93	0.40
1:E:67:LEU:HG	1:E:88:ARG:HB3	2.03	0.40
1:E:305:ALA:O	1:E:306:LYS:C	2.63	0.40
1:E:331:MET:HE3	1:E:396:LEU:HA	2.02	0.40
1:F:15:LYS:C	1:F:16:PHE:CG	2.99	0.40
1:F:65:MET:C	1:F:87:ILE:CG2	2.88	0.40
1:F:110:ARG:H	1:F:110:ARG:HG2	1.75	0.40
1:G:58:LYS:HB3	1:L:338:ASN:N	2.36	0.40
1:G:116:ARG:HE	1:G:116:ARG:HB2	1.57	0.40
1:G:144:ILE:HG23	1:G:145:SER:N	2.35	0.40
1:G:172:ARG:CB	1:G:173:PRO:CD	2.89	0.40
1:G:330:VAL:HA	1:G:410:VAL:CG1	2.50	0.40
1:G:371:PHE:O	1:G:372:ALA:C	2.64	0.40
1:G:445:LEU:O	1:G:446:ARG:C	2.63	0.40
1:H:154:ILE:H	1:H:154:ILE:HG13	1.39	0.40
1:H:199:MET:CB	1:H:204:LEU:CD1	3.00	0.40
1:H:385:LYS:O	1:H:386:ILE:HB	2.19	0.40
1:H:409:GLN:O	1:H:411:ALA:N	2.52	0.40
1:I:111:ALA:CB	1:I:433:VAL:HG21	2.50	0.40
1:I:305:ALA:O	1:I:306:LYS:C	2.64	0.40
1:I:331:MET:HE3	1:I:396:LEU:HA	2.02	0.40
1:I:385:LYS:O	1:I:386:ILE:HB	2.19	0.40
1:J:373:ALA:O	1:J:374:LEU:C	2.62	0.40
1:J:392:MET:C	1:J:394:LYS:H	2.29	0.40
1:K:91:ILE:HG23	1:K:96:THR:HA	2.02	0.40
1:K:231:LYS:O	1:K:234:GLU:N	2.54	0.40
1:K:383:LYS:HB3	1:K:384:ASN:H	1.52	0.40
1:K:451:ASP:O	1:K:454:ARG:N	2.53	0.40
1:L:92:LEU:CA	1:L:97:LEU:H	2.31	0.40
1:L:116:ARG:HE	1:L:116:ARG:HB2	1.57	0.40
1:L:318:SER:OG	1:L:362:ASP:OD1	2.39	0.40
1:A:182:VAL:HG13	1:A:182:VAL:H	1.61	0.40
1:A:257:PRO:HG2	1:A:318:SER:HA	2.03	0.40
1:A:318:SER:OG	1:A:362:ASP:OD1	2.39	0.40
1:B:58:LYS:HB3	1:C:338:ASN:N	2.37	0.40
1:B:407:ILE:HA	1:B:408:PRO:HD3	1.71	0.40
1:B:414:LEU:O	1:B:416:GLU:N	2.55	0.40
1:C:24:THR:C	1:C:26:GLY:N	2.77	0.40
1:C:79:PHE:CB	1:D:190:ASP:OD2	2.65	0.40
1:C:148:HIS:HB2	1:I:148:HIS:HB2	2.03	0.40
1:C:246:ALA:CB	1:C:253:ALA:HB2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:287:TYR:O	1:C:290:LEU:HB2	2.22	0.40
1:C:417:ALA:O	1:C:418:LEU:C	2.65	0.40
1:D:57:TRP:CZ2	1:E:337:ARG:NH1	2.90	0.40
1:D:79:PHE:HB3	1:E:190:ASP:CG	2.45	0.40
1:D:351:PRO:CG	1:D:352:LYS:H	2.33	0.40
1:E:48:MET:CB	1:E:62:GLU:O	2.64	0.40
1:E:75:VAL:HG22	1:E:84:THR:CG2	2.52	0.40
1:E:301:VAL:HG23	1:E:301:VAL:H	1.32	0.40
1:E:330:VAL:HA	1:E:410:VAL:HB	2.04	0.40
1:E:385:LYS:O	1:E:386:ILE:HB	2.19	0.40
1:F:19:LEU:HB3	1:F:75:VAL:HG21	2.03	0.40
1:F:65:MET:C	1:F:65:MET:CE	2.76	0.40
1:F:67:LEU:HD11	1:F:88:ARG:HH11	1.84	0.40
1:F:103:ASP:OD1	1:F:106:SER:N	2.54	0.40
1:F:111:ALA:HB2	1:F:433:VAL:CG2	2.51	0.40
1:F:256:MET:HA	1:F:257:PRO:HD3	1.86	0.40
1:F:391:PRO:O	1:F:391:PRO:HG2	2.20	0.40
1:F:409:GLN:O	1:F:411:ALA:N	2.52	0.40
1:G:19:LEU:HB3	1:G:75:VAL:HG21	2.03	0.40
1:G:101:ASP:C	1:G:102:ARG:HG2	2.46	0.40
1:G:103:ASP:OD1	1:G:106:SER:N	2.54	0.40
1:G:148:HIS:CD2	1:G:148:HIS:C	2.98	0.40
1:G:165:GLU:H	1:G:167:GLY:HA2	1.86	0.40
1:H:10:ASN:C	1:H:12:HIS:N	2.76	0.40
1:H:15:LYS:C	1:H:16:PHE:CG	2.99	0.40
1:H:60:ILE:HA	1:H:60:ILE:HD12	1.51	0.40
1:H:103:ASP:OD1	1:H:106:SER:N	2.54	0.40
1:H:176:LYS:HA	1:H:213:VAL:O	2.21	0.40
1:H:190:ASP:CG	1:I:79:PHE:HB3	2.46	0.40
1:H:371:PHE:O	1:H:372:ALA:C	2.64	0.40
1:H:391:PRO:O	1:H:391:PRO:HG2	2.20	0.40
1:I:49:PHE:HD2	1:I:49:PHE:N	2.03	0.40
1:I:75:VAL:HG22	1:I:84:THR:CG2	2.52	0.40
1:I:120:ILE:HD11	1:I:383:LYS:HG2	2.03	0.40
1:I:190:ASP:CG	1:J:79:PHE:HB3	2.46	0.40
1:I:330:VAL:HA	1:I:410:VAL:HB	2.03	0.40
1:I:337:ARG:NH1	1:J:57:TRP:CZ2	2.90	0.40
1:J:101:ASP:C	1:J:102:ARG:HG2	2.46	0.40
1:J:246:ALA:CB	1:J:253:ALA:HB2	2.51	0.40
1:J:306:LYS:CG	1:J:411:ALA:CB	2.88	0.40
1:J:337:ARG:NH1	1:K:57:TRP:CZ2	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:391:PRO:O	1:J:391:PRO:HG2	2.20	0.40
1:J:409:GLN:C	1:J:411:ALA:N	2.79	0.40
1:J:417:ALA:O	1:J:418:LEU:C	2.65	0.40
1:J:443:ILE:H	1:J:443:ILE:HG12	1.77	0.40
1:K:132:PHE:CE2	1:K:219:ASN:HB2	2.56	0.40
1:K:176:LYS:HA	1:K:213:VAL:O	2.22	0.40
1:K:287:TYR:O	1:K:290:LEU:HB2	2.22	0.40
1:K:305:ALA:O	1:K:306:LYS:C	2.63	0.40
1:K:409:GLN:C	1:K:411:ALA:N	2.78	0.40
1:K:414:LEU:O	1:K:416:GLU:N	2.54	0.40
1:L:296:TYR:HB2	1:L:382:ILE:CA	2.33	0.40
1:A:103:ASP:OD1	1:A:106:SER:N	2.54	0.40
1:A:445:LEU:O	1:A:446:ARG:C	2.63	0.40
1:B:105:ARG:O	1:B:109:LYS:HG3	2.21	0.40
1:B:246:ALA:CB	1:B:253:ALA:HB2	2.51	0.40
1:B:309:ASN:CB	1:B:313:ASN:ND2	2.82	0.40
1:B:332:LEU:HD11	1:B:410:VAL:CA	2.51	0.40
1:B:355:ARG:HD3	1:B:355:ARG:N	2.37	0.40
1:C:57:TRP:CZ2	1:D:337:ARG:NH1	2.90	0.40
1:C:228:MET:HE2	1:C:371:PHE:CB	2.44	0.40
1:C:330:VAL:HA	1:C:410:VAL:HB	2.04	0.40
1:C:441:ALA:O	1:C:442:TYR:C	2.65	0.40
1:D:19:LEU:CD2	1:D:75:VAL:HG21	2.38	0.40
1:D:27:LYS:HD2	1:D:239:LYS:CE	2.52	0.40
1:D:89:CYS:C	1:D:91:ILE:H	2.20	0.40
1:D:391:PRO:O	1:D:391:PRO:HG2	2.20	0.40
1:D:417:ALA:O	1:D:418:LEU:C	2.65	0.40
1:E:57:TRP:CZ2	1:F:337:ARG:NH1	2.90	0.40
1:E:79:PHE:HB3	1:F:190:ASP:CG	2.45	0.40
1:E:246:ALA:CB	1:E:253:ALA:HB2	2.51	0.40
1:E:350:SER:HA	1:E:351:PRO:HD2	1.65	0.40
1:F:10:ASN:C	1:F:12:HIS:N	2.76	0.40
1:F:75:VAL:CG2	1:F:84:THR:HG21	2.50	0.40
1:F:176:LYS:HA	1:F:213:VAL:O	2.21	0.40
1:F:202:MET:HB2	1:F:202:MET:HE3	1.58	0.40
1:F:330:VAL:HA	1:F:410:VAL:HB	2.04	0.40
1:F:383:LYS:HB3	1:F:384:ASN:H	1.52	0.40
1:F:414:LEU:O	1:F:416:GLU:N	2.55	0.40
1:G:33:ILE:HD13	1:G:33:ILE:HA	1.75	0.40
1:G:75:VAL:CG2	1:G:84:THR:CB	2.90	0.40
1:G:257:PRO:HG2	1:G:318:SER:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:318:SER:OG	1:G:362:ASP:OD1	2.39	0.40
1:G:337:ARG:NH1	1:H:57:TRP:CZ2	2.90	0.40
1:H:65:MET:C	1:H:87:ILE:CG2	2.88	0.40
1:H:132:PHE:CE2	1:H:219:ASN:HB2	2.56	0.40
1:H:163:LYS:HG3	1:H:164:TYR:N	2.31	0.40
1:H:330:VAL:HA	1:H:410:VAL:HB	2.04	0.40
1:H:337:ARG:NH1	1:I:57:TRP:CZ2	2.90	0.40
1:H:356:ILE:HD13	1:H:356:ILE:HA	1.93	0.40
1:H:414:LEU:O	1:H:416:GLU:N	2.54	0.40
1:I:27:LYS:HD2	1:I:239:LYS:CE	2.52	0.40
1:I:257:PRO:HG2	1:I:318:SER:HA	2.03	0.40
1:J:19:LEU:HB3	1:J:75:VAL:HG21	2.03	0.40
1:J:75:VAL:CG2	1:J:84:THR:CB	2.90	0.40
1:J:199:MET:CB	1:J:204:LEU:CD1	3.00	0.40
1:J:347:VAL:O	1:J:348:VAL:HG13	2.22	0.40
1:J:351:PRO:CG	1:J:352:LYS:H	2.33	0.40
1:K:199:MET:CB	1:K:204:LEU:CD1	2.99	0.40
1:K:338:ASN:N	1:L:58:LYS:HB3	2.37	0.40
1:K:417:ALA:O	1:K:418:LEU:C	2.65	0.40
1:L:371:PHE:O	1:L:372:ALA:C	2.64	0.40
1:L:433:VAL:H	1:L:433:VAL:HG12	1.37	0.40
1:A:58:LYS:HB3	1:B:338:ASN:N	2.37	0.40
1:A:91:ILE:HG23	1:A:96:THR:HA	2.02	0.40
1:A:101:ASP:C	1:A:102:ARG:HG2	2.46	0.40
1:A:165:GLU:H	1:A:167:GLY:HA2	1.86	0.40
1:A:347:VAL:O	1:A:348:VAL:HG13	2.22	0.40
1:A:351:PRO:CG	1:A:352:LYS:H	2.33	0.40
1:B:13:GLU:O	1:B:14:VAL:C	2.65	0.40
1:B:41:GLU:C	1:B:45:GLU:HG3	2.47	0.40
1:B:296:TYR:HB2	1:B:382:ILE:CA	2.33	0.40
1:B:355:ARG:HH11	1:B:355:ARG:HD2	1.55	0.40
1:C:103:ASP:OD1	1:C:106:SER:N	2.54	0.40
1:C:111:ALA:HB2	1:C:433:VAL:CG2	2.51	0.40
1:C:165:GLU:H	1:C:167:GLY:HA2	1.86	0.40
1:C:305:ALA:O	1:C:306:LYS:C	2.64	0.40
1:C:414:LEU:O	1:C:416:GLU:N	2.55	0.40
1:D:75:VAL:HG22	1:D:84:THR:CG2	2.51	0.40
1:D:148:HIS:CD2	1:D:148:HIS:C	2.98	0.40
1:E:148:HIS:HB2	1:K:148:HIS:HB2	2.03	0.40
1:E:414:LEU:O	1:E:416:GLU:N	2.54	0.40
1:E:417:ALA:O	1:E:418:LEU:C	2.65	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:465:TYR:HH	1:K:449:GLU:CD	2.12	0.40
1:F:19:LEU:O	1:F:20:ARG:HB2	2.21	0.40
1:F:308:ILE:HG12	1:F:308:ILE:H	1.37	0.40
1:F:321:ARG:HH11	1:F:321:ARG:HD3	1.60	0.40
1:G:67:LEU:HD11	1:G:88:ARG:HH11	1.84	0.40
1:G:182:VAL:HG13	1:G:182:VAL:H	1.62	0.40
1:G:199:MET:CB	1:G:204:LEU:CD1	2.99	0.40
1:G:347:VAL:O	1:G:348:VAL:HG13	2.22	0.40
1:G:376:MET:HE3	1:G:433:VAL:HG22	2.01	0.40
1:G:407:ILE:HA	1:G:408:PRO:HD3	1.70	0.40
1:G:413:SER:O	1:G:414:LEU:C	2.64	0.40
1:H:441:ALA:O	1:H:442:TYR:C	2.65	0.40
1:I:246:ALA:CB	1:I:253:ALA:HB2	2.51	0.40
1:J:27:LYS:HD2	1:J:239:LYS:CE	2.52	0.40
1:J:68:MET:O	1:J:71:ALA:HB3	2.20	0.40
1:J:332:LEU:HD11	1:J:410:VAL:CA	2.51	0.40
1:J:437:GLU:HB2	1:J:438:ALA:H	1.11	0.40
1:K:103:ASP:OD1	1:K:106:SER:N	2.54	0.40
1:K:257:PRO:HG2	1:K:318:SER:HA	2.03	0.40
1:K:330:VAL:HA	1:K:410:VAL:HB	2.04	0.40
1:K:376:MET:HE3	1:K:433:VAL:HG22	2.01	0.40
1:L:24:THR:CB	1:L:26:GLY:H	2.32	0.40
1:L:41:GLU:C	1:L:45:GLU:HG3	2.47	0.40
1:L:355:ARG:N	1:L:355:ARG:HD3	2.37	0.40
1:L:384:ASN:O	1:L:385:LYS:CG	2.68	0.40

All (62) 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:H:11:GLU:CG	1:L:39:ASN:O[4_445]	0.34	1.86
1:C:11:GLU:OE2	1:E:40:ALA:N[4_444]	0.65	1.55
1:C:11:GLU:CD	1:E:40:ALA:N[4_444]	0.70	1.50
1:H:11:GLU:N	1:L:41:GLU:OE1[4_445]	0.72	1.48
1:H:10:ASN:C	1:L:41:GLU:OE1[4_445]	1.03	1.17
1:H:11:GLU:CG	1:L:39:ASN:C[4_445]	1.05	1.15
1:C:11:GLU:CD	1:E:39:ASN:C[4_444]	1.07	1.13
1:H:10:ASN:O	1:L:41:GLU:OE2[4_445]	1.12	1.08
1:H:11:GLU:OE2	1:L:40:ALA:N[4_445]	1.19	1.01
1:H:11:GLU:OE1	1:L:39:ASN:ND2[4_445]	1.22	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:11:GLU:CB	1:L:39:ASN:O[4_445]	1.31	0.89
1:H:11:GLU:CD	1:L:39:ASN:ND2[4_445]	1.32	0.88
1:C:11:GLU:OE1	1:E:40:ALA:O[4_444]	1.34	0.86
1:C:11:GLU:CD	1:E:40:ALA:CA[4_444]	1.37	0.83
1:C:11:GLU:CG	1:E:39:ASN:O[4_444]	1.39	0.81
1:C:11:GLU:OE1	1:E:40:ALA:C[4_444]	1.40	0.80
1:H:11:GLU:CD	1:L:39:ASN:C[4_445]	1.40	0.80
1:B:44:GLU:OE2	1:D:10:ASN:CB[4_444]	1.45	0.75
1:C:11:GLU:CG	1:E:39:ASN:C[4_444]	1.56	0.64
1:H:10:ASN:C	1:L:41:GLU:CD[4_445]	1.56	0.64
1:C:7:THR:OG1	1:E:39:ASN:CB[4_444]	1.57	0.63
1:C:11:GLU:CB	1:E:39:ASN:O[4_444]	1.57	0.63
1:H:11:GLU:OE2	1:L:39:ASN:C[4_445]	1.59	0.61
1:H:11:GLU:CA	1:L:40:ALA:O[4_445]	1.59	0.61
1:H:10:ASN:O	1:L:41:GLU:CD[4_445]	1.60	0.60
1:C:11:GLU:OE1	1:E:40:ALA:N[4_444]	1.64	0.56
1:H:11:GLU:OE2	1:L:39:ASN:ND2[4_445]	1.66	0.54
1:C:11:GLU:CD	1:E:39:ASN:O[4_444]	1.67	0.53
1:H:11:GLU:CA	1:L:41:GLU:OE1[4_445]	1.69	0.51
1:H:11:GLU:OE1	1:L:39:ASN:CG[4_445]	1.71	0.49
1:C:11:GLU:OE2	1:E:40:ALA:CA[4_444]	1.72	0.48
1:C:11:GLU:OE1	1:E:39:ASN:C[4_444]	1.73	0.47
1:H:11:GLU:OE1	1:L:40:ALA:O[4_445]	1.75	0.45
1:C:11:GLU:CG	1:E:40:ALA:CB[4_444]	1.77	0.43
1:H:11:GLU:CD	1:L:39:ASN:O[4_445]	1.77	0.43
1:H:11:GLU:CD	1:L:40:ALA:N[4_445]	1.78	0.42
1:C:11:GLU:OE1	1:E:40:ALA:CA[4_444]	1.80	0.40
1:C:11:GLU:OE2	1:E:39:ASN:C[4_444]	1.84	0.36
1:H:10:ASN:O	1:L:41:GLU:OE1[4_445]	1.86	0.34
1:C:11:GLU:N	1:E:41:GLU:OE1[4_444]	1.87	0.33
1:C:10:ASN:C	1:E:41:GLU:OE1[4_444]	1.88	0.32
1:C:11:GLU:OE1	1:E:39:ASN:O[4_444]	1.88	0.32
1:H:11:GLU:CD	1:L:40:ALA:O[4_445]	1.91	0.29
1:H:11:GLU:CD	1:L:39:ASN:CG[4_445]	1.93	0.27
1:G:10:ASN:O	1:I:44:GLU:OE2[4_455]	1.94	0.26
1:H:11:GLU:N	1:L:41:GLU:CD[4_445]	1.95	0.25
1:H:10:ASN:C	1:L:41:GLU:OE2[4_445]	1.96	0.24
1:C:11:GLU:OE1	1:E:39:ASN:ND2[4_444]	1.97	0.23
1:C:11:GLU:CG	1:E:40:ALA:N[4_444]	1.98	0.22
1:G:10:ASN:CB	1:I:44:GLU:OE2[4_455]	1.98	0.22
1:C:10:ASN:CB	1:E:41:GLU:OE1[4_444]	2.03	0.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:11:GLU:CG	1:L:39:ASN:CA[4_445]	2.03	0.17
1:C:10:ASN:CA	1:E:41:GLU:OE1[4_444]	2.05	0.15
1:C:11:GLU:CA	1:E:40:ALA:O[4_444]	2.05	0.15
1:C:11:GLU:CD	1:E:40:ALA:CB[4_444]	2.07	0.13
1:G:10:ASN:C	1:I:44:GLU:OE2[4_455]	2.08	0.12
1:G:10:ASN:CA	1:I:44:GLU:OE2[4_455]	2.09	0.11
1:C:11:GLU:CD	1:E:40:ALA:C[4_444]	2.10	0.10
1:C:11:GLU:CB	1:E:40:ALA:CB[4_444]	2.11	0.09
1:H:11:GLU:CG	1:L:40:ALA:N[4_445]	2.11	0.09
1:B:44:GLU:OE2	1:D:10:ASN:CA[4_444]	2.19	0.01
1:H:11:GLU:OE1	1:L:39:ASN:OD1[4_445]	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	94/469 (20%)	44 (47%)	29 (31%)	21 (22%)	0	1
1	B	254/469 (54%)	141 (56%)	61 (24%)	52 (20%)	0	1
1	C	195/469 (42%)	99 (51%)	55 (28%)	41 (21%)	0	1
1	D	436/469 (93%)	229 (52%)	110 (25%)	97 (22%)	0	1
1	E	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
1	F	466/469 (99%)	248 (53%)	118 (25%)	100 (22%)	0	1
1	G	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
1	H	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
1	I	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
1	J	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
1	K	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
1	L	466/469 (99%)	249 (53%)	117 (25%)	100 (22%)	0	1
All	All	4707/5628 (84%)	2504 (53%)	1192 (25%)	1011 (22%)	0	1

All (1011) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	8	MET
1	A	400	PRO
1	A	401	PRO
1	A	413	SER
1	A	414	LEU
1	A	425	ARG
1	A	426	GLU
1	A	434	PHE
1	B	8	MET
1	B	13	GLU
1	B	14	VAL
1	B	21	PHE
1	B	28	GLU
1	B	36	HIS
1	B	37	GLN
1	B	39	ASN
1	B	41	GLU
1	B	51	GLY
1	B	58	LYS
1	B	59	GLY
1	B	66	VAL
1	B	77	ASP
1	B	79	PHE
1	B	93	GLU
1	B	144	ILE
1	B	155	GLU
1	B	158	TRP
1	B	165	GLU
1	B	168	ASN
1	B	170	GLY
1	B	175	VAL
1	B	176	LYS
1	B	180	PHE
1	B	183	PRO
1	B	187	SER
1	B	188	ALA
1	B	190	ASP
1	B	208	ALA
1	B	215	THR
1	B	225	PHE
1	B	265	GLY
1	C	155	GLU

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Mol	Chain	Res	Type
1	C	158	TRP
1	C	165	GLU
1	C	168	ASN
1	C	170	GLY
1	C	175	VAL
1	C	176	LYS
1	C	180	PHE
1	C	183	PRO
1	C	187	SER
1	C	188	ALA
1	C	190	ASP
1	C	215	THR
1	C	225	PHE
1	C	396	LEU
1	C	397	TYR
1	C	400	PRO
1	C	401	PRO
1	C	413	SER
1	C	414	LEU
1	C	425	ARG
1	C	426	GLU
1	C	434	PHE
1	D	8	MET
1	D	13	GLU
1	D	14	VAL
1	D	21	PHE
1	D	28	GLU
1	D	36	HIS
1	D	37	GLN
1	D	39	ASN
1	D	41	GLU
1	D	51	GLY
1	D	58	LYS
1	D	59	GLY
1	D	66	VAL
1	D	86	ILE
1	D	89	CYS
1	D	93	GLU
1	D	102	ARG
1	D	103	ASP
1	D	144	ILE
1	D	155	GLU

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Mol	Chain	Res	Type
1	D	158	TRP
1	D	165	GLU
1	D	168	ASN
1	D	170	GLY
1	D	175	VAL
1	D	176	LYS
1	D	180	PHE
1	D	183	PRO
1	D	187	SER
1	D	188	ALA
1	D	190	ASP
1	D	208	ALA
1	D	215	THR
1	D	225	PHE
1	D	265	GLY
1	D	281	LEU
1	D	315	THR
1	D	316	THR
1	D	326	TYR
1	D	337	ARG
1	D	339	ARG
1	D	347	VAL
1	D	349	ALA
1	D	360	PHE
1	D	363	PRO
1	D	383	LYS
1	D	396	LEU
1	D	397	TYR
1	D	400	PRO
1	D	401	PRO
1	D	413	SER
1	D	414	LEU
1	D	425	ARG
1	D	426	GLU
1	D	434	PHE
1	E	8	MET
1	E	13	GLU
1	E	14	VAL
1	E	21	PHE
1	E	28	GLU
1	E	36	HIS
1	E	37	GLN

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Mol	Chain	Res	Type
1	E	39	ASN
1	E	41	GLU
1	E	51	GLY
1	E	58	LYS
1	E	59	GLY
1	E	66	VAL
1	E	77	ASP
1	E	79	PHE
1	E	86	ILE
1	E	89	CYS
1	E	93	GLU
1	E	102	ARG
1	E	103	ASP
1	E	144	ILE
1	E	155	GLU
1	E	158	TRP
1	E	165	GLU
1	E	168	ASN
1	E	170	GLY
1	E	175	VAL
1	E	176	LYS
1	E	180	PHE
1	E	183	PRO
1	E	187	SER
1	E	188	ALA
1	E	190	ASP
1	E	208	ALA
1	E	215	THR
1	E	225	PHE
1	E	265	GLY
1	E	281	LEU
1	E	315	THR
1	E	316	THR
1	E	326	TYR
1	E	337	ARG
1	E	339	ARG
1	E	347	VAL
1	E	349	ALA
1	E	360	PHE
1	E	363	PRO
1	E	383	LYS
1	E	396	LEU

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Mol	Chain	Res	Type
1	E	397	TYR
1	E	400	PRO
1	E	401	PRO
1	E	413	SER
1	E	414	LEU
1	E	425	ARG
1	E	426	GLU
1	E	434	PHE
1	F	8	MET
1	F	13	GLU
1	F	14	VAL
1	F	21	PHE
1	F	28	GLU
1	F	36	HIS
1	F	37	GLN
1	F	39	ASN
1	F	41	GLU
1	F	51	GLY
1	F	58	LYS
1	F	59	GLY
1	F	66	VAL
1	F	77	ASP
1	F	79	PHE
1	F	86	ILE
1	F	89	CYS
1	F	93	GLU
1	F	102	ARG
1	F	103	ASP
1	F	144	ILE
1	F	155	GLU
1	F	158	TRP
1	F	165	GLU
1	F	168	ASN
1	F	170	GLY
1	F	175	VAL
1	F	176	LYS
1	F	180	PHE
1	F	183	PRO
1	F	187	SER
1	F	188	ALA
1	F	190	ASP
1	F	208	ALA

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Mol	Chain	Res	Type
1	F	215	THR
1	F	225	PHE
1	F	265	GLY
1	F	281	LEU
1	F	315	THR
1	F	316	THR
1	F	326	TYR
1	F	337	ARG
1	F	339	ARG
1	F	347	VAL
1	F	349	ALA
1	F	360	PHE
1	F	363	PRO
1	F	383	LYS
1	F	396	LEU
1	F	397	TYR
1	F	400	PRO
1	F	401	PRO
1	F	413	SER
1	F	414	LEU
1	F	425	ARG
1	F	426	GLU
1	F	434	PHE
1	G	8	MET
1	G	13	GLU
1	G	14	VAL
1	G	21	PHE
1	G	28	GLU
1	G	36	HIS
1	G	37	GLN
1	G	39	ASN
1	G	41	GLU
1	G	51	GLY
1	G	58	LYS
1	G	59	GLY
1	G	66	VAL
1	G	77	ASP
1	G	79	PHE
1	G	86	ILE
1	G	89	CYS
1	G	93	GLU
1	G	102	ARG

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Mol	Chain	Res	Type
1	G	103	ASP
1	G	144	ILE
1	G	155	GLU
1	G	158	TRP
1	G	165	GLU
1	G	168	ASN
1	G	170	GLY
1	G	175	VAL
1	G	176	LYS
1	G	180	PHE
1	G	183	PRO
1	G	187	SER
1	G	188	ALA
1	G	190	ASP
1	G	208	ALA
1	G	215	THR
1	G	225	PHE
1	G	265	GLY
1	G	281	LEU
1	G	315	THR
1	G	316	THR
1	G	326	TYR
1	G	337	ARG
1	G	339	ARG
1	G	347	VAL
1	G	349	ALA
1	G	360	PHE
1	G	363	PRO
1	G	383	LYS
1	G	396	LEU
1	G	397	TYR
1	G	400	PRO
1	G	401	PRO
1	G	413	SER
1	G	414	LEU
1	G	425	ARG
1	G	426	GLU
1	G	434	PHE
1	H	8	MET
1	H	13	GLU
1	H	14	VAL
1	H	21	PHE

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Mol	Chain	Res	Type
1	H	28	GLU
1	H	36	HIS
1	H	37	GLN
1	H	39	ASN
1	H	41	GLU
1	H	51	GLY
1	H	58	LYS
1	H	59	GLY
1	H	66	VAL
1	H	77	ASP
1	H	79	PHE
1	H	86	ILE
1	H	89	CYS
1	H	93	GLU
1	H	102	ARG
1	H	103	ASP
1	H	144	ILE
1	H	155	GLU
1	H	158	TRP
1	H	165	GLU
1	H	168	ASN
1	H	170	GLY
1	H	175	VAL
1	H	176	LYS
1	H	180	PHE
1	H	183	PRO
1	H	187	SER
1	H	188	ALA
1	H	190	ASP
1	H	208	ALA
1	H	215	THR
1	H	225	PHE
1	H	265	GLY
1	H	281	LEU
1	H	315	THR
1	H	316	THR
1	H	326	TYR
1	H	337	ARG
1	H	339	ARG
1	H	347	VAL
1	H	349	ALA
1	H	360	PHE

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Mol	Chain	Res	Type
1	H	363	PRO
1	H	383	LYS
1	H	396	LEU
1	H	397	TYR
1	H	400	PRO
1	H	401	PRO
1	H	413	SER
1	H	414	LEU
1	H	425	ARG
1	H	426	GLU
1	H	434	PHE
1	I	8	MET
1	I	13	GLU
1	I	14	VAL
1	I	21	PHE
1	I	28	GLU
1	I	36	HIS
1	I	37	GLN
1	I	39	ASN
1	I	41	GLU
1	I	51	GLY
1	I	58	LYS
1	I	59	GLY
1	I	66	VAL
1	I	77	ASP
1	I	79	PHE
1	I	86	ILE
1	I	89	CYS
1	I	93	GLU
1	I	102	ARG
1	I	103	ASP
1	I	144	ILE
1	I	155	GLU
1	I	158	TRP
1	I	165	GLU
1	I	168	ASN
1	I	170	GLY
1	I	175	VAL
1	I	176	LYS
1	I	180	PHE
1	I	183	PRO
1	I	187	SER

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Mol	Chain	Res	Type
1	I	188	ALA
1	I	190	ASP
1	I	208	ALA
1	I	215	THR
1	I	225	PHE
1	I	265	GLY
1	I	281	LEU
1	I	315	THR
1	I	316	THR
1	I	326	TYR
1	I	337	ARG
1	I	339	ARG
1	I	347	VAL
1	I	349	ALA
1	I	360	PHE
1	I	363	PRO
1	I	383	LYS
1	I	396	LEU
1	I	397	TYR
1	I	400	PRO
1	I	401	PRO
1	I	413	SER
1	I	414	LEU
1	I	425	ARG
1	I	426	GLU
1	I	434	PHE
1	J	8	MET
1	J	13	GLU
1	J	14	VAL
1	J	21	PHE
1	J	28	GLU
1	J	36	HIS
1	J	37	GLN
1	J	39	ASN
1	J	41	GLU
1	J	51	GLY
1	J	58	LYS
1	J	59	GLY
1	J	66	VAL
1	J	77	ASP
1	J	79	PHE
1	J	86	ILE

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Mol	Chain	Res	Type
1	J	89	CYS
1	J	93	GLU
1	J	102	ARG
1	J	103	ASP
1	J	144	ILE
1	J	155	GLU
1	J	158	TRP
1	J	165	GLU
1	J	168	ASN
1	J	170	GLY
1	J	175	VAL
1	J	176	LYS
1	J	180	PHE
1	J	183	PRO
1	J	187	SER
1	J	188	ALA
1	J	190	ASP
1	J	208	ALA
1	J	215	THR
1	J	225	PHE
1	J	265	GLY
1	J	281	LEU
1	J	315	THR
1	J	316	THR
1	J	326	TYR
1	J	337	ARG
1	J	339	ARG
1	J	347	VAL
1	J	349	ALA
1	J	360	PHE
1	J	363	PRO
1	J	383	LYS
1	J	396	LEU
1	J	397	TYR
1	J	400	PRO
1	J	401	PRO
1	J	413	SER
1	J	414	LEU
1	J	425	ARG
1	J	426	GLU
1	J	434	PHE
1	K	8	MET

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Mol	Chain	Res	Type
1	K	13	GLU
1	K	14	VAL
1	K	21	PHE
1	K	28	GLU
1	K	36	HIS
1	K	37	GLN
1	K	39	ASN
1	K	41	GLU
1	K	51	GLY
1	K	58	LYS
1	K	59	GLY
1	K	66	VAL
1	K	77	ASP
1	K	79	PHE
1	K	86	ILE
1	K	89	CYS
1	K	93	GLU
1	K	102	ARG
1	K	103	ASP
1	K	144	ILE
1	K	155	GLU
1	K	158	TRP
1	K	165	GLU
1	K	168	ASN
1	K	170	GLY
1	K	175	VAL
1	K	176	LYS
1	K	180	PHE
1	K	183	PRO
1	K	187	SER
1	K	188	ALA
1	K	190	ASP
1	K	208	ALA
1	K	215	THR
1	K	225	PHE
1	K	265	GLY
1	K	281	LEU
1	K	315	THR
1	K	316	THR
1	K	326	TYR
1	K	337	ARG
1	K	339	ARG

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Mol	Chain	Res	Type
1	K	347	VAL
1	K	349	ALA
1	K	360	PHE
1	K	363	PRO
1	K	383	LYS
1	K	396	LEU
1	K	397	TYR
1	K	400	PRO
1	K	401	PRO
1	K	413	SER
1	K	414	LEU
1	K	425	ARG
1	K	426	GLU
1	K	434	PHE
1	L	8	MET
1	L	13	GLU
1	L	14	VAL
1	L	21	PHE
1	L	28	GLU
1	L	36	HIS
1	L	37	GLN
1	L	39	ASN
1	L	41	GLU
1	L	51	GLY
1	L	58	LYS
1	L	59	GLY
1	L	66	VAL
1	L	77	ASP
1	L	79	PHE
1	L	86	ILE
1	L	89	CYS
1	L	93	GLU
1	L	102	ARG
1	L	103	ASP
1	L	144	ILE
1	L	155	GLU
1	L	158	TRP
1	L	165	GLU
1	L	168	ASN
1	L	170	GLY
1	L	175	VAL
1	L	176	LYS

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Mol	Chain	Res	Type
1	L	180	PHE
1	L	183	PRO
1	L	187	SER
1	L	188	ALA
1	L	190	ASP
1	L	208	ALA
1	L	215	THR
1	L	225	PHE
1	L	265	GLY
1	L	281	LEU
1	L	315	THR
1	L	316	THR
1	L	326	TYR
1	L	337	ARG
1	L	339	ARG
1	L	347	VAL
1	L	349	ALA
1	L	360	PHE
1	L	363	PRO
1	L	383	LYS
1	L	396	LEU
1	L	397	TYR
1	L	400	PRO
1	L	401	PRO
1	L	413	SER
1	L	414	LEU
1	L	425	ARG
1	L	426	GLU
1	L	434	PHE
1	A	410	VAL
1	A	427	PHE
1	A	437	GLU
1	A	443	ILE
1	A	444	ALA
1	A	466	TYR
1	B	18	ASP
1	B	19	LEU
1	B	24	THR
1	B	53	SER
1	B	54	ILE
1	B	71	ALA
1	B	91	ILE

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Mol	Chain	Res	Type
1	B	156	GLY
1	B	167	GLY
1	B	266	SER
1	C	156	GLY
1	C	167	GLY
1	C	266	SER
1	C	410	VAL
1	C	427	PHE
1	C	437	GLU
1	C	443	ILE
1	C	444	ALA
1	C	466	TYR
1	D	18	ASP
1	D	19	LEU
1	D	24	THR
1	D	53	SER
1	D	54	ILE
1	D	71	ALA
1	D	91	ILE
1	D	97	LEU
1	D	156	GLY
1	D	167	GLY
1	D	266	SER
1	D	292	GLU
1	D	338	ASN
1	D	378	GLY
1	D	384	ASN
1	D	410	VAL
1	D	427	PHE
1	D	437	GLU
1	D	443	ILE
1	D	444	ALA
1	D	466	TYR
1	E	18	ASP
1	E	19	LEU
1	E	24	THR
1	E	53	SER
1	E	54	ILE
1	E	71	ALA
1	E	91	ILE
1	E	97	LEU
1	E	156	GLY

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Mol	Chain	Res	Type
1	E	167	GLY
1	E	266	SER
1	E	292	GLU
1	E	338	ASN
1	E	378	GLY
1	E	410	VAL
1	E	427	PHE
1	E	437	GLU
1	E	443	ILE
1	E	444	ALA
1	E	466	TYR
1	F	18	ASP
1	F	19	LEU
1	F	24	THR
1	F	53	SER
1	F	54	ILE
1	F	71	ALA
1	F	91	ILE
1	F	97	LEU
1	F	156	GLY
1	F	167	GLY
1	F	266	SER
1	F	292	GLU
1	F	338	ASN
1	F	378	GLY
1	F	384	ASN
1	F	410	VAL
1	F	427	PHE
1	F	437	GLU
1	F	443	ILE
1	F	444	ALA
1	F	466	TYR
1	G	18	ASP
1	G	19	LEU
1	G	24	THR
1	G	53	SER
1	G	54	ILE
1	G	71	ALA
1	G	91	ILE
1	G	97	LEU
1	G	156	GLY
1	G	167	GLY

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Mol	Chain	Res	Type
1	G	266	SER
1	G	292	GLU
1	G	338	ASN
1	G	378	GLY
1	G	410	VAL
1	G	427	PHE
1	G	437	GLU
1	G	443	ILE
1	G	444	ALA
1	G	466	TYR
1	H	18	ASP
1	H	19	LEU
1	H	24	THR
1	H	53	SER
1	H	54	ILE
1	H	71	ALA
1	H	91	ILE
1	H	97	LEU
1	H	156	GLY
1	H	167	GLY
1	H	266	SER
1	H	292	GLU
1	H	338	ASN
1	H	378	GLY
1	H	410	VAL
1	H	427	PHE
1	H	437	GLU
1	H	443	ILE
1	H	444	ALA
1	H	466	TYR
1	I	18	ASP
1	I	19	LEU
1	I	24	THR
1	I	53	SER
1	I	54	ILE
1	I	71	ALA
1	I	91	ILE
1	I	97	LEU
1	I	156	GLY
1	I	167	GLY
1	I	266	SER
1	I	292	GLU

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Mol	Chain	Res	Type
1	I	338	ASN
1	I	378	GLY
1	I	384	ASN
1	I	410	VAL
1	I	427	PHE
1	I	437	GLU
1	I	443	ILE
1	I	444	ALA
1	I	466	TYR
1	J	18	ASP
1	J	19	LEU
1	J	24	THR
1	J	53	SER
1	J	54	ILE
1	J	71	ALA
1	J	91	ILE
1	J	97	LEU
1	J	156	GLY
1	J	167	GLY
1	J	266	SER
1	J	292	GLU
1	J	338	ASN
1	J	378	GLY
1	J	384	ASN
1	J	410	VAL
1	J	427	PHE
1	J	437	GLU
1	J	443	ILE
1	J	444	ALA
1	J	466	TYR
1	K	18	ASP
1	K	19	LEU
1	K	24	THR
1	K	53	SER
1	K	54	ILE
1	K	71	ALA
1	K	91	ILE
1	K	97	LEU
1	K	156	GLY
1	K	167	GLY
1	K	266	SER
1	K	292	GLU

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Mol	Chain	Res	Type
1	K	338	ASN
1	K	378	GLY
1	K	384	ASN
1	K	410	VAL
1	K	427	PHE
1	K	437	GLU
1	K	443	ILE
1	K	444	ALA
1	K	466	TYR
1	L	18	ASP
1	L	19	LEU
1	L	24	THR
1	L	53	SER
1	L	54	ILE
1	L	71	ALA
1	L	91	ILE
1	L	97	LEU
1	L	156	GLY
1	L	167	GLY
1	L	266	SER
1	L	292	GLU
1	L	338	ASN
1	L	378	GLY
1	L	384	ASN
1	L	410	VAL
1	L	427	PHE
1	L	437	GLU
1	L	443	ILE
1	L	444	ALA
1	L	466	TYR
1	A	440	ASP
1	B	111	ALA
1	B	184	PRO
1	C	111	ALA
1	C	184	PRO
1	C	440	ASP
1	D	184	PRO
1	D	287	TYR
1	D	386	ILE
1	D	392	MET
1	D	440	ASP
1	E	111	ALA

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Mol	Chain	Res	Type
1	E	184	PRO
1	E	287	TYR
1	E	384	ASN
1	E	386	ILE
1	E	392	MET
1	E	440	ASP
1	F	111	ALA
1	F	184	PRO
1	F	287	TYR
1	F	386	ILE
1	F	392	MET
1	F	440	ASP
1	G	111	ALA
1	G	184	PRO
1	G	287	TYR
1	G	384	ASN
1	G	386	ILE
1	G	392	MET
1	G	440	ASP
1	H	111	ALA
1	H	184	PRO
1	H	287	TYR
1	H	384	ASN
1	H	386	ILE
1	H	392	MET
1	H	440	ASP
1	I	111	ALA
1	I	184	PRO
1	I	287	TYR
1	I	386	ILE
1	I	392	MET
1	I	440	ASP
1	J	111	ALA
1	J	184	PRO
1	J	287	TYR
1	J	386	ILE
1	J	392	MET
1	J	440	ASP
1	K	111	ALA
1	K	184	PRO
1	K	287	TYR
1	K	386	ILE

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Mol	Chain	Res	Type
1	K	392	MET
1	K	440	ASP
1	L	111	ALA
1	L	184	PRO
1	L	287	TYR
1	L	386	ILE
1	L	392	MET
1	L	440	ASP
1	A	7	THR
1	A	438	ALA
1	A	442	TYR
1	B	7	THR
1	B	40	ALA
1	B	143	SER
1	C	438	ALA
1	C	442	TYR
1	D	7	THR
1	D	40	ALA
1	D	143	SER
1	D	438	ALA
1	D	442	TYR
1	E	7	THR
1	E	40	ALA
1	E	143	SER
1	E	438	ALA
1	E	442	TYR
1	E	467	SER
1	F	7	THR
1	F	40	ALA
1	F	143	SER
1	F	438	ALA
1	F	442	TYR
1	G	7	THR
1	G	40	ALA
1	G	143	SER
1	G	438	ALA
1	G	442	TYR
1	H	7	THR
1	H	40	ALA
1	H	143	SER
1	H	438	ALA
1	H	442	TYR

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Mol	Chain	Res	Type
1	H	467	SER
1	I	7	THR
1	I	40	ALA
1	I	143	SER
1	I	438	ALA
1	I	442	TYR
1	I	467	SER
1	J	7	THR
1	J	40	ALA
1	J	143	SER
1	J	438	ALA
1	J	442	TYR
1	K	7	THR
1	K	40	ALA
1	K	143	SER
1	K	438	ALA
1	K	442	TYR
1	K	467	SER
1	L	7	THR
1	L	40	ALA
1	L	143	SER
1	L	438	ALA
1	L	442	TYR
1	A	415	GLU
1	A	467	SER
1	C	415	GLU
1	C	467	SER
1	D	98	GLN
1	D	388	PRO
1	D	415	GLU
1	D	467	SER
1	E	65	MET
1	E	98	GLN
1	E	388	PRO
1	F	98	GLN
1	F	388	PRO
1	F	415	GLU
1	F	467	SER
1	G	98	GLN
1	G	388	PRO
1	G	415	GLU
1	G	467	SER

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Mol	Chain	Res	Type
1	H	98	GLN
1	H	388	PRO
1	H	415	GLU
1	I	98	GLN
1	I	348	VAL
1	I	388	PRO
1	J	98	GLN
1	J	388	PRO
1	J	415	GLU
1	J	467	SER
1	K	98	GLN
1	K	388	PRO
1	K	415	GLU
1	L	98	GLN
1	L	388	PRO
1	L	415	GLU
1	L	467	SER
1	B	20	ARG
1	B	65	MET
1	B	76	ILE
1	B	226	ASN
1	C	226	ASN
1	D	20	ARG
1	D	65	MET
1	D	76	ILE
1	D	226	ASN
1	D	348	VAL
1	E	20	ARG
1	E	76	ILE
1	E	226	ASN
1	E	348	VAL
1	E	415	GLU
1	F	20	ARG
1	F	65	MET
1	F	76	ILE
1	F	226	ASN
1	F	348	VAL
1	G	20	ARG
1	G	65	MET
1	G	76	ILE
1	G	226	ASN
1	G	348	VAL

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Mol	Chain	Res	Type
1	H	20	ARG
1	H	65	MET
1	H	76	ILE
1	H	226	ASN
1	H	348	VAL
1	I	20	ARG
1	I	65	MET
1	I	76	ILE
1	I	226	ASN
1	I	415	GLU
1	J	20	ARG
1	J	65	MET
1	J	76	ILE
1	J	226	ASN
1	J	348	VAL
1	K	20	ARG
1	K	65	MET
1	K	76	ILE
1	K	226	ASN
1	K	348	VAL
1	L	20	ARG
1	L	65	MET
1	L	76	ILE
1	L	226	ASN
1	L	348	VAL
1	A	433	VAL
1	C	433	VAL
1	D	433	VAL
1	E	433	VAL
1	F	433	VAL
1	G	433	VAL
1	H	433	VAL
1	I	433	VAL
1	J	433	VAL
1	K	433	VAL
1	L	433	VAL
1	D	301	VAL
1	J	301	VAL
1	L	301	VAL
1	E	301	VAL
1	F	301	VAL
1	G	301	VAL

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Mol	Chain	Res	Type
1	H	301	VAL
1	I	301	VAL
1	K	301	VAL

5.3.2 Protein sidechains (i)

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	384/385 (100%)	216 (56%)	168 (44%)	0	0
1	B	384/385 (100%)	216 (56%)	168 (44%)	0	0
1	C	384/385 (100%)	216 (56%)	168 (44%)	0	0
1	D	384/385 (100%)	216 (56%)	168 (44%)	0	0
1	E	384/385 (100%)	216 (56%)	168 (44%)	0	0
1	F	384/385 (100%)	216 (56%)	168 (44%)	0	0
1	G	283/385 (74%)	156 (55%)	127 (45%)	0	0
1	I	199/385 (52%)	123 (62%)	76 (38%)	0	1
1	J	384/385 (100%)	216 (56%)	168 (44%)	0	0
1	K	384/385 (100%)	216 (56%)	168 (44%)	0	0
1	L	384/385 (100%)	216 (56%)	168 (44%)	0	0
All	All	3938/4235 (93%)	2223 (56%)	1715 (44%)	0	0

All (1715) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	SER
1	A	3	GLU
1	A	5	VAL
1	A	6	LEU
1	A	7	THR
1	A	9	LEU
1	A	11	GLU
1	A	13	GLU

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Mol	Chain	Res	Type
1	A	14	VAL
1	A	15	LYS
1	A	18	ASP
1	A	19	LEU
1	A	20	ARG
1	A	21	PHE
1	A	24	THR
1	A	33	ILE
1	A	36	HIS
1	A	38	VAL
1	A	39	ASN
1	A	41	GLU
1	A	44	GLU
1	A	45	GLU
1	A	48	MET
1	A	49	PHE
1	A	54	ILE
1	A	57	TRP
1	A	58	LYS
1	A	60	ILE
1	A	63	SER
1	A	64	ASP
1	A	65	MET
1	A	67	LEU
1	A	68	MET
1	A	70	ASP
1	A	73	THR
1	A	76	ILE
1	A	77	ASP
1	A	82	ASP
1	A	83	SER
1	A	84	THR
1	A	85	LEU
1	A	86	ILE
1	A	87	ILE
1	A	90	ASP
1	A	91	ILE
1	A	92	LEU
1	A	93	GLU
1	A	97	LEU
1	A	100	TYR
1	A	104	PRO

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Mol	Chain	Res	Type
1	A	105	ARG
1	A	106	SER
1	A	109	LYS
1	A	110	ARG
1	A	113	ASP
1	A	114	TYR
1	A	115	LEU
1	A	118	THR
1	A	120	ILE
1	A	122	ASP
1	A	123	THR
1	A	125	LEU
1	A	129	GLU
1	A	131	GLU
1	A	135	PHE
1	A	138	ILE
1	A	145	SER
1	A	149	VAL
1	A	151	ILE
1	A	153	ASP
1	A	154	ILE
1	A	163	LYS
1	A	165	GLU
1	A	168	ASN
1	A	169	LYS
1	A	172	ARG
1	A	175	VAL
1	A	176	LYS
1	A	179	TYR
1	A	182	VAL
1	A	183	PRO
1	A	189	GLN
1	A	190	ASP
1	A	191	ILE
1	A	202	MET
1	A	204	LEU
1	A	209	HIS
1	A	212	GLU
1	A	213	VAL
1	A	215	THR
1	A	218	GLN
1	A	224	ARG

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Mol	Chain	Res	Type
1	A	226	ASN
1	A	228	MET
1	A	230	LYS
1	A	231	LYS
1	A	233	ASP
1	A	236	GLN
1	A	239	LYS
1	A	241	VAL
1	A	247	HIS
1	A	248	ARG
1	A	252	THR
1	A	260	MET
1	A	263	ASP
1	A	266	SER
1	A	270	CYS
1	A	272	MET
1	A	273	SER
1	A	274	LEU
1	A	276	LYS
1	A	280	ASN
1	A	281	LEU
1	A	286	LYS
1	A	301	VAL
1	A	308	ILE
1	A	311	LEU
1	A	317	ASN
1	A	322	LEU
1	A	323	VAL
1	A	326	TYR
1	A	327	GLU
1	A	329	PRO
1	A	339	ARG
1	A	343	ILE
1	A	344	ARG
1	A	345	ILE
1	A	347	VAL
1	A	348	VAL
1	A	350	SER
1	A	354	ARG
1	A	355	ARG
1	A	356	ILE
1	A	358	VAL

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Mol	Chain	Res	Type
1	A	359	ARG
1	A	366	ASN
1	A	374	LEU
1	A	375	LEU
1	A	379	LEU
1	A	380	ASP
1	A	382	ILE
1	A	383	LYS
1	A	384	ASN
1	A	385	LYS
1	A	386	ILE
1	A	392	MET
1	A	397	TYR
1	A	399	LEU
1	A	402	GLU
1	A	405	LYS
1	A	406	GLU
1	A	407	ILE
1	A	410	VAL
1	A	418	LEU
1	A	423	LEU
1	A	424	ASP
1	A	428	LEU
1	A	429	LYS
1	A	433	VAL
1	A	443	ILE
1	A	446	ARG
1	A	447	ARG
1	A	449	GLU
1	A	452	ARG
1	A	454	ARG
1	A	464	LEU
1	A	467	SER
1	A	468	VAL
1	B	1	SER
1	B	3	GLU
1	B	5	VAL
1	B	6	LEU
1	B	7	THR
1	B	9	LEU
1	B	11	GLU
1	B	13	GLU

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Mol	Chain	Res	Type
1	B	14	VAL
1	B	15	LYS
1	B	18	ASP
1	B	19	LEU
1	B	20	ARG
1	B	21	PHE
1	B	24	THR
1	B	33	ILE
1	B	36	HIS
1	B	38	VAL
1	B	39	ASN
1	B	41	GLU
1	B	44	GLU
1	B	45	GLU
1	B	48	MET
1	B	49	PHE
1	B	54	ILE
1	B	57	TRP
1	B	58	LYS
1	B	60	ILE
1	B	63	SER
1	B	64	ASP
1	B	65	MET
1	B	67	LEU
1	B	68	MET
1	B	70	ASP
1	B	73	THR
1	B	76	ILE
1	B	77	ASP
1	B	82	ASP
1	B	83	SER
1	B	84	THR
1	B	85	LEU
1	B	86	ILE
1	B	87	ILE
1	B	90	ASP
1	B	91	ILE
1	B	92	LEU
1	B	93	GLU
1	B	97	LEU
1	B	100	TYR
1	B	104	PRO

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Mol	Chain	Res	Type
1	B	105	ARG
1	B	106	SER
1	B	109	LYS
1	B	110	ARG
1	B	113	ASP
1	B	114	TYR
1	B	115	LEU
1	B	118	THR
1	B	120	ILE
1	B	122	ASP
1	B	123	THR
1	B	125	LEU
1	B	129	GLU
1	B	131	GLU
1	B	135	PHE
1	B	138	ILE
1	B	145	SER
1	B	149	VAL
1	B	151	ILE
1	B	153	ASP
1	B	154	ILE
1	B	163	LYS
1	B	165	GLU
1	B	168	ASN
1	B	169	LYS
1	B	172	ARG
1	B	175	VAL
1	B	176	LYS
1	B	179	TYR
1	B	182	VAL
1	B	183	PRO
1	B	189	GLN
1	B	190	ASP
1	B	191	ILE
1	B	202	MET
1	B	204	LEU
1	B	209	HIS
1	B	212	GLU
1	B	213	VAL
1	B	215	THR
1	B	218	GLN
1	B	224	ARG

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Mol	Chain	Res	Type
1	B	226	ASN
1	B	228	MET
1	B	230	LYS
1	B	231	LYS
1	B	233	ASP
1	B	236	GLN
1	B	239	LYS
1	B	241	VAL
1	B	247	HIS
1	B	248	ARG
1	B	252	THR
1	B	260	MET
1	B	263	ASP
1	B	266	SER
1	B	270	CYS
1	B	272	MET
1	B	273	SER
1	B	274	LEU
1	B	276	LYS
1	B	280	ASN
1	B	281	LEU
1	B	286	LYS
1	B	301	VAL
1	B	308	ILE
1	B	311	LEU
1	B	317	ASN
1	B	322	LEU
1	B	323	VAL
1	B	326	TYR
1	B	327	GLU
1	B	329	PRO
1	B	339	ARG
1	B	343	ILE
1	B	344	ARG
1	B	345	ILE
1	B	347	VAL
1	B	348	VAL
1	B	350	SER
1	B	354	ARG
1	B	355	ARG
1	B	356	ILE
1	B	358	VAL

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Mol	Chain	Res	Type
1	B	359	ARG
1	B	366	ASN
1	B	374	LEU
1	B	375	LEU
1	B	379	LEU
1	B	380	ASP
1	B	382	ILE
1	B	383	LYS
1	B	384	ASN
1	B	385	LYS
1	B	386	ILE
1	B	392	MET
1	B	397	TYR
1	B	399	LEU
1	B	402	GLU
1	B	405	LYS
1	B	406	GLU
1	B	407	ILE
1	B	410	VAL
1	B	418	LEU
1	B	423	LEU
1	B	424	ASP
1	B	428	LEU
1	B	429	LYS
1	B	433	VAL
1	B	443	ILE
1	B	446	ARG
1	B	447	ARG
1	B	449	GLU
1	B	452	ARG
1	B	454	ARG
1	B	464	LEU
1	B	467	SER
1	B	468	VAL
1	C	1	SER
1	C	3	GLU
1	C	5	VAL
1	C	6	LEU
1	C	7	THR
1	C	9	LEU
1	C	11	GLU
1	C	13	GLU

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Mol	Chain	Res	Type
1	C	14	VAL
1	C	15	LYS
1	C	18	ASP
1	C	19	LEU
1	C	20	ARG
1	C	21	PHE
1	C	24	THR
1	C	33	ILE
1	C	36	HIS
1	C	38	VAL
1	C	39	ASN
1	C	41	GLU
1	C	44	GLU
1	C	45	GLU
1	C	48	MET
1	C	49	PHE
1	C	54	ILE
1	C	57	TRP
1	C	58	LYS
1	C	60	ILE
1	C	63	SER
1	C	64	ASP
1	C	65	MET
1	C	67	LEU
1	C	68	MET
1	C	70	ASP
1	C	73	THR
1	C	76	ILE
1	C	77	ASP
1	C	82	ASP
1	C	83	SER
1	C	84	THR
1	C	85	LEU
1	C	86	ILE
1	C	87	ILE
1	C	90	ASP
1	C	91	ILE
1	C	92	LEU
1	C	93	GLU
1	C	97	LEU
1	C	100	TYR
1	C	104	PRO

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Mol	Chain	Res	Type
1	C	105	ARG
1	C	106	SER
1	C	109	LYS
1	C	110	ARG
1	C	113	ASP
1	C	114	TYR
1	C	115	LEU
1	C	118	THR
1	C	120	ILE
1	C	122	ASP
1	C	123	THR
1	C	125	LEU
1	C	129	GLU
1	C	131	GLU
1	C	135	PHE
1	C	138	ILE
1	C	145	SER
1	C	149	VAL
1	C	151	ILE
1	C	153	ASP
1	C	154	ILE
1	C	163	LYS
1	C	165	GLU
1	C	168	ASN
1	C	169	LYS
1	C	172	ARG
1	C	175	VAL
1	C	176	LYS
1	C	179	TYR
1	C	182	VAL
1	C	183	PRO
1	C	189	GLN
1	C	190	ASP
1	C	191	ILE
1	C	202	MET
1	C	204	LEU
1	C	209	HIS
1	C	212	GLU
1	C	213	VAL
1	C	215	THR
1	C	218	GLN
1	C	224	ARG

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Mol	Chain	Res	Type
1	C	226	ASN
1	C	228	MET
1	C	230	LYS
1	C	231	LYS
1	C	233	ASP
1	C	236	GLN
1	C	239	LYS
1	C	241	VAL
1	C	247	HIS
1	C	248	ARG
1	C	252	THR
1	C	260	MET
1	C	263	ASP
1	C	266	SER
1	C	270	CYS
1	C	272	MET
1	C	273	SER
1	C	274	LEU
1	C	276	LYS
1	C	280	ASN
1	C	281	LEU
1	C	286	LYS
1	C	301	VAL
1	C	308	ILE
1	C	311	LEU
1	C	317	ASN
1	C	322	LEU
1	C	323	VAL
1	C	326	TYR
1	C	327	GLU
1	C	329	PRO
1	C	339	ARG
1	C	343	ILE
1	C	344	ARG
1	C	345	ILE
1	C	347	VAL
1	C	348	VAL
1	C	350	SER
1	C	354	ARG
1	C	355	ARG
1	C	356	ILE
1	C	358	VAL

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Mol	Chain	Res	Type
1	C	359	ARG
1	C	366	ASN
1	C	374	LEU
1	C	375	LEU
1	C	379	LEU
1	C	380	ASP
1	C	382	ILE
1	C	383	LYS
1	C	384	ASN
1	C	385	LYS
1	C	386	ILE
1	C	392	MET
1	C	397	TYR
1	C	399	LEU
1	C	402	GLU
1	C	405	LYS
1	C	406	GLU
1	C	407	ILE
1	C	410	VAL
1	C	418	LEU
1	C	423	LEU
1	C	424	ASP
1	C	428	LEU
1	C	429	LYS
1	C	433	VAL
1	C	443	ILE
1	C	446	ARG
1	C	447	ARG
1	C	449	GLU
1	C	452	ARG
1	C	454	ARG
1	C	464	LEU
1	C	467	SER
1	C	468	VAL
1	D	1	SER
1	D	3	GLU
1	D	5	VAL
1	D	6	LEU
1	D	7	THR
1	D	9	LEU
1	D	11	GLU
1	D	13	GLU

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Mol	Chain	Res	Type
1	D	14	VAL
1	D	15	LYS
1	D	18	ASP
1	D	19	LEU
1	D	20	ARG
1	D	21	PHE
1	D	24	THR
1	D	33	ILE
1	D	36	HIS
1	D	38	VAL
1	D	39	ASN
1	D	41	GLU
1	D	44	GLU
1	D	45	GLU
1	D	48	MET
1	D	49	PHE
1	D	54	ILE
1	D	57	TRP
1	D	58	LYS
1	D	60	ILE
1	D	63	SER
1	D	64	ASP
1	D	65	MET
1	D	67	LEU
1	D	68	MET
1	D	70	ASP
1	D	73	THR
1	D	76	ILE
1	D	77	ASP
1	D	82	ASP
1	D	83	SER
1	D	84	THR
1	D	85	LEU
1	D	86	ILE
1	D	87	ILE
1	D	90	ASP
1	D	91	ILE
1	D	92	LEU
1	D	93	GLU
1	D	97	LEU
1	D	100	TYR
1	D	104	PRO

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Mol	Chain	Res	Type
1	D	105	ARG
1	D	106	SER
1	D	109	LYS
1	D	110	ARG
1	D	113	ASP
1	D	114	TYR
1	D	115	LEU
1	D	118	THR
1	D	120	ILE
1	D	122	ASP
1	D	123	THR
1	D	125	LEU
1	D	129	GLU
1	D	131	GLU
1	D	135	PHE
1	D	138	ILE
1	D	145	SER
1	D	149	VAL
1	D	151	ILE
1	D	153	ASP
1	D	154	ILE
1	D	163	LYS
1	D	165	GLU
1	D	168	ASN
1	D	169	LYS
1	D	172	ARG
1	D	175	VAL
1	D	176	LYS
1	D	179	TYR
1	D	182	VAL
1	D	183	PRO
1	D	189	GLN
1	D	190	ASP
1	D	191	ILE
1	D	202	MET
1	D	204	LEU
1	D	209	HIS
1	D	212	GLU
1	D	213	VAL
1	D	215	THR
1	D	218	GLN
1	D	224	ARG

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Mol	Chain	Res	Type
1	D	226	ASN
1	D	228	MET
1	D	230	LYS
1	D	231	LYS
1	D	233	ASP
1	D	236	GLN
1	D	239	LYS
1	D	241	VAL
1	D	247	HIS
1	D	248	ARG
1	D	252	THR
1	D	260	MET
1	D	263	ASP
1	D	266	SER
1	D	270	CYS
1	D	272	MET
1	D	273	SER
1	D	274	LEU
1	D	276	LYS
1	D	280	ASN
1	D	281	LEU
1	D	286	LYS
1	D	301	VAL
1	D	308	ILE
1	D	311	LEU
1	D	317	ASN
1	D	322	LEU
1	D	323	VAL
1	D	326	TYR
1	D	327	GLU
1	D	329	PRO
1	D	339	ARG
1	D	343	ILE
1	D	344	ARG
1	D	345	ILE
1	D	347	VAL
1	D	348	VAL
1	D	350	SER
1	D	354	ARG
1	D	355	ARG
1	D	356	ILE
1	D	358	VAL

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Mol	Chain	Res	Type
1	D	359	ARG
1	D	366	ASN
1	D	374	LEU
1	D	375	LEU
1	D	379	LEU
1	D	380	ASP
1	D	382	ILE
1	D	383	LYS
1	D	384	ASN
1	D	385	LYS
1	D	386	ILE
1	D	392	MET
1	D	397	TYR
1	D	399	LEU
1	D	402	GLU
1	D	405	LYS
1	D	406	GLU
1	D	407	ILE
1	D	410	VAL
1	D	418	LEU
1	D	423	LEU
1	D	424	ASP
1	D	428	LEU
1	D	429	LYS
1	D	433	VAL
1	D	443	ILE
1	D	446	ARG
1	D	447	ARG
1	D	449	GLU
1	D	452	ARG
1	D	454	ARG
1	D	464	LEU
1	D	467	SER
1	D	468	VAL
1	E	1	SER
1	E	3	GLU
1	E	5	VAL
1	E	6	LEU
1	E	7	THR
1	E	9	LEU
1	E	11	GLU
1	E	13	GLU

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Mol	Chain	Res	Type
1	E	14	VAL
1	E	15	LYS
1	E	18	ASP
1	E	19	LEU
1	E	20	ARG
1	E	21	PHE
1	E	24	THR
1	E	33	ILE
1	E	36	HIS
1	E	38	VAL
1	E	39	ASN
1	E	41	GLU
1	E	44	GLU
1	E	45	GLU
1	E	48	MET
1	E	49	PHE
1	E	54	ILE
1	E	57	TRP
1	E	58	LYS
1	E	60	ILE
1	E	63	SER
1	E	64	ASP
1	E	65	MET
1	E	67	LEU
1	E	68	MET
1	E	70	ASP
1	E	73	THR
1	E	76	ILE
1	E	77	ASP
1	E	82	ASP
1	E	83	SER
1	E	84	THR
1	E	85	LEU
1	E	86	ILE
1	E	87	ILE
1	E	90	ASP
1	E	91	ILE
1	E	92	LEU
1	E	93	GLU
1	E	97	LEU
1	E	100	TYR
1	E	104	PRO

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Mol	Chain	Res	Type
1	E	105	ARG
1	E	106	SER
1	E	109	LYS
1	E	110	ARG
1	E	113	ASP
1	E	114	TYR
1	E	115	LEU
1	E	118	THR
1	E	120	ILE
1	E	122	ASP
1	E	123	THR
1	E	125	LEU
1	E	129	GLU
1	E	131	GLU
1	E	135	PHE
1	E	138	ILE
1	E	145	SER
1	E	149	VAL
1	E	151	ILE
1	E	153	ASP
1	E	154	ILE
1	E	163	LYS
1	E	165	GLU
1	E	168	ASN
1	E	169	LYS
1	E	172	ARG
1	E	175	VAL
1	E	176	LYS
1	E	179	TYR
1	E	182	VAL
1	E	183	PRO
1	E	189	GLN
1	E	190	ASP
1	E	191	ILE
1	E	202	MET
1	E	204	LEU
1	E	209	HIS
1	E	212	GLU
1	E	213	VAL
1	E	215	THR
1	E	218	GLN
1	E	224	ARG

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Mol	Chain	Res	Type
1	E	226	ASN
1	E	228	MET
1	E	230	LYS
1	E	231	LYS
1	E	233	ASP
1	E	236	GLN
1	E	239	LYS
1	E	241	VAL
1	E	247	HIS
1	E	248	ARG
1	E	252	THR
1	E	260	MET
1	E	263	ASP
1	E	266	SER
1	E	270	CYS
1	E	272	MET
1	E	273	SER
1	E	274	LEU
1	E	276	LYS
1	E	280	ASN
1	E	281	LEU
1	E	286	LYS
1	E	301	VAL
1	E	308	ILE
1	E	311	LEU
1	E	317	ASN
1	E	322	LEU
1	E	323	VAL
1	E	326	TYR
1	E	327	GLU
1	E	329	PRO
1	E	339	ARG
1	E	343	ILE
1	E	344	ARG
1	E	345	ILE
1	E	347	VAL
1	E	348	VAL
1	E	350	SER
1	E	354	ARG
1	E	355	ARG
1	E	356	ILE
1	E	358	VAL

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Mol	Chain	Res	Type
1	E	359	ARG
1	E	366	ASN
1	E	374	LEU
1	E	375	LEU
1	E	379	LEU
1	E	380	ASP
1	E	382	ILE
1	E	383	LYS
1	E	384	ASN
1	E	385	LYS
1	E	386	ILE
1	E	392	MET
1	E	397	TYR
1	E	399	LEU
1	E	402	GLU
1	E	405	LYS
1	E	406	GLU
1	E	407	ILE
1	E	410	VAL
1	E	418	LEU
1	E	423	LEU
1	E	424	ASP
1	E	428	LEU
1	E	429	LYS
1	E	433	VAL
1	E	443	ILE
1	E	446	ARG
1	E	447	ARG
1	E	449	GLU
1	E	452	ARG
1	E	454	ARG
1	E	464	LEU
1	E	467	SER
1	E	468	VAL
1	F	1	SER
1	F	3	GLU
1	F	5	VAL
1	F	6	LEU
1	F	7	THR
1	F	9	LEU
1	F	11	GLU
1	F	13	GLU

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Mol	Chain	Res	Type
1	F	14	VAL
1	F	15	LYS
1	F	18	ASP
1	F	19	LEU
1	F	20	ARG
1	F	21	PHE
1	F	24	THR
1	F	33	ILE
1	F	36	HIS
1	F	38	VAL
1	F	39	ASN
1	F	41	GLU
1	F	44	GLU
1	F	45	GLU
1	F	48	MET
1	F	49	PHE
1	F	54	ILE
1	F	57	TRP
1	F	58	LYS
1	F	60	ILE
1	F	63	SER
1	F	64	ASP
1	F	65	MET
1	F	67	LEU
1	F	68	MET
1	F	70	ASP
1	F	73	THR
1	F	76	ILE
1	F	77	ASP
1	F	82	ASP
1	F	83	SER
1	F	84	THR
1	F	85	LEU
1	F	86	ILE
1	F	87	ILE
1	F	90	ASP
1	F	91	ILE
1	F	92	LEU
1	F	93	GLU
1	F	97	LEU
1	F	100	TYR
1	F	104	PRO

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Mol	Chain	Res	Type
1	F	105	ARG
1	F	106	SER
1	F	109	LYS
1	F	110	ARG
1	F	113	ASP
1	F	114	TYR
1	F	115	LEU
1	F	118	THR
1	F	120	ILE
1	F	122	ASP
1	F	123	THR
1	F	125	LEU
1	F	129	GLU
1	F	131	GLU
1	F	135	PHE
1	F	138	ILE
1	F	145	SER
1	F	149	VAL
1	F	151	ILE
1	F	153	ASP
1	F	154	ILE
1	F	163	LYS
1	F	165	GLU
1	F	168	ASN
1	F	169	LYS
1	F	172	ARG
1	F	175	VAL
1	F	176	LYS
1	F	179	TYR
1	F	182	VAL
1	F	183	PRO
1	F	189	GLN
1	F	190	ASP
1	F	191	ILE
1	F	202	MET
1	F	204	LEU
1	F	209	HIS
1	F	212	GLU
1	F	213	VAL
1	F	215	THR
1	F	218	GLN
1	F	224	ARG

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Mol	Chain	Res	Type
1	F	226	ASN
1	F	228	MET
1	F	230	LYS
1	F	231	LYS
1	F	233	ASP
1	F	236	GLN
1	F	239	LYS
1	F	241	VAL
1	F	247	HIS
1	F	248	ARG
1	F	252	THR
1	F	260	MET
1	F	263	ASP
1	F	266	SER
1	F	270	CYS
1	F	272	MET
1	F	273	SER
1	F	274	LEU
1	F	276	LYS
1	F	280	ASN
1	F	281	LEU
1	F	286	LYS
1	F	301	VAL
1	F	308	ILE
1	F	311	LEU
1	F	317	ASN
1	F	322	LEU
1	F	323	VAL
1	F	326	TYR
1	F	327	GLU
1	F	329	PRO
1	F	339	ARG
1	F	343	ILE
1	F	344	ARG
1	F	345	ILE
1	F	347	VAL
1	F	348	VAL
1	F	350	SER
1	F	354	ARG
1	F	355	ARG
1	F	356	ILE
1	F	358	VAL

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Mol	Chain	Res	Type
1	F	359	ARG
1	F	366	ASN
1	F	374	LEU
1	F	375	LEU
1	F	379	LEU
1	F	380	ASP
1	F	382	ILE
1	F	383	LYS
1	F	384	ASN
1	F	385	LYS
1	F	386	ILE
1	F	392	MET
1	F	397	TYR
1	F	399	LEU
1	F	402	GLU
1	F	405	LYS
1	F	406	GLU
1	F	407	ILE
1	F	410	VAL
1	F	418	LEU
1	F	423	LEU
1	F	424	ASP
1	F	428	LEU
1	F	429	LYS
1	F	433	VAL
1	F	443	ILE
1	F	446	ARG
1	F	447	ARG
1	F	449	GLU
1	F	452	ARG
1	F	454	ARG
1	F	464	LEU
1	F	467	SER
1	F	468	VAL
1	G	1	SER
1	G	3	GLU
1	G	5	VAL
1	G	6	LEU
1	G	7	THR
1	G	9	LEU
1	G	11	GLU
1	G	13	GLU

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Mol	Chain	Res	Type
1	G	14	VAL
1	G	15	LYS
1	G	18	ASP
1	G	19	LEU
1	G	20	ARG
1	G	21	PHE
1	G	24	THR
1	G	33	ILE
1	G	36	HIS
1	G	38	VAL
1	G	39	ASN
1	G	41	GLU
1	G	44	GLU
1	G	45	GLU
1	G	48	MET
1	G	49	PHE
1	G	54	ILE
1	G	57	TRP
1	G	58	LYS
1	G	60	ILE
1	G	63	SER
1	G	64	ASP
1	G	65	MET
1	G	67	LEU
1	G	68	MET
1	G	70	ASP
1	G	73	THR
1	G	76	ILE
1	G	77	ASP
1	G	82	ASP
1	G	83	SER
1	G	84	THR
1	G	85	LEU
1	G	86	ILE
1	G	87	ILE
1	G	90	ASP
1	G	91	ILE
1	G	92	LEU
1	G	93	GLU
1	G	97	LEU
1	G	100	TYR
1	G	104	PRO

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Mol	Chain	Res	Type
1	G	105	ARG
1	G	106	SER
1	G	109	LYS
1	G	110	ARG
1	G	113	ASP
1	G	114	TYR
1	G	115	LEU
1	G	118	THR
1	G	120	ILE
1	G	122	ASP
1	G	123	THR
1	G	125	LEU
1	G	129	GLU
1	G	131	GLU
1	G	135	PHE
1	G	138	ILE
1	G	145	SER
1	G	149	VAL
1	G	151	ILE
1	G	153	ASP
1	G	154	ILE
1	G	163	LYS
1	G	165	GLU
1	G	168	ASN
1	G	169	LYS
1	G	172	ARG
1	G	175	VAL
1	G	176	LYS
1	G	179	TYR
1	G	182	VAL
1	G	183	PRO
1	G	189	GLN
1	G	190	ASP
1	G	191	ILE
1	G	202	MET
1	G	204	LEU
1	G	209	HIS
1	G	212	GLU
1	G	213	VAL
1	G	215	THR
1	G	218	GLN
1	G	224	ARG

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Mol	Chain	Res	Type
1	G	226	ASN
1	G	228	MET
1	G	230	LYS
1	G	231	LYS
1	G	233	ASP
1	G	236	GLN
1	G	239	LYS
1	G	241	VAL
1	G	247	HIS
1	G	248	ARG
1	G	252	THR
1	G	260	MET
1	G	263	ASP
1	G	266	SER
1	G	270	CYS
1	G	272	MET
1	G	273	SER
1	G	274	LEU
1	G	276	LYS
1	G	280	ASN
1	G	281	LEU
1	G	286	LYS
1	G	301	VAL
1	G	308	ILE
1	G	311	LEU
1	G	317	ASN
1	G	322	LEU
1	G	323	VAL
1	G	326	TYR
1	G	327	GLU
1	G	329	PRO
1	G	339	ARG
1	G	343	ILE
1	G	344	ARG
1	G	345	ILE
1	I	226	ASN
1	I	228	MET
1	I	230	LYS
1	I	231	LYS
1	I	233	ASP
1	I	236	GLN
1	I	239	LYS

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Mol	Chain	Res	Type
1	I	241	VAL
1	I	247	HIS
1	I	248	ARG
1	I	252	THR
1	I	260	MET
1	I	263	ASP
1	I	266	SER
1	I	270	CYS
1	I	272	MET
1	I	273	SER
1	I	274	LEU
1	I	276	LYS
1	I	280	ASN
1	I	281	LEU
1	I	286	LYS
1	I	301	VAL
1	I	308	ILE
1	I	311	LEU
1	I	317	ASN
1	I	322	LEU
1	I	323	VAL
1	I	326	TYR
1	I	327	GLU
1	I	329	PRO
1	I	339	ARG
1	I	343	ILE
1	I	344	ARG
1	I	345	ILE
1	I	347	VAL
1	I	348	VAL
1	I	350	SER
1	I	354	ARG
1	I	355	ARG
1	I	356	ILE
1	I	358	VAL
1	I	359	ARG
1	I	366	ASN
1	I	374	LEU
1	I	375	LEU
1	I	379	LEU
1	I	380	ASP
1	I	382	ILE

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Mol	Chain	Res	Type
1	I	383	LYS
1	I	384	ASN
1	I	385	LYS
1	I	386	ILE
1	I	392	MET
1	I	397	TYR
1	I	399	LEU
1	I	402	GLU
1	I	405	LYS
1	I	406	GLU
1	I	407	ILE
1	I	410	VAL
1	I	418	LEU
1	I	423	LEU
1	I	424	ASP
1	I	428	LEU
1	I	429	LYS
1	I	433	VAL
1	I	443	ILE
1	I	446	ARG
1	I	447	ARG
1	I	449	GLU
1	I	452	ARG
1	I	454	ARG
1	I	464	LEU
1	I	467	SER
1	I	468	VAL
1	J	1	SER
1	J	3	GLU
1	J	5	VAL
1	J	6	LEU
1	J	7	THR
1	J	9	LEU
1	J	11	GLU
1	J	13	GLU
1	J	14	VAL
1	J	15	LYS
1	J	18	ASP
1	J	19	LEU
1	J	20	ARG
1	J	21	PHE
1	J	24	THR

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Mol	Chain	Res	Type
1	J	33	ILE
1	J	36	HIS
1	J	38	VAL
1	J	39	ASN
1	J	41	GLU
1	J	44	GLU
1	J	45	GLU
1	J	48	MET
1	J	49	PHE
1	J	54	ILE
1	J	57	TRP
1	J	58	LYS
1	J	60	ILE
1	J	63	SER
1	J	64	ASP
1	J	65	MET
1	J	67	LEU
1	J	68	MET
1	J	70	ASP
1	J	73	THR
1	J	76	ILE
1	J	77	ASP
1	J	82	ASP
1	J	83	SER
1	J	84	THR
1	J	85	LEU
1	J	86	ILE
1	J	87	ILE
1	J	90	ASP
1	J	91	ILE
1	J	92	LEU
1	J	93	GLU
1	J	97	LEU
1	J	100	TYR
1	J	104	PRO
1	J	105	ARG
1	J	106	SER
1	J	109	LYS
1	J	110	ARG
1	J	113	ASP
1	J	114	TYR
1	J	115	LEU

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Mol	Chain	Res	Type
1	J	118	THR
1	J	120	ILE
1	J	122	ASP
1	J	123	THR
1	J	125	LEU
1	J	129	GLU
1	J	131	GLU
1	J	135	PHE
1	J	138	ILE
1	J	145	SER
1	J	149	VAL
1	J	151	ILE
1	J	153	ASP
1	J	154	ILE
1	J	163	LYS
1	J	165	GLU
1	J	168	ASN
1	J	169	LYS
1	J	172	ARG
1	J	175	VAL
1	J	176	LYS
1	J	179	TYR
1	J	182	VAL
1	J	183	PRO
1	J	189	GLN
1	J	190	ASP
1	J	191	ILE
1	J	202	MET
1	J	204	LEU
1	J	209	HIS
1	J	212	GLU
1	J	213	VAL
1	J	215	THR
1	J	218	GLN
1	J	224	ARG
1	J	226	ASN
1	J	228	MET
1	J	230	LYS
1	J	231	LYS
1	J	233	ASP
1	J	236	GLN
1	J	239	LYS

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Mol	Chain	Res	Type
1	J	241	VAL
1	J	247	HIS
1	J	248	ARG
1	J	252	THR
1	J	260	MET
1	J	263	ASP
1	J	266	SER
1	J	270	CYS
1	J	272	MET
1	J	273	SER
1	J	274	LEU
1	J	276	LYS
1	J	280	ASN
1	J	281	LEU
1	J	286	LYS
1	J	301	VAL
1	J	308	ILE
1	J	311	LEU
1	J	317	ASN
1	J	322	LEU
1	J	323	VAL
1	J	326	TYR
1	J	327	GLU
1	J	329	PRO
1	J	339	ARG
1	J	343	ILE
1	J	344	ARG
1	J	345	ILE
1	J	347	VAL
1	J	348	VAL
1	J	350	SER
1	J	354	ARG
1	J	355	ARG
1	J	356	ILE
1	J	358	VAL
1	J	359	ARG
1	J	366	ASN
1	J	374	LEU
1	J	375	LEU
1	J	379	LEU
1	J	380	ASP
1	J	382	ILE

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Mol	Chain	Res	Type
1	J	383	LYS
1	J	384	ASN
1	J	385	LYS
1	J	386	ILE
1	J	392	MET
1	J	397	TYR
1	J	399	LEU
1	J	402	GLU
1	J	405	LYS
1	J	406	GLU
1	J	407	ILE
1	J	410	VAL
1	J	418	LEU
1	J	423	LEU
1	J	424	ASP
1	J	428	LEU
1	J	429	LYS
1	J	433	VAL
1	J	443	ILE
1	J	446	ARG
1	J	447	ARG
1	J	449	GLU
1	J	452	ARG
1	J	454	ARG
1	J	464	LEU
1	J	467	SER
1	J	468	VAL
1	K	1	SER
1	K	3	GLU
1	K	5	VAL
1	K	6	LEU
1	K	7	THR
1	K	9	LEU
1	K	11	GLU
1	K	13	GLU
1	K	14	VAL
1	K	15	LYS
1	K	18	ASP
1	K	19	LEU
1	K	20	ARG
1	K	21	PHE
1	K	24	THR

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Mol	Chain	Res	Type
1	K	33	ILE
1	K	36	HIS
1	K	38	VAL
1	K	39	ASN
1	K	41	GLU
1	K	44	GLU
1	K	45	GLU
1	K	48	MET
1	K	49	PHE
1	K	54	ILE
1	K	57	TRP
1	K	58	LYS
1	K	60	ILE
1	K	63	SER
1	K	64	ASP
1	K	65	MET
1	K	67	LEU
1	K	68	MET
1	K	70	ASP
1	K	73	THR
1	K	76	ILE
1	K	77	ASP
1	K	82	ASP
1	K	83	SER
1	K	84	THR
1	K	85	LEU
1	K	86	ILE
1	K	87	ILE
1	K	90	ASP
1	K	91	ILE
1	K	92	LEU
1	K	93	GLU
1	K	97	LEU
1	K	100	TYR
1	K	104	PRO
1	K	105	ARG
1	K	106	SER
1	K	109	LYS
1	K	110	ARG
1	K	113	ASP
1	K	114	TYR
1	K	115	LEU

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Mol	Chain	Res	Type
1	K	118	THR
1	K	120	ILE
1	K	122	ASP
1	K	123	THR
1	K	125	LEU
1	K	129	GLU
1	K	131	GLU
1	K	135	PHE
1	K	138	ILE
1	K	145	SER
1	K	149	VAL
1	K	151	ILE
1	K	153	ASP
1	K	154	ILE
1	K	163	LYS
1	K	165	GLU
1	K	168	ASN
1	K	169	LYS
1	K	172	ARG
1	K	175	VAL
1	K	176	LYS
1	K	179	TYR
1	K	182	VAL
1	K	183	PRO
1	K	189	GLN
1	K	190	ASP
1	K	191	ILE
1	K	202	MET
1	K	204	LEU
1	K	209	HIS
1	K	212	GLU
1	K	213	VAL
1	K	215	THR
1	K	218	GLN
1	K	224	ARG
1	K	226	ASN
1	K	228	MET
1	K	230	LYS
1	K	231	LYS
1	K	233	ASP
1	K	236	GLN
1	K	239	LYS

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Mol	Chain	Res	Type
1	K	241	VAL
1	K	247	HIS
1	K	248	ARG
1	K	252	THR
1	K	260	MET
1	K	263	ASP
1	K	266	SER
1	K	270	CYS
1	K	272	MET
1	K	273	SER
1	K	274	LEU
1	K	276	LYS
1	K	280	ASN
1	K	281	LEU
1	K	286	LYS
1	K	301	VAL
1	K	308	ILE
1	K	311	LEU
1	K	317	ASN
1	K	322	LEU
1	K	323	VAL
1	K	326	TYR
1	K	327	GLU
1	K	329	PRO
1	K	339	ARG
1	K	343	ILE
1	K	344	ARG
1	K	345	ILE
1	K	347	VAL
1	K	348	VAL
1	K	350	SER
1	K	354	ARG
1	K	355	ARG
1	K	356	ILE
1	K	358	VAL
1	K	359	ARG
1	K	366	ASN
1	K	374	LEU
1	K	375	LEU
1	K	379	LEU
1	K	380	ASP
1	K	382	ILE

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Mol	Chain	Res	Type
1	K	383	LYS
1	K	384	ASN
1	K	385	LYS
1	K	386	ILE
1	K	392	MET
1	K	397	TYR
1	K	399	LEU
1	K	402	GLU
1	K	405	LYS
1	K	406	GLU
1	K	407	ILE
1	K	410	VAL
1	K	418	LEU
1	K	423	LEU
1	K	424	ASP
1	K	428	LEU
1	K	429	LYS
1	K	433	VAL
1	K	443	ILE
1	K	446	ARG
1	K	447	ARG
1	K	449	GLU
1	K	452	ARG
1	K	454	ARG
1	K	464	LEU
1	K	467	SER
1	K	468	VAL
1	L	1	SER
1	L	3	GLU
1	L	5	VAL
1	L	6	LEU
1	L	7	THR
1	L	9	LEU
1	L	11	GLU
1	L	13	GLU
1	L	14	VAL
1	L	15	LYS
1	L	18	ASP
1	L	19	LEU
1	L	20	ARG
1	L	21	PHE
1	L	24	THR

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Mol	Chain	Res	Type
1	L	33	ILE
1	L	36	HIS
1	L	38	VAL
1	L	39	ASN
1	L	41	GLU
1	L	44	GLU
1	L	45	GLU
1	L	48	MET
1	L	49	PHE
1	L	54	ILE
1	L	57	TRP
1	L	58	LYS
1	L	60	ILE
1	L	63	SER
1	L	64	ASP
1	L	65	MET
1	L	67	LEU
1	L	68	MET
1	L	70	ASP
1	L	73	THR
1	L	76	ILE
1	L	77	ASP
1	L	82	ASP
1	L	83	SER
1	L	84	THR
1	L	85	LEU
1	L	86	ILE
1	L	87	ILE
1	L	90	ASP
1	L	91	ILE
1	L	92	LEU
1	L	93	GLU
1	L	97	LEU
1	L	100	TYR
1	L	104	PRO
1	L	105	ARG
1	L	106	SER
1	L	109	LYS
1	L	110	ARG
1	L	113	ASP
1	L	114	TYR
1	L	115	LEU

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Mol	Chain	Res	Type
1	L	118	THR
1	L	120	ILE
1	L	122	ASP
1	L	123	THR
1	L	125	LEU
1	L	129	GLU
1	L	131	GLU
1	L	135	PHE
1	L	138	ILE
1	L	145	SER
1	L	149	VAL
1	L	151	ILE
1	L	153	ASP
1	L	154	ILE
1	L	163	LYS
1	L	165	GLU
1	L	168	ASN
1	L	169	LYS
1	L	172	ARG
1	L	175	VAL
1	L	176	LYS
1	L	179	TYR
1	L	182	VAL
1	L	183	PRO
1	L	189	GLN
1	L	190	ASP
1	L	191	ILE
1	L	202	MET
1	L	204	LEU
1	L	209	HIS
1	L	212	GLU
1	L	213	VAL
1	L	215	THR
1	L	218	GLN
1	L	224	ARG
1	L	226	ASN
1	L	228	MET
1	L	230	LYS
1	L	231	LYS
1	L	233	ASP
1	L	236	GLN
1	L	239	LYS

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Mol	Chain	Res	Type
1	L	241	VAL
1	L	247	HIS
1	L	248	ARG
1	L	252	THR
1	L	260	MET
1	L	263	ASP
1	L	266	SER
1	L	270	CYS
1	L	272	MET
1	L	273	SER
1	L	274	LEU
1	L	276	LYS
1	L	280	ASN
1	L	281	LEU
1	L	286	LYS
1	L	301	VAL
1	L	308	ILE
1	L	311	LEU
1	L	317	ASN
1	L	322	LEU
1	L	323	VAL
1	L	326	TYR
1	L	327	GLU
1	L	329	PRO
1	L	339	ARG
1	L	343	ILE
1	L	344	ARG
1	L	345	ILE
1	L	347	VAL
1	L	348	VAL
1	L	350	SER
1	L	354	ARG
1	L	355	ARG
1	L	356	ILE
1	L	358	VAL
1	L	359	ARG
1	L	366	ASN
1	L	374	LEU
1	L	375	LEU
1	L	379	LEU
1	L	380	ASP
1	L	382	ILE

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Mol	Chain	Res	Type
1	L	383	LYS
1	L	384	ASN
1	L	385	LYS
1	L	386	ILE
1	L	392	MET
1	L	397	TYR
1	L	399	LEU
1	L	402	GLU
1	L	405	LYS
1	L	406	GLU
1	L	407	ILE
1	L	410	VAL
1	L	418	LEU
1	L	423	LEU
1	L	424	ASP
1	L	428	LEU
1	L	429	LYS
1	L	433	VAL
1	L	443	ILE
1	L	446	ARG
1	L	447	ARG
1	L	449	GLU
1	L	452	ARG
1	L	454	ARG
1	L	464	LEU
1	L	467	SER
1	L	468	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (142) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	12	HIS
1	A	39	ASN
1	A	61	ASN
1	A	148	HIS
1	A	159	ASN
1	A	168	ASN
1	A	189	GLN
1	A	280	ASN
1	A	293	GLN
1	A	313	ASN
1	A	317	ASN

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Mol	Chain	Res	Type
1	A	338	ASN
1	A	387	HIS
1	A	458	HIS
1	B	12	HIS
1	B	39	ASN
1	B	61	ASN
1	B	148	HIS
1	B	159	ASN
1	B	168	ASN
1	B	189	GLN
1	B	280	ASN
1	B	293	GLN
1	B	313	ASN
1	B	317	ASN
1	B	338	ASN
1	B	387	HIS
1	B	458	HIS
1	C	12	HIS
1	C	39	ASN
1	C	61	ASN
1	C	148	HIS
1	C	159	ASN
1	C	168	ASN
1	C	189	GLN
1	C	280	ASN
1	C	293	GLN
1	C	313	ASN
1	C	317	ASN
1	C	338	ASN
1	C	387	HIS
1	C	458	HIS
1	D	12	HIS
1	D	39	ASN
1	D	61	ASN
1	D	148	HIS
1	D	159	ASN
1	D	168	ASN
1	D	280	ASN
1	D	293	GLN
1	D	313	ASN
1	D	317	ASN
1	D	338	ASN

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Mol	Chain	Res	Type
1	D	387	HIS
1	D	458	HIS
1	E	12	HIS
1	E	39	ASN
1	E	61	ASN
1	E	148	HIS
1	E	159	ASN
1	E	168	ASN
1	E	280	ASN
1	E	293	GLN
1	E	313	ASN
1	E	317	ASN
1	E	338	ASN
1	E	387	HIS
1	E	458	HIS
1	F	12	HIS
1	F	39	ASN
1	F	61	ASN
1	F	148	HIS
1	F	159	ASN
1	F	168	ASN
1	F	189	GLN
1	F	280	ASN
1	F	293	GLN
1	F	313	ASN
1	F	317	ASN
1	F	338	ASN
1	F	387	HIS
1	F	458	HIS
1	G	12	HIS
1	G	39	ASN
1	G	61	ASN
1	G	148	HIS
1	G	159	ASN
1	G	168	ASN
1	G	189	GLN
1	G	280	ASN
1	G	293	GLN
1	G	313	ASN
1	G	317	ASN
1	G	338	ASN
1	I	280	ASN

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Mol	Chain	Res	Type
1	I	293	GLN
1	I	313	ASN
1	I	317	ASN
1	I	338	ASN
1	I	387	HIS
1	I	458	HIS
1	J	12	HIS
1	J	39	ASN
1	J	61	ASN
1	J	148	HIS
1	J	159	ASN
1	J	168	ASN
1	J	280	ASN
1	J	293	GLN
1	J	313	ASN
1	J	317	ASN
1	J	338	ASN
1	J	387	HIS
1	J	458	HIS
1	K	12	HIS
1	K	39	ASN
1	K	61	ASN
1	K	148	HIS
1	K	159	ASN
1	K	168	ASN
1	K	189	GLN
1	K	280	ASN
1	K	293	GLN
1	K	313	ASN
1	K	317	ASN
1	K	338	ASN
1	K	387	HIS
1	K	458	HIS
1	L	12	HIS
1	L	39	ASN
1	L	61	ASN
1	L	148	HIS
1	L	159	ASN
1	L	168	ASN
1	L	189	GLN
1	L	280	ASN
1	L	293	GLN

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Mol	Chain	Res	Type
1	L	313	ASN
1	L	317	ASN
1	L	338	ASN
1	L	387	HIS
1	L	458	HIS

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

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 24 ligands modelled in this entry, 24 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

EDS was not executed - this section is therefore empty.

6.2 Non-standard residues in protein, DNA, RNA chains

EDS was not executed - this section is therefore empty.

6.3 Carbohydrates

EDS was not executed - this section is therefore empty.

6.4 Ligands

EDS was not executed - this section is therefore empty.

6.5 Other polymers

EDS was not executed - this section is therefore empty.